

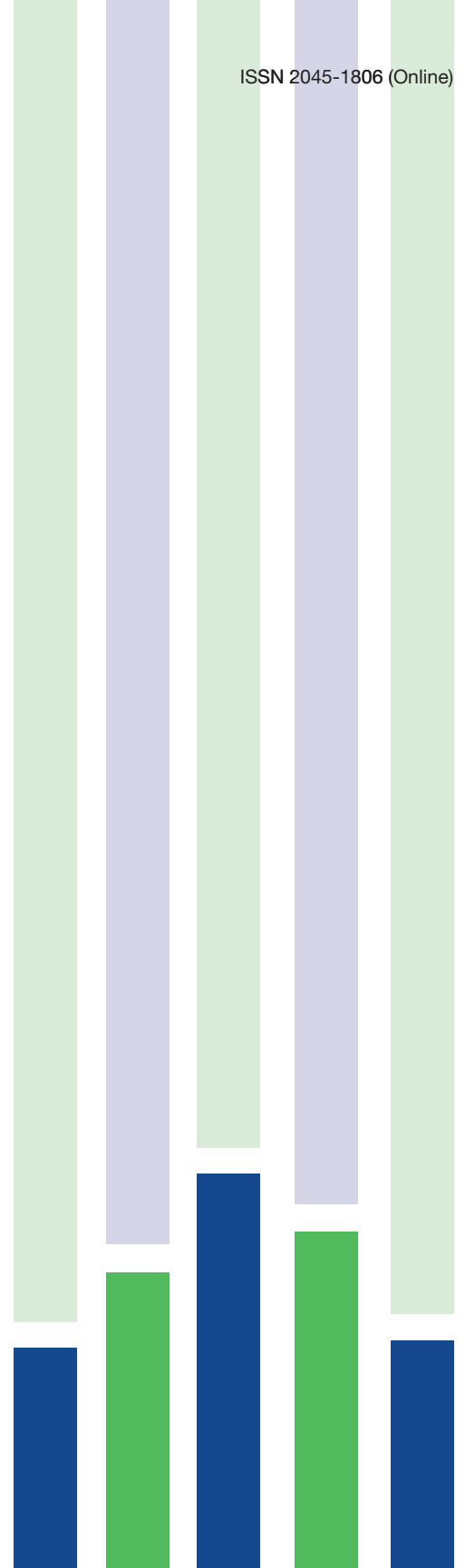


National Joint Registry

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# Prostheses used in hip, knee and ankle replacement procedures, 2010



**National Joint Registry  
for England and Wales**

8<sup>th</sup> Annual Report

2011

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# 1 Prostheses used in hip procedures, 2010

This section reports the numbers of prostheses implanted and reported to the NJR between 1st January and 31st December 2010.

The procedure counts in this section of the report may vary to the procedure counts in Part 2 of the Annual Report. This section counts the procedures where the implants being described have been used. If a procedure has been submitted with missing implants then this will cause a mismatch.

## 1.1 Femoral head material and size

Table 1 shows the relative usage of different femoral heads. There has been a 5% decrease in the use of metallic heads and a 5% increase in the use of alumina heads compared with 2009. Since 2008 there has been a 10% decrease in the use of metallic heads.

**Table 1** Frequency of material chosen for femoral heads in procedures performed in 2010.

Material	Number of procedures	Number of femoral heads used	%
	76,194	69,042	
metallic		43,352	63%
alumina		25,543	37%
zirconia		147	<1%

Table 2 shows the frequency of the different femoral head sizes. The main changes compared with 2009 are a 3% increase in the use of large heads classified as '36+' size and a 3% increase in the use of 32mm heads.

**Table 2** Frequency of femoral head sizes for procedures performed in 2010.

Head size (mm)	Number of procedures	Number of femoral heads used	%
	76,194	69,055	
22		1,168	2%
26		1,114	2%
28		29,623	43%
32		16,709	24%
36+		20,441	30%

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## 1.2 Brand sales of conventional total hips and resurfacing prostheses

Tables 3 to 8 show the most frequently used brands in England and Wales during 2010, as assessed by their rate of entry into the NJR database. The level of assessment according to ODEP criteria is given in the final column. The tables have been split into two to show brand usage in primary procedures and revision procedures separately.

**Table 3(a)** Cemented cup brands for primary hip procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%	ODEP rating
		<b>22,296</b>		
Stryker	CONTEMPORARY	7,772	35%	5A
DePuy	ELITE PLUS OGEE	2,770	12%	10A
DePuy	ELITE PLUS CEMENTED CUP	1,832	8%	10A
DePuy	MARATHON	1,496	7%	Pre-entry
Stryker	EXETER DURATION	1,433	6%	10A
Smith & Nephew	OPERA	1,199	5%	5B
Zimmer	ZCA	998	4%	10A
Zimmer	LOW PROFILE MULLER	933	4%	Unclassified
DePuy	CHARNLEY OGEE	802	4%	10A
DePuy	CHARNLEY CEMENTED CUP	696	3%	10A
Biomet	STANMORE-ARCOM	390	2%	10A
Corin	CENATOR CEMENTED CUP	361	2%	3A
Biomet	APOLLO	283	1%	Pre-entry
Mathys Orthopaedics Ltd	CCB MATHYS	264	1%	10A
DePuy	WROBLEWSKI GOLF BALL	168	1%	5B
Biomet	ARCOM SHP	146	1%	5A
Joint Replacement Instrumentation Ltd	FURLONG CEMENTED CUP	138	1%	10B
Stryker	EXETER RIMFIT	109	<1%	10A
Smith & Nephew	REFLECTION CEMENTED	78	<1%	7A
Waldemar Link	INTERPLANTA	64	<1%	Unclassified
Waldemar Link	LINK FLANGE CUP	60	<1%	Unclassified
Waldemar Link	SNAP FIT	56	<1%	Unclassified
B Braun / Aesculap	CHIRULEN	55	<1%	Unclassified
Biomet	CMK CEMENTED CUP	48	<1%	Unclassified
DePuy	ULTIMA CEMENTED CUP	42	<1%	Discontinued
Joint Replacement Instrumentation Ltd	JRI CEMENTED CUP	24	<1%	Unclassified
Implants International	EDINBURGH CUP	22	<1%	Unclassified
Implants International	CCB	13	<1%	Unclassified
Stryker	DURATION	12	<1%	Unclassified
Finsbury	SLF CEMENTED CUP (FINSBURY)	8	<1%	10C
DePuy	WROBLEWSKI ANGLE BORE SOCKET	5	<1%	7B
DePuy	ELITE PLUS FLANGED	4	<1%	10A

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Manufacturer	Brand	Number of procedures	%	ODEP rating
Biomet	BIOMET BI-POLAR CEMENTED CUP	3	<1%	Not ODEP Rated Product
Orthodynamics	ORTHODYNAMICS	3	<1%	Unclassified
B Braun / Aesculap	ALFA CEMENTED CUP	2	<1%	Unclassified
Biomet	FREEDOM	2	<1%	Unclassified
Zimmer	METASUL-MULLER	2	<1%	Unclassified
DePuy	ASR 300	1	<1%	Unclassified
DePuy	CHARNLEY KS	1	<1%	Unclassified
DePuy	SOLUTION CEMENTED CUP	1	<1%	Unclassified

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**Table 3(b)** Cemented cup brands for revision hip procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		<b>1,328</b>	
Stryker	CONTEMPORARY	381	29%
DePuy	MARATHON	183	14%
DePuy	ELITE PLUS OGEE	170	13%
DePuy	ELITE PLUS CEMENTED CUP	150	11%
Smith & Nephew	OPERA	68	5%
Stryker	EXETER DURATION	48	4%
DePuy	CHARNLEY CEMENTED CUP	42	3%
Corin	CENATOR CEMENTED CUP	40	3%
Zimmer	LOW PROFILE MULLER	40	3%
Zimmer	ZCA	23	2%
Biomet	STANMORE-ARCOM	22	2%
DePuy	CHARNLEY OGEE	22	2%
Stryker	EXETER RIMFIT	19	1%
DePuy	WROBLEWSKI GOLF BALL	13	1%
Joint Replacement Instrumentation Ltd	FURLONG CEMENTED CUP	13	1%
Smith & Nephew	REFLECTION CEMENTED	12	1%
B Braun / Aesculap	CHIRULEN	11	1%
Waldemar Link	SNAP FIT	9	1%
Joint Replacement Instrumentation Ltd	JRI CEMENTED CUP	8	1%
DePuy	ELITE PLUS FLANGED	6	<1%
Waldemar Link	INTERPLANTA	6	<1%
Biomet	APOLLO	5	<1%
Biomet	ARCOM SHP	5	<1%
DePuy	WROBLEWSKI ANGLE BORE SOCKET	5	<1%
Implants International	EDINBURGH CUP	5	<1%
Biomet	HI-WALL	3	<1%
DePuy	ULTIMA CEMENTED CUP	3	<1%
Mathys Orthopaedics Ltd	CCB MATHYS	3	<1%
Biomet	BIOMET BI-POLAR CEMENTED CUP	2	<1%
Biomet	BIOMET MULLER	1	<1%
Biomet	CMK CEMENTED CUP	1	<1%
Corin	CTI CEMENTED CUP	1	<1%
Corin	HI-NEK CEMENTED CUP	1	<1%
DePuy	CHARNLEY KS	1	<1%

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Manufacturer	Brand	Number of procedures	%
DePuy	SOLUTION CEMENTED CUP	1	<1%
Finsbury	SLF CEMENTED CUP (FINSBURY)	1	<1%
Joint Replacement Instrumentation Ltd	CUSTOM HC	1	<1%
Stryker	DURATION	1	<1%
Stryker	ODC	1	<1%
Waldemar Link	LINK FLANGE CUP	1	<1%

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**Table 4(a)** Cementless cup brands for primary hip procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%	ODEP Rating
		<b>42,312</b>		
DePuy	PINNACLE	14,246	34%	7A
Stryker	TRIDENT	7,995	19%	5A
Zimmer	TRILOGY	3,305	8%	7A
Joint Replacement Instrumentation Ltd	CSF PLUS	3,114	7%	Unclassified
Biomet	EXCEED	2,705	6%	5A
Joint Replacement Instrumentation Ltd	CSF	1,123	3%	10A
Smith & Nephew	REFLECTION CEMENTLESS	1,087	3%	7A
Zimmer	CONTINUUM	836	2%	Pre-entry
Wright Medical UK Ltd	PROCOTYL	750	2%	Pre-entry
Smith & Nephew	EPF-PLUS	743	2%	3A
Zimmer	ALLOFIT	635	2%	5A
DePuy	DURALOC CEMENTLESS CUP	626	1%	10A
Finsbury	DELTA MOTION	626	1%	Pre-entry
Zimmer	TRABECULAR METAL CEMENTLESS CUP	493	1%	5A
Corin	TRINITY	457	1%	Pre-entry
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	376	1%	5A
Stryker	TRITANIUM	238	1%	Pre-entry
Smith & Nephew	SP3 HA	218	1%	Unclassified
Medacta UK Ltd	VERSAFIT	209	<1%	Unclassified
Stryker	ABG II CEMENTLESS CUP	206	<1%	5A
Lima WG Healthcare	DELTA TT	204	<1%	Unclassified
FH Newtech Ortho Ltd	ATLAS IIIP	178	<1%	Unclassified
Lima WG Healthcare	LIMA/WG REVISION CUP	175	<1%	Unclassified
Smith & Nephew	POLAR CEMENTLESS CUP	173	<1%	5A
Symbios SA	APRIL	153	<1%	Unclassified
Biomet	MALLORY-HEAD CEMENTLESS CUP	151	<1%	5A
Biomet	M2A CEMENTLESS CUP	131	<1%	Unclassified
DePuy	DURALOC OPTION	124	<1%	10A
Mathys Orthopaedics Ltd	RM CEMENTLESS CUP (MATHYS)	115	<1%	10A
Smith & Nephew	BICON-PLUS	107	<1%	10A
Mathys Orthopaedics Ltd	SELEXYS TH	88	<1%	Pre-entry
Zimmer	MMC CUP	75	<1%	Unclassified

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Manufacturer	Brand	Number of procedures	%	ODEP Rating
Biomet	AVANTAGE	57	<1%	10C
Zimmer	MONOBLOCK TRABECULAR METAL CUP CEMENTLESS	55	<1%	5A
Implantcast GmbH	IMPLANTCAST	42	<1%	Unclassified
Zimmer	TRILOGY IT	37	<1%	7A
Joint Replacement Instrumentation Ltd	FURLONG THREADED CUP	36	<1%	10A
Zimmer	ZIMMER DELTA	35	<1%	Unclassified
Orthodynamics	NOVAE STICK	34	<1%	10B
Zimmer	LOW PROFILE MULLER CEMENTLESS	34	<1%	Unclassified
Zimmer	CLS CEMENTLESS CUP	33	<1%	10A
Biomet	REGENEREX CEMENTLESS	29	<1%	Unclassified
Mathys Orthopaedics Ltd	SELEXYS PC	27	<1%	Pre-entry
DePuy	GYROS	25	<1%	Unclassified
Zimmer	TRABECULAR METAL REVISION SHELL	25	<1%	Pre-entry
Orthodynamics	NOVAE SF	22	<1%	10B
Stryker	SECURE FIT CEMENTLESS CUP	22	<1%	5A
Implants International	RM CEMENTLESS CUP (IMPLANT INTERNATIONAL)	15	<1%	Unclassified
Waldemar Link	TOP	15	<1%	Unclassified
Amplitude	SATURNE	12	<1%	3B
Smith & Nephew	R3	12	<1%	Pre-entry
Zimmer	FITMORE	12	<1%	7B
Biomet	UNIVERSAL II	11	<1%	5A
Corin	DC-FIT	10	<1%	Unclassified
Stryker	RESTORATION GAP2	10	<1%	Unclassified
Joint Replacement Instrumentation Ltd	TRIBOFIT	6	<1%	Unclassified
DePuy	J-LOC	5	<1%	Unclassified
Exactech (UK) Ltd	NOVATION	5	<1%	Unclassified
Wright Medical UK Ltd	CONSERVE-PLUS	4	<1%	Pre-entry
Lima WG Healthcare	LIMA DELTA REVISION	3	<1%	Unclassified
Orthodynamics	NOVAE	3	<1%	10B
Joint Replacement Instrumentation Ltd	CUSTOM	2	<1%	Not Applicable
Surgicraft	SPLIT CUP	2	<1%	Unclassified
Amplitude	HORIZON	1	<1%	3A

Manufacturer	Brand	Number of procedures	%	ODEP Rating
Biomet	BIHAPRO	1	<1%	7B
Biomet	PAR 5 RINOWL CEMENTLESS CUP	1	<1%	Unclassified
Biomet	RANAWAT/BURSTEIN	1	<1%	Unclassified
ESKA/TriMed	TRICON CEMENTLESS CUP	1	<1%	Unclassified
Exactech (UK) Ltd	ACUMATCH CUP	1	<1%	Unclassified
Orthodynamics	SUNFIT	1	<1%	Unclassified
Stryker	GAP RING	1	<1%	Unclassified
Waldemar Link	PROCOTYL	1	<1%	Unclassified
Wright Medical UK Ltd	CUSTOM	1	<1%	Not Applicable

**Table 4(b)** Cementless cup brands for revision hip procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		<b>4,385</b>	
Zimmer	TRABECULAR METAL CEMENTLESS CUP	860	20%
DePuy	PINNACLE	775	18%
Stryker	TRIDENT	607	14%
Stryker	TRITANIUM	433	10%
Zimmer	TRILOGY	246	6%
Zimmer	TRABECULAR METAL REVISION SHELL	211	5%
Biomet	REGENEREX CEMENTLESS	156	4%
Zimmer	CONTINUUM	148	3%
Joint Replacement Instrumentation Ltd	CSF PLUS	138	3%
Smith & Nephew	REFLECTION CEMENTLESS	89	2%
Lima WG Healthcare	LIMA/WG REVISION CUP	86	2%
Biomet	EXCEED	78	2%
Lima WG Healthcare	DELTA TT	62	1%
Orthodynamics	NOVAE STICK	57	1%
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	42	1%
Biomet	MALLORY-HEAD CEMENTLESS CUP	41	1%
Joint Replacement Instrumentation Ltd	CSF	39	1%
Wright Medical UK Ltd	PROCOTYL	36	1%
Stryker	RESTORATION GAP2	33	1%
Finsbury	DELTA MOTION	29	1%
Amplitude	SATURNE	27	1%
DePuy	DURALOC CEMENTLESS CUP	27	1%
Stryker	SECURE FIT CEMENTLESS CUP	20	<1%
Smith & Nephew	POLAR CEMENTLESS CUP	17	<1%
Biomet	AVANTAGE	16	<1%
Lima WG Healthcare	LIMA DELTA REVISION	13	<1%
Zimmer	MONOBLOCK TRABECULAR METAL CUP CEMENTLESS	12	<1%
Smith & Nephew	EPF-PLUS	9	<1%
Zimmer	ALLOFIT	9	<1%
Corin	TRINITY	7	<1%
Orthodynamics	NOVAE	7	<1%

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Manufacturer	Brand	Number of procedures	%
Orthodynamics	NOVAE SF	7	<1%
FH Newtech Ortho Ltd	ATLAS IIIP	6	<1%
DePuy	DURALOC OPTION	5	<1%
DePuy	GYROS	5	<1%
Mathys Orthopaedics Ltd	RM CEMENTLESS CUP (MATHYS)	4	<1%
Joint Replacement Instrumentation Ltd	FURLONG THREADED CUP	3	<1%
Medacta UK Ltd	VERSAFIT	3	<1%
Smith & Nephew	SP3 HA	3	<1%
Zimmer	TRILOGY IT	3	<1%
Biomet	M2A CEMENTLESS CUP	2	<1%
Biomet	PAR 5 RINOWL CEMENTLESS CUP	2	<1%
DePuy	S-ROM CEMENTLESS CUP	2	<1%
Zimmer	ZIMMER DELTA	2	<1%
Biomet	ROMANUS II	1	<1%
DePuy	OCTOPUS	1	<1%
Exactech (UK) Ltd	ACUMATCH CUP	1	<1%
Smith & Nephew	BOFOR	1	<1%
Smith & Nephew	R3	1	<1%
Stryker	ABG II CEMENTLESS CUP	1	<1%
Stryker	GAP RING	1	<1%
Zimmer	LOW PROFILE MULLER CEMENTLESS	1	<1%

**Table 5(a)** Cemented stem brands for primary hip procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%	ODEP Rating
		<b>32,076</b>		
Stryker	EXETER V40	20,186	63%	10A
Zimmer	CPT	3,422	11%	10A
DePuy	CHARNLEY CEMENTED STEM	1,446	5%	10A
DePuy	C-STEM CEMENTED STEM	1,393	4%	10B
DePuy	C-STEM AMT CEMENTED STEM	1,023	3%	3A
Biomet	STANMORE MODULAR	857	3%	10A
Smith & Nephew	CPCS	557	2%	3A
Zimmer	MS-30	513	2%	10B
Biomet	MULLER-BIOMET	367	1%	5B
Zimmer	MULLER STR STEM	313	<1%	10A
Mathys Orthopaedics Ltd	CCA CEMENTED STEM	214	<1%	10A
Smith & Nephew	CPS-PLUS	204	<1%	7A
Waldemar Link	SP II CEMENTED STEM	179	<1%	10A
DePuy	CHARNLEY MODULAR	164	<1%	7A
Biomet	OLYMPIA	162	<1%	5B
Joint Replacement Instrumentation Ltd	FURLONG CEMENTED STEM	105	<1%	10C
Smith & Nephew	SPECTRON	98	<1%	10A
Biomet	TAPERLOC CEMENTED STEM	92	<1%	Pre-entry
Corin	TAPERFIT CEMENTED STEM	86	<1%	7B
Stryker	RESTORATION CEMENTED STEM	80	<1%	Unclassified
Smith & Nephew	SL-PLUS CEMENTED STEM	75	<1%	Unclassified
Biomet	CMK CEMENTED STEM	49	<1%	10C
B Braun / Aesculap	EXCIA-CEMENTED	46	<1%	Unclassified
Zimmer	P10 MULLER	46	<1%	10A
Stryker	OMNIFIT CEMENTED STEM	42	<1%	10A
Finsbury	LPR CEMENTED	39	<1%	Unclassified
Wright Medical UK Ltd	PROFEMUR CEMENTED STEM	32	<1%	Pre-entry
Biomet	BIMETRIC CEMENTED STEM	30	<1%	10A
DePuy	CORAIL CEMENTED	25	<1%	Pre-entry
Lima WG Healthcare	LIMA/WG REVISION STEM	24	<1%	Unclassified
Zimmer	VERSYS HERITAGE	19	<1%	5A
B Braun / Aesculap	CENTRAMENT	17	<1%	Unclassified
Stryker	EXETER	14	<1%	10A
Implants International	EDINBURGH	13	<1%	Unclassified

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Manufacturer	Brand	Number of procedures	%	ODEP Rating
Biomet	MONOBLOC STANMORE	12	<1%	10A
Waldemar Link	SP112	11	<1%	10A
Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	9	<1%	Unclassified
DePuy	SUMMIT CEMENTED STEM	7	<1%	3A
Smith & Nephew	CPS	7	<1%	Unclassified
Waldemar Link	MP NECK CEMENTED STEM	7	<1%	Unclassified
Corin	CTI CEMENTED STEM	6	<1%	Unclassified
Joint Replacement Instrumentation Ltd	LOL CEMENTED	6	<1%	Unclassified
Zimmer	VERSYS CEMENTED STEM	6	<1%	5A
DePuy	ELITE PLUS CEMENTED STEM	5	<1%	10A
Finsbury	FREEMAN CEMENTED FINSBURY	5	<1%	10C
Joint Replacement Instrumentation Ltd	FURLONG LOL	5	<1%	Unclassified
Implantcast GmbH	IMPLANTCAST CEMENTED	4	<1%	Unclassified
Smith & Nephew	ECHELON CEMENTED STEM	4	<1%	Unclassified
Waldemar Link	WAGNER REVISION STEM	4	<1%	Unclassified
Biomet	MALLORY-HEAD CEMENTED STEM	3	<1%	Unclassified
Biomet	SHP	3	<1%	Unclassified
DePuy	LPS	3	<1%	Unclassified
Smith & Nephew	SLR-PLUS CEMENTED STEM	3	<1%	Unclassified
Stryker	GMRS	3	<1%	Unclassified
Corin	OXFORD UNIVERSAL HIP (CORIN) CEMENTED STEM	2	<1%	Unclassified
Mathys Orthopaedics Ltd	MATHYS REVISION STEM	2	<1%	Unclassified
Stanmore Implants Worldwide	METS	2	<1%	Unclassified
Waldemar Link	MEGA SYSTEM	2	<1%	Unclassified
Zimmer	MAYO CEMENTED STEM	2	<1%	Unclassified
B Braun / Aesculap	BICONTACT CEMENTED STEM	1	<1%	10C
B Braun / Aesculap	PREVISION CEMENTED STEM	1	<1%	Unclassified
DePuy	WROBLEWSKI RESECTION	1	<1%	Unclassified
Exactech (UK) Ltd	ACUMATCH M-SERIES	1	<1%	Unclassified
Implantcast GmbH	IMPLANTCAST CEMENTED STEM	1	<1%	Unclassified
Jointmedica Limited	LOL CEMENTED	1	<1%	Unclassified
Orthodynamics	CANNULOK CEMENTED STEM	1	<1%	Unclassified
Stanmore Implants Worldwide	CUSTOM DEVICE	1	<1%	Not Applicable
Zimmer	ZMR CEMENTED STEM	1	<1%	Unclassified

**Table 5(b)** Cemented stem brands for revision hip procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%	Procedures using femoral bone graft
		<b>3,217</b>		<b>265</b>
Stryker	EXETER V40	1,372	43%	80
Stryker	RESTORATION CEMENTED STEM	718	22%	78
Zimmer	CPT	303	9%	11
DePuy	C-STEM CEMENTED STEM	188	6%	16
Waldemar Link	MP NECK CEMENTED STEM	79	2%	15
DePuy	C-STEM AMT CEMENTED STEM	68	2%	2
Lima WG Healthcare	LIMA/WG REVISION STEM	62	2%	13
Biomet	STANMORE MODULAR	44	1%	1
Biomet	OXFORD UNIVERSAL HIP (BIOMET) CEMENTED STEM	41	1%	9
Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	35	1%	3
B Braun / Aesculap	PREVISION CEMENTED STEM	26	<1%	12
Stryker	GMRS	23	<1%	0
DePuy	CHARNLEY CEMENTED STEM	21	<1%	1
Waldemar Link	SP II CEMENTED STEM	19	<1%	0
Biomet	MULLER-BIOMET	18	<1%	0
Joint Replacement Instrumentation Ltd	FURLONG CEMENTED STEM	14	<1%	0
Stanmore Implants Worldwide	METS	14	<1%	0
Zimmer	MS-30	14	<1%	0
Zimmer	ZMR CEMENTED STEM	13	<1%	5
Smith & Nephew	CPCS	11	<1%	0
Biomet	TAPERLOC CEMENTED STEM	10	<1%	0
DePuy	WROBLEWSKI RESECTION	10	<1%	6
Corin	TAPERFIT CEMENTED STEM	8	<1%	0
DePuy	ELITE PLUS CEMENTED STEM	8	<1%	6
DePuy	LPS	8	<1%	0
Smith & Nephew	SPECTRON	8	<1%	0
Biomet	MALLORY-HEAD CEMENTED STEM	6	<1%	1
Zimmer	MULLER STR STEM	6	<1%	0
DePuy	CHARNLEY MODULAR	5	<1%	0
Finsbury	FREEMAN CEMENTED FINSBURY	5	<1%	0
Smith & Nephew	CPS-PLUS	5	<1%	0
Stanmore Implants Worldwide	CUSTOM DEVICE	5	<1%	0

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Manufacturer	Brand	Number of procedures	%	Procedures using femoral bone graft
B Braun / Aesculap	EXCIA-CEMENTED	4	<1%	0
Corin	OXFORD UNIVERSAL HIP (CORIN) CEMENTED STEM	4	<1%	4
DePuy	CORAIL CEMENTED	4	<1%	0
Implants International	EDINBURGH	4	<1%	0
Mathys Orthopaedics Ltd	MATHYS REVISION STEM	4	<1%	1
B Braun / Aesculap	BICONTACT CEMENTED STEM	3	<1%	0
Smith & Nephew	ECHELON CEMENTED STEM	3	<1%	1
Stryker	EXETER	3	<1%	0
Wright Medical UK Ltd	PROFEMUR CEMENTED STEM	3	<1%	0
Zimmer	P10 MULLER	3	<1%	0
Biomet	OLYMPIA	2	<1%	0
B Braun / Aesculap	CENTRAMENT	1	<1%	0
Biomet	BIMETRIC CEMENTED STEM	1	<1%	0
Corin	CTI CEMENTED STEM	1	<1%	0
DePuy	SUMMIT CEMENTED STEM	1	<1%	0
Finsbury	LPR CEMENTED	1	<1%	0
Implantcast GmbH	MUTARS	1	<1%	0
Joint Replacement Instrumentation Ltd	LOL CEMENTED	1	<1%	0
Mathys Orthopaedics Ltd	CCA CEMENTED STEM	1	<1%	0
Orthodynamics	CANNULOK CEMENTED STEM	1	<1%	0
Smith & Nephew	MDF MODULAR	1	<1%	0
Smith & Nephew	SL-PLUS CEMENTED STEM	1	<1%	0
Stryker	OMNIFIT CEMENTED STEM	1	<1%	0
Zimmer	VERSYS CEMENTED STEM	1	<1%	0



**Table 6(a)** Cementless stem brands for primary hip procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%	ODEP Rating
		<b>32,292</b>		
DePuy	CORAIL	15,239	47%	10A
Joint Replacement Instrumentation Ltd	FURLONG HAC	3,931	12%	10A
Stryker	ACCOLADE	3,307	10%	5A
Biomet	TAPERLOC CEMENTLESS STEM	2,384	7%	10A
Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	781	2%	Pre-entry
Smith & Nephew	SL-PLUS CEMENTLESS STEM	671	2%	10A
Smith & Nephew	SYNERGY CEMENTLESS STEM	623	2%	5A
Biomet	BIMETRIC CEMENTLESS STEM	600	2%	10A
Zimmer	CLS CEMENTLESS STEM	538	2%	10A
Zimmer	M/L TAPER CEMENTLESS	488	2%	Pre-entry
DePuy	S-ROM CEMENTLESS STEM	258	<1%	10A
Stryker	ABG II CEMENTLESS STEM	251	<1%	5B
Corin	METAFIX STEM	238	<1%	Pre-entry
B Braun / Aesculap	EXCIA	237	<1%	5A
Zimmer	VERSYS CEMENTLESS STEM	193	<1%	various
Smith & Nephew	ANTHOLOGY	192	<1%	Pre-entry
Finsbury	FINSBURY TYPE C	171	<1%	Pre-entry
DePuy	TRILock BPS	153	<1%	Unclassified
Lima WG Healthcare	H MAX	149	<1%	Unclassified
Medacta UK Ltd	AMIS	139	<1%	Unclassified
Smith & Nephew	POLAR CEMENTLESS STEM	130	<1%	Pre-entry
Smith & Nephew	BIRMINGHAM HEAD RESECTION STEM	124	<1%	Pre-entry
Zimmer	M/L TAPER KINECTIV CEMENTLESS	117	<1%	Pre-entry
Corin	MINIHIP	112	<1%	Pre-entry
Wright Medical UK Ltd	ANCAFIT CEMENTLESS STEM	99	<1%	3A
Symbios SA	SPS	94	<1%	7B
DePuy	SILENT	92	<1%	Pre-entry
Mathys Orthopaedics Ltd	TWINSYS CEMENTLESS STEM	90	<1%	Pre-entry
Zimmer	TRABECULAR CEMENTLESS STEM	87	<1%	Pre-entry
DePuy	SUMMIT CEMENTLESS STEM	78	<1%	5A
DePuy	DEPUY PROXIMA	75	<1%	Pre-entry
Stryker	OMNIFIT CEMENTLESS STEM	75	<1%	10A
Medacta UK Ltd	QUADRA CEMENTLESS	67	<1%	Unclassified
Zimmer	ZWEYMULLER	56	<1%	10A
Mathys Orthopaedics Ltd	CBC	52	<1%	Pre-entry
Zimmer	FITMORE STEM	52	<1%	Unclassified
Lima WG Healthcare	LIMA SL	37	<1%	Unclassified

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Manufacturer	Brand	Number of procedures	%	ODEP Rating
B Braun / Aesculap	BICONTACT CEMENTLESS STEM	34	<1%	10A
DePuy	CORAIL REVISION	25	<1%	Not Applicable
FH Newtech Ortho Ltd	FH MODULAR	24	<1%	Unclassified
Finsbury	FREEMAN CEMENTLESS	24	<1%	10C
DePuy	KAR	21	<1%	Unclassified
Symbios SA	HARMONY	21	<1%	Unclassified
Biomet	MICRO TAPERLOC	19	<1%	Unclassified
Zimmer	ALLOCLASSIC CEMENTLESS STEM	17	<1%	10A
Orthodynamics	CANNULOK CEMENTLESS STEM	13	<1%	Unclassified
Zimmer	REVITAN CEMENTLESS PROXIMAL STEM	12	<1%	Unclassified
Corin	PANATOMIC CEMENTLESS STEM	11	<1%	Unclassified
B Braun / Aesculap	METHA	8	<1%	3A
Waldemar Link	CFP	8	<1%	Unclassified
DePuy	SOLUTION CEMENTLESS STEM	7	<1%	Unclassified
Biomet	ASIAN CEMENTLESS STEM	6	<1%	Unclassified
DePuy	REEF	6	<1%	Unclassified
Finsbury	FTS	6	<1%	Pre-entry
Biomet	EXCEPTION	5	<1%	Unclassified
Exactech (UK) Ltd	NOVATION STEM	5	<1%	Pre-entry
Zimmer	ZMR CEMENTLESS PROXIMAL STEM	5	<1%	Unclassified
Zimmer	SYNERGY CEMENTLESS STEM	4	<1%	Unclassified
Biomet	AURA II CEMENTLESS STEM	3	<1%	7A
Biomet	CONELOCK	3	<1%	Unclassified
Corin	CERAFIT CEMENTLESS STEM	3	<1%	Unclassified
Finsbury	ADEPT CEMENTLESS STEM	3	<1%	Unclassified
Smith & Nephew	ECHELON CEMENTLESS STEM	3	<1%	Unclassified
Corin	C FIT	2	<1%	Unclassified
Implantcast GmbH	IMPLANTCAST CEMENTLESS STEM	2	<1%	Unclassified
Joint Replacement Instrumentation Ltd	SECURUS	2	<1%	Unclassified
Stryker	RESTORATION CEMENTLESS STEM	2	<1%	Unclassified
Symbios SA	ARCAD CEMENTLESS	2	<1%	Unclassified
DePuy	AML	1	<1%	10A
DePuy	PRODIGY	1	<1%	Unclassified
DePuy	REPLICA	1	<1%	Unclassified
ESKA/TriMed	QUADRA CEMENTLESS	1	<1%	Unclassified
Smith & Nephew	TAPERFIT S&N	1	<1%	Unclassified
Wright Medical UK Ltd	GLADIATOR CEMENTLESS	1	<1%	Unclassified

**Table 6(b)** Cementless stem brands for revision hip procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%	Procedures using femoral bone graft
		<b>1,434</b>		<b>164</b>
DePuy	CORAIL	260	18%	12
Zimmer	ZMR CEMENTLESS PROXIMAL STEM	134	9%	19
Joint Replacement Instrumentation Ltd	FURLONG HAC	98	7%	2
Zimmer	REVITAN CEMENTLESS PROXIMAL STEM	90	6%	19
DePuy	CORAIL REVISION	84	6%	11
DePuy	KAR	83	6%	16
DePuy	REEF	78	5%	12
Orthodynamics	CANNULOK CEMENTLESS STEM	73	5%	20
DePuy	S-ROM CEMENTLESS STEM	63	4%	2
Stryker	ACCOLADE	57	4%	3
Smith & Nephew	SYNERGY CEMENTLESS STEM	41	3%	0
Biomet	TAPERLOC CEMENTLESS STEM	40	3%	1
Smith & Nephew	ECHELON CEMENTLESS STEM	39	3%	3
Zimmer	M/L TAPER CEMENTLESS	39	3%	0
DePuy	SOLUTION CEMENTLESS STEM	34	2%	11
Biomet	REACH	33	2%	8
Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	26	2%	2
Joint Replacement Instrumentation Ltd	SECURUS	23	2%	5
Corin	METAFIX STEM	15	1%	0
Zimmer	M/L TAPER KINECTIV CEMENTLESS	14	<1%	0
Stryker	RESTORATION CEMENTLESS STEM	13	<1%	5
Biomet	BIMETRIC CEMENTLESS STEM	11	<1%	2
Smith & Nephew	SL-PLUS CEMENTLESS STEM	10	<1%	2
Zimmer	CLS CEMENTLESS STEM	9	<1%	0
Smith & Nephew	ANTHOLOGY	8	<1%	0
DePuy	SUMMIT CEMENTLESS STEM	7	<1%	0
Zimmer	VERSYS CEMENTLESS STEM	6	<1%	0
DePuy	TRILOCK BPS	5	<1%	0
Lima WG Healthcare	H MAX	5	<1%	0
Biomet	CONELock	4	<1%	2

Manufacturer	Brand	Number of procedures	%	Procedures using femoral bone graft
Corin	MINIHIP	4	<1%	0
Finsbury	FINSBURY TYPE C	3	<1%	1
Finsbury	FREEMAN CEMENTLESS	3	<1%	1
Biomet	MICRO TAPERLOC	2	<1%	1
DePuy	DEPUY PROXIMA	2	<1%	0
FH Newtech Ortho Ltd	FH MODULAR	2	<1%	0
Mathys Orthopaedics Ltd	TWINSYS CEMENTLESS STEM	2	<1%	2
Medacta UK Ltd	QUADRA CEMENTLESS	2	<1%	0
Smith & Nephew	POLAR CEMENTLESS STEM	2	<1%	0
Zimmer	TRABECULAR CEMENTLESS STEM	2	<1%	0
B Braun / Aesculap	BICONCONTACT CEMENTLESS STEM	1	<1%	0
B Braun / Aesculap	EXCIA	1	<1%	1
Medacta UK Ltd	AMIS	1	<1%	0
Stryker	ABG II CEMENTLESS STEM	1	<1%	0
Stryker	CALCAR REP	1	<1%	0
Wright Medical UK Ltd	ANCAFIT CEMENTLESS STEM	1	<1%	0
Wright Medical UK Ltd	ULTIMA CEMENTLESS STEM	1	<1%	1
Zimmer	ZWEYMULLER	1	<1%	0

**Table 7** Brands of resurfacing heads for primary hip procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%	ODEP rating
		<b>2,580</b>		
Smith & Nephew	BHR RESURFACING HEAD	1,323	51%	10A
Finsbury	ADEPT RESURFACING HEAD	455	18%	3A
Corin	CORMET 2000 RESURFACING HEAD	266	10%	5B
Biomet	RECAP RESURFACING HEAD	208	8%	3A
Wright Medical UK Ltd	CONSERVE	122	5%	5A
Zimmer	DUROM RESURFACING HEAD	99	4%	Pre-entry
DePuy	ASR RESURFACING HEAD	41	2%	3A
Implantcast GmbH	ACCIS RESURFACING HEAD	33	<1%	Unclassified
Stryker	MITCH TRH	29	1%	Pre-entry
Joint Replacement Instrumentation Ltd	MIHR	4	<1%	Pre-entry

Table 8 provides a summary of procedures where brands of resurfacing acetabular cups were used in combination with a conventional stem and a large

diameter metal-on-metal femoral head. This type of combination has decreased from 2,494 procedures in 2009 to 999 procedures in 2010.

**Table 8** Brands of resurfacing cup used with a conventional stem for primary hip procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%	ODEP rating
		999		
Biomet	RECAP RESURFACING CUP	412	41%	3A
Smith & Nephew	BHR RESURFACING CUP	258	26%	10A
Finsbury	ADEPT RESURFACING CUP	129	13%	3A
Stryker	MITCH TRH CUP	61	6%	Pre-entry
Zimmer	DUROM RESURFACING CUP	30	3%	Pre-entry
DePuy	ASR RESURFACING CUP	28	3%	3A
Corin	CORMET 2000 RESURFACING CUP	26	3%	5B
Joint Replacement Instrumentation Ltd	MIHR CUP	16	2%	Unclassified
Implantcast GmbH	ACCIS RESURFACING CUP	14	1%	Unclassified
Wright Medical UK Ltd	CONSERVE PLUS RESURFACING CUP	12	1%	5A
Corin	CORMET PRIME	8	1%	Pre-entry
Zimmer	MMC RESURFACING	3	<1%	Unclassified
Symbios SA	SYMBIOS	2	<1%	Unclassified

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### 1.3 Combinations of cups and stems

Tables 9(a) and 9(b) detail the combinations of cup and stem brands used in primary and revision hip procedures respectively. Tables 9(a) and 9(b) also detail which combinations have a different stem and cup manufacturer – a practice known as ‘mixing and matching’. In previous years only conventional cup and stem combinations were listed but this year’s results show conventional cup and resurfacing cup and stem combinations.

For 65,039 hip primary replacement procedures in the 2010 data, both the cup and stem brand were known, and a total of 882 different combinations of cup and

stem brands were recorded. The most common cup-stem combination was the Corail stem combined with the Pinnacle cup. Of the 65,039 primary procedures 12,127 (19%) used ‘mixed and matched’ cup-stem combinations from different suppliers, approximately 1% more than in 2009.

For revision hip procedures 510 cup-stem combinations were used. The most common cup-stem combination was the Exeter V40 stem combined with the Contemporary cup.

**Table 9(a)** Cup-stem brand combinations for primary hip procedures performed during 2010.

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
				65,039		
DePuy	PINNACLE	DePuy	CORAIL	12,065	19%	No
Stryker	CONTEMPORARY	Stryker	EXETER V40	7,400	11%	No
Stryker	TRIDENT	Stryker	EXETER V40	4,265	7%	No
Stryker	TRIDENT	Stryker	ACCOLADE	3,214	5%	No
Joint Replacement Instrumentation Ltd	CSF PLUS	Joint Replacement Instrumentation Ltd	FURLONG HAC	2,800	4%	No
Biomet	EXCEED	Biomet	TAPERLOC CEMENTLESS STEM	1,930	3%	No
DePuy	ELITE PLUS OGEE	Stryker	EXETER V40	1,836	3%	Yes
Zimmer	TRILOGY	Stryker	EXETER V40	1,452	2%	Yes
Stryker	EXETER DURATION	Stryker	EXETER V40	1,435	2%	No
Joint Replacement Instrumentation Ltd	CSF	Joint Replacement Instrumentation Ltd	FURLONG HAC	981	2%	No
Zimmer	ZCA	Zimmer	CPT	918	1%	No
Zimmer	TRILOGY	Zimmer	CPT	834	1%	No
DePuy	ELITE PLUS CEMENTED CUP	Stryker	EXETER V40	819	1%	Yes
DePuy	CHARNLEY OGEE	DePuy	CHARNLEY CEMENTED STEM	645	1%	No
DePuy	CHARNLEY CEMENTED CUP	DePuy	CHARNLEY CEMENTED STEM	610	1%	No
DePuy	MARATHON	DePuy	CORAIL	595	1%	No
Wright Medical UK Ltd	PROCOTYL	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	559	1%	No
DePuy	PINNACLE	Stryker	EXETER V40	524	1%	Yes
DePuy	PINNACLE	Zimmer	CPT	494	1%	Yes
Smith & Nephew	EPF-PLUS	Smith & Nephew	SL-PLUS CEMENTLESS STEM	455	1%	No
DePuy	MARATHON	DePuy	C-STEM CEMENTED STEM	408	1%	No
DePuy	ELITE PLUS CEMENTED CUP	DePuy	CORAIL	389	1%	No
Biomet	STANMORE-ARCOM	Biomet	STANMORE MODULAR	384	1%	No
Zimmer	TRILOGY	DePuy	CORAIL	356	1%	Yes

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Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	DURALOC CEMENTLESS CUP	DePuy	CORAIL	355	1%	No
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	SYNERGY CEMENTLESS STEM	347	1%	No
Biomet	EXCEED	Biomet	BIMETRIC CEMENTLESS STEM	328	1%	No
Zimmer	LOW PROFILE MULLER	Zimmer	MS-30	327	1%	No
Smith & Nephew	OPERA	Smith & Nephew	CPCS	325	<1%	No
DePuy	PINNACLE	DePuy	C-STEM AMT CEMENTED STEM	313	<1%	No
DePuy	MARATHON	Stryker	EXETER V40	312	<1%	Yes
Biomet	RECAP RESURFACING CUP	Biomet	TAPERLOC CEMENTLESS STEM	295	<1%	No
Zimmer	LOW PROFILE MULLER	Zimmer	MULLER STR STEM	294	<1%	No
Smith & Nephew	OPERA	Stryker	EXETER V40	263	<1%	Yes
Biomet	EXCEED	Stryker	EXETER V40	254	<1%	Yes
DePuy	ELITE PLUS OGEE	DePuy	C-STEM CEMENTED STEM	250	<1%	No
Biomet	APOLLO	Biomet	MULLER-BIOMET	245	<1%	No
DePuy	ELITE PLUS CEMENTED CUP	DePuy	C-STEM AMT CEMENTED STEM	245	<1%	No
Smith & Nephew	OPERA	DePuy	C-STEM CEMENTED STEM	245	<1%	Yes
Zimmer	CONTINUUM	Zimmer	CPT	242	<1%	No
Zimmer	ALLOFIT	Zimmer	CLS CEMENTLESS STEM	240	<1%	No
Corin	GENATOR CEMENTED CUP	Stryker	EXETER V40	236	<1%	Yes
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	B Braun / Aesculap	EXCIA	235	<1%	No
Finsbury	DELTA MOTION	DePuy	CORAIL	227	<1%	No
DePuy	ELITE PLUS OGEE	Zimmer	CPT	225	<1%	Yes
Smith & Nephew	REFLECTION CEMENTLESS	Stryker	EXETER V40	217	<1%	Yes
DePuy	ELITE PLUS OGEE	DePuy	C-STEM AMT CEMENTED STEM	212	<1%	No
Mathys Orthopaedics Ltd	CCB MATHYS	Mathys Orthopaedics Ltd	CCA CEMENTED STEM	194	<1%	No

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Corin	TRINITY	Corin	METAFIX STEM	182	<1%	No
Stryker	TRIDENT	Stryker	ABG II CEMENTLESS STEM	182	<1%	No
Zimmer	CONTINUUM	Zimmer	M/L TAPER CEMENTLESS	182	<1%	No
Smith & Nephew	OPERA	DePuy	CHARNLEY CEMENTED STEM	173	<1%	Yes
Stryker	CONTEMPORARY	DePuy	CORAIL	163	<1%	Yes
DePuy	MARATHON	DePuy	C-STEM AMT CEMENTED STEM	159	<1%	No
Finsbury	DELTA MOTION	Finsbury	FINSBURY TYPE C	147	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	CPT	147	<1%	No
DePuy	PINNACLE	DePuy	S-ROM CEMENTLESS STEM	145	<1%	No
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	ANTHOLOGY	144	<1%	No
Stryker	TRITANIUM	Stryker	EXETER V40	142	<1%	No
DePuy	WROBLEWSKI GOLF BALL	DePuy	C-STEM CEMENTED STEM	140	<1%	No
DePuy	ELITE PLUS OGEE	DePuy	CORAIL	138	<1%	No
Lima WG Healthcare	DELTA TT	DePuy	CORAIL	138	<1%	Yes
Medacta UK Ltd	VERSAFIT	Medacta UK Ltd	AMIS	137	<1%	No
Lima WG Healthcare	DELTA TT	Lima WG Healthcare	H MAX	135	<1%	No
Stryker	TRIDENT	DePuy	CORAIL	134	<1%	Yes
DePuy	DURALOC CEMENTLESS CUP	Stryker	EXETER V40	130	<1%	Yes
Zimmer	LOW PROFILE MULLER	Zimmer	CPT	130	<1%	No
DePuy	DURALOC OPTION	DePuy	CORAIL	129	<1%	No
Stryker	ABG II CEMENTLESS CUP	Stryker	EXETER V40	126	<1%	No
Zimmer	ALLOFIT	Zimmer	MS-30	125	<1%	No
Biomet	M2A CEMENTLESS CUP	Biomet	BIMETRIC CEMENTLESS STEM	123	<1%	No
Smith & Nephew	BHR RESURFACING CUP	Smith & Nephew	BIRMINGHAM HEAD RESECTION STEM	120	<1%	No



Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Smith & Nephew	POLAR CEMENTLESS CUP	Smith & Nephew	CPCS	120	<1%	No
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	POLAR CEMENTLESS STEM	120	<1%	No
Smith & Nephew	SP3 HA	Smith & Nephew	SYNERGY CEMENTLESS STEM	120	<1%	No
DePuy	ELITE PLUS CEMENTED CUP	Biomet	STANMORE MODULAR	119	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	Stryker	EXETER V40	119	<1%	Yes
Zimmer	LOW PROFILE MULLER	Biomet	MULLER-BIOMET	116	<1%	Yes
Smith & Nephew	EPF-PLUS	Smith & Nephew	CPS-PLUS	113	<1%	No
Zimmer	TRILOGY	Zimmer	CLS CEMENTLESS STEM	105	<1%	No
Stryker	EXETER RIMFIT	Stryker	EXETER V40	101	<1%	No
Wright Medical UK Ltd	PROCOTYL	Wright Medical UK Ltd	ANCAFIT CEMENTLESS STEM	98	<1%	No
Zimmer	ALLOFIT	Zimmer	CPT	97	<1%	No
DePuy	ELITE PLUS CEMENTED CUP	DePuy	C-STEM CEMENTED STEM	94	<1%	No
Joint Replacement Instrumentation Ltd	FURLONG CEMENTED CUP	Joint Replacement Instrumentation Ltd	FURLONG CEMENTED STEM	93	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	DePuy	CORAIL	92	<1%	Yes
Symbios SA	APRIL	Symbios SA	SPS	91	<1%	No
Smith & Nephew	BICON-PLUS	Smith & Nephew	SL-PLUS CEMENTLESS STEM	89	<1%	No
DePuy	PINNACLE	DePuy	SILENT	88	<1%	No
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	SL-PLUS CEMENTLESS STEM	88	<1%	No
Corin	TRINITY	DePuy	CORAIL	87	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	DePuy	CORAIL	86	<1%	Yes
Smith & Nephew	SP3 HA	Stryker	EXETER V40	86	<1%	Yes
Zimmer	TRILOGY	Zimmer	VERSYS CEMENTLESS STEM	86	<1%	No
Zimmer	ALLOFIT	Zimmer	M/L TAPER CEMENTLESS	85	<1%	No

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Corin	TRINITY	Zimmer	M/L TAPER CEMENTLESS	82	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Stryker	EXETER V40	82	<1%	Yes
Smith & Nephew	OPERA	Zimmer	CPT	81	<1%	Yes
Biomet	ARCOM SHP	Biomet	STANMORE MODULAR	79	<1%	No
Joint Replacement Instrumentation Ltd	CSF	DePuy	CORAIL	79	<1%	Yes
DePuy	CHARNLEY OGEE	DePuy	C-STEM CEMENTED STEM	78	<1%	No
DePuy	PINNACLE	DePuy	TRILOCK BPS	78	<1%	No
Biomet	MALLORY-HEAD CEMENTLESS CUP	Biomet	BIMETRIC CEMENTLESS STEM	77	<1%	No
Stryker	TRIDENT	Stryker	OMNIFIT CEMENTLESS STEM	76	<1%	No
Smith & Nephew	BHR RESURFACING CUP	Smith & Nephew	SYNERGY CEMENTLESS STEM	75	<1%	No
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	SPECTRON	75	<1%	No
DePuy	CHARNLEY OGEE	Stryker	EXETER V40	74	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	DePuy	CHARNLEY MODULAR	74	<1%	No
Stryker	ABG II CEMENTLESS CUP	Stryker	ABG II CEMENTLESS STEM	74	<1%	No
Zimmer	CONTINUUM	Zimmer	VERSYS CEMENTLESS STEM	71	<1%	No
Medacta UK Ltd	VERSAFIT	Medacta UK Ltd	QUADRA CEMENTLESS	70	<1%	No
Zimmer	TRILOGY	Joint Replacement Instrumentation Ltd	FURLONG HAC	70	<1%	Yes
DePuy	PINNACLE	DePuy	DEPUY PROXIMA	69	<1%	No
Zimmer	TRILOGY	Zimmer	M/L TAPER CEMENTLESS	67	<1%	No
Mathys Orthopaedics Ltd	CCB MATHYS	DePuy	CORAIL	66	<1%	Yes
Finsbury	ADEPT RESURFACING CUP	Zimmer	CLS CEMENTLESS STEM	65	<1%	Yes
Stryker	CONTEMPORARY	Zimmer	CPT	65	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Finsbury	DELTA MOTION	DePuy	TRILOCK BPS	64	<1%	Yes
DePuy	PINNACLE	DePuy	S-ROM CEMENTLESS STEM	61	<1%	No
Lima WG Healthcare	LIMA/WG REVISION CUP	Lima WG Healthcare	H MAX	60	<1%	No
Zimmer	CONTINUUM	Zimmer	M/L TAPER KINECTIV CEMENTLESS	60	<1%	No
Corin	CENATOR CEMENTED CUP	Smith & Nephew	CPS-PLUS	59	<1%	Yes
Zimmer	TRILOGY	DePuy	CHARNLEY MODULAR	59	<1%	Yes
Mathys Orthopaedics Ltd	RM CEMENTLESS CUP (MATHYS)	DePuy	CORAIL	58	<1%	Yes
Zimmer	CONTINUUM	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	58	<1%	Yes
Biomet	EXCEED	Biomet	STANMORE MODULAR	57	<1%	No
DePuy	CHARNLEY CEMENTED CUP	Stryker	EXETER V40	56	<1%	Yes
Waldemar Link	INTERPLANTA	Waldemar Link	SP II CEMENTED STEM	56	<1%	No
Stryker	TRITANIUM	Stryker	ACCOLADE	55	<1%	No
DePuy	DURALOC CEMENTLESS CUP	Biomet	OLYMPIA	54	<1%	Yes
Stryker	TRIDENT	Stryker	RESTORATION CEMENTED STEM	53	<1%	No
Smith & Nephew	OPERA	DePuy	CORAIL	52	<1%	Yes
Biomet	RECAP RESURFACING CUP	Biomet	BIMETRIC CEMENTLESS STEM	51	<1%	No
Smith & Nephew	EPF-PLUS	Smith & Nephew	CPCS	51	<1%	No
Zimmer	ALLOFIT	Zimmer	FITMORE STEM	50	<1%	No
Mathys Orthopaedics Ltd	SELEXYS TH	Mathys Orthopaedics Ltd	CBC	49	<1%	No
Biomet	CMK CEMENTED CUP	Biomet	CMK CEMENTED STEM	48	<1%	No
DePuy	PINNACLE	Biomet	TAPERLOC CEMENTLESS STEM	47	<1%	Yes
Smith & Nephew	REFLECTION CEMENTED	Smith & Nephew	CPCS	47	<1%	No

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
FH Newtech Ortho Ltd	ATLAS IIIP	Corin	TAPERFIT CEMENTED STEM	45	<1%	Yes
Zimmer	CONTINUUM	Biomet	OLYMPIA	45	<1%	Yes
Zimmer	LOW PROFILE MULLER	Zimmer	P10 MULLER	45	<1%	No
DePuy	PINNACLE	DePuy	SUMMIT CEMENTLESS STEM	44	<1%	No
Wright Medical UK Ltd	PROCOTYL	Stryker	EXETER V40	44	<1%	Yes
Corin	TRINITY	Corin	MINIHIP	43	<1%	No
DePuy	PINNACLE	DePuy	C-STEM CEMENTED STEM	43	<1%	No
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	Stryker	EXETER V40	42	<1%	Yes
DePuy	DURALOC CEMENTLESS CUP	DePuy	C-STEM CEMENTED STEM	42	<1%	No
FH Newtech Ortho Ltd	ATLAS IIIP	Stryker	EXETER V40	42	<1%	Yes
Zimmer	CONTINUUM	DePuy	CORAIL	42	<1%	Yes
Zimmer	TRILOGY	DePuy	C-STEM CEMENTED STEM	42	<1%	Yes
Zimmer	TRILOGY	Zimmer	TRABECULAR CEMENTLESS STEM	41	<1%	No
Lima WG Healthcare	LIMA/WG REVISION CUP	DePuy	CORAIL	40	<1%	Yes
Waldemar Link	LINK FLANGE CUP	Waldemar Link	SP II CEMENTED STEM	40	<1%	No
Biomet	EXCEED	Biomet	TAPERLOC CEMENTED STEM	39	<1%	No
DePuy	DURALOC CEMENTLESS CUP	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	39	<1%	Yes
Mathys Orthopaedics Ltd	SELEXYS TH	Mathys Orthopaedics Ltd	TWINSYS CEMENTLESS STEM	39	<1%	No
Corin	GENATOR CEMENTED CUP	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	37	<1%	Yes
Lima WG Healthcare	LIMA/WG REVISION CUP	Lima WG Healthcare	LIMA SL	37	<1%	No
Zimmer	TRILOGY	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	37	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Biomet	AVANTAGE	Biomet	TAPERLOC CEMENTLESS STEM	36	<1%	No
Joint Replacement Instrumentation Ltd	FURLONG THREADED CUP	Joint Replacement Instrumentation Ltd	FURLONG HAC	36	<1%	No
Stryker	TRIDENT	Biomet	STANMORE MODULAR	36	<1%	Yes
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	B Braun / Aesculap	BICONCONTACT CEMENTLESS STEM	34	<1%	No
Biomet	EXCEED	Zimmer	CPT	34	<1%	Yes
B Braun / Aesculap	CHIRULEN	B Braun / Aesculap	EXCIA-CEMENTED	33	<1%	No
Finsbury	DELTA MOTION	Finsbury	LPR CEMENTED	33	<1%	No
Zimmer	CLS CEMENTLESS CUP	Zimmer	CLS CEMENTLESS STEM	33	<1%	No
Biomet	MALLORY-HEAD CEMENTLESS CUP	Stryker	EXETER V40	32	<1%	Yes
Wright Medical UK Ltd	PROCOTYL	Wright Medical UK Ltd	PROFEMUR CEMENTED STEM	31	<1%	No
DePuy	CHARNLEY CEMENTED CUP	DePuy	C-STEM CEMENTED STEM	30	<1%	No
Smith & Nephew	EPF-PLUS	Stryker	EXETER V40	30	<1%	Yes
Waldemar Link	SNAP FIT	Waldemar Link	SP II CEMENTED STEM	30	<1%	No
Zimmer	LOW PROFILE MULLER CEMENTLESS	Zimmer	CPT	30	<1%	No
DePuy	ULTIMA CEMENTED CUP	Stryker	EXETER V40	29	<1%	Yes
Joint Replacement Instrumentation Ltd	FURLONG CEMENTED CUP	Stryker	EXETER V40	29	<1%	Yes
Biomet	ARCOM SHP	Biomet	TAPERLOC CEMENTED STEM	28	<1%	No
Smith & Nephew	BHR RESURFACING CUP	Smith & Nephew	ANTHOLOGY	28	<1%	No
Smith & Nephew	EPF-PLUS	Smith & Nephew	SL-PLUS CEMENTED STEM	28	<1%	No
Zimmer	TRILOGY	Biomet	OLYMPIA	28	<1%	Yes
FH Newtech Ortho Ltd	ATLAS IIIP	Corin	MINIHIP	27	<1%	Yes
Mathys Orthopaedics Ltd	SELEXYS PC	Mathys Orthopaedics Ltd	TWINSYS CEMENTLESS STEM	27	<1%	No
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	SL-PLUS CEMENTED STEM	27	<1%	No
Zimmer	ZCA	Stryker	EXETER V40	27	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Finsbury	DELTA MOTION	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	26	<1%	Yes
Stryker	CONTEMPORARY	Stryker	ACCOLADE	25	<1%	No
Zimmer	CONTINUUM	Zimmer	TRABECULAR CEMENTLESS STEM	25	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	M/L TAPER CEMENTLESS	25	<1%	No
Zimmer	CONTINUUM	Stryker	EXETER V40	24	<1%	Yes
Biomet	RECAP RESURFACING CUP	Biomet	STANMORE MODULAR	23	<1%	No
DePuy	ASR RESURFACING CUP	DePuy	CORAIL	23	<1%	No
DePuy	ELITE PLUS OGEE	DePuy	SUMMIT CEMENTLESS STEM	23	<1%	No
Orthodynamics	NOVAE STICK	Stryker	EXETER V40	23	<1%	Yes
Smith & Nephew	OPERA	Smith & Nephew	CPS-PLUS	23	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	ZWEYMULLER	23	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	DePuy	C-STEM CEMENTED STEM	22	<1%	Yes
Zimmer	ZIMMER DELTA	Corin	METAFIX STEM	22	<1%	Yes
FH Newtech Ortho Ltd	ATLAS IIIP	Zimmer	CPT	21	<1%	Yes
Mathys Orthopaedics Ltd	RM CEMENTLESS CUP (MATHYS)	Smith & Nephew	SL-PLUS CEMENTLESS STEM	21	<1%	Yes
Zimmer	TRILOGY	Zimmer	M/L TAPER KINECTIV CEMENTLESS	21	<1%	No
Zimmer	TRILOGY	Zimmer	ZWEYMULLER	21	<1%	No
Corin	CORMET 2000 RESURFACING CUP	Corin	METAFIX STEM	20	<1%	No
DePuy	WROBLEWSKI GOLF BALL	DePuy	CHARNLEY CEMENTED STEM	20	<1%	No
Finsbury	DELTA MOTION	Zimmer	CLS CEMENTLESS STEM	20	<1%	Yes
Smith & Nephew	POLAR CEMENTLESS CUP	Smith & Nephew	SL-PLUS CEMENTLESS STEM	20	<1%	No
Stryker	CONTEMPORARY	Corin	METAFIX STEM	20	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Stryker	CONTEMPORARY	DePuy	C-STEM AMT CEMENTED STEM	20	<1%	Yes
Symbios SA	APRIL	Symbios SA	HARMONY	20	<1%	No
Biomet	EXCEED	Biomet	MICRO TAPERLOC	19	<1%	No
FH Newtech Ortho Ltd	ATLAS IIIP	FH Newtech Ortho Ltd	FH MODULAR	19	<1%	No
Wright Medical UK Ltd	CONSERVE PLUS RESURFACING CUP	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	19	<1%	No
Zimmer	DUROM RESURFACING CUP	Zimmer	CLS CEMENTLESS STEM	19	<1%	No
Biomet	MALLORY-HEAD CEMENTLESS CUP	Biomet	BIMETRIC CEMENTED STEM	18	<1%	No
DePuy	GYROS	DePuy	C-STEM AMT CEMENTED STEM	18	<1%	No
Smith & Nephew	OPERA	DePuy	C-STEM AMT CEMENTED STEM	18	<1%	Yes
DePuy	PINNACLE	Biomet	STANMORE MODULAR	17	<1%	Yes
DePuy	PINNACLE	DePuy	CORAIL REVISION	17	<1%	No
Smith & Nephew	POLAR CEMENTLESS CUP	Smith & Nephew	SYNERGY CEMENTLESS STEM	17	<1%	No
Biomet	APOLLO	Biomet	OLYMPIA	16	<1%	No
Joint Replacement Instrumentation Ltd	TRIBOFIT	Joint Replacement Instrumentation Ltd	FURLONG HAC	16	<1%	No
Lima WG Healthcare	LIMA/WG REVISION CUP	Lima WG Healthcare	LIMA/WG REVISION STEM	16	<1%	No
Smith & Nephew	EPF-PLUS	Smith & Nephew	SYNERGY CEMENTLESS STEM	16	<1%	No
Smith & Nephew	REFLECTION CEMENTED	Stryker	EXETER V40	16	<1%	Yes
Waldemar Link	LINK FLANGE CUP	Stryker	EXETER V40	16	<1%	Yes
Joint Replacement Instrumentation Ltd	JRI CEMENTED CUP	Zimmer	MULLER STR STEM	15	<1%	Yes
Stryker	CONTEMPORARY	Stryker	OMNIFIT CEMENTED STEM	15	<1%	No
Stryker	TRITANIUM	Stryker	ABG II CEMENTLESS STEM	15	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	CLS CEMENTLESS STEM	15	<1%	No

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	TRILOGY	Biomet	STANMORE MODULAR	15	<1%	Yes
Zimmer	TRILOGY IT	Zimmer	VERSYS CEMENTLESS STEM	15	<1%	No
Biomet	ARCOM SHP	Zimmer	CPT	14	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	Zimmer	CPT	14	<1%	Yes
DePuy	PINNACLE	DePuy	CHARNLEY MODULAR	14	<1%	No
Implantcast GmbH	IMPLANTCAST	DePuy	CORAIL	14	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	DePuy	S-ROM CEMENTLESS STEM	14	<1%	Yes
Mathys Orthopaedics Ltd	RM CEMENTLESS CUP (MATHYS)	Mathys Orthopaedics Ltd	TWINSYS CEMENTLESS STEM	14	<1%	No
Smith & Nephew	EPF-PLUS	Smith & Nephew	ANTHOLOGY	14	<1%	No
Stryker	MITCH TRH CUP	Stryker	ACCOLADE	14	<1%	No
Biomet	APOLLO	DePuy	CORAIL	13	<1%	Yes
Biomet	MALLORY-HEAD CEMENTLESS CUP	Biomet	TAPERLOC CEMENTLESS STEM	13	<1%	No
Corin	CENATOR CEMENTED CUP	DePuy	CORAIL	13	<1%	Yes
Corin	TRINITY	Waldemar Link	SP II CEMENTED STEM	13	<1%	Yes
Finsbury	ADEPT RESURFACING CUP	Zimmer	MS-30	13	<1%	Yes
Finsbury	DELTA MOTION	DePuy	S-ROM CEMENTLESS STEM	13	<1%	Yes
Implants International	EDINBURGH CUP	Implants International	EDINBURGH	13	<1%	No
Joint Replacement Instrumentation Ltd	CSF	Waldemar Link	SP II CEMENTED STEM	13	<1%	Yes
Smith & Nephew	EPF-PLUS	Waldemar Link	SP II CEMENTED STEM	13	<1%	Yes
Zimmer	CONTINUUM	Zimmer	VERSYS HERITAGE	13	<1%	No
Zimmer	MMC CUP	Zimmer	CLS CEMENTLESS STEM	13	<1%	No
Biomet	RECAP RESURFACING CUP	Biomet	TAPERLOC CEMENTED STEM	12	<1%	No



Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	ELITE PLUS CEMENTED CUP	Finsbury	FINSBURY TYPE C	12	<1%	Yes
Finsbury	DELTA MOTION	Finsbury	FREEMAN CEMENTLESS	12	<1%	No
Implants International	CCB	Mathys Orthopaedics Ltd	CCA CEMENTED STEM	12	<1%	Yes
Joint Replacement Instrumentation Ltd	MIHR CUP	Joint Replacement Instrumentation Ltd	FURLONG HAC	12	<1%	No
Lima WG Healthcare	DELTA TT	Lima WG Healthcare	LIMA/WG REVISION STEM	12	<1%	No
Smith & Nephew	BHR RESURFACING CUP	Smith & Nephew	CPCS	12	<1%	No
Stryker	DURATION	Stryker	EXETER V40	12	<1%	No
Stryker	TRIDENT	Corin	MINIHIP	12	<1%	Yes
Zimmer	CONTINUUM	Zimmer	ZWEYMULLER	12	<1%	No
Zimmer	FITMORE	Zimmer	MS-30	12	<1%	No
Zimmer	MONOBLOCK TRABECULAR METAL CUP	Corin	MINIHIP	12	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Stryker	EXETER V40	12	<1%	Yes
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	B Braun / Aesculap	EXCIA-CEMENTED	11	<1%	No
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	B Braun / Aesculap	METHA	11	<1%	No
Biomet	REGENEREX CEMENTLESS	Biomet	TAPERLOC CEMENTLESS STEM	11	<1%	No
Corin	TRINITY	Zimmer	M/L TAPER KINECTIV CEMENTLESS	11	<1%	Yes
DePuy	ELITE PLUS OGEE	Biomet	STANMORE MODULAR	11	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	DePuy	CORAIL CEMENTED	11	<1%	Yes
Zimmer	ALLOFIT	Stryker	EXETER V40	11	<1%	Yes
Zimmer	MONOBLOCK TRABECULAR METAL CUP	Corin	TAPERFIT CEMENTED STEM	11	<1%	Yes
Zimmer	TRILOGY	Zimmer	MS-30	11	<1%	No
B Braun / Aesculap	CHIRULEN	B Braun / Aesculap	EXCIA	10	<1%	No
Corin	DC-FIT	Corin	PANATOMIC CEMENTLESS STEM	10	<1%	No
Corin	TRINITY	Zimmer	VERSYS CEMENTLESS STEM	10	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	DURALOC CEMENTLESS CUP	DePuy	S-ROM CEMENTLESS STEM	10	<1%	No
DePuy	ELITE PLUS OGEE	Corin	TAPERFIT CEMENTED STEM	10	<1%	Yes
DePuy	PINNACLE	DePuy	CORAIL CEMENTED	10	<1%	No
DePuy	PINNACLE	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	10	<1%	Yes
DePuy	ULTIMA CEMENTED CUP	DePuy	C-STEM AMT CEMENTED STEM	10	<1%	No
Joint Replacement Instrumentation Ltd	CSF	Stryker	EXETER V40	10	<1%	Yes
Joint Replacement Instrumentation Ltd	FURLONG CEMENTED CUP	Joint Replacement Instrumentation Ltd	FURLONG HAC	10	<1%	No
Orthodynamics	NOVAE SF	Stryker	EXETER V40	10	<1%	Yes
Wright Medical UK Ltd	PROCOTYL	Biomet	OLYMPIA	10	<1%	Yes
Zimmer	MONOBLOCK TRABECULAR METAL CUP	Stryker	EXETER V40	10	<1%	Yes
Zimmer	TRILOGY IT	Zimmer	CLS CEMENTLESS STEM	10	<1%	No
B Braun / Aesculap	CHIRULEN	B Braun / Aesculap	CENTRAMENT	9	<1%	No
Biomet	ARCOM SHP	Biomet	BIMETRIC CEMENTED STEM	9	<1%	No
Biomet	ARCOM SHP	Biomet	TAPERLOC CEMENTLESS STEM	9	<1%	No
Biomet	AVANTAGE	Smith & Nephew	CPCS	9	<1%	Yes
Biomet	UNIVERSAL II	Biomet	BIMETRIC CEMENTLESS STEM	9	<1%	No
DePuy	PINNACLE	DePuy	KAR	9	<1%	No
Finsbury	ADEPT RESURFACING CUP	Joint Replacement Instrumentation Ltd	FURLONG HAC	9	<1%	Yes
Smith & Nephew	BICON-PLUS	Smith & Nephew	SL-PLUS CEMENTED STEM	9	<1%	No
Stryker	SECURE FIT CEMENTLESS CUP	Stryker	EXETER V40	9	<1%	No
Stryker	TRIDENT	Biomet	TAPERLOC CEMENTLESS STEM	9	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Stryker	ACCOLADE	9	<1%	Yes
Zimmer	TRILOGY	Zimmer	ALLOCLASSIC CEMENTLESS STEM	9	<1%	No
Zimmer	ZCA	DePuy	CORAIL	9	<1%	Yes
Corin	TRINITY	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	8	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	Biomet	TAPERLOC CEMENTLESS STEM	8	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	Smith & Nephew	SL-PLUS CEMENTLESS STEM	8	<1%	Yes
DePuy	ELITE PLUS OGEE	DePuy	CHARNLEY MODULAR	8	<1%	No
Finsbury	ADEPT RESURFACING CUP	DePuy	CORAIL	8	<1%	Yes
Finsbury	ADEPT RESURFACING CUP	Finsbury	FINSBURY TYPE C	8	<1%	No
Implants International	RM CEMENTLESS CUP (IMPLANT INTERNATIONAL)	DePuy	CORAIL	8	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	Joint Replacement Instrumentation Ltd	FURLONG CEMENTED STEM	8	<1%	No
Lima WG Healthcare	DELTA TT	Stryker	EXETER V40	8	<1%	Yes
Orthodynamics	NOVAE STICK	Zimmer	CPT	8	<1%	Yes
Stryker	ABG II CEMENTLESS CUP	Stryker	ACCOLADE	8	<1%	No
Stryker	CONTEMPORARY	Smith & Nephew	CPS-PLUS	8	<1%	Yes
Waldemar Link	SNAP FIT	Waldemar Link	SP112	8	<1%	No
Zimmer	DUROM RESURFACING CUP	Zimmer	TRABECULAR CEMENTLESS STEM	8	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	M/L TAPER KINECTIV CEMENTLESS	8	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	TRABECULAR CEMENTLESS STEM	8	<1%	No
Zimmer	TRILOGY	Stryker	ACCOLADE	8	<1%	Yes
Zimmer	TRILOGY IT	Zimmer	M/L TAPER CEMENTLESS	8	<1%	No
Zimmer	ZIMMER DELTA	Corin	MINIHIP	8	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	B Braun / Aesculap	CENTRAMENT	7	<1%	No
Biomet	EXCEED	DePuy	CORAIL	7	<1%	Yes
Implantcast GmbH	ACCIS RESURFACING CUP	DePuy	CORAIL	7	<1%	Yes
Implants International	RM CEMENTLESS CUP (IMPLANT INTERNATIONAL)	Mathys Orthopaedics Ltd	TWINSYS CEMENTLESS STEM	7	<1%	Yes
Lima WG Healthcare	LIMA/WG REVISION CUP	Stryker	EXETER V40	7	<1%	Yes
Mathys Orthopaedics Ltd	RM CEMENTLESS CUP (MATHYS)	Mathys Orthopaedics Ltd	CCA CEMENTED STEM	7	<1%	No
Orthodynamics	NOVAE SF	Zimmer	CPT	7	<1%	Yes
Smith & Nephew	OPERA	Smith & Nephew	SPECTRON	7	<1%	No
Stryker	EXETER DURATION	DePuy	CORAIL	7	<1%	Yes
Stryker	TRIDENT	Stryker	OMNIFIT CEMENTED STEM	7	<1%	No
Stryker	TRIDENT	Zimmer	CPT	7	<1%	Yes
Stryker	TRITANIUM	Stryker	RESTORATION CEMENTED STEM	7	<1%	No
Zimmer	CONTINUUM	Zimmer	CLS CEMENTLESS STEM	7	<1%	No
Zimmer	CONTINUUM	Zimmer	MS-30	7	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	DePuy	S-ROM CEMENTLESS STEM	7	<1%	Yes
Zimmer	TRILOGY	Smith & Nephew	SYNERGY CEMENTLESS STEM	7	<1%	Yes
Zimmer	TRILOGY IT	Zimmer	M/L TAPER KINECTIV CEMENTLESS	7	<1%	No
Zimmer	ZCA	Stryker	OMNIFIT CEMENTED STEM	7	<1%	Yes
Amplitude	SATURNE	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	6	<1%	Yes
Biomet	APOLLO	Biomet	TAPERLOC CEMENTLESS STEM	6	<1%	No
Corin	TRINITY	Zimmer	TRABECULAR CEMENTLESS STEM	6	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	Stryker	ACCOLADE	6	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	GYROS	DePuy	CORAIL	6	<1%	No
Finsbury	DELTA MOTION	DePuy	C-STEM AMT CEMENTED STEM	6	<1%	Yes
Finsbury	DELTA MOTION	DePuy	SUMMIT CEMENTLESS STEM	6	<1%	Yes
Finsbury	SLF CEMENTED CUP (FINSBURY)	Finsbury	FREEMAN CEMENTLESS	6	<1%	No
Smith & Nephew	POLAR CEMENTLESS CUP	Stryker	EXETER V40	6	<1%	Yes
Stryker	CONTEMPORARY	Joint Replacement Instrumentation Ltd	FURLONG HAC	6	<1%	Yes
Stryker	EXETER RIMFIT	DePuy	CORAIL	6	<1%	Yes
Stryker	RESTORATION GAP2	Stryker	EXETER V40	6	<1%	No
Stryker	TRIDENT	Stryker	EXETER	6	<1%	No
Waldemar Link	TOP	Waldemar Link	SP II CEMENTED STEM	6	<1%	No
Zimmer	MONOBLOCK TRABECULAR METAL CUP	DePuy	CORAIL	6	<1%	Yes
Zimmer	TRILOGY	Zimmer	VERSYS HERITAGE	6	<1%	No
Zimmer	ZCA	Biomet	OLYMPIA	6	<1%	Yes
Zimmer	ZCA	Biomet	TAPERLOC CEMENTED STEM	6	<1%	Yes
Zimmer	ZCA	DePuy	C-STEM AMT CEMENTED STEM	6	<1%	Yes
Biomet	EXCEED	Biomet	EXCEPTION	5	<1%	No
Biomet	MALLORY-HEAD CEMENTLESS CUP	Zimmer	CPT	5	<1%	Yes
Corin	CORMET PRIME	Corin	METAFIX STEM	5	<1%	No
Corin	TRINITY	Corin	TAPERFIT CEMENTED STEM	5	<1%	No
DePuy	MARATHON	DePuy	CHARNLEY MODULAR	5	<1%	No
DePuy	PINNACLE	Biomet	OLYMPIA	5	<1%	Yes
DePuy	PINNACLE	Stryker	OMNIFIT CEMENTED STEM	5	<1%	Yes
DePuy	WROBLEWSKI ANGLE BORE SOCKET	DePuy	CHARNLEY CEMENTED STEM	5	<1%	No
DePuy	WROBLEWSKI GOLF BALL	DePuy	CHARNLEY MODULAR	5	<1%	No
Exactech (UK) Ltd	NOVATION	Exactech (UK) Ltd	NOVATION STEM	5	<1%	No
Finsbury	DELTA MOTION	DePuy	DEPUY PROXIMA	5	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Implants International	EDINBURGH CUP	Stryker	EXETER V40	5	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	Zimmer	M/L TAPER CEMENTLESS	5	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	Joint Replacement Instrumentation Ltd	FURLONG LOL	5	<1%	No
Joint Replacement Instrumentation Ltd	JRI CEMENTED CUP	Zimmer	MS-30	5	<1%	Yes
Mathys Orthopaedics Ltd	RM CEMENTLESS CUP (MATHYS)	Joint Replacement Instrumentation Ltd	FURLONG HAC	5	<1%	Yes
Mathys Orthopaedics Ltd	RM CEMENTLESS CUP (MATHYS)	Stryker	EXETER V40	5	<1%	Yes
Smith & Nephew	BHR RESURFACING CUP	DePuy	CORAIL	5	<1%	Yes
Smith & Nephew	BHR RESURFACING CUP	Smith & Nephew	SL-PLUS CEMENTLESS STEM	5	<1%	No
Smith & Nephew	POLAR CEMENTLESS CUP	DePuy	CORAIL	5	<1%	Yes
Smith & Nephew	POLAR CEMENTLESS CUP	Smith & Nephew	CPS-PLUS	5	<1%	No
Smith & Nephew	SP3 HA	Smith & Nephew	SPECTRON	5	<1%	No
Wright Medical UK Ltd	PROCOTYL	Zimmer	CPT	5	<1%	Yes
Zimmer	LOW PROFILE MULLER	Stryker	EXETER V40	5	<1%	Yes
Zimmer	MMC CUP	Zimmer	M/L TAPER CEMENTLESS	5	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Stryker	RESTORATION CEMENTED STEM	5	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	REVITAN CEMENTLESS PROXIMAL STEM	5	<1%	No
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	DePuy	TRILOCK BPS	4	<1%	Yes
Biomet	APOLLO	Biomet	BIMETRIC CEMENTED STEM	4	<1%	No
Biomet	AVANTAGE	Zimmer	M/L TAPER CEMENTLESS	4	<1%	Yes
Biomet	REGENEREX CEMENTLESS	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	4	<1%	Yes
Biomet	REGENEREX CEMENTLESS	Zimmer	CPT	4	<1%	Yes
Biomet	STANMORE-ARCOM	Biomet	BIMETRIC CEMENTLESS STEM	4	<1%	No

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Corin	TRINITY	DePuy	SUMMIT CEMENTLESS STEM	4	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	Smith & Nephew	SL-PLUS CEMENTED STEM	4	<1%	Yes
DePuy	PINNACLE	Biomet	MULLER-BIOMET	4	<1%	Yes
DePuy	PINNACLE	Corin	METAFIX STEM	4	<1%	Yes
DePuy	PINNACLE	Joint Replacement Instrumentation Ltd	FURLONG HAC	4	<1%	Yes
DePuy	PINNACLE	Zimmer	M/L TAPER CEMENTLESS	4	<1%	Yes
FH Newtech Ortho Ltd	ATLAS IIIP	Zimmer	M/L TAPER KINECTIV CEMENTLESS	4	<1%	Yes
Finsbury	ADEPT RESURFACING CUP	Finsbury	LPR CEMENTED	4	<1%	No
Finsbury	DELTA MOTION	DePuy	SILENT	4	<1%	Yes
Finsbury	DELTA MOTION	Finsbury	FTS	4	<1%	No
Finsbury	DELTA MOTION	Smith & Nephew	SL-PLUS CEMENTLESS STEM	4	<1%	Yes
Finsbury	DELTA MOTION	Zimmer	CPT	4	<1%	Yes
Finsbury	DELTA MOTION	Zimmer	M/L TAPER CEMENTLESS	4	<1%	Yes
Joint Replacement Instrumentation Ltd	FURLONG CEMENTED CUP	DePuy	CORAIL	4	<1%	Yes
Mathys Orthopaedics Ltd	RM CEMENTLESS CUP (MATHYS)	DePuy	C-STEM CEMENTED STEM	4	<1%	Yes
Smith & Nephew	OPERA	Smith & Nephew	SL-PLUS CEMENTLESS STEM	4	<1%	No
Smith & Nephew	REFLECTION CEMENTLESS	DePuy	CORAIL	4	<1%	Yes
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	CPCS	4	<1%	No
Smith & Nephew	SP3 HA	Smith & Nephew	ANTHOLOGY	4	<1%	No
Stryker	CONTEMPORARY	Orthodynamics	CANNULOK CEMENTLESS STEM	4	<1%	Yes
Stryker	CONTEMPORARY	Stryker	RESTORATION CEMENTED STEM	4	<1%	No
Stryker	CONTEMPORARY	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	4	<1%	Yes

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Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Stryker	SECURE FIT CEMENTLESS CUP	Zimmer	CPT	4	<1%	Yes
Stryker	TRIDENT	DePuy	S-ROM CEMENTLESS STEM	4	<1%	Yes
Waldemar Link	TOP	Waldemar Link	CFP	4	<1%	No
Zimmer	CONTINUUM	Zimmer	VERSYS CEMENTED STEM	4	<1%	No
Zimmer	LOW PROFILE MULLER	DePuy	C-STEM AMT CEMENTED STEM	4	<1%	Yes
Zimmer	LOW PROFILE MULLER CEMENTLESS	Zimmer	MS-30	4	<1%	No
Zimmer	MONOBLOCK TRABECULAR METAL CUP	Zimmer	CPT	4	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	ALLOCLASSIC CEMENTLESS STEM	4	<1%	No
Zimmer	TRILOGY	Biomet	ASIAN CEMENTLESS STEM	4	<1%	Yes
Zimmer	TRILOGY	Corin	METAFIX STEM	4	<1%	Yes
Zimmer	TRILOGY	DePuy	S-ROM CEMENTLESS STEM	4	<1%	Yes
Zimmer	ZIMMER DELTA	Zimmer	M/L TAPER CEMENTLESS	4	<1%	No
Amplitude	SATURNE	DePuy	CORAIL	3	<1%	Yes
Biomet	ARCOM SHP	Biomet	BIMETRIC CEMENTLESS STEM	3	<1%	No
Biomet	AVANTAGE	Biomet	TAPERLOC CEMENTED STEM	3	<1%	No
Biomet	EXCEED	Biomet	AURA II CEMENTLESS STEM	3	<1%	No
Biomet	EXCEED	Zimmer	M/L TAPER KINECTIV CEMENTLESS	3	<1%	Yes
Biomet	M2A CEMENTLESS CUP	Biomet	TAPERLOC CEMENTLESS STEM	3	<1%	No
Biomet	MALLORY-HEAD CEMENTLESS CUP	DePuy	C-STEM AMT CEMENTED STEM	3	<1%	Yes
Biomet	REGENEREX CEMENTLESS	Stryker	EXETER V40	3	<1%	Yes



Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Biomet	STANMORE-ARCOM	Biomet	TAPERLOC CEMENTLESS STEM	3	<1%	No
Corin	CENATOR CEMENTED CUP	Corin	TAPERFIT CEMENTED STEM	3	<1%	No
Corin	TRINITY	Stryker	ACCOLADE	3	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	Biomet	TAPERLOC CEMENTED STEM	3	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	Joint Replacement Instrumentation Ltd	FURLONG HAC	3	<1%	Yes
DePuy	ELITE PLUS OGEE	Biomet	TAPERLOC CEMENTLESS STEM	3	<1%	Yes
DePuy	ELITE PLUS OGEE	Lima WG Healthcare	H MAX	3	<1%	Yes
DePuy	MARATHON	Waldemar Link	SP II CEMENTED STEM	3	<1%	Yes
DePuy	PINNACLE	DePuy	SOLUTION CEMENTLESS STEM	3	<1%	No
DePuy	PINNACLE	DePuy	SUMMIT CEMENTED STEM	3	<1%	No
DePuy	PINNACLE	Orthodynamics	CANNULOK CEMENTLESS STEM	3	<1%	Yes
DePuy	PINNACLE	Smith & Nephew	CPCS	3	<1%	Yes
DePuy	PINNACLE	Zimmer	CLS CEMENTLESS STEM	3	<1%	Yes
Finsbury	ADEPT RESURFACING CUP	Finsbury	ADEPT CEMENTLESS STEM	3	<1%	No
Finsbury	ADEPT RESURFACING CUP	Zimmer	CPT	3	<1%	Yes
Finsbury	DELTA MOTION	Zimmer	VERSYS CEMENTLESS STEM	3	<1%	Yes
Implantcast GmbH	ACCIS RESURFACING CUP	FH Newtech Ortho Ltd	FH MODULAR	3	<1%	Yes
Lima WG Healthcare	LIMA/WG REVISION CUP	DePuy	S-ROM CEMENTLESS STEM	3	<1%	Yes
Lima WG Healthcare	LIMA/WG REVISION CUP	DePuy	TRILOCK BPS	3	<1%	Yes
Lima WG Healthcare	LIMA/WG REVISION CUP	Finsbury	FINSBURY TYPE C	3	<1%	Yes

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Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Lima WG Healthcare	LIMA/WG REVISION CUP	Zimmer	CPT	3	<1%	Yes
Orthodynamics	NOVAE	Stryker	EXETER V40	3	<1%	Yes
Orthodynamics	NOVAE SF	Stryker	ACCOLADE	3	<1%	Yes
Smith & Nephew	BHR RESURFACING CUP	Joint Replacement Instrumentation Ltd	FURLONG HAC	3	<1%	Yes
Smith & Nephew	BHR RESURFACING CUP	Smith & Nephew	SL-PLUS CEMENTED STEM	3	<1%	No
Smith & Nephew	BHR RESURFACING CUP	Zimmer	M/L TAPER KINECTIV CEMENTLESS	3	<1%	Yes
Smith & Nephew	EPF-PLUS	Corin	CERAFIT CEMENTLESS STEM	3	<1%	Yes
Smith & Nephew	EPF-PLUS	Corin	CTI CEMENTED STEM	3	<1%	Yes
Smith & Nephew	OPERA	Smith & Nephew	CPS	3	<1%	No
Smith & Nephew	POLAR CEMENTLESS CUP	DePuy	C-STEM AMT CEMENTED STEM	3	<1%	Yes
Smith & Nephew	R3	Smith & Nephew	SL-PLUS CEMENTLESS STEM	3	<1%	No
Smith & Nephew	REFLECTION CEMENTED	Smith & Nephew	POLAR CEMENTLESS STEM	3	<1%	No
Smith & Nephew	REFLECTION CEMENTED	Smith & Nephew	SPECTRON	3	<1%	No
Stryker	CONTEMPORARY	Biomet	TAPERLOC CEMENTLESS STEM	3	<1%	Yes
Stryker	CONTEMPORARY	Stryker	EXETER	3	<1%	No
Stryker	EXETER DURATION	Zimmer	CPT	3	<1%	Yes
Stryker	MITCH TRH CUP	Stryker	EXETER V40	3	<1%	No
Stryker	SECURE FIT CEMENTLESS CUP	Biomet	TAPERLOC CEMENTLESS STEM	3	<1%	Yes
Stryker	TRITANIUM	DePuy	CORAIL	3	<1%	Yes
Stryker	TRITANIUM	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	3	<1%	Yes
Waldemar Link	SNAP FIT	Biomet	MULLER-BIOMET	3	<1%	Yes
Waldemar Link	SNAP FIT	Waldemar Link	WAGNER REVISION STEM	3	<1%	No
Waldemar Link	SNAP FIT	Zimmer	MULLER STR STEM	3	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	CONTINUUM	Zimmer	ALLOCLASSIC CEMENTLESS STEM	3	<1%	No
Zimmer	DUROM RESURFACING CUP	Zimmer	VERSYS CEMENTLESS STEM	3	<1%	No
Zimmer	TRILOGY	DePuy	LPS	3	<1%	Yes
Zimmer	ZCA	Joint Replacement Instrumentation Ltd	FURLONG HAC	3	<1%	Yes
Amplitude	SATURNE	DePuy	C-STEM AMT CEMENTED STEM	2	<1%	Yes
Amplitude	SATURNE	DePuy	DEPUY PROXIMA	2	<1%	Yes
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	Joint Replacement Instrumentation Ltd	FURLONG HAC	2	<1%	Yes
Biomet	AVANTAGE	DePuy	CORAIL	2	<1%	Yes
Biomet	AVANTAGE	Stryker	EXETER V40	2	<1%	Yes
Biomet	BIOMET BI-POLAR CEMENTED CUP	Stanmore Implants Worldwide	METS	2	<1%	Yes
Biomet	EXCEED	Biomet	BIMETRIC CEMENTED STEM	2	<1%	No
Biomet	EXCEED	Biomet	SHP	2	<1%	No
Biomet	EXCEED	DePuy	C-STEM AMT CEMENTED STEM	2	<1%	Yes
Biomet	EXCEED	Smith & Nephew	ANTHOLOGY	2	<1%	Yes
Biomet	EXCEED	Waldemar Link	MP NECK CEMENTED STEM	2	<1%	Yes
Biomet	FREEDOM	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	2	<1%	Yes
Biomet	MALLORY-HEAD CEMENTLESS CUP	Biomet	MALLORY-HEAD CEMENTED STEM	2	<1%	No
Biomet	MALLORY-HEAD CEMENTLESS CUP	Biomet	MULLER-BIOMET	2	<1%	No
Biomet	MALLORY-HEAD CEMENTLESS CUP	DePuy	CHARNLEY CEMENTED STEM	2	<1%	Yes
Biomet	MALLORY-HEAD CEMENTLESS CUP	DePuy	CORAIL	2	<1%	Yes
Biomet	MALLORY-HEAD CEMENTLESS CUP	Waldemar Link	SP II CEMENTED STEM	2	<1%	Yes
Biomet	PAR 5 RINOWL CEMENTLESS CUP	Biomet	TAPERLOC CEMENTLESS STEM	2	<1%	No
Biomet	REGENEREX CEMENTLESS	Biomet	CONELOCK	2	<1%	No
Biomet	REGENEREX CEMENTLESS	Biomet	STANMORE MODULAR	2	<1%	No

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Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Biomet	REGENEREX CEMENTLESS	Waldemar Link	MP NECK CEMENTED STEM	2	<1%	Yes
Biomet	UNIVERSAL II	Biomet	BIMETRIC CEMENTED STEM	2	<1%	No
Corin	CENATOR CEMENTED CUP	DePuy	CHARNLEY CEMENTED STEM	2	<1%	Yes
Corin	CENATOR CEMENTED CUP	Orthodynamics	CANNULOK CEMENTLESS STEM	2	<1%	Yes
Corin	CENATOR CEMENTED CUP	Smith & Nephew	ECHELON CEMENTED STEM	2	<1%	Yes
Corin	CORMET 2000 RESURFACING CUP	Corin	MINIHIP	2	<1%	No
Corin	CORMET PRIME	Corin	MINIHIP	2	<1%	No
DePuy	ASR RESURFACING CUP	DePuy	S-ROM CEMENTLESS STEM	2	<1%	No
DePuy	DURALOC CEMENTLESS CUP	Corin	METAFIX STEM	2	<1%	Yes
DePuy	DURALOC CEMENTLESS CUP	Corin	TAPERFIT CEMENTED STEM	2	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	B Braun / Aesculap	EXCIA-CEMENTED	2	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	DePuy	KAR	2	<1%	No
DePuy	ELITE PLUS FLANGED	DePuy	C-STEM AMT CEMENTED STEM	2	<1%	No
DePuy	ELITE PLUS FLANGED	Stryker	EXETER V40	2	<1%	Yes
DePuy	ELITE PLUS OGEE	DePuy	ELITE PLUS CEMENTED STEM	2	<1%	No
DePuy	ELITE PLUS OGEE	DePuy	S-ROM CEMENTLESS STEM	2	<1%	No
DePuy	ELITE PLUS OGEE	Zimmer	REVITAN CEMENTLESS PROXIMAL STEM	2	<1%	Yes
DePuy	MARATHON	DePuy	CHARNLEY CEMENTED STEM	2	<1%	No
DePuy	MARATHON	DePuy	CORAIL CEMENTED	2	<1%	No
DePuy	MARATHON	DePuy	CORAIL REVISION	2	<1%	No
DePuy	MARATHON	DePuy	REEF	2	<1%	No
DePuy	PINNACLE	DePuy	ELITE PLUS CEMENTED STEM	2	<1%	No

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	PINNACLE	Stryker	RESTORATION CEMENTED STEM	2	<1%	Yes
DePuy	PINNACLE	Waldemar Link	MP NECK CEMENTED STEM	2	<1%	Yes
DePuy	PINNACLE	Waldemar Link	SP II CEMENTED STEM	2	<1%	Yes
DePuy	PINNACLE	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	2	<1%	Yes
DePuy	ULTIMA CEMENTED CUP	DePuy	CORAIL	2	<1%	No
FH Newtech Ortho Ltd	ATLAS IIIP	Zimmer	M/L TAPER CEMENTLESS	2	<1%	Yes
Finsbury	ADEPT RESURFACING CUP	Finsbury	FREEMAN CEMENTLESS	2	<1%	No
Finsbury	ADEPT RESURFACING CUP	Finsbury	FTS	2	<1%	No
Finsbury	ADEPT RESURFACING CUP	Smith & Nephew	ECHELON CEMENTLESS STEM	2	<1%	Yes
Finsbury	ADEPT RESURFACING CUP	Smith & Nephew	SYNERGY CEMENTLESS STEM	2	<1%	Yes
Finsbury	DELTA MOTION	Corin	MINIHIP	2	<1%	Yes
Finsbury	DELTA MOTION	Joint Replacement Instrumentation Ltd	FURLONG HAC	2	<1%	Yes
Finsbury	DELTA MOTION	Smith & Nephew	CPCS	2	<1%	Yes
Finsbury	DELTA MOTION	Zimmer	MS-30	2	<1%	Yes
Implantcast GmbH	IMPLANTCAST	Implantcast GmbH	IMPLANTCAST CEMENTLESS STEM	2	<1%	No
Joint Replacement Instrumentation Ltd	CSF	Joint Replacement Instrumentation Ltd	FURLONG CEMENTED STEM	2	<1%	No
Joint Replacement Instrumentation Ltd	CSF PLUS	DePuy	S-ROM CEMENTLESS STEM	2	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	Zimmer	CPT	2	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	Zimmer	MS-30	2	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	Zimmer	MULLER STR STEM	2	<1%	Yes
Joint Replacement Instrumentation Ltd	CUSTOM	Biomet	TAPERLOC CEMENTLESS STEM	2	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Joint Replacement Instrumentation Ltd	JRI CEMENTED CUP	Joint Replacement Instrumentation Ltd	FURLONG HAC	2	<1%	No
Joint Replacement Instrumentation Ltd	MIHR CUP	Biomet	TAPERLOC CEMENTLESS STEM	2	<1%	Yes
Lima WG Healthcare	LIMA/WG REVISION CUP	Zimmer	M/L TAPER CEMENTLESS	2	<1%	Yes
Mathys Orthopaedics Ltd	CCB MATHYS	Lima WG Healthcare	H MAX	2	<1%	Yes
Orthodynamics	NOVAE STICK	DePuy	C-STEM CEMENTED STEM	2	<1%	Yes
Orthodynamics	ORTHODYNAMICS	DePuy	KAR	2	<1%	Yes
Smith & Nephew	EPF-PLUS	Biomet	STANMORE MODULAR	2	<1%	Yes
Smith & Nephew	EPF-PLUS	Smith & Nephew	POLAR CEMENTLESS STEM	2	<1%	No
Smith & Nephew	EPF-PLUS	Waldemar Link	CFP	2	<1%	Yes
Smith & Nephew	OPERA	Biomet	BIMETRIC CEMENTLESS STEM	2	<1%	Yes
Smith & Nephew	OPERA	Smith & Nephew	SL-PLUS CEMENTED STEM	2	<1%	No
Smith & Nephew	R3	Corin	CTI CEMENTED STEM	2	<1%	Yes
Smith & Nephew	R3	Smith & Nephew	SYNERGY CEMENTLESS STEM	2	<1%	No
Smith & Nephew	REFLECTION CEMENTED	DePuy	CORAIL	2	<1%	Yes
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	BIRMINGHAM HEAD RESECTION STEM	2	<1%	No
Smith & Nephew	SP3 HA	Smith & Nephew	POLAR CEMENTLESS STEM	2	<1%	No
Stryker	CONTEMPORARY	Biomet	ASIAN CEMENTLESS STEM	2	<1%	Yes
Stryker	CONTEMPORARY	Corin	TAPERFIT CEMENTED STEM	2	<1%	Yes
Stryker	CONTEMPORARY	DePuy	SUMMIT CEMENTED STEM	2	<1%	Yes
Stryker	CONTEMPORARY	Joint Replacement Instrumentation Ltd	LOL CEMENTED	2	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Stryker	CONTEMPORARY	Mathys Orthopaedics Ltd	CBC	2	<1%	Yes
Stryker	CONTEMPORARY	Smith & Nephew	CPS	2	<1%	Yes
Stryker	CONTEMPORARY	Stryker	ABG II CEMENTLESS STEM	2	<1%	No
Stryker	MITCH TRH CUP	Stryker	ABG II CEMENTLESS STEM	2	<1%	No
Stryker	RESTORATION GAP2	Stryker	ACCOLADE	2	<1%	No
Stryker	SECURE FIT CEMENTLESS CUP	Stryker	OMNIFIT CEMENTLESS STEM	2	<1%	No
Stryker	TRIDENT	DePuy	CORAIL REVISION	2	<1%	Yes
Stryker	TRIDENT	DePuy	C-STEM CEMENTED STEM	2	<1%	Yes
Stryker	TRIDENT	DePuy	KAR	2	<1%	Yes
Stryker	TRIDENT	DePuy	REEF	2	<1%	Yes
Stryker	TRIDENT	Implantcast GmbH	IMPLANTCAST CEMENTED	2	<1%	Yes
Stryker	TRIDENT	Joint Replacement Instrumentation Ltd	FURLONG HAC	2	<1%	Yes
Symbios SA	APRIL	Symbios SA	ARCAD CEMENTLESS	2	<1%	No
Symbios SA	SYMBIOS	Symbios SA	SPS	2	<1%	No
Van Straten Medical	ACCIS RESURFACING CUP	DePuy	CORAIL	2	<1%	Yes
Wright Medical UK Ltd	PROCOTYL	Corin	TAPERFIT CEMENTED STEM	2	<1%	Yes
Zimmer	ALLOFIT	Stryker	OMNIFIT CEMENTED STEM	2	<1%	Yes
Zimmer	CONTINUUM	Joint Replacement Instrumentation Ltd	FURLONG HAC	2	<1%	Yes
Zimmer	CONTINUUM	Zimmer	FITMORE STEM	2	<1%	No
Zimmer	CONTINUUM	Zimmer	REVITAN CEMENTLESS PROXIMAL STEM	2	<1%	No
Zimmer	MMC CUP	Zimmer	SYNERGY CEMENTLESS STEM	2	<1%	No
Zimmer	MMC CUP	Zimmer	VERSYS CEMENTLESS STEM	2	<1%	No
Zimmer	MMC RESURFACING	Zimmer	CLS CEMENTLESS STEM	2	<1%	No

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	MONOBLOCK TRABECULAR METAL CUP	DePuy	C-STEM CEMENTED STEM	2	<1%	Yes
Zimmer	MONOBLOCK TRABECULAR METAL CUP CEMENTLESS	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	2	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Smith & Nephew	SYNERGY CEMENTLESS STEM	2	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	MS-30	2	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	VERSYS CEMENTLESS STEM	2	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	2	<1%	No
Zimmer	TRABECULAR METAL REVISION SHELL	Zimmer	CPT	2	<1%	No
Zimmer	TRILOGY	Biomet	TAPERLOC CEMENTLESS STEM	2	<1%	Yes
Zimmer	TRILOGY	DePuy	S-ROM CEMENTLESS STEM	2	<1%	Yes
Zimmer	TRILOGY	DePuy	TRILOCK BPS	2	<1%	Yes
Zimmer	TRILOGY	Smith & Nephew	SPECTRON	2	<1%	Yes
Zimmer	TRILOGY	Stryker	EXETER	2	<1%	Yes
Zimmer	TRILOGY	Stryker	OMNIFIT CEMENTED STEM	2	<1%	Yes
Zimmer	TRILOGY	Stryker	RESTORATION CEMENTED STEM	2	<1%	Yes
Zimmer	ZCA	Stryker	ACCOLADE	2	<1%	Yes
Zimmer	ZCA	Stryker	RESTORATION CEMENTED STEM	2	<1%	Yes
Zimmer	ZCA	Zimmer	CLS CEMENTLESS STEM	2	<1%	No
Zimmer	ZCA	Zimmer	M/L TAPER CEMENTLESS	2	<1%	No
Amplitude	HORIZON	Corin	MINIHIP	1	<1%	Yes
Amplitude	SATURNE	Stryker	ACCOLADE	1	<1%	Yes
B Braun / Aesculap	ALFA CEMENTED CUP	Smith & Nephew	CPCS	1	<1%	Yes
B Braun / Aesculap	ALFA CEMENTED CUP	Smith & Nephew	SL-PLUS CEMENTLESS STEM	1	<1%	Yes



Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
B Braun / Aesculap	CHIRULEN	B Braun / Aesculap	PREVISION CEMENTED STEM	1	<1%	No
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	B Braun / Aesculap	BICONTACT CEMENTED STEM	1	<1%	No
Biomet	APOLLO	Corin	C FIT	1	<1%	Yes
Biomet	ARCOM SHP	Stryker	OMNIFIT CEMENTED STEM	1	<1%	Yes
Biomet	ARCOM SHP	Zimmer	M/L TAPER CEMENTLESS	1	<1%	Yes
Biomet	AVANTAGE	Stryker	ACCOLADE	1	<1%	Yes
Biomet	BIHAPRO	Biomet	TAPERLOC CEMENTLESS STEM	1	<1%	No
Biomet	BIOMET BI-POLAR CEMENTED CUP	Stryker	EXETER V40	1	<1%	Yes
Biomet	BIOMET BI-POLAR CEMENTED CUP	Waldemar Link	MP NECK CEMENTED STEM	1	<1%	Yes
Biomet	EXCEED	Biomet	CONELOCK	1	<1%	No
Biomet	EXCEED	Biomet	MULLER-BIOMET	1	<1%	No
Biomet	EXCEED	Biomet	OLYMPIA	1	<1%	No
Biomet	EXCEED	Corin	MINIHIP	1	<1%	Yes
Biomet	EXCEED	Corin	OXFORD UNIVERSAL HIP (CORIN) CEMENTED STEM	1	<1%	Yes
Biomet	EXCEED	DePuy	C-STEM CEMENTED STEM	1	<1%	Yes
Biomet	EXCEED	DePuy	SOLUTION CEMENTLESS STEM	1	<1%	Yes
Biomet	EXCEED	Stryker	ACCOLADE	1	<1%	Yes
Biomet	EXCEED	Zimmer	M/L TAPER CEMENTLESS	1	<1%	Yes
Biomet	FREEDOM	Zimmer	CPT	1	<1%	Yes
Biomet	M2A CEMENTLESS CUP	Biomet	STANMORE MODULAR	1	<1%	No
Biomet	M2A CEMENTLESS CUP	Corin	MINIHIP	1	<1%	Yes
Biomet	M2A CEMENTLESS CUP	DePuy	PRODIGY	1	<1%	Yes
Biomet	MALLORY-HEAD CEMENTLESS CUP	Biomet	TAPERLOC CEMENTED STEM	1	<1%	No
Biomet	MALLORY-HEAD CEMENTLESS CUP	Corin	C FIT	1	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Biomet	MALLORY-HEAD CEMENTLESS CUP	Corin	OXFORD UNIVERSAL HIP (CORIN) CEMENTED STEM	1	<1%	Yes
Biomet	MALLORY-HEAD CEMENTLESS CUP	Zimmer	M/L TAPER CEMENTLESS	1	<1%	Yes
Biomet	RECAP RESURFACING CUP	Biomet	CONELOCK	1	<1%	No
Biomet	RECAP RESURFACING CUP	Stanmore Implants Worldwide	METS	1	<1%	Yes
Biomet	REGENEREX CEMENTLESS	Biomet	BIMETRIC CEMENTLESS STEM	1	<1%	No
Biomet	REGENEREX CEMENTLESS	Smith & Nephew	CPCS	1	<1%	Yes
Biomet	STANMORE-ARCOM	Biomet	CONELOCK	1	<1%	No
Biomet	STANMORE-ARCOM	DePuy	C-STEM CEMENTED STEM	1	<1%	Yes
Corin	CENATOR CEMENTED CUP	Joint Replacement Instrumentation Ltd	FURLONG CEMENTED STEM	1	<1%	Yes
Corin	CORMET 2000 RESURFACING CUP	DePuy	CORAIL	1	<1%	Yes
Corin	CORMET 2000 RESURFACING CUP	Smith & Nephew	SL-PLUS CEMENTED STEM	1	<1%	Yes
Corin	CORMET 2000 RESURFACING CUP	Smith & Nephew	SL-PLUS CEMENTLESS STEM	1	<1%	Yes
Corin	TRINITY	Zimmer	CPT	1	<1%	Yes
DePuy	ASR 300	DePuy	CORAIL	1	<1%	No
DePuy	ASR RESURFACING CUP	DePuy	DEPUY PROXIMA	1	<1%	No
DePuy	ASR RESURFACING CUP	Joint Replacement Instrumentation Ltd	FURLONG HAC	1	<1%	Yes
DePuy	CHARNLEY CEMENTED CUP	DePuy	CORAIL	1	<1%	No
DePuy	CHARNLEY CEMENTED CUP	DePuy	S-ROM CEMENTLESS STEM	1	<1%	No
DePuy	CHARNLEY CEMENTED CUP	Zimmer	CPT	1	<1%	Yes
DePuy	CHARNLEY KS	Stryker	EXETER V40	1	<1%	Yes
DePuy	DURALOC CEMENTLESS CUP	DePuy	SUMMIT CEMENTLESS STEM	1	<1%	No

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	DURALOC CEMENTLESS CUP	Joint Replacement Instrumentation Ltd	FURLONG HAC	1	<1%	Yes
DePuy	DURALOC OPTION	Stryker	EXETER V40	1	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	DePuy	CORAIL REVISION	1	<1%	No
DePuy	ELITE PLUS CEMENTED CUP	DePuy	SOLUTION CEMENTLESS STEM	1	<1%	No
DePuy	ELITE PLUS CEMENTED CUP	Smith & Nephew	SYNERGY CEMENTLESS STEM	1	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	Waldemar Link	MP NECK CEMENTED STEM	1	<1%	Yes
DePuy	ELITE PLUS OGEE	Biomet	BIMETRIC CEMENTLESS STEM	1	<1%	Yes
DePuy	ELITE PLUS OGEE	Biomet	OLYMPIA	1	<1%	Yes
DePuy	ELITE PLUS OGEE	Corin	MINIHIP	1	<1%	Yes
DePuy	ELITE PLUS OGEE	DePuy	KAR	1	<1%	No
DePuy	ELITE PLUS OGEE	Joint Replacement Instrumentation Ltd	LOL CEMENTED	1	<1%	Yes
DePuy	ELITE PLUS OGEE	Smith & Nephew	CPS-PLUS	1	<1%	Yes
DePuy	ELITE PLUS OGEE	Smith & Nephew	SL-PLUS CEMENTLESS STEM	1	<1%	Yes
DePuy	ELITE PLUS OGEE	Smith & Nephew	SYNERGY CEMENTLESS STEM	1	<1%	Yes
DePuy	ELITE PLUS OGEE	Stryker	RESTORATION CEMENTLESS STEM	1	<1%	Yes
DePuy	ELITE PLUS OGEE	Waldemar Link	SP II CEMENTED STEM	1	<1%	Yes
DePuy	ELITE PLUS OGEE	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	1	<1%	Yes
DePuy	ELITE PLUS OGEE	Zimmer	CLS CEMENTLESS STEM	1	<1%	Yes
DePuy	GYROS	DePuy	C-STEM CEMENTED STEM	1	<1%	No
DePuy	GYROS	DePuy	TRILOCK BPS	1	<1%	No
DePuy	HYLAMER OGEE	DePuy	CHARNLEY CEMENTED STEM	1	<1%	No
DePuy	MARATHON	Corin	C FIT	1	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	MARATHON	Corin	METAFIX STEM	1	<1%	Yes
DePuy	MARATHON	DePuy	SILENT	1	<1%	No
DePuy	MARATHON	DePuy	WROBLEWSKI RESECTION	1	<1%	No
DePuy	MARATHON	Joint Replacement Instrumentation Ltd	FURLONG HAC	1	<1%	Yes
DePuy	MARATHON	Orthodynamics	CANNULOK CEMENTED STEM	1	<1%	Yes
DePuy	MARATHON	Smith & Nephew	ECHELON CEMENTED STEM	1	<1%	Yes
DePuy	MARATHON	Stryker	RESTORATION CEMENTED STEM	1	<1%	Yes
DePuy	MARATHON	Zimmer	CPT	1	<1%	Yes
DePuy	PINNACLE	B Braun / Aesculap	CENTRAMENT	1	<1%	Yes
DePuy	PINNACLE	Biomet	CMK CEMENTED STEM	1	<1%	Yes
DePuy	PINNACLE	Biomet	MALLORY-HEAD CEMENTED STEM	1	<1%	Yes
DePuy	PINNACLE	Biomet	MICRO TAPERLOC	1	<1%	Yes
DePuy	PINNACLE	Corin	MINIHIP	1	<1%	Yes
DePuy	PINNACLE	DePuy	LPS	1	<1%	No
DePuy	PINNACLE	DePuy	REEF	1	<1%	No
DePuy	PINNACLE	Finsbury	FINSBURY TYPE C	1	<1%	Yes
DePuy	PINNACLE	Joint Replacement Instrumentation Ltd	FURLONG CEMENTED STEM	1	<1%	Yes
DePuy	PINNACLE	Lima WG Healthcare	LIMA/WG REVISION STEM	1	<1%	Yes
DePuy	PINNACLE	Medacta UK Ltd	QUADRA CEMENTLESS	1	<1%	Yes
DePuy	PINNACLE	Smith & Nephew	SL-PLUS CEMENTLESS STEM	1	<1%	Yes
DePuy	PINNACLE	Smith & Nephew	SYNERGY CEMENTLESS STEM	1	<1%	Yes
DePuy	PINNACLE	Stryker	ACCOLADE	1	<1%	Yes
DePuy	PINNACLE	Symbios SA	HARMONY	1	<1%	Yes
DePuy	PINNACLE	Zimmer	MS-30	1	<1%	Yes
DePuy	PINNACLE	Zimmer	VERSYS CEMENTLESS STEM	1	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	SOLUTION CEMENTED CUP	Symbios SA	SPS	1	<1%	Yes
DePuy	ULTIMA CEMENTED CUP	DePuy	SUMMIT CEMENTED STEM	1	<1%	No
DePuy	WROBLEWSKI GOLF BALL	Stryker	EXETER V40	1	<1%	Yes
ESKA/TriMed	TRICON CEMENTLESS CUP	Medacta UK Ltd	AMIS	1	<1%	Yes
Exactech (UK) Ltd	ACUMATCH CUP	Biomet	BIMETRIC CEMENTLESS STEM	1	<1%	Yes
Exactech (UK) Ltd	ACUMATCH CUP	Corin	OXFORD UNIVERSAL HIP (CORIN) CEMENTED STEM	1	<1%	Yes
FH Newtech Ortho Ltd	ATLAS IIIP	DePuy	CORAIL	1	<1%	Yes
Finsbury	ADEPT RESURFACING CUP	Mathys Orthopaedics Ltd	TWINSYS CEMENTLESS STEM	1	<1%	Yes
Finsbury	ADEPT RESURFACING CUP	Zimmer	M/L TAPER CEMENTLESS	1	<1%	Yes
Finsbury	DELTA MOTION	Stryker	ACCOLADE	1	<1%	Yes
Finsbury	DELTA MOTION	Stryker	EXETER V40	1	<1%	Yes
Finsbury	SLF CEMENTED CUP (FINSBURY)	Finsbury	LPR CEMENTED	1	<1%	No
Implantcast GmbH	ACCIS RESURFACING CUP	Implantcast GmbH - Crystal Clear	IMPLANTCAST CEMENTED	1	<1%	Yes
Implantcast GmbH	IMPLANTCAST	Corin	MINIHIP	1	<1%	Yes
Implantcast GmbH	IMPLANTCAST	Implantcast GmbH	IMPLANTCAST CEMENTED	1	<1%	No
Implantcast GmbH	IMPLANTCAST	Zimmer	CPT	1	<1%	Yes
Implants International	CCB	DePuy	CORAIL	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	Biomet	STANMORE MODULAR	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	Jointmedica Limited	LOL CEMENTED	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	Zimmer	CPT	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	Biomet	MULLER-BIOMET	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	Biomet	TAPERLOC CEMENTLESS STEM	1	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Joint Replacement Instrumentation Ltd	CSF PLUS	DePuy	CORAIL CEMENTED	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	DePuy	TRILOCK BPS	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	Joint Replacement Instrumentation Ltd	LOL CEMENTED	1	<1%	No
Joint Replacement Instrumentation Ltd	CSF PLUS	Joint Replacement Instrumentation Ltd	SECURUS	1	<1%	No
Joint Replacement Instrumentation Ltd	CSF PLUS	Smith & Nephew	ECHELON CEMENTED STEM	1	<1%	Yes
Joint Replacement Instrumentation Ltd	JRI CEMENTED CUP	DePuy	CORAIL CEMENTED	1	<1%	Yes
Joint Replacement Instrumentation Ltd	JRI CEMENTED CUP	Joint Replacement Instrumentation Ltd	FURLONG CEMENTED STEM	1	<1%	No
Joint Replacement Instrumentation Ltd	MIHR CUP	Mathys Orthopaedics Ltd	CCA CEMENTED STEM	1	<1%	Yes
Lima WG Healthcare	DELTA TT	Finsbury	FINSBURY TYPE C	1	<1%	Yes
Lima WG Healthcare	DELTA TT	Lima WG Healthcare	LIMA SL	1	<1%	No
Lima WG Healthcare	LIMA DELTA REVISION	DePuy	CORAIL	1	<1%	Yes
Lima WG Healthcare	LIMA DELTA REVISION	Lima WG Healthcare	LIMA SL	1	<1%	No
Lima WG Healthcare	LIMA DELTA REVISION	Stryker	EXETER V40	1	<1%	Yes
Mathys Orthopaedics Ltd	CCB MATHYS	Mathys Orthopaedics Ltd	CBC	1	<1%	No
Mathys Orthopaedics Ltd	CCB MATHYS	Smith & Nephew	SLR-PLUS CEMENTED STEM	1	<1%	Yes
Mathys Orthopaedics Ltd	CCB MATHYS	Stryker	EXETER V40	1	<1%	Yes
Mathys Orthopaedics Ltd	RM CEMENTLESS CUP (MATHYS)	Smith & Nephew	SLR-PLUS CEMENTED STEM	1	<1%	Yes
Medacta UK Ltd	VERSAFIT	ESKA/TriMed	QUADRA CEMENTLESS	1	<1%	Yes
Orthodynamics	NOVAE SF	Joint Replacement Instrumentation Ltd	FURLONG HAC	1	<1%	Yes
Orthodynamics	NOVAE SF	Zimmer	M/L TAPER CEMENTLESS	1	<1%	Yes
Orthodynamics	NOVAE STICK	Biomet	TAPERLOC CEMENTLESS STEM	1	<1%	Yes
Orthodynamics	NOVAE STICK	Joint Replacement Instrumentation Ltd	FURLONG HAC	1	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Orthodynamics	NOVAE STICK	Stryker	RESTORATION CEMENTED STEM	1	<1%	Yes
Orthodynamics	ORTHODYNAMICS	DePuy	CORAIL	1	<1%	Yes
Orthodynamics	SUNFIT	Stryker	EXETER V40	1	<1%	Yes
Smith & Nephew	BHR RESURFACING CUP	Corin	MINIHIP	1	<1%	Yes
Smith & Nephew	BHR RESURFACING CUP	Zimmer	CPT	1	<1%	Yes
Smith & Nephew	BICON-PLUS	Mathys Orthopaedics Ltd	CCA CEMENTED STEM	1	<1%	Yes
Smith & Nephew	BICON-PLUS	Mathys Orthopaedics Ltd	MATHYS REVISION STEM	1	<1%	Yes
Smith & Nephew	BICON-PLUS	Smith & Nephew	SLR-PLUS CEMENTED STEM	1	<1%	No
Smith & Nephew	EPF-PLUS	Biomet	BIMETRIC CEMENTLESS STEM	1	<1%	Yes
Smith & Nephew	EPF-PLUS	DePuy	C-STEM CEMENTED STEM	1	<1%	Yes
Smith & Nephew	OPERA	Corin	MINIHIP	1	<1%	Yes
Smith & Nephew	OPERA	Corin	TAPERFIT CEMENTED STEM	1	<1%	Yes
Smith & Nephew	OPERA	DePuy	REEF	1	<1%	Yes
Smith & Nephew	OPERA	Smith & Nephew	POLAR CEMENTLESS STEM	1	<1%	No
Smith & Nephew	OPERA	Stryker	EXETER	1	<1%	Yes
Smith & Nephew	OPERA	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	1	<1%	Yes
Smith & Nephew	OPERA	Zimmer	ALLOCLASSIC CEMENTLESS STEM	1	<1%	Yes
Smith & Nephew	POLAR CEMENTLESS CUP	DePuy	S-ROM CEMENTLESS STEM	1	<1%	Yes
Smith & Nephew	POLAR CEMENTLESS CUP	Smith & Nephew	CPS	1	<1%	No
Smith & Nephew	POLAR CEMENTLESS CUP	Smith & Nephew	POLAR CEMENTLESS STEM	1	<1%	No
Smith & Nephew	R3	Smith & Nephew	POLAR CEMENTLESS STEM	1	<1%	No
Smith & Nephew	R3	Smith & Nephew	SPECTRON	1	<1%	No
Smith & Nephew	REFLECTION CEMENTED	Corin	TAPERFIT CEMENTED STEM	1	<1%	Yes
Smith & Nephew	REFLECTION CEMENTED	Smith & Nephew	CPS	1	<1%	No
Smith & Nephew	REFLECTION CEMENTED	Smith & Nephew	SL-PLUS CEMENTED STEM	1	<1%	No

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Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Smith & Nephew	REFLECTION CEMENTED	Smith & Nephew	SL-PLUS CEMENTLESS STEM	1	<1%	No
Smith & Nephew	REFLECTION CEMENTED	Smith & Nephew	SYNERGY CEMENTLESS STEM	1	<1%	No
Smith & Nephew	REFLECTION CEMENTED	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	1	<1%	Yes
Smith & Nephew	REFLECTION CEMENTLESS	B Braun / Aesculap	EXCIA	1	<1%	Yes
Smith & Nephew	REFLECTION CEMENTLESS	DePuy	S-ROM CEMENTLESS STEM	1	<1%	Yes
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	ECHELON CEMENTLESS STEM	1	<1%	No
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	TAPERFIT S&N	1	<1%	No
Smith & Nephew	REFLECTION CEMENTLESS	Stryker	EXETER	1	<1%	Yes
Smith & Nephew	REFLECTION CEMENTLESS	Stryker	RESTORATION CEMENTED STEM	1	<1%	Yes
Smith & Nephew	SP3 HA	DePuy	CORAIL	1	<1%	Yes
Smith & Nephew	SP3 HA	Exactech (UK) Ltd	ACUMATCH M-SERIES	1	<1%	Yes
Stryker	ABG II CEMENTLESS CUP	Stryker	EXETER	1	<1%	No
Stryker	CONTEMPORARY	Biomet	BIMETRIC CEMENTLESS STEM	1	<1%	Yes
Stryker	CONTEMPORARY	Biomet	SHP	1	<1%	Yes
Stryker	CONTEMPORARY	Corin	CTI CEMENTED STEM	1	<1%	Yes
Stryker	CONTEMPORARY	DePuy	AML	1	<1%	Yes
Stryker	CONTEMPORARY	DePuy	CORAIL REVISION	1	<1%	Yes
Stryker	CONTEMPORARY	DePuy	C-STEM CEMENTED STEM	1	<1%	Yes
Stryker	CONTEMPORARY	DePuy	ELITE PLUS CEMENTED STEM	1	<1%	Yes
Stryker	CONTEMPORARY	DePuy	KAR	1	<1%	Yes
Stryker	CONTEMPORARY	Zimmer	M/L TAPER CEMENTLESS	1	<1%	Yes
Stryker	CONTEMPORARY	Zimmer	REVITAN CEMENTLESS PROXIMAL STEM	1	<1%	Yes
Stryker	EXETER DURATION	Biomet	ASIAN CEMENTLESS STEM	1	<1%	Yes



Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Stryker	EXETER DURATION	Biomet	BIMETRIC CEMENTLESS STEM	1	<1%	Yes
Stryker	EXETER DURATION	Joint Replacement Instrumentation Ltd	FURLONG HAC	1	<1%	Yes
Stryker	GAP RING	DePuy	C-STEM AMT CEMENTED STEM	1	<1%	Yes
Stryker	RESTORATION GAP2	Joint Replacement Instrumentation Ltd	FURLONG HAC	1	<1%	Yes
Stryker	SECURE FIT CEMENTLESS CUP	Biomet	MALLORY-HEAD CEMENTED STEM	1	<1%	Yes
Stryker	SECURE FIT CEMENTLESS CUP	DePuy	CHARNLEY CEMENTED STEM	1	<1%	Yes
Stryker	SECURE FIT CEMENTLESS CUP	DePuy	C-STEM AMT CEMENTED STEM	1	<1%	Yes
Stryker	SECURE FIT CEMENTLESS CUP	DePuy	TRILOCK BPS	1	<1%	Yes
Stryker	TRIDENT	Biomet	MALLORY-HEAD CEMENTED STEM	1	<1%	Yes
Stryker	TRIDENT	Corin	PANATOMIC CEMENTLESS STEM	1	<1%	Yes
Stryker	TRIDENT	Finsbury	FINSBURY TYPE C	1	<1%	Yes
Stryker	TRIDENT	Implantcast GmbH	IMPLANTCAST CEMENTED STEM	1	<1%	Yes
Stryker	TRIDENT	Joint Replacement Instrumentation Ltd	LOL CEMENTED	1	<1%	Yes
Stryker	TRIDENT	Orthodynamics	CANNULOK CEMENTLESS STEM	1	<1%	Yes
Stryker	TRIDENT	Smith & Nephew	SYNERGY CEMENTLESS STEM	1	<1%	Yes
Stryker	TRIDENT	Stryker	GMRS	1	<1%	No
Stryker	TRIDENT	Zimmer	CLS CEMENTLESS STEM	1	<1%	Yes
Stryker	TRITANIUM	DePuy	CORAIL REVISION	1	<1%	Yes
Stryker	TRITANIUM	DePuy	C-STEM AMT CEMENTED STEM	1	<1%	Yes
Stryker	TRITANIUM	DePuy	SOLUTION CEMENTLESS STEM	1	<1%	Yes
Stryker	TRITANIUM	Joint Replacement Instrumentation Ltd	FURLONG CEMENTED STEM	1	<1%	Yes
Stryker	TRITANIUM	Stryker	RESTORATION CEMENTLESS STEM	1	<1%	No
Stryker	TRITANIUM	Zimmer	CPT	1	<1%	Yes
Surgicraft	SPLIT CUP	Stryker	EXETER V40	1	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Surgicraft	SPLIT CUP	Zimmer	CPT	1	<1%	Yes
Waldemar Link	INTERPLANTA	Waldemar Link	CFP	1	<1%	No
Waldemar Link	INTERPLANTA	Waldemar Link	SP112	1	<1%	No
Waldemar Link	INTERPLANTA	Waldemar Link	WAGNER REVISION STEM	1	<1%	No
Waldemar Link	INTERPLANTA	Zimmer	CPT	1	<1%	Yes
Waldemar Link	LINK FLANGE CUP	Waldemar Link	SP112	1	<1%	No
Waldemar Link	PROCOTYL	Waldemar Link	SP II CEMENTED STEM	1	<1%	No
Waldemar Link	TOP	Waldemar Link	SP112	1	<1%	No
Wright Medical UK Ltd	CUSTOM	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	1	<1%	No
Wright Medical UK Ltd	PROCOTYL	Corin	METAFIX STEM	1	<1%	Yes
Wright Medical UK Ltd	PROCOTYL	DePuy	KAR	1	<1%	Yes
Wright Medical UK Ltd	PROCOTYL	Wright Medical UK Ltd	GLADIATOR CEMENTLESS	1	<1%	No
Wright Medical UK Ltd	PROCOTYL	Zimmer	VERSYS CEMENTED STEM	1	<1%	Yes
Zimmer	ALLOFIT	DePuy	CORAIL REVISION	1	<1%	Yes
Zimmer	ALLOFIT	Joint Replacement Instrumentation Ltd	FURLONG HAC	1	<1%	Yes
Zimmer	ALLOFIT	Smith & Nephew	ANTHOLOGY	1	<1%	Yes
Zimmer	ALLOFIT	Zimmer	SYNERGY CEMENTLESS STEM	1	<1%	No
Zimmer	ALLOFIT	Zimmer	VERSYS CEMENTLESS STEM	1	<1%	No
Zimmer	CONTINUUM	Corin	MINIHIP	1	<1%	Yes
Zimmer	CONTINUUM	DePuy	S-ROM CEMENTLESS STEM	1	<1%	Yes
Zimmer	CONTINUUM	Lima WG Healthcare	H MAX	1	<1%	Yes
Zimmer	CONTINUUM	Waldemar Link	CFP	1	<1%	Yes
Zimmer	CONTINUUM	Waldemar Link	SP II CEMENTED STEM	1	<1%	Yes
Zimmer	CONTINUUM	Zimmer	MAYO CEMENTED STEM	1	<1%	No
Zimmer	CONTINUUM	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	1	<1%	No
Zimmer	LOW PROFILE MULLER	DePuy	CORAIL	1	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	LOW PROFILE MULLER	Finsbury	FREEMAN CEMENTLESS	1	<1%	Yes
Zimmer	LOW PROFILE MULLER	Smith & Nephew	SYNERGY CEMENTLESS STEM	1	<1%	Yes
Zimmer	LOW PROFILE MULLER	Zimmer	CLS CEMENTLESS STEM	1	<1%	No
Zimmer	LOW PROFILE MULLER	Zimmer	REVITAN CEMENTLESS PROXIMAL STEM	1	<1%	No
Zimmer	LOW PROFILE MULLER	Zimmer	ZWEYMULLER	1	<1%	No
Zimmer	METASUL-MULLER	Zimmer	MULLER STR STEM	1	<1%	No
Zimmer	METASUL-MULLER	Zimmer	P10 MULLER	1	<1%	No
Zimmer	MMC CUP	Zimmer	CPT	1	<1%	No
Zimmer	MMC RESURFACING	Zimmer	M/L TAPER CEMENTLESS	1	<1%	No
Zimmer	MONOBLOCK TRABECULAR METAL CUP	FH Newtech Ortho Ltd	FH MODULAR	1	<1%	Yes
Zimmer	MONOBLOCK TRABECULAR METAL CUP	Mathys Orthopaedics Ltd	CCA CEMENTED STEM	1	<1%	Yes
Zimmer	MONOBLOCK TRABECULAR METAL CUP	Zimmer	MULLER STR STEM	1	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	DePuy	S-ROM CEMENTLESS STEM	1	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	FH Newtech Ortho Ltd	FH MODULAR	1	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Joint Replacement Instrumentation Ltd	FURLONG HAC	1	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Lima WG Healthcare	H MAX	1	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Lima WG Healthcare	LIMA/WG REVISION STEM	1	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Orthodynamics	CANNULOK CEMENTLESS STEM	1	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Smith & Nephew	SPECTRON	1	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Stryker	ABG II CEMENTLESS STEM	1	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Stryker	OMNIFIT CEMENTED STEM	1	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	1	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	DePuy	CORAIL	1	<1%	Yes

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Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	TRABECULAR METAL REVISION SHELL	DePuy	C-STEM AMT CEMENTED STEM	1	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Finsbury	LPR CEMENTED	1	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Orthodynamics	CANNULOK CEMENTLESS STEM	1	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Stryker	RESTORATION CEMENTED STEM	1	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Zimmer	M/L TAPER CEMENTLESS	1	<1%	No
Zimmer	TRABECULAR METAL REVISION SHELL	Zimmer	MS-30	1	<1%	No
Zimmer	TRILOGY	DePuy	CORAIL REVISION	1	<1%	Yes
Zimmer	TRILOGY	DePuy	KAR	1	<1%	Yes
Zimmer	TRILOGY	DePuy	SUMMIT CEMENTLESS STEM	1	<1%	Yes
Zimmer	TRILOGY	Stryker	ABG II CEMENTLESS STEM	1	<1%	Yes
Zimmer	TRILOGY	Waldemar Link	SP II CEMENTED STEM	1	<1%	Yes
Zimmer	TRILOGY	Wright Medical UK Ltd	PROFEMUR CEMENTED STEM	1	<1%	Yes
Zimmer	TRILOGY	Zimmer	REVITAN CEMENTLESS PROXIMAL STEM	1	<1%	No
Zimmer	TRILOGY	Zimmer	VERSYS CEMENTED STEM	1	<1%	No
Zimmer	ZCA	Biomet	TAPERLOC CEMENTLESS STEM	1	<1%	Yes
Zimmer	ZCA	DePuy	CORAIL REVISION	1	<1%	Yes
Zimmer	ZCA	Orthodynamics	CANNULOK CEMENTLESS STEM	1	<1%	Yes
Zimmer	ZCA	Stryker	GMRS	1	<1%	Yes
Zimmer	ZCA	Zimmer	MAYO CEMENTED STEM	1	<1%	No
Zimmer	ZCA	Zimmer	MS-30	1	<1%	No
Zimmer	ZIMMER DELTA	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	1	<1%	Yes

**Table 9(b)** Cup-stem brand combinations for revision hip procedures performed during 2010.

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
				<b>3,881</b>		
Stryker	CONTEMPORARY	Stryker	EXETER V40	221	6%	No
Stryker	TRIDENT	Stryker	EXETER V40	220	6%	No
Stryker	TRIDENT	Stryker	RESTORATION CEMENTED STEM	160	4%	No
DePuy	PINNACLE	DePuy	CORAIL	153	4%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Stryker	EXETER V40	148	4%	Yes
Stryker	TRITANIUM	Stryker	EXETER V40	145	4%	No
Stryker	TRITANIUM	Stryker	RESTORATION CEMENTED STEM	133	3%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Stryker	RESTORATION CEMENTED STEM	94	2%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	GPT	92	2%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	62	2%	No
DePuy	ELITE PLUS CEMENTED CUP	Stryker	EXETER V40	55	1%	Yes
DePuy	PINNACLE	Stryker	EXETER V40	54	1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	Joint Replacement Instrumentation Ltd	FURLONG HAC	50	1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	REVITAN CEMENTLESS PROXIMAL STEM	50	1%	No
Zimmer	TRILOGY	Stryker	EXETER V40	47	1%	Yes
DePuy	MARATHON	DePuy	C-STEM CEMENTED STEM	46	1%	No
DePuy	ELITE PLUS OGEE	Stryker	EXETER V40	44	1%	Yes
Stryker	TRIDENT	Stryker	ACCOLADE	44	1%	No
DePuy	PINNACLE	DePuy	CORAIL REVISION	41	1%	No
Zimmer	TRABECULAR METAL REVISION SHELL	Stryker	EXETER V40	39	1%	Yes
DePuy	PINNACLE	DePuy	C-STEM AMT CEMENTED STEM	34	<1%	No
DePuy	PINNACLE	DePuy	KAR	34	<1%	No
Zimmer	CONTINUUM	Zimmer	GPT	34	<1%	No
Stryker	CONTEMPORARY	Stryker	RESTORATION CEMENTED STEM	33	<1%	No

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	PINNACLE	Stryker	RESTORATION CEMENTED STEM	31	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Stryker	RESTORATION CEMENTED STEM	30	<1%	Yes
DePuy	PINNACLE	DePuy	C-STEM CEMENTED STEM	28	<1%	No
Zimmer	TRILOGY	Zimmer	CPT	27	<1%	No
Biomet	REGENEREX CEMENTLESS	Stryker	EXETER V40	24	<1%	Yes
DePuy	ELITE PLUS OGEE	DePuy	C-STEM CEMENTED STEM	24	<1%	No
DePuy	MARATHON	Stryker	EXETER V40	24	<1%	Yes
DePuy	PINNACLE	DePuy	S-ROM CEMENTLESS STEM	24	<1%	No
Lima WG Healthcare	DELTA TT	Lima WG Healthcare	LIMA/WG REVISION STEM	24	<1%	No
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	SYNERGY CEMENTLESS STEM	23	<1%	No
Stryker	EXETER DURATION	Stryker	EXETER V40	23	<1%	No
Biomet	REGENEREX CEMENTLESS	Zimmer	CPT	22	<1%	Yes
Smith & Nephew	OPERA	DePuy	C-STEM CEMENTED STEM	21	<1%	Yes
Corin	CENATOR CEMENTED CUP	Stryker	EXETER V40	19	<1%	Yes
Lima WG Healthcare	LIMA/WG REVISION CUP	Lima WG Healthcare	LIMA/WG REVISION STEM	19	<1%	No
Amplitude	SATURNE	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	18	<1%	Yes
Zimmer	CONTINUUM	Stryker	EXETER V40	17	<1%	Yes
Biomet	EXCEED	Biomet	TAPERLOC CEMENTLESS STEM	16	<1%	No
Smith & Nephew	OPERA	Stryker	EXETER V40	16	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Zimmer	CPT	16	<1%	No
Biomet	EXCEED	Stryker	EXETER V40	15	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Waldemar Link	MP NECK CEMENTED STEM	15	<1%	Yes
Zimmer	TRILOGY	Biomet	OXFORD UNIVERSAL HIP (BIOMET) CEMENTED STEM	15	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Smith & Nephew	REFLECTION CEMENTLESS	Stryker	EXETER V40	14	<1%	Yes
Wright Medical UK Ltd	PROCOTYL	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	14	<1%	No
Joint Replacement Instrumentation Ltd	CSF	Joint Replacement Instrumentation Ltd	FURLONG HAC	13	<1%	No
Orthodynamics	NOVAE STICK	DePuy	C-STEM CEMENTED STEM	13	<1%	Yes
Zimmer	CONTINUUM	Zimmer	M/L TAPER CEMENTLESS	13	<1%	No
Zimmer	ZCA	Zimmer	CPT	13	<1%	No
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	B Braun / Aesculap	PREVISION CEMENTED STEM	12	<1%	No
Biomet	REGENEREX CEMENTLESS	Biomet	REACH	12	<1%	No
DePuy	MARATHON	DePuy	CORAIL	12	<1%	No
DePuy	MARATHON	DePuy	C-STEM AMT CEMENTED STEM	12	<1%	No
DePuy	MARATHON	DePuy	KAR	12	<1%	No
DePuy	PINNACLE	Biomet	MULLER-BIOMET	12	<1%	Yes
DePuy	PINNACLE	DePuy	SOLUTION CEMENTLESS STEM	12	<1%	No
DePuy	PINNACLE	Zimmer	CPT	12	<1%	Yes
Lima WG Healthcare	DELTA TT	DePuy	CORAIL	12	<1%	Yes
Stryker	TRITANIUM	Stryker	ACCOLADE	12	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	12	<1%	Yes
Zimmer	TRILOGY	Stryker	RESTORATION CEMENTED STEM	12	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	DePuy	C-STEM CEMENTED STEM	11	<1%	No
DePuy	MARATHON	DePuy	CORAIL REVISION	11	<1%	No
Biomet	REGENEREX CEMENTLESS	Stryker	RESTORATION CEMENTED STEM	10	<1%	Yes
DePuy	ELITE PLUS OGEE	Stryker	RESTORATION CEMENTED STEM	10	<1%	Yes
DePuy	ELITE PLUS OGEE	Zimmer	CPT	10	<1%	Yes
Zimmer	CONTINUUM	Stryker	RESTORATION CEMENTED STEM	10	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	TRABECULAR METAL CEMENTLESS CUP	DePuy	CORAIL	10	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	M/L TAPER CEMENTLESS	10	<1%	No
Biomet	STANMORE-ARCOM	Biomet	STANMORE MODULAR	9	<1%	No
DePuy	DURALOC CEMENTLESS CUP	Stryker	EXETER V40	9	<1%	Yes
DePuy	PINNACLE	DePuy	REEF	9	<1%	No
DePuy	PINNACLE	Orthodynamics	CANNULOK CEMENTLESS STEM	9	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	Joint Replacement Instrumentation Ltd	SECURUS	9	<1%	No
Lima WG Healthcare	LIMA/WG REVISION CUP	DePuy	CORAIL	9	<1%	Yes
Lima WG Healthcare	LIMA/WG REVISION CUP	Zimmer	M/L TAPER CEMENTLESS	9	<1%	Yes
Orthodynamics	NOVAE STICK	Stryker	EXETER V40	9	<1%	Yes
Stryker	EXETER RIMFIT	Stryker	EXETER V40	9	<1%	No
Zimmer	TRILOGY	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	9	<1%	No
Biomet	MALLORY-HEAD CEMENTLESS CUP	Stryker	EXETER V40	8	<1%	Yes
Biomet	REGENEREX CEMENTLESS	Biomet	TAPERLOC CEMENTLESS STEM	8	<1%	No
DePuy	MARATHON	Stryker	RESTORATION CEMENTED STEM	8	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	Stryker	EXETER V40	8	<1%	Yes
Smith & Nephew	REFLECTION CEMENTLESS	Stryker	RESTORATION CEMENTED STEM	8	<1%	Yes
Stryker	RESTORATION GAP2	Stryker	EXETER V40	8	<1%	No
Zimmer	CONTINUUM	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	8	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	DePuy	REEF	8	<1%	Yes
Biomet	AVANTAGE	Stryker	EXETER V40	7	<1%	Yes
Corin	CENATOR CEMENTED CUP	Zimmer	REVITAN CEMENTLESS PROXIMAL STEM	7	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	Waldemar Link	MP NECK CEMENTED STEM	7	<1%	Yes



Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	ELITE PLUS OGEE	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	7	<1%	Yes
DePuy	MARATHON	DePuy	REEF	7	<1%	No
DePuy	PINNACLE	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	7	<1%	Yes
Lima WG Healthcare	LIMA DELTA REVISION	Lima WG Healthcare	LIMA/WG REVISION STEM	7	<1%	No
Stryker	TRIDENT	Smith & Nephew	ECHELON CEMENTLESS STEM	7	<1%	Yes
Waldemar Link	SNAP FIT	Waldemar Link	SP II CEMENTED STEM	7	<1%	No
Biomet	REGENEREX CEMENTLESS	Biomet	STANMORE MODULAR	6	<1%	No
Biomet	REGENEREX CEMENTLESS	DePuy	CORAIL	6	<1%	Yes
DePuy	CHARNLEY CEMENTED CUP	DePuy	CHARNLEY CEMENTED STEM	6	<1%	No
DePuy	CHARNLEY CEMENTED CUP	Zimmer	CPT	6	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	DePuy	CORAIL	6	<1%	No
DePuy	PINNACLE	DePuy	SUMMIT CEMENTLESS STEM	6	<1%	No
Finsbury	DELTA MOTION	DePuy	CORAIL	6	<1%	Yes
Lima WG Healthcare	LIMA/WG REVISION CUP	Stryker	EXETER V40	6	<1%	Yes
Smith & Nephew	OPERA	Stryker	RESTORATION CEMENTED STEM	6	<1%	Yes
Stryker	CONTEMPORARY	DePuy	SOLUTION CEMENTLESS STEM	6	<1%	Yes
Stryker	CONTEMPORARY	DePuy	S-ROM CEMENTLESS STEM	6	<1%	Yes
Stryker	CONTEMPORARY	Orthodynamics	CANNULOK CEMENTLESS STEM	6	<1%	Yes
Stryker	CONTEMPORARY	Waldemar Link	MP NECK CEMENTED STEM	6	<1%	Yes
Stryker	TRITANIUM	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	6	<1%	Yes
Zimmer	CONTINUUM	DePuy	CORAIL	6	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	ZMR CEMENTED STEM	6	<1%	No
Zimmer	TRABECULAR METAL REVISION SHELL	Zimmer	REVITAN CEMENTLESS PROXIMAL STEM	6	<1%	No

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	TRILOGY	Smith & Nephew	ECHELON CEMENTLESS STEM	6	<1%	Yes
Biomet	RECAP RESURFACING CUP	Biomet	TAPERLOC CEMENTLESS STEM	5	<1%	No
DePuy	ELITE PLUS CEMENTED CUP	DePuy	ELITE PLUS CEMENTED STEM	5	<1%	No
DePuy	ELITE PLUS OGEE	DePuy	C-STEM AMT CEMENTED STEM	5	<1%	No
DePuy	PINNACLE	Waldemar Link	SP II CEMENTED STEM	5	<1%	Yes
DePuy	WROBLEWSKI GOLF BALL	DePuy	C-STEM CEMENTED STEM	5	<1%	No
Finsbury	DELTA MOTION	DePuy	C-STEM AMT CEMENTED STEM	5	<1%	Yes
Lima WG Healthcare	DELTA TT	Stryker	EXETER V40	5	<1%	Yes
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	ECHELON CEMENTLESS STEM	5	<1%	No
Stryker	CONTEMPORARY	DePuy	REEF	5	<1%	Yes
Stryker	TRITANIUM	Orthodynamics	CANNULOK CEMENTLESS STEM	5	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	DePuy	KAR	5	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Lima WG Healthcare	LIMA/WG REVISION STEM	5	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	DePuy	CORAIL REVISION	5	<1%	Yes
Biomet	RECAP RESURFACING CUP	Biomet	STANMORE MODULAR	4	<1%	No
DePuy	CHARNLEY OGEE	DePuy	CHARNLEY CEMENTED STEM	4	<1%	No
DePuy	ELITE PLUS CEMENTED CUP	Stryker	RESTORATION CEMENTED STEM	4	<1%	Yes
DePuy	ELITE PLUS OGEE	Stryker	RESTORATION CEMENTLESS STEM	4	<1%	Yes
DePuy	ELITE PLUS OGEE	Waldemar Link	MP NECK CEMENTED STEM	4	<1%	Yes
DePuy	PINNACLE	DePuy	S-ROM CEMENTLESS STEM	4	<1%	No
DePuy	PINNACLE	Smith & Nephew	ECHELON CEMENTLESS STEM	4	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	PINNACLE	Waldemar Link	MP NECK CEMENTED STEM	4	<1%	Yes
Implants International	EDINBURGH CUP	Implants International	EDINBURGH	4	<1%	No
Joint Replacement Instrumentation Ltd	FURLONG CEMENTED CUP	Joint Replacement Instrumentation Ltd	FURLONG CEMENTED STEM	4	<1%	No
Smith & Nephew	POLAR CEMENTLESS CUP	Biomet	REACH	4	<1%	Yes
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	ANTHOLOGY	4	<1%	No
Stryker	CONTEMPORARY	Stryker	GMRS	4	<1%	No
Stryker	TRIDENT	Orthodynamics	CANNULOK CEMENTLESS STEM	4	<1%	Yes
Wright Medical UK Ltd	PROCOTYL	Stryker	EXETER V40	4	<1%	Yes
Zimmer	CONTINUUM	Lima WG Healthcare	LIMA/WG REVISION STEM	4	<1%	Yes
Zimmer	CONTINUUM	Waldemar Link	MP NECK CEMENTED STEM	4	<1%	Yes
Zimmer	CONTINUUM	Zimmer	M/L TAPER KINECTIV CEMENTLESS	4	<1%	No
Zimmer	LOW PROFILE MULLER	Zimmer	MULLER STR STEM	4	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Biomet	OXFORD UNIVERSAL HIP (BIOMET) CEMENTED STEM	4	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	DePuy	S-ROM CEMENTLESS STEM	4	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Stryker	GMRS	4	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	DePuy	LPS	4	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Waldemar Link	MP NECK CEMENTED STEM	4	<1%	Yes
Zimmer	TRILOGY	DePuy	CORAIL	4	<1%	Yes
Zimmer	TRILOGY	DePuy	KAR	4	<1%	Yes
Zimmer	TRILOGY	DePuy	LPS	4	<1%	Yes
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	DePuy	SOLUTION CEMENTLESS STEM	3	<1%	Yes
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	Stryker	EXETER V40	3	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Biomet	ARCOM SHP	Biomet	STANMORE MODULAR	3	<1%	No
Biomet	EXCEED	Biomet	REACH	3	<1%	No
Biomet	EXCEED	Stryker	RESTORATION CEMENTED STEM	3	<1%	Yes
Biomet	EXCEED	Waldemar Link	MP NECK CEMENTED STEM	3	<1%	Yes
Biomet	MALLORY-HEAD CEMENTLESS CUP	Stryker	RESTORATION CEMENTLESS STEM	3	<1%	Yes
Biomet	MALLORY-HEAD CEMENTLESS CUP	Zimmer	CPT	3	<1%	Yes
Biomet	REGENEREX CEMENTLESS	Biomet	TAPERLOC CEMENTED STEM	3	<1%	No
Biomet	STANMORE-ARCOM	Joint Replacement Instrumentation Ltd	FURLONG CEMENTED STEM	3	<1%	Yes
Corin	TRINITY	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	3	<1%	Yes
DePuy	DURALOC CEMENTLESS CUP	DePuy	C-STEM CEMENTED STEM	3	<1%	No
DePuy	ELITE PLUS CEMENTED CUP	Biomet	STANMORE MODULAR	3	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	DePuy	CHARNLEY MODULAR	3	<1%	No
DePuy	ELITE PLUS CEMENTED CUP	DePuy	C-STEM AMT CEMENTED STEM	3	<1%	No
DePuy	ELITE PLUS CEMENTED CUP	DePuy	KAR	3	<1%	No
DePuy	ELITE PLUS CEMENTED CUP	Joint Replacement Instrumentation Ltd	FURLONG HAC	3	<1%	Yes
DePuy	ELITE PLUS OGEE	DePuy	KAR	3	<1%	No
DePuy	ELITE PLUS OGEE	DePuy	LPS	3	<1%	No
DePuy	PINNACLE	DePuy	LPS	3	<1%	No
DePuy	PINNACLE	DePuy	TRILOCK BPS	3	<1%	No
Finsbury	DELTA MOTION	Zimmer	CLS CEMENTLESS STEM	3	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	Joint Replacement Instrumentation Ltd	SECURUS	3	<1%	No
Joint Replacement Instrumentation Ltd	JRI CEMENTED CUP	Zimmer	MS-30	3	<1%	Yes
Lima WG Healthcare	DELTA TT	DePuy	S-ROM CEMENTLESS STEM	3	<1%	Yes

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Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Lima WG Healthcare	LIMA/WG REVISION CUP	Stryker	RESTORATION CEMENTED STEM	3	<1%	Yes
Lima WG Healthcare	LIMA/WG REVISION CUP	Zimmer	M/L TAPER KINECTIV CEMENTLESS	3	<1%	Yes
Orthodynamics	NOVAE SF	Zimmer	CPT	3	<1%	Yes
Smith & Nephew	EPF-PLUS	Smith & Nephew	SL-PLUS CEMENTLESS STEM	3	<1%	No
Smith & Nephew	REFLECTION CEMENTED	Corin	TAPERFIT CEMENTED STEM	3	<1%	Yes
Smith & Nephew	REFLECTION CEMENTED	Stryker	EXETER V40	3	<1%	Yes
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	SPECTRON	3	<1%	No
Stryker	CONTEMPORARY	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	3	<1%	Yes
Stryker	EXETER DURATION	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	3	<1%	Yes
Stryker	RESTORATION GAP2	Stryker	RESTORATION CEMENTED STEM	3	<1%	No
Stryker	TRIDENT	DePuy	CORAIL	3	<1%	Yes
Stryker	TRITANIUM	Biomet	MALLORY-HEAD CEMENTED STEM	3	<1%	Yes
Stryker	TRITANIUM	DePuy	REEF	3	<1%	Yes
Wright Medical UK Ltd	PROCOTYL	Joint Replacement Instrumentation Ltd	FURLONG HAC	3	<1%	Yes
Zimmer	LOW PROFILE MULLER	Zimmer	MS-30	3	<1%	No
Zimmer	LOW PROFILE MULLER	Zimmer	P10 MULLER	3	<1%	No
Zimmer	MONOBLOCK TRABECULAR METAL CUP CEMENTLESS	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	3	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	DePuy	C-STEM CEMENTED STEM	3	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Joint Replacement Instrumentation Ltd	FURLONG HAC	3	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	M/L TAPER KINECTIV CEMENTLESS	3	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	MS-30	3	<1%	No
Zimmer	TRABECULAR METAL REVISION SHELL	DePuy	C-STEM CEMENTED STEM	3	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	TRABECULAR METAL REVISION SHELL	Finsbury	FREEMAN CEMENTED FINSBURY	3	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Finsbury	FREEMAN CEMENTLESS	3	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Orthodynamics	CANNULOK CEMENTLESS STEM	3	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	3	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Stryker	GMRS	3	<1%	Yes
Zimmer	TRILOGY	Corin	OXFORD UNIVERSAL HIP (CORIN) CEMENTED STEM	3	<1%	Yes
Zimmer	TRILOGY	Orthodynamics	CANNULOK CEMENTLESS STEM	3	<1%	Yes
Zimmer	TRILOGY	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	3	<1%	Yes
Zimmer	ZIMMER DELTA	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	3	<1%	Yes
Amplitude	SATURNE	DePuy	S-ROM CEMENTLESS STEM	2	<1%	Yes
B Braun / Aesculap	CHIRULEN	B Braun / Aesculap	EXCIA-CEMENTED	2	<1%	No
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	B Braun / Aesculap	EXCIA-CEMENTED	2	<1%	No
Biomet	APOLLO	Biomet	MULLER-BIOMET	2	<1%	No
Biomet	EXCEED	Zimmer	CPT	2	<1%	Yes
Biomet	MALLORY-HEAD CEMENTLESS CUP	Biomet	STANMORE MODULAR	2	<1%	No
Biomet	MALLORY-HEAD CEMENTLESS CUP	Biomet	TAPERLOC CEMENTED STEM	2	<1%	No
Biomet	MALLORY-HEAD CEMENTLESS CUP	Stryker	RESTORATION CEMENTED STEM	2	<1%	Yes
Biomet	PAR 5 RINOWL CEMENTLESS CUP	Stryker	EXETER V40	2	<1%	Yes
Biomet	REGENEREX CEMENTLESS	Biomet	BIMETRIC CEMENTLESS STEM	2	<1%	No
Biomet	REGENEREX CEMENTLESS	Biomet	MALLORY-HEAD CEMENTED STEM	2	<1%	No
Biomet	REGENEREX CEMENTLESS	Biomet	OXFORD UNIVERSAL HIP (BIOMET) CEMENTED STEM	2	<1%	No

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Biomet	REGENEREX CEMENTLESS	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	2	<1%	Yes
Biomet	REGENEREX CEMENTLESS	Waldemar Link	MP NECK CEMENTED STEM	2	<1%	Yes
Corin	CORMET PRIME	Corin	METAFIX STEM	2	<1%	No
Corin	TRINITY	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	2	<1%	Yes
DePuy	CHARNLEY CEMENTED CUP	DePuy	C-STEM CEMENTED STEM	2	<1%	No
DePuy	CHARNLEY OGEE	Stryker	EXETER V40	2	<1%	Yes
DePuy	DURALOC CEMENTLESS CUP	DePuy	REEF	2	<1%	No
DePuy	DURALOC OPTION	DePuy	CORAIL	2	<1%	No
DePuy	ELITE PLUS CEMENTED CUP	DePuy	CORAIL REVISION	2	<1%	No
DePuy	ELITE PLUS CEMENTED CUP	DePuy	REEF	2	<1%	No
DePuy	ELITE PLUS FLANGED	Zimmer	REVITAN CEMENTLESS PROXIMAL STEM	2	<1%	Yes
DePuy	ELITE PLUS OGEE	DePuy	REEF	2	<1%	No
DePuy	MARATHON	DePuy	LPS	2	<1%	No
DePuy	MARATHON	DePuy	S-ROM CEMENTLESS STEM	2	<1%	No
DePuy	MARATHON	DePuy	WROBLEWSKI RESECTION	2	<1%	No
DePuy	PINNACLE	DePuy	CORAIL CEMENTED	2	<1%	No
DePuy	PINNACLE	Lima WG Healthcare	LIMA/WG REVISION STEM	2	<1%	Yes
DePuy	PINNACLE	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	2	<1%	Yes
Finsbury	DELTA MOTION	Finsbury	FINSBURY TYPE C	2	<1%	No
Joint Replacement Instrumentation Ltd	CSF PLUS	DePuy	KAR	2	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	Stryker	RESTORATION CEMENTED STEM	2	<1%	Yes
Lima WG Healthcare	DELTA TT	Lima WG Healthcare	H MAX	2	<1%	No
Lima WG Healthcare	DELTA TT	Zimmer	M/L TAPER KINECTIV CEMENTLESS	2	<1%	Yes
Lima WG Healthcare	LIMA DELTA REVISION	Stryker	EXETER V40	2	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Lima WG Healthcare	LIMA DELTA REVISION	Stryker	RESTORATION CEMENTED STEM	2	<1%	Yes
Lima WG Healthcare	LIMA/WG REVISION CUP	DePuy	SOLUTION CEMENTLESS STEM	2	<1%	Yes
Lima WG Healthcare	LIMA/WG REVISION CUP	DePuy	S-ROM CEMENTLESS STEM	2	<1%	Yes
Lima WG Healthcare	LIMA/WG REVISION CUP	Lima WG Healthcare	H MAX	2	<1%	No
Mathys Orthopaedics Ltd	RM CEMENTLESS CUP (MATHYS)	Stryker	EXETER V40	2	<1%	Yes
Medacta UK Ltd	VERSAFIT	Medacta UK Ltd	QUADRA CEMENTLESS	2	<1%	No
Orthodynamics	NOVAE	Orthodynamics	CANNULOK CEMENTLESS STEM	2	<1%	No
Orthodynamics	NOVAE SF	Stryker	GMRS	2	<1%	Yes
Orthodynamics	NOVAE STICK	Stryker	RESTORATION CEMENTED STEM	2	<1%	Yes
Smith & Nephew	BHR RESURFACING CUP	Smith & Nephew	ECHELON CEMENTLESS STEM	2	<1%	No
Smith & Nephew	EPF-PLUS	Smith & Nephew	CPS-PLUS	2	<1%	No
Smith & Nephew	OPERA	DePuy	CHARNLEY CEMENTED STEM	2	<1%	Yes
Smith & Nephew	OPERA	Smith & Nephew	SPECTRON	2	<1%	No
Smith & Nephew	POLAR CEMENTLESS CUP	Zimmer	CPT	2	<1%	Yes
Stryker	CONTEMPORARY	Smith & Nephew	ECHELON CEMENTLESS STEM	2	<1%	Yes
Stryker	CONTEMPORARY	Zimmer	REVITAN CEMENTLESS PROXIMAL STEM	2	<1%	Yes
Stryker	RESTORATION GAP2	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	2	<1%	Yes
Stryker	RESTORATION GAP2	Stryker	GMRS	2	<1%	No
Stryker	SECURE FIT CEMENTLESS CUP	Stryker	EXETER V40	2	<1%	No
Stryker	TRIDENT	Biomet	OXFORD UNIVERSAL HIP (BIOMET) CEMENTED STEM	2	<1%	Yes
Stryker	TRIDENT	Stanmore Implants Worldwide	CUSTOM DEVICE	2	<1%	Yes
Stryker	TRIDENT	Stanmore Implants Worldwide	METS	2	<1%	Yes



Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Stryker	TRIDENT	Waldemar Link	MP NECK CEMENTED STEM	2	<1%	Yes
Stryker	TRIDENT	Zimmer	CLS CEMENTLESS STEM	2	<1%	Yes
Stryker	TRITANIUM	Stryker	ABG II CEMENTLESS STEM	2	<1%	No
Stryker	TRITANIUM	Waldemar Link	MP NECK CEMENTED STEM	2	<1%	Yes
Stryker	TRITANIUM	Zimmer	CPT	2	<1%	Yes
Waldemar Link	INTERPLANTA	Waldemar Link	SP II CEMENTED STEM	2	<1%	No
Zimmer	CONTINUUM	DePuy	CORAIL REVISION	2	<1%	Yes
Zimmer	CONTINUUM	Waldemar Link	SP II CEMENTED STEM	2	<1%	Yes
Zimmer	CONTINUUM	Zimmer	REVITAN CEMENTLESS PROXIMAL STEM	2	<1%	No
Zimmer	CONTINUUM	Zimmer	VERSYS CEMENTED STEM	2	<1%	No
Zimmer	CONTINUUM	Zimmer	VERSYS CEMENTLESS STEM	2	<1%	No
Zimmer	LOW PROFILE MULLER	Biomet	MULLER-BIOMET	2	<1%	Yes
Zimmer	LOW PROFILE MULLER	Orthodynamics	CANNULOK CEMENTLESS STEM	2	<1%	Yes
Zimmer	LOW PROFILE MULLER	Stryker	EXETER V40	2	<1%	Yes
Zimmer	LOW PROFILE MULLER	Zimmer	CPT	2	<1%	No
Zimmer	MONOBLOCK TRABECULAR METAL CUP	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	2	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Biomet	BIMETRIC CEMENTLESS STEM	2	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Corin	TAPERFIT CEMENTED STEM	2	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	DePuy	CORAIL REVISION	2	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Lima WG Healthcare	H MAX	2	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Stanmore Implants Worldwide	METS	2	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	DePuy	REEF	2	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Stanmore Implants Worldwide	METS	2	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	TRABECULAR METAL REVISION SHELL	Zimmer	ZMR CEMENTED STEM	2	<1%	No
Zimmer	TRILOGY	DePuy	REEF	2	<1%	Yes
Zimmer	TRILOGY	DePuy	S-ROM CEMENTLESS STEM	2	<1%	Yes
Zimmer	TRILOGY	Joint Replacement Instrumentation Ltd	FURLONG HAC	2	<1%	Yes
Zimmer	TRILOGY	Waldemar Link	MP NECK CEMENTED STEM	2	<1%	Yes
Zimmer	TRILOGY	Zimmer	ZMR CEMENTED STEM	2	<1%	No
Zimmer	ZCA	Stryker	RESTORATION CEMENTED STEM	2	<1%	Yes
Zimmer	ZCA	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	2	<1%	No
Amplitude	SATURNE	Zimmer	CPT	1	<1%	Yes
B Braun / Aesculap	CHIRULEN	B Braun / Aesculap	BICONTACT CEMENTED STEM	1	<1%	No
B Braun / Aesculap	CHIRULEN	B Braun / Aesculap	CENTRAMENT	1	<1%	No
B Braun / Aesculap	CHIRULEN	B Braun / Aesculap	PREVISION CEMENTED STEM	1	<1%	No
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	B Braun / Aesculap	BICONTACT CEMENTED STEM	1	<1%	No
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	B Braun / Aesculap	EXCIA	1	<1%	No
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	DePuy	S-ROM CEMENTLESS STEM	1	<1%	Yes
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	DePuy	TRILOCK BPS	1	<1%	Yes
B Braun / Aesculap	PLASMACUP CEMENTLESS CUP	Joint Replacement Instrumentation Ltd	LOL CEMENTED	1	<1%	Yes
Biomet	ARCOM SHP	Biomet	TAPERLOC CEMENTED STEM	1	<1%	No
Biomet	AVANTAGE	Biomet	TAPERLOC CEMENTLESS STEM	1	<1%	No
Biomet	AVANTAGE	Orthodynamics	CANNULOK CEMENTLESS STEM	1	<1%	Yes
Biomet	AVANTAGE	Zimmer	CPT	1	<1%	Yes
Biomet	BIOMET BI-POLAR CEMENTED CUP	Stanmore Implants Worldwide	METS	1	<1%	Yes
Biomet	EXCEED	Biomet	BIMETRIC CEMENTLESS STEM	1	<1%	No
Biomet	EXCEED	Biomet	MICRO TAPERLOC	1	<1%	No

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Biomet	EXCEED	Biomet	OXFORD UNIVERSAL HIP (BIOMET) CEMENTED STEM	1	<1%	No
Biomet	EXCEED	Biomet	TAPERLOC CEMENTED STEM	1	<1%	No
Biomet	EXCEED	DePuy	CORAIL	1	<1%	Yes
Biomet	EXCEED	Joint Replacement Instrumentation Ltd	SECURUS	1	<1%	Yes
Biomet	M2A CEMENTLESS CUP	Stryker	GMRS	1	<1%	Yes
Biomet	M2A CEMENTLESS CUP	Zimmer	TRABECULAR CEMENTLESS STEM	1	<1%	Yes
Biomet	MALLORY-HEAD CEMENTLESS CUP	Biomet	MALLORY-HEAD CEMENTED STEM	1	<1%	No
Biomet	MALLORY-HEAD CEMENTLESS CUP	Biomet	REACH	1	<1%	No
Biomet	MALLORY-HEAD CEMENTLESS CUP	Biomet	TAPERLOC CEMENTLESS STEM	1	<1%	No
Biomet	MALLORY-HEAD CEMENTLESS CUP	Smith & Nephew	SPECTRON	1	<1%	Yes
Biomet	RECAP RESURFACING CUP	Biomet	TAPERLOC CEMENTED STEM	1	<1%	No
Biomet	RECAP RESURFACING CUP	Zimmer	CPT	1	<1%	Yes
Biomet	REGENEREX CEMENTLESS	DePuy	C-STEM CEMENTED STEM	1	<1%	Yes
Biomet	REGENEREX CEMENTLESS	DePuy	SOLUTION CEMENTLESS STEM	1	<1%	Yes
Biomet	REGENEREX CEMENTLESS	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	1	<1%	Yes
Biomet	ROMANUS II	Biomet	OXFORD UNIVERSAL HIP (BIOMET) CEMENTED STEM	1	<1%	No
Biomet	STANMORE-ARCOM	Stryker	RESTORATION CEMENTED STEM	1	<1%	Yes
Corin	CENATOR CEMENTED CUP	Smith & Nephew	CPS-PLUS	1	<1%	Yes
Corin	CENATOR CEMENTED CUP	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	1	<1%	Yes
Corin	HI-NEK CEMENTED CUP	Waldemar Link	MP NECK CEMENTED STEM	1	<1%	Yes
Corin	TRINITY	Corin	METAFIX STEM	1	<1%	No

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Corin	TRINITY	Zimmer	M/L TAPER CEMENTLESS	1	<1%	Yes
DePuy	CHARNLEY CEMENTED CUP	Stryker	EXETER V40	1	<1%	Yes
DePuy	CHARNLEY CEMENTED CUP	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	1	<1%	Yes
DePuy	CHARNLEY KS	Stryker	EXETER V40	1	<1%	Yes
DePuy	DURALOC CEMENTLESS CUP	DePuy	CORAIL	1	<1%	No
DePuy	DURALOC CEMENTLESS CUP	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	1	<1%	Yes
DePuy	DURALOC OPTION	Stryker	EXETER V40	1	<1%	Yes
DePuy	ELITE PLUS CEMENTED CUP	DePuy	SOLUTION CEMENTLESS STEM	1	<1%	No
DePuy	ELITE PLUS CEMENTED CUP	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	1	<1%	Yes
DePuy	ELITE PLUS FLANGED	Stryker	EXETER V40	1	<1%	Yes
DePuy	ELITE PLUS OGEE	B Braun / Aesculap	PREVISION CEMENTED STEM	1	<1%	Yes
DePuy	ELITE PLUS OGEE	DePuy	CORAIL	1	<1%	No
DePuy	ELITE PLUS OGEE	DePuy	CORAIL REVISION	1	<1%	No
DePuy	ELITE PLUS OGEE	DePuy	ELITE PLUS CEMENTED STEM	1	<1%	No
DePuy	ELITE PLUS OGEE	DePuy	SOLUTION CEMENTLESS STEM	1	<1%	No
DePuy	ELITE PLUS OGEE	DePuy	S-ROM CEMENTLESS STEM	1	<1%	No
DePuy	ELITE PLUS OGEE	DePuy	WROBLEWSKI RESECTION	1	<1%	No
DePuy	ELITE PLUS OGEE	Joint Replacement Instrumentation Ltd	FURLONG HAC	1	<1%	Yes
DePuy	ELITE PLUS OGEE	Smith & Nephew	ECHELON CEMENTLESS STEM	1	<1%	Yes
DePuy	ELITE PLUS OGEE	Smith & Nephew	SPECTRON	1	<1%	Yes
DePuy	ELITE PLUS OGEE	Stryker	GMRS	1	<1%	Yes
DePuy	ELITE PLUS OGEE	Zimmer	TRABECULAR CEMENTLESS STEM	1	<1%	Yes
DePuy	GYROS	Biomet	REACH	1	<1%	Yes
DePuy	GYROS	DePuy	DEPUY PROXIMA	1	<1%	No
DePuy	GYROS	DePuy	SOLUTION CEMENTLESS STEM	1	<1%	No

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	GYROS	Stryker	EXETER V40	1	<1%	Yes
DePuy	GYROS	Zimmer	CPT	1	<1%	Yes
DePuy	MARATHON	Orthodynamics	CANNULOK CEMENTLESS STEM	1	<1%	Yes
DePuy	MARATHON	Stanmore Implants Worldwide	METS	1	<1%	Yes
DePuy	MARATHON	Waldemar Link	MP NECK CEMENTED STEM	1	<1%	Yes
DePuy	MARATHON	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	1	<1%	Yes
DePuy	PINNACLE	B Braun / Aesculap	PREVISION CEMENTED STEM	1	<1%	Yes
DePuy	PINNACLE	DePuy	DEPUY PROXIMA	1	<1%	No
DePuy	PINNACLE	DePuy	ELITE PLUS CEMENTED STEM	1	<1%	No
DePuy	PINNACLE	DePuy	SUMMIT CEMENTED STEM	1	<1%	No
DePuy	PINNACLE	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	1	<1%	Yes
DePuy	PINNACLE	Zimmer	M/L TAPER CEMENTLESS	1	<1%	Yes
DePuy	PINNACLE	Zimmer	MULLER STR STEM	1	<1%	Yes
DePuy	PINNACLE	Zimmer	REVITAN CEMENTLESS PROXIMAL STEM	1	<1%	Yes
DePuy	PINNACLE	Zimmer	VERSYS CEMENTLESS STEM	1	<1%	Yes
DePuy	SOLUTION CEMENTED CUP	Biomet	MICRO TAPERLOC	1	<1%	Yes
DePuy	S-ROM CEMENTLESS CUP	DePuy	S-ROM CEMENTLESS STEM	1	<1%	No
DePuy	WROBLEWSKI ANGLE BORE SOCKET	DePuy	CHARNLEY CEMENTED STEM	1	<1%	No
Exactech (UK) Ltd	ACUMATCH CUP	Stryker	RESTORATION CEMENTLESS STEM	1	<1%	Yes
FH Newtech Ortho Ltd	ATLAS IIIP	Corin	TAPERFIT CEMENTED STEM	1	<1%	Yes
FH Newtech Ortho Ltd	ATLAS IIIP	Waldemar Link	MP NECK CEMENTED STEM	1	<1%	Yes
FH Newtech Ortho Ltd	ATLAS IIIP	Zimmer	CPT	1	<1%	Yes
FH Newtech Ortho Ltd	ATLAS IIIP	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	1	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Finsbury	ADEPT RESURFACING CUP	Zimmer	CLS CEMENTLESS STEM	1	<1%	Yes
Finsbury	DELTA MOTION	DePuy	TRILOCK BPS	1	<1%	Yes
Finsbury	DELTA MOTION	Joint Replacement Instrumentation Ltd	FURLONG HAC	1	<1%	Yes
Finsbury	DELTA MOTION	Stryker	RESTORATION CEMENTED STEM	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	Joint Replacement Instrumentation Ltd	FURLONG CEMENTED STEM	1	<1%	No
Joint Replacement Instrumentation Ltd	CSF	Stryker	RESTORATION CEMENTED STEM	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	DePuy	C-STEM AMT CEMENTED STEM	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	Joint Replacement Instrumentation Ltd	FURLONG CEMENTED STEM	1	<1%	No
Joint Replacement Instrumentation Ltd	CSF PLUS	Orthodynamics	CANNULOK CEMENTLESS STEM	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	Stryker	EXETER	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF PLUS	Zimmer	CPT	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CUSTOM HC	Joint Replacement Instrumentation Ltd	SECURUS	1	<1%	No
Joint Replacement Instrumentation Ltd	FURLONG CEMENTED CUP	DePuy	CORAIL	1	<1%	Yes
Joint Replacement Instrumentation Ltd	FURLONG CEMENTED CUP	Stryker	EXETER V40	1	<1%	Yes
Joint Replacement Instrumentation Ltd	FURLONG THREADED CUP	Joint Replacement Instrumentation Ltd	FURLONG HAC	1	<1%	No
Lima WG Healthcare	DELTA TT	Zimmer	M/L TAPER CEMENTLESS	1	<1%	Yes
Lima WG Healthcare	LIMA DELTA REVISION	DePuy	SOLUTION CEMENTLESS STEM	1	<1%	Yes
Mathys Orthopaedics Ltd	CCB MATHYS	Mathys Orthopaedics Ltd	CCA CEMENTED STEM	1	<1%	No
Mathys Orthopaedics Ltd	CCB MATHYS	Mathys Orthopaedics Ltd	MATHYS REVISION STEM	1	<1%	No
Mathys Orthopaedics Ltd	RM CEMENTLESS CUP (MATHYS)	Mathys Orthopaedics Ltd	TWINSYS CEMENTLESS STEM	1	<1%	No
Mathys Orthopaedics Ltd	RM CEMENTLESS CUP (MATHYS)	Smith & Nephew	SL-PLUS CEMENTLESS STEM	1	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Orthodynamics	NOVAE	Stryker	EXETER V40	1	<1%	Yes
Orthodynamics	NOVAE	Stryker	RESTORATION CEMENTED STEM	1	<1%	Yes
Smith & Nephew	BHR RESURFACING CUP	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	1	<1%	Yes
Smith & Nephew	BOFOR	Smith & Nephew	SL-PLUS CEMENTLESS STEM	1	<1%	No
Smith & Nephew	EPF-PLUS	Corin	CTI CEMENTED STEM	1	<1%	Yes
Smith & Nephew	EPF-PLUS	Smith & Nephew	CPCS	1	<1%	No
Smith & Nephew	OPERA	Zimmer	CPT	1	<1%	Yes
Smith & Nephew	POLAR CEMENTLESS CUP	B Braun / Aesculap	PREVISION CEMENTED STEM	1	<1%	Yes
Smith & Nephew	POLAR CEMENTLESS CUP	DePuy	S-ROM CEMENTLESS STEM	1	<1%	Yes
Smith & Nephew	POLAR CEMENTLESS CUP	Orthodynamics	CANNULOK CEMENTLESS STEM	1	<1%	Yes
Smith & Nephew	POLAR CEMENTLESS CUP	Smith & Nephew	CPCS	1	<1%	No
Smith & Nephew	POLAR CEMENTLESS CUP	Stryker	EXETER V40	1	<1%	Yes
Smith & Nephew	R3	Smith & Nephew	SYNERGY CEMENTLESS STEM	1	<1%	No
Smith & Nephew	REFLECTION CEMENTED	Smith & Nephew	ECHELON CEMENTLESS STEM	1	<1%	No
Smith & Nephew	REFLECTION CEMENTLESS	Corin	MINIHIP	1	<1%	Yes
Smith & Nephew	REFLECTION CEMENTLESS	DePuy	REEF	1	<1%	Yes
Smith & Nephew	REFLECTION CEMENTLESS	Mathys Orthopaedics Ltd	MATHYS REVISION STEM	1	<1%	Yes
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	MDF MODULAR	1	<1%	No
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	POLAR CEMENTLESS STEM	1	<1%	No
Smith & Nephew	REFLECTION CEMENTLESS	Smith & Nephew	SL-PLUS CEMENTLESS STEM	1	<1%	No
Smith & Nephew	SP3 HA	Smith & Nephew	SYNERGY CEMENTLESS STEM	1	<1%	No
Stryker	ABG II CEMENTLESS CUP	Zimmer	CPT	1	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Stryker	CONTEMPORARY	Biomet	OXFORD UNIVERSAL HIP (BIOMET) CEMENTED STEM	1	<1%	Yes
Stryker	CONTEMPORARY	Stryker	ACCOLADE	1	<1%	No
Stryker	CONTEMPORARY	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	1	<1%	Yes
Stryker	CONTEMPORARY	Zimmer	CPT	1	<1%	Yes
Stryker	CONTEMPORARY	Zimmer	M/L TAPER CEMENTLESS	1	<1%	Yes
Stryker	CONTEMPORARY	Zimmer	ZMR CEMENTED STEM	1	<1%	Yes
Stryker	EXETER DURATION	Joint Replacement Instrumentation Ltd	SECURUS	1	<1%	Yes
Stryker	EXETER DURATION	Smith & Nephew	ECHELON CEMENTLESS STEM	1	<1%	Yes
Stryker	EXETER DURATION	Zimmer	CPT	1	<1%	Yes
Stryker	EXETER RIMFIT	DePuy	CORAIL	1	<1%	Yes
Stryker	ODC	Stryker	EXETER V40	1	<1%	No
Stryker	RESTORATION GAP2	Orthodynamics	CANNULOK CEMENTLESS STEM	1	<1%	Yes
Stryker	RESTORATION GAP2	Zimmer	MS-30	1	<1%	Yes
Stryker	SECURE FIT CEMENTLESS CUP	DePuy	C-STEM AMT CEMENTED STEM	1	<1%	Yes
Stryker	SECURE FIT CEMENTLESS CUP	Stryker	RESTORATION CEMENTLESS STEM	1	<1%	No
Stryker	SECURE FIT CEMENTLESS CUP	Zimmer	CPT	1	<1%	Yes
Stryker	TRIDENT	Biomet	REACH	1	<1%	Yes
Stryker	TRIDENT	Biomet	STANMORE MODULAR	1	<1%	Yes
Stryker	TRIDENT	DePuy	C-STEM AMT CEMENTED STEM	1	<1%	Yes
Stryker	TRIDENT	DePuy	C-STEM CEMENTED STEM	1	<1%	Yes
Stryker	TRIDENT	DePuy	KAR	1	<1%	Yes
Stryker	TRIDENT	DePuy	WROBLEWSKI RESECTION	1	<1%	Yes
Stryker	TRIDENT	Joint Replacement Instrumentation Ltd	FURLONG CEMENTED STEM	1	<1%	Yes
Stryker	TRIDENT	Joint Replacement Instrumentation Ltd	FURLONG HAC	1	<1%	Yes



Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Stryker	TRIDENT	Waldemar Link	SP II CEMENTED STEM	1	<1%	Yes
Stryker	TRIDENT	Zimmer	CPT	1	<1%	Yes
Stryker	TRITANIUM	Biomet	STANMORE MODULAR	1	<1%	Yes
Stryker	TRITANIUM	DePuy	C-STEM CEMENTED STEM	1	<1%	Yes
Stryker	TRITANIUM	Joint Replacement Instrumentation Ltd	FURLONG HAC	1	<1%	Yes
Stryker	TRITANIUM	Stanmore Implants Worldwide	METS	1	<1%	Yes
Stryker	TRITANIUM	Stryker	EXETER	1	<1%	No
Stryker	TRITANIUM	Stryker	GMRS	1	<1%	No
Waldemar Link	INTERPLANTA	Zimmer	CPT	1	<1%	Yes
Waldemar Link	SNAP FIT	DePuy	CHARNLEY MODULAR	1	<1%	Yes
Waldemar Link	SNAP FIT	DePuy	REEF	1	<1%	Yes
Wright Medical UK Ltd	PROCOTYL	Wright Medical UK Ltd	ANCAFIT CEMENTLESS STEM	1	<1%	No
Wright Medical UK Ltd	PROCOTYL	Wright Medical UK Ltd	PROFEMUR CEMENTED STEM	1	<1%	No
Zimmer	ALLOFIT	Zimmer	CPT	1	<1%	No
Zimmer	ALLOFIT	Zimmer	MS-30	1	<1%	No
Zimmer	CONTINUUM	DePuy	REEF	1	<1%	Yes
Zimmer	CONTINUUM	DePuy	S-ROM CEMENTLESS STEM	1	<1%	Yes
Zimmer	CONTINUUM	Smith & Nephew	ECHELON CEMENTLESS STEM	1	<1%	Yes
Zimmer	CONTINUUM	Zimmer	ZMR CEMENTED STEM	1	<1%	No
Zimmer	LOW PROFILE MULLER	DePuy	C-STEM AMT CEMENTED STEM	1	<1%	Yes
Zimmer	LOW PROFILE MULLER	DePuy	KAR	1	<1%	Yes
Zimmer	LOW PROFILE MULLER	DePuy	SOLUTION CEMENTLESS STEM	1	<1%	Yes
Zimmer	LOW PROFILE MULLER	Finsbury	LPR CEMENTED	1	<1%	Yes
Zimmer	LOW PROFILE MULLER	Peter Brehm GmbH Corin	PETER BREHM REVISION STEM	1	<1%	Yes
Zimmer	LOW PROFILE MULLER	Zimmer	M/L TAPER KINECTIV CEMENTLESS	1	<1%	No

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	LOW PROFILE MULLER	Zimmer	REVITAN CEMENTLESS PROXIMAL STEM	1	<1%	No
Zimmer	LOW PROFILE MULLER CEMENTLESS	Zimmer	CPT	1	<1%	No
Zimmer	MONOBLOCK TRABECULAR METAL CUP	Corin	MINIHIP	1	<1%	Yes
Zimmer	MONOBLOCK TRABECULAR METAL CUP CEMENTLESS	Corin	MINIHIP	1	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Biomet	STANMORE MODULAR	1	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Stanmore Implants Worldwide	CUSTOM DEVICE	1	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Waldemar Link	SP II CEMENTED STEM	1	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Wright Medical UK Ltd	PROFEMUR CEMENTLESS STEM	1	<1%	Yes
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	CLS CEMENTLESS STEM	1	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	TRABECULAR CEMENTLESS STEM	1	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	VERSYS CEMENTLESS STEM	1	<1%	No
Zimmer	TRABECULAR METAL CEMENTLESS CUP	Zimmer	ZWEYMULLER	1	<1%	No
Zimmer	TRABECULAR METAL REVISION SHELL	Biomet	STANMORE MODULAR	1	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	DePuy	C-STEM AMT CEMENTED STEM	1	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	DePuy	KAR	1	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	DePuy	S-ROM CEMENTLESS STEM	1	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Implantcast GmbH	MUTARS	1	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Smith & Nephew	CPCS	1	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Smith & Nephew	ECHELON CEMENTLESS STEM	1	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Smith & Nephew	SPECTRON	1	<1%	Yes

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	TRABECULAR METAL REVISION SHELL	Stanmore Implants Worldwide	CUSTOM DEVICE	1	<1%	Yes
Zimmer	TRABECULAR METAL REVISION SHELL	Zimmer	MS-30	1	<1%	No
Zimmer	TRABECULAR METAL REVISION SHELL	Zimmer	ZMR CEMENTLESS PROXIMAL STEM	1	<1%	No
Zimmer	TRILOGY	Orthodynamics	CANNULOK CEMENTED STEM	1	<1%	Yes
Zimmer	TRILOGY	Smith & Nephew	SYNERGY CEMENTLESS STEM	1	<1%	Yes
Zimmer	TRILOGY	Stanmore Implants Worldwide	METS	1	<1%	Yes
Zimmer	TRILOGY	Zimmer	VERSYS CEMENTLESS STEM	1	<1%	No
Zimmer	TRILOGY IT	Zimmer	M/L TAPER KINECTIV CEMENTLESS	1	<1%	No
Zimmer	ZCA	DePuy	DEPUY PROXIMA	1	<1%	Yes
Zimmer	ZIMMER DELTA	Corin	METAFIX STEM	1	<1%	Yes

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## 1.4 Summary

The total number of brands of acetabular cups and femoral stems used in procedures recorded in the NJR has increased significantly since its inception. There were 123 brands of acetabular cups (excluding resurfacing cups) used in 2010 which shows a decrease from 2009 where 126 brands had been used. There were 146 brands of femoral stems used in 2010, also a decrease from 2009 (151). In addition to conventional hip resurfacing procedures, there were 999 procedures entered into the NJR where a resurfacing cup was used in conjunction with a large diameter modular head and a conventional modular stem. Material selection for femoral heads used

between 2003 and 2007 remained constant (76% metal and 24% ceramic), however, since 2008 there has been an increase in the use of ceramic heads (63% metal and 37% ceramic). There has also been an increase in the use of larger sizes of femoral heads (greater than 32mm).

# 2 Prostheses used in knee procedures, 2010

## 2.1 Prostheses entered into the NJR

51 brands of total condylar knee prostheses were used in primary procedures and 32 used in revision procedures. In addition, there were 17 brands of unicondylar prostheses, nine brands of patello-femoral

replacement implants and 13 brands of hinged knee prostheses. The number of brands for each prosthesis type is similar to 2009 with the exception of total condylar knee prostheses, where there has been a slight decrease in the number of brands used.

Tables 10(a) and 10(b) show the brands of primary and revision total condylar knee replacement prostheses recorded most frequently for TKR and hybrid procedures.

**Table 10(a)** Total condylar knee brands for primary total knee procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		<b>67,590</b>	
DePuy	PFC SIGMA BICONDYLAR KNEE	24,215	36%
Zimmer	NEXGEN	9,832	15%
Biomet	AGC	6,844	10%
Stryker	TRIATHLON	6,100	9%
Smith & Nephew	GENESIS 2	5,235	8%
Stryker	SCORPIO	3,339	5%
Biomet	VANGUARD	2,943	4%
DePuy	LCS COMPLETE	2,772	4%
Smith & Nephew	TC PLUS	1,747	3%
Finsbury	MRK	774	1%
Wright Medical UK Ltd	ADVANCE BICONDYLAR KNEE	753	1%
B Braun / Aesculap	COLUMBUS	658	1%
Smith & Nephew	PROFIX	429	1%
Corin	ROTAGLIDE +	264	<1%
B Braun / Aesculap	E-MOTION BICONDYLAR KNEE	226	<1%
Exactech (UK) Ltd	OPTETRAK	226	<1%
Zimmer	NK2 BICONDYLAR KNEE	221	<1%
Biomet	MAXIM	172	<1%
Jointmedica Limited	JOINT MEDICA BICONDYLAR	158	<1%
Smith & Nephew	JOURNEY BICONDYLAR	122	<1%
Wright Medical UK Ltd	AMP STATURE	120	<1%

Manufacturer	Brand	Number of procedures	%
Implantcast GmbH	IMPLANTCAST BICONDYLAR	62	<1%
Mathys Orthopaedics Ltd	BALANSYS BICONDYLAR KNEE	62	<1%
Implantcast GmbH	ACS	53	<1%
Medacta UK Ltd	GMK	48	<1%
Zimmer	NEXGEN LCCK	48	<1%
Biomet	ALPINA	30	<1%
Wright Medical UK Ltd	INSALL-BURSTEIN 2	27	<1%
Smith & Nephew	LEGION	19	<1%
Stryker	KINEMAX	15	<1%
ASDM	ASDM TCK	13	<1%
Zimmer	FS	13	<1%
Biomet	COLUMBUS	8	<1%
DJO Surgical	3D	8	<1%
Zimmer	INNEX	8	<1%
Implants International	ST LEGER	6	<1%
DePuy	PFC BICONDYLAR KNEE	4	<1%
Finsbury	SAIPH	4	<1%
Biomet	OXFORD TMK	2	<1%
DePuy	AMK	2	<1%
Amplitude	SCORE	1	<1%
Biomet	CKS	1	<1%
Corin	AMC	1	<1%
Intavent - Orthofix	OPTETRAK	1	<1%
Joint Replacement Instrumentation Ltd	JRI BICONDYLAR KNEE	1	<1%
Medacta UK Ltd	MEDACTA BICONDYLAR	1	<1%
Smith & Nephew	RENASYS BICONDYLAR KNEE	1	<1%
Sovereign Medical	CCI	1	<1%

**Table 10(b)** Total condylar knee brands for revision knee procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		<b>2,692</b>	
DePuy	PFC SIGMA BICONDYLAR KNEE	946	35%
Zimmer	NEXGEN LCCK	311	12%
Stryker	TRIATHLON	245	9%
Smith & Nephew	LEGION	220	8%
Biomet	AGC	173	6%
Zimmer	NEXGEN	151	6%
Smith & Nephew	GENESIS 2	150	6%
Stryker	SCORPIO	148	5%
Biomet	MAXIM	99	4%
Biomet	VANGUARD	90	3%
Finsbury	MRK	30	1%
Wright Medical UK Ltd	ADVANCE BICONDYLAR KNEE	23	1%
DePuy	LCS COMPLETE	16	1%
Corin	ROTAGLIDE +	15	<1%
Smith & Nephew	PROFIX	15	<1%
B Braun / Aesculap	COLUMBUS	13	<1%
Smith & Nephew	TC LUS	9	<1%
Mathys Orthopaedics Ltd	BALANSYS	8	<1%
Exactech (UK) Ltd	OPTETRAK	5	<1%
Zimmer	NK2 BICONDYLAR KNEE	5	<1%
B Braun / Aesculap	E-MOTION BICONDYLAR KNEE	4	<1%
Implantcast GmbH	ACS	4	<1%
DePuy	LCS COMPLETE REVISION	3	<1%
Biomet	RHK	2	<1%
Implants International	ST LEGER	2	<1%
Jointmedica Limited	JOINT MEDICA BICONDYLAR	1	<1%
Mathys Orthopaedics Ltd	BALANSYS BICONDYLAR KNEE	1	<1%
Medacta UK Ltd	GMK	1	<1%
Smith & Nephew	JOURNEY BICONDYLAR	1	<1%
Smith & Nephew	TC PLUS	1	<1%
Wright Medical UK Ltd	AMP STATURE	1	<1%

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**Table 11** Unicondylar knee brands for primary and revision unicondylar knee replacement procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		<b>6,973</b>	
Biomet	OXFORD PARTIAL KNEE	4,778	69%
DePuy	SIGMA HP	629	9%
Zimmer	ZIMMER UNI	448	6%
Corin	AMC/UNIGLIDE	386	6%
Zimmer	MG UNI	317	5%
Mathys Orthopaedics Ltd	MATHYS UNICONDYLAR KNEE	90	1%
Stryker	TRIATHLON UNI	87	1%
Smith & Nephew	GENESIS UNI	68	1%
DePuy	PRESERVATION	52	1%
Waldemar Link	SLED	44	1%
Smith & Nephew	UC-PLUS	32	<1%
Smith & Nephew	JOURNEY DEUCE	23	<1%
Tornier	HLS EVOLUTION	10	<1%
Biomet	REPICCI	6	<1%
Exactech (UK) Ltd	OPTETRAK UNI	1	<1%
Medacta UK Ltd	GMK UNI	1	<1%
Zimmer	UNI-NAT	1	<1%

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**Table 12** Patello-femoral joint brands for primary and revision patello-femoral joint replacement procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		<b>1,075</b>	
Stryker	AVON	408	38%
Wright Medical UK Ltd	FPV	263	24%
Zimmer	GENDER PF	214	20%
Smith & Nephew	JOURNEY COMPETITOR	159	15%
DePuy	SIGMA HP	21	2%
Biomet	VANGUARD PFR	8	1%
DePuy	LCS PATELLO FEMORAL	1	<1%
Waldemar Link	LUBINUS PF	1	<1%

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**Table 13** Fixed and rotating hinged knee brands for primary and revision knee procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		<b>935</b>	
Waldemar Link	ENDO ROTATING HINGE	312	33%
Zimmer	NEXGEN HINGE TYPE	160	17%
Stryker	MRH	130	14%
DePuy	NOILES	115	12%
Smith & Nephew	RT PLUS	71	8%
Biomet	BIRMINGHAM ROT HINGE	57	6%
Stanmore Implants Worldwide	METS HINGED/LINKED KNEE	33	4%
Wright Medical UK Ltd	GUARDIAN HINGED/LINKED KNEE	16	2%
Waldemar Link	ENDO HINGE	14	1%
Biomet	OSS	11	1%
Waldemar Link	MEGA SYSTEM C	9	1%
Biomet	STANMORE HINGE	4	<1%
Stanmore Implants Worldwide	SMILES HINGED/LINKED KNEE	3	<1%

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## 2.2 Usage of fixed versus mobile bearing tibial inserts

Total condylar knee arthroplasties involving tibial inserts were predominantly fixed bearing inserts, as shown in Table 14.

**Table 14** Tibial insert type for primary and revision knee procedures performed during 2010.

Tibial insert type	Number of knee procedures	%
	<b>70,287</b>	
Fixed bearing	63,843	91%
Mobile bearing	6,444	9%

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## 3 Prostheses used in ankle procedures, 2010

Data on ankle procedures were collected on the NJR database from 1st April 2010 and so the tables below represent a nine-month operating period.

**Table 15(a)** Ankle brands for primary ankle procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		332	
DePuy	MOBILITY	199	60%
Corin	ZENITH	63	19%
Tornier - Sovereign	SALTO	26	8%
Finsbury	BOX	20	6%
SBi - NorthStar	STAR	15	5%
Integra	HINTEGRA	9	3%

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**Table 15(b)** Ankle brands for revision ankle procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		5	
DePuy	MOBILITY	4	80%
Sbi- NorthStar	STAR	1	20%

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## 4 Cement use, 2010

The majority (95%) of procedures involving cement used antibiotic-loaded rather than non-antibiotic cement (Table 16), which is the same as 2009. Manufacturers of antibiotic-loaded cement and non-antibiotic cement are given in Tables 17 and 18.

**Table 16** Type of cement used in hip, knee and ankle replacement procedures performed during 2010.

Joint	Category	Number of procedures	%
		<b>116,447</b>	
Ankle	Antibiotic	15	94%
Ankle	Non-antibiotic	1	6%
Hip	Antibiotic	38,203	94%
Hip	Non-antibiotic	2,655	6%
Knee	Antibiotic	72,953	97%
Knee	Non-antibiotic	2,620	3%

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**Table 17(a)** Brands of regular or high viscosity antibiotic bone cement used in hip procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		<b>39,745</b>	
Heraeus Medical	PALACOS R&G ANTIBIOTIC	24,290	61%
Stryker	SIMPLEX ANTIBIOTIC	6,986	18%
Biomet	REFOBACIN	3,092	8%
DePuy	CMW2 ANTIBIOTIC LOADED CEMENT	2,236	6%
DePuy	CMW1 ANTIBIOTIC LOADED CEMENT	1,984	5%
DePuy	SMARTSET HV ANTIBIOTIC LOADED CEMENT	782	2%
Biomet	OPTIPAC	138	<1%
Heraeus Medical	COPAL ANTIBIOTIC LOADED	123	<1%
Biomet	REFOBACIN REVISION	96	<1%
Heraeus Medical	PALAMED ANTIBIOTIC	11	<1%
Biomet	COPAL ANTIBIOTIC LOADED	4	<1%
Smith & Nephew	VERSABOND AB	2	<1%
Biomet	ANTIBIOTIC CUSTOM MADE	1	<1%

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**Table 17(b)** Brands of regular or high viscosity antibiotic bone cement used in knee procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		<b>72,763</b>	
Heraeus Medical	PALACOS ANTIBIOTIC	54,272	75%
Biomet	BIOMET REFOBACIN	6,730	9%
DePuy	SMARTSET HV ANTIBIOTIC LOADED CEMENT	3,466	5%
Stryker	SIMPLEX ANTIBIOTIC	3,041	4%
DePuy	CMW1 ANTIBIOTIC LOADED CEMENT	2,910	4%
DePuy	CMW2 ANTIBIOTIC LOADED CEMENT	1,432	2%
Biomet	OPTIPAC	606	1%
Biomet	BIOMET REFOBACIN REVISION	148	<1%
Heraeus Medical	COPAL ANTIBIOTIC LOADED	136	<1%
Heraeus Medical	PALAMED ANTIBIOTIC	15	<1%
Biomet	COPAL ANTIBIOTIC LOADED	3	<1%
Tecres / Exactech UK Ltd	CEMEX ANTIBIOTIC LOADED	3	<1%
Amplitude	AMPLIFIX	1	<1%

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**Table 17(c)** Brands of regular or high viscosity antibiotic bone cement used in ankle procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		<b>15</b>	
Heraeus Medical	PALACOS R&G ANTIBIOTIC	14	93%
Stryker	SIMPLEX ANTIBIOTIC	1	7%

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**Table 17(d)** Brands of low viscosity antibiotic bone cement used in hip procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		<b>1,097</b>	
Heraeus Medical	PALACOS LV&G ANTIBIOTIC	702	64%
DePuy	CMW3 ANTIBIOTIC LOADED CEMENT	258	24%
DePuy	SMARTSET ENDURANCE ANTIBIOTIC LOADED CEMENT	61	6%
Biomet	OSTEOPAL ANTIBIOTIC	46	4%
Biomet	REFOBACIN LV	30	3%

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**Table 17(e)** Brands of low viscosity antibiotic bone cement used in knee procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		<b>583</b>	
Heraeus Medical	PALACOS LV&G ANTIBIOTIC	315	54%
Biomet	REFOBACIN LV	210	36%
DePuy	CMW3 ANTIBIOTIC LOADED CEMENT	36	6%
Biomet	OSTEOPAL ANTIBIOTIC	21	4%
DePuy	SMARTSET ENDURANCE ANTIBIOTIC LOADED CEMENT	1	<1%

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**Table 17(f)** Brands of low viscosity antibiotic bone cement used in ankle procedures performed during 2010.

There were no ankle procedures where low viscosity antibiotic cement was used.

**Table 18(a)** Brands of regular or high viscosity non-antibiotic bone cement used in hip procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		<b>2,679</b>	
Stryker	SIMPLEX	1,088	41%
Heraeus Medical	PALACOS R	854	32%
DePuy	CMW2 PLAIN CEMENT	594	22%
DePuy	CMW1 PLAIN CEMENT	109	4%
DePuy	SMARTSET HV PLAIN CEMENT	34	1%

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**Table 18(b)** Brands of regular or high viscosity non-antibiotic bone cement used in knee procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		<b>2,616</b>	
Heraeus Medical	PALACOS R	2,169	83%
Stryker	SIMPLEX	218	8%
DePuy	CMW1 PLAIN CEMENT	90	3%
DePuy	SMARTSET HV PLAIN CEMENT	82	3%
DePuy	CMW2 PLAIN CEMENT	56	2%
Heraeus Medical	COPAL	1	<1%

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**Table 18(c)** Brands of regular or high viscosity non-antibiotic bone cement used in ankle procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		1	
Heraeus Medical	PALACOS R	1	100%

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**Table 18(d)** Brands of low viscosity non-antibiotic bone cement used in hip procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		30	
Corin	CORIPLAST	18	60%
Heraeus Medical	PALACOS LV	10	33%
Biomet	OSTEOPAL	2	7%

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**Table 18(e)** Brands of low viscosity non-antibiotic bone cement used in knee procedures performed during 2010.

Manufacturer	Brand	Number of procedures	%
		4	
DePuy	SMARTSET ENDURANCE PLAIN CEMENT	3	75%
Heraeus Medical	PALACOS LV	1	25%

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**Table 18(f)** Brands of low viscosity non-antibiotic bone cement used in ankle procedures performed during 2010.

There were no ankle procedures where low viscosity non-antibiotic cement was used.

## 5 Bone substitute use, 2010

Table 19 lists the manufacturers of bone substitutes for hip, knee and ankle procedures in 2010. Although the use of synthetic bone substitute remained relatively low, such products were reported as being used in 359 procedures during 2010, an increase compared with 2009 where bone graft was used in 287 procedures.

**Table 19** Brands of synthetic bone substitute used during 2010.

Manufacturer	Brand	Number of procedures	%
		287	
DePuy	GRAFTON	93	26%
Stryker	BONESAVE	57	16%
Surgicraft	SURGICRAFT	39	11%
Synthes	DBX	38	11%
ApaTech Products	APATECH BONE SUBSTITUTE	27	8%
Wright Medical UK Ltd	OSTEOSET	25	7%
Biocomposites	BIOCOMPOSITES	22	6%
Endo Plus (UK) Limited	ENDOPLUS BONE SUBSTITUTE	14	4%
Corin	BIOFUSE	10	3%
Exactech (UK) Ltd	OPTEFORM	8	2%
Joint Replacement Instrumentation Ltd	REPROS	6	2%
Synthes	SYNTHES BONE SUBSTITUTE	6	2%
Endo Plus (UK) Limited	ALLOGRAN (ENDOPLUS)	4	1%
Quadrant Medical Ltd	VITOSS	4	1%
DePuy	CONDUIT	3	1%
Osteotech Surgi C	ORTHOBLEND	2	1%
Endo Plus (UK) Limited	REGENAFIL	1	<1%

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