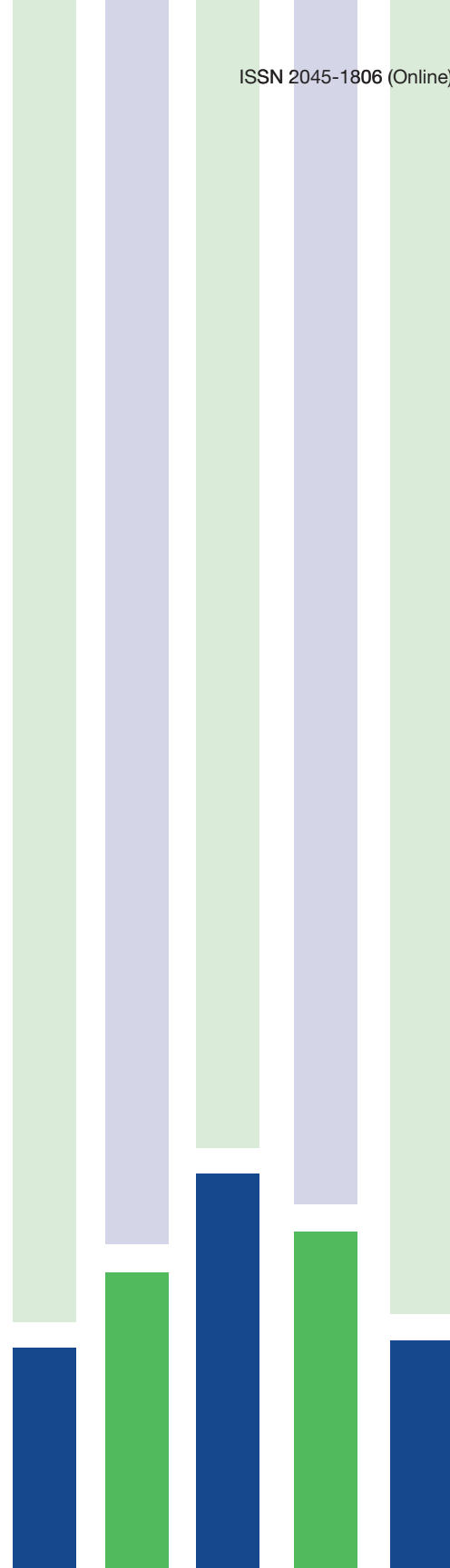




National Joint Registry
www.njrcentre.org.uk

Prostheses used in hip, knee and ankle replacement procedures 2011



**National Joint Registry
for England and Wales**

9th Annual Report

2012

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1 Prostheses used in hip procedures 2011

This section reports the numbers of prostheses implanted and reported to the NJR between 1 January and 31 December 2011.

The procedure counts in this section of the report may vary to the procedure counts in Part Two of the Annual Report. This section counts only those procedures where the implants being described have been used. Therefore, if a procedure has been submitted with missing implant information this will cause numbers to be different from Part Two.

1.1 Femoral head material and size

Table 1 shows the relative use of different modular and resurfacing femoral heads. The ratio of ceramic to metallic heads remains the same as in 2010.

Table 2 shows the frequency of the different femoral head sizes. The main changes compared with 2010 are a 3% increase in the use of large heads classified as greater than or equal to '36mm' and a 3% increase in the use of 32mm heads.

Table 1 Frequency of material chosen for femoral heads in procedures performed in 2011.

Material	Number of procedures	Number of modular femoral heads used	%
	79,771	76,706	
Ceramic		28,756	37%
Metal		47,950	63%

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Table 2 Frequency of femoral head sizes for procedures performed in 2011.

Head Size (mm)	Ceramic Cup/Liner	Ceramic Cup/Liner	Metal Cup/Liner	Metal Cup/Liner	Poly-ethylene Cup/Liner	Poly-ethylene Cup/Liner	Complete Articulation not defined	Number of procedures	% of procedures
	Ceramic Head	Metal Head	Ceramic Head	Metal Head	Ceramic Head	Metal Head			
								76,712	
22.25	<1%	0%	0%	0%	18%	73%	9%	1,196	2%
26	0%	0%	0%	0%	<1%	98%	2%	1,180	2%
28	6%	<1%	<1%	<1%	14%	78%	2%	29,362	38%
30	0%	0%	0%	0%	0%	100%	0%	30	<1%
32	25%	<1%	<1%	<1%	17%	57%	2%	20,534	27%
34	0%	0%	0%	0%	0%	0%	0%	0	0%
36	49%	<1%	1%	1%	11%	35%	2%	19,906	26%
38	0%	0%	50%	18%	0%	14%	18%	28	<1%
40	57%	<1%	<1%	1%	4%	34%	4%	1,955	3%
42	0%	0%	2%	84%	0%	5%	9%	55	0%
44	33%	0%	0%	19%	10%	34%	4%	447	1%
46	0%	0%	0%	92%	0%	1%	7%	198	<1%
48	17%	0%	<1%	80%	0%	1%	2%	423	1%
50	0%	0%	0%	98%	0%	0%	2%	630	1%
52	0%	0%	0%	99%	0%	0%	1%	412	1%
54+	0%	0%	0%	97%	0%	0%	3%	356	<1%

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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 2011, 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 2011.

Manufacturer	Brand	Number of procedures	%	ODEP rating
		24,349		
Stryker	Contemporary	8,246	34%	5A
DePuy	Elite Plus Ogee	3,094	13%	10A
DePuy	Elite Plus Cemented Cup	2,265	9%	10A
DePuy	Marathon	1,735	7%	3A
Stryker	Exeter Rimfit	1,459	6%	Unclassified
Stryker	Exeter Duration	1,327	5%	10A
Zimmer	ZCA	1,031	4%	10A
Smith & Nephew	Opera	913	4%	5B
Zimmer	Low Profile Muller	721	3%	Unclassified
DePuy	Charnley Ogee	647	3%	10A
DePuy	Charnley Cemented Cup	594	2%	10A
Biomet	Stanmore-Arcorn Cup	374	2%	10A
Mathys Orthopaedics Ltd	CCB Mathys	283	1%	10A
DePuy	Wroblewski Golf Ball	258	1%	5B
Corin	Cenator Cemented Cup	223	<1%	7A
Biomet	Apollo	193	<1%	Pre-Entry
Biomet	SHP Cup	190	<1%	5A
Joint Replacement Instrumentation Ltd	JRI Cemented Cup	149	<1%	Unclassified
B Braun / Aesculap	Chirulen	105	<1%	Unclassified
Waldemar Link	Interplanta	76	<1%	Unclassified
Zimmer	Zimmer Cemented Cup	69	<1%	10A
Smith & Nephew	Reflection Cemented	57	<1%	10A
Zimmer	Centerpulse Muller	44	<1%	Unclassified
Zimmer	Metasul-Muller	43	<1%	Unclassified
Orthodynamics	Novae Stick	41	<1%	10B
Waldemar Link	Link Flange Cup	40	<1%	Unclassified
Zimmer	Custom	32	<1%	Not ODEP rated product
Biomet	CMK Cemented Cup	19	<1%	Unclassified
Stryker	Restoration Gap2	16	<1%	Unclassified
Waldemar Link	Snap Fit	16	<1%	Unclassified
Biomet	Exceed ABT Cemented	15	<1%	Unclassified
Biomet	Avantage Cemented Cup	11	<1%	Unclassified
Smith & Nephew	Polarcup Cemented	11	<1%	Pre-Entry

Table 3(a) continued

Manufacturer	Brand	Number of procedures	%	ODEP rating
DePuy	Elite Plus Flanged	10	<1%	10A
Implants International	CCB	10	<1%	Unclassified
Implants International	Edinburgh Cup	10	<1%	Unclassified
Stryker	Custom	4	<1%	Not ODEP rated product
B Braun / Aesculap	Alfa Cemented Cup	3	<1%	Unclassified
DePuy	Ultima Cemented Cup	3	<1%	Discontinued
Endo Plus (UK) Limited	Polarcup Cemented	2	<1%	Pre-Entry
Symbios SA	PE	2	<1%	Unclassified
Zimmer	Longevity	2	<1%	Unclassified
Amplitude	Luna	1	<1%	Unclassified
Biomet	Custom	1	<1%	Not ODEP rated product
Corin	Hi-Nek Cemented Cup	1	<1%	Unclassified
DePuy	Charnley KS	1	<1%	Unclassified
Medacta UK Ltd	Cone Cup	1	<1%	Unclassified
Stryker	Gap Ring	1	<1%	Unclassified

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Table 3(b) Cemented cup brands for revision hip procedures performed during 2011.

Manufacturer	Brand	Number of procedures	%
		1,500	
Stryker	Contemporary	321	22%
DePuy	Marathon	216	14%
Stryker	Exeter Rimfit	184	12%
DePuy	Elite Plus Ogee	179	12%
DePuy	Elite Plus Cemented Cup	111	7%
Orthodynamics	Novae Stick	59	4%
Smith & Nephew	Opera	45	3%
DePuy	Wroblewski Golf Ball	38	3%
Biomet	Avantage Cemented Cup	36	2%
Stryker	Exeter Duration	36	2%
DePuy	Charnley Cemented Cup	35	2%
Corin	Cenator Cemented Cup	34	2%
Zimmer	Low Profile Muller	32	2%
Stryker	Restoration Gap2	32	2%
Zimmer	ZCA	32	2%
DePuy	Charnley Ogee	17	1%
Biomet	Stanmore-Arcom Cup	15	1%
Waldemar Link	Snap Fit	15	1%
Smith & Nephew	Reflection Cemented	9	<1%
Joint Replacement Instrumentation Ltd	JRI Cemented Cup	7	<1%
B Braun / Aesculap	Chirulen	6	<1%
Biomet	SHP Cup	5	<1%
DePuy	Elite Plus Flanged	5	<1%
Biomet	Apollo	4	<1%
Smith & Nephew	Polarcup Cemented	4	<1%
Stryker	Custom	4	<1%
Zimmer	Zimmer Cemented Cup	4	<1%
Waldemar Link	Interplanta	3	<1%
Zimmer	Custom	3	<1%
Biomet	Exceed ABT Cemented	2	<1%
Stryker	ODC	2	<1%
Biomet	Custom	1	<1%
Corin	Hi-Nek Cemented Cup	1	<1%
Endo Plus (UK) Limited	Polarcup Cemented	1	<1%
Implants International	Edinburgh Cup	1	<1%
Mathys Orthopaedics Ltd	CCB Mathys	1	<1%

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Table 4(a) Cementless cup brands for primary hip procedures performed during 2011.

Manufacturer	Brand	Number of procedures	%	ODEP rating
		44,222		
DePuy	Pinnacle	14,443	33%	7A
Stryker	Trident	8,422	19%	5A
Zimmer	Trilogy	3,733	8%	7A
Biomet	Exceed ABT	3,357	8%	3A
Joint Replacement Instrumentation Ltd	CSF Plus	3,084	7%	Pre-Entry
Zimmer	Continuum	1,401	3%	Pre-Entry
Corin	Trinity	1,036	2%	Pre-Entry
Smith & Nephew	R3 Cementless	956	2%	Pre-Entry
Joint Replacement Instrumentation Ltd	CSF	844	2%	10A
Wright Medical UK Ltd	Procotyl	835	2%	Pre-Entry
DePuy	DeltaMotion	555	1%	Pre-Entry
Zimmer	Allofit	534	1%	5A
Zimmer	Trabecular Metal Cementless Cup	494	1%	5A
B Braun / Aesculap	Plasmacup Cementless Cup	431	<1%	5A
Stryker	Tritanium	393	<1%	Pre-Entry
Smith & Nephew	Reflection Cementless	298	<1%	7A
DePuy	Duraloc Cementless Cup	285	<1%	10A
Lima	Delta TT	284	<1%	Unclassified
Endo Plus (UK) Limited	EP-Fit Plus	268	<1%	5A
Zimmer	FM IT	257	<1%	Unclassified
Lima	Lima/WG Revision Cup	232	<1%	Unclassified
Symbios SA	April	195	<1%	Unclassified
FH Orthopaedics	Atlas IIIIP	176	<1%	Unclassified
Medacta UK Ltd	Versafit	175	<1%	Pre-Entry
Stryker	ABG II Cementless Cup	165	<1%	7A
Mathys Orthopaedics Ltd	RM Mathys	139	<1%	10A
Biomet	Mallory-Head Cementless Cup	138	<1%	5A
Biomet	Exceed	127	<1%	5A
DePuy	Gyros	79	<1%	Unclassified
Endo Plus (UK) Limited	Bicon-Plus	79	<1%	10A
DePuy	Duraloc Option	76	<1%	10A
Zimmer	Allofit	74	<1%	5A
Mathys Orthopaedics Ltd	seleXys PC	72	<1%	Pre-Entry
Biomet	Avantage	69	<1%	10C
Biomet	Regenerex Ringloc+	48	<1%	Unclassified
Smith & Nephew	EPF-Plus	48	<1%	3A
Zimmer	Trilogy IT	44	<1%	Unclassified
Zimmer	CLS Cementless Cup	40	<1%	10A

Table 4(a) continued

Manufacturer	Brand	Number of procedures	%	ODEP rating
Joint Replacement Instrumentation Ltd	Furlong Threaded	37	<1%	10A
Exactech (UK) Ltd	Novation	23	<1%	Unclassified
Active Implants	Tribofit	22	<1%	Unclassified
Mathys Orthopaedics Ltd	seleXys TH	22	<1%	Pre-Entry
Orthodynamics	Novae	22	<1%	10B
Stryker	Secure Fit Cementless Cup	18	<1%	5A
Waldemar Link	Beta Cup	17	<1%	Unclassified
Biomet	M2A 38	16	<1%	Pre-Entry
Zimmer	CLS Cementless Cup	16	<1%	10A
Zimmer	Trabecular Metal Natural Cup	16	<1%	5A
Biomet	Universal	15	<1%	10A
Orthodynamics	Novae SF	13	<1%	10B
Biomet	Custom	11	<1%	Not ODEP rated product
Surgicraft	Split Cup	11	<1%	Unclassified
Exactech (UK) Ltd	Acumatch Cup	10	<1%	Unclassified
Lima	Lima Delta Revision	10	<1%	Unclassified
Amplitude	Saturne	7	<1%	3B
Zimmer	Fitmore	6	<1%	7B
Stryker	Restoration ADM Cup	5	<1%	Unclassified
Zimmer	MMC Cup	5	<1%	Unclassified
Endo Plus (UK) Limited	Polarcup Cementless	4	<1%	5A
Lima	DeltaMotion	4	<1%	Pre-Entry
Smith & Nephew	Polarcup Cementless	4	<1%	5A
Zimmer	Maxera	4	<1%	Unclassified
Mathys Orthopaedics Ltd	seleXys TPS	3	<1%	Pre-Entry
Orthodynamics	Sunfit	3	<1%	Unclassified
Smith & Nephew	Custom	3	<1%	Not ODEP rated product
Biomet	Regenerex Revision	2	<1%	Unclassified
Implants International	RM Cementless Cup (Implant International)	2	<1%	Unclassified
Wright Medical UK Ltd	Dynasty	2	<1%	Unclassified
Biomet	Ranawat/Burstein	1	<1%	Unclassified
Biomet	Ringloc	1	<1%	Unclassified
Euros	Sirius cementless cup	1	<1%	Unclassified

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Table 4(b) Cementless cup brands for revision hip procedures performed during 2011.

Manufacturer	Brand	Number of procedures	%
		4,850	
Zimmer	Trabecular Metal Cementless Cup	1,205	25%
DePuy	Pinnacle	868	18%
Stryker	Trident	548	11%
Stryker	Tritanium	404	8%
Zimmer	Continuum	297	6%
Zimmer	Trilogy	211	4%
Biomet	Regenerex Ringloc+	158	3%
Joint Replacement Instrumentation Ltd	CSF Plus	144	3%
Lima	Delta TT	142	3%
Lima	Lima/WG Revision Cup	142	3%
Lima	Lima Delta Revision	106	2%
Biomet	Exceed ABT	102	2%
Smith & Nephew	R3 Cementless	56	1%
Corin	Trinity	49	1%
Biomet	Mallory-Head Cementless Cup	41	<1%
B Braun / Aesculap	Plasmacup Cementless Cup	36	<1%
Joint Replacement Instrumentation Ltd	CSF	34	<1%
Wright Medical UK Ltd	Procotyl	27	<1%
Biomet	Avantage	24	<1%
Smith & Nephew	Reflection Cementless	22	<1%
Biomet	Regenerex Revision	21	<1%
Amplitude	Saturne	19	<1%
Mathys Orthopaedics Ltd	RM Mathys	19	<1%
Stryker	Secure Fit Cementless Cup	18	<1%
Biomet	Custom	17	<1%
DePuy	Gyros	16	<1%
Zimmer	Trabecular Metal Natural Cup	14	<1%
DePuy	DeltaMotion	13	<1%
Endo Plus (UK) Limited	EP-Fit Plus	13	<1%
DePuy	Duraloc Cementless Cup	11	<1%
Orthodynamics	Novae	10	<1%
Biomet	Exceed	6	<1%
FH Orthopaedics	Atlas IIIP	6	<1%
DePuy	Duraloc Option	5	<1%
Joint Replacement Instrumentation Ltd	JRI Revision Cup	4	<1%
Orthodynamics	Novae SF	4	<1%
Zimmer	Allofit	4	<1%
Zimmer	FM IT	4	<1%
Smith & Nephew	EPF-Plus	3	<1%
Biomet	Ranawat/Burstein	2	<1%

Table 4(b) continued

Manufacturer	Brand	Number of procedures	%
Exactech (UK) Ltd	Acumatch Cup	2	<1%
Joint Replacement Instrumentation Ltd	Furlong Threaded	2	<1%
Mathys Orthopaedics Ltd	seleXys PC	2	<1%
Smith & Nephew	Polarcup Cementless	2	<1%
Zimmer	Allofit	2	<1%
Biomet	Biomet CFR Peek	1	<1%
Biomet	Ringloc	1	<1%
DePuy	Octopus	1	<1%
Endo Plus (UK) Limited	MPF	1	<1%
Endo Plus (UK) Limited	Polarcup Cementless	1	<1%
Mathys Orthopaedics Ltd	seleXys TPS	1	<1%
Medacta UK Ltd	Versafit	1	<1%
Orthodynamics	Hilock	1	<1%
Orthodynamics	Novae Coptos	1	<1%
Orthodynamics	Sunfit	1	<1%
Stryker	ABG II Cementless Cup	1	<1%
Symbios SA	April	1	<1%
Waldemar Link	Top	1	<1%
Zimmer	CLS Cementless Cup	1	<1%
Zimmer	Fitmore	1	<1%

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Table 5(a) Cemented stem brands for primary hip procedures performed during 2011.

Manufacturer	Brand	Number of procedures	%	ODEP rating
		34,655		
Stryker	Exeter V40	22,314	64%	10A
Zimmer	CPT	4,137	12%	10A
DePuy	C-Stem AMT Cemented Stem	1,677	5%	5A
DePuy	C-Stem Cemented Stem	1,331	4%	10A
DePuy	Charnley Cemented Stem	1,217	4%	10A
Biomet	Stanmore Modular Stem	880	3%	10A
Zimmer	MS-30	426	1%	10B
Biomet	Muller-Biomet	333	<1%	5A
Smith & Nephew	CPCS	305	<1%	3A
Zimmer	Muller Str Stem	266	<1%	10A
Mathys Orthopaedics Ltd	CCA Cemented Stem	234	<1%	10A
Corin	Taperfit Cemented Stem	163	<1%	7B
DePuy	Charnley Modular	152	<1%	7A
Waldemar Link	SP II Cemented Stem	146	<1%	10A
Biomet	Olympia	137	<1%	5A
Joint Replacement Instrumentation Ltd	Furlong Cemented Stem	117	<1%	10C
Endo Plus (UK) Limited	CPS Plus	105	<1%	7A
Zimmer	MS-30	94	<1%	10B
B Braun / Aesculap	Excia-Cemented	91	<1%	Unclassified
Biomet	Taperloc Cemented Stem	88	<1%	3A
Smith & Nephew	Spectron	73	<1%	10A
B Braun / Aesculap	Centrament	60	<1%	Unclassified
Wright Medical UK Ltd	Profemur Cemented Stem	36	<1%	Pre-Entry
Zimmer	P10 Muller	34	<1%	10A
Stryker	Omnifit Cemented Stem	32	<1%	10A
DePuy	Corail Cemented	28	<1%	Pre-Entry
Zimmer	Kinectiv Cemented	24	<1%	Unclassified
Biomet	CMK Cemented Stem	21	<1%	3A
Zimmer	VerSys Heritage	20	<1%	Pre-Entry
Biomet	Bimetric Cemented (Ti)	19	<1%	10A
Zimmer	VerSys Cemented Stem	16	<1%	5A
Corin	Custom	11	<1%	Not ODEP rated product
Biomet	Bimetric Cemented (CoCr)	9	<1%	5A
Joint Replacement Instrumentation Ltd	Furlong Cemented Hemiarthroplasty	9	<1%	Unclassified
Implants International	Edinburgh	8	<1%	Unclassified
Waldemar Link	SP II Cemented Revision	7	<1%	Not ODEP rated product
DePuy	Summit Cemented Stem	5	<1%	3A
Stryker	Exeter	5	<1%	10A
Smith & Nephew	CPS Plus	3	<1%	7A

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Table 5(a) continued

Manufacturer	Brand	Number of procedures	%	ODEP rating
Smith & Nephew	Echelon Cemented Stem	3	<1%	Unclassified
B Braun / Aesculap	Trilliance	2	<1%	Unclassified
Joint Replacement Instrumentation Ltd	Custom	2	<1%	Not ODEP rated product
Biomet	Answer	1	<1%	Unclassified
Biomet	Stanmore Monobloc Stem	1	<1%	10A
Corin	CTI Cemented Stem	1	<1%	Unclassified
Corin	Hi-Nek Cemented Stem	1	<1%	Unclassified
DePuy	Response	1	<1%	Unclassified
DePuy	Ultima Collared Stem	1	<1%	Discontinued
DePuy	Wroblewski Resection	1	<1%	Unclassified
Finsbury	Freeman Cemented Finsbury	1	<1%	10C
Orthodynamics	Cannulok Cemented Stem	1	<1%	Unclassified
Orthodynamics	LMT	1	<1%	7B
Orthodynamics	Logic Cemented Stem	1	<1%	Unacceptable
Smith & Nephew	Custom	1	<1%	Not ODEP rated product
Stryker	Custom	1	<1%	Not ODEP rated product
Stryker	GMRS	1	<1%	Unclassified
Zimmer	Custom	1	<1%	Not ODEP rated product

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Table 5(b) Cemented stem brands for revision hip procedures performed during 2011.

Manufacturer	Brand	Number of procedures	%	Procedures using femoral bone graft
		2,360		83
Stryker	Exeter V40	1,505	63%	50
Zimmer	CPT	297	13%	7
DePuy	C-Stem Cemented Stem	199	8%	13
DePuy	C-Stem AMT Cemented Stem	86	4%	1
Biomet	Stanmore Modular Stem	48	2%	1
Waldemar Link	SP II Cemented Revision	20	<1%	1
Biomet	Muller-Biomet	18	<1%	0
Smith & Nephew	CPCS	15	<1%	0
Corin	Taperfit Cemented Stem	13	<1%	0
Joint Replacement Instrumentation Ltd	Furlong Cemented Stem	13	<1%	0
DePuy	Charnley Cemented Stem	12	<1%	0
B Braun / Aesculap	Prevision Cemented Stem	10	<1%	5
Waldemar Link	SP II Cemented Stem	10	<1%	2
Biomet	Taperloc Cemented Stem	9	<1%	0
DePuy	Charnley Modular	9	<1%	0
Zimmer	MS-30	9	<1%	0
Biomet	Arcos	8	<1%	0
Biomet	Olympia	5	<1%	0
DePuy	Corail Cemented	5	<1%	0
DePuy	Wroblewski Resection	5	<1%	0
Endo Plus (UK) Limited	CPS Plus	5	<1%	0
Smith & Nephew	Echelon Cemented Stem	5	<1%	1
Smith & Nephew	Spectron	5	<1%	0
Zimmer	Muller Str Stem	5	<1%	0
DePuy	Elite Plus Cemented Stem	4	<1%	1
Stryker	Omnifit Cemented Stem	4	<1%	0
B Braun / Aesculap	Excia-Cemented	3	<1%	0
Joint Replacement Instrumentation Ltd	Furlong Cemented Hemiarthroplasty	3	<1%	0
Wright Medical UK Ltd	Profemur Cemented Stem	3	<1%	0
Zimmer	P10 Muller	3	<1%	0
B Braun / Aesculap	Centrament	2	<1%	0
Finsbury	Freeman Cemented Finsbury	2	<1%	0
Joint Replacement Instrumentation Ltd	Furlong LOL	2	<1%	0
Stryker	GMRS	2	<1%	0
Stryker	Restoration Cemented Stem	2	<1%	0
Zimmer	Mem	2	<1%	0
Zimmer	MS-30	2	<1%	0
Biomet	Bimetric Cemented (CoCr)	1	<1%	0
Corin	Centrafix	1	<1%	0

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Table 5(b) continued

Manufacturer	Brand	Number of procedures	%	Procedures using femoral bone graft
Finsbury	Stemcup	1	<1%	0
Implants International	Edinburgh	1	<1%	0
Orthodynamics	Cannulok Cemented Stem	1	<1%	0
Orthodynamics	LMT	1	<1%	1
Sovereign Medical	Bicana	1	<1%	0
Zimmer	Kinectiv Cemented	1	<1%	0
Zimmer	Mayo Cemented Stem	1	<1%	0
Zimmer	ZMR Cemented Stem	1	<1%	0

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Table 6(a) Cementless stem brands for primary hip procedures performed during 2011.

Manufacturer	Brand	Number of procedures	%	ODEP rating
		33,367		
DePuy	Corail	15,829	47%	10A
Joint Replacement Instrumentation Ltd	Furlong HAC Stem	3,575	11%	10A
Stryker	Accolade	3,514	11%	7B
Biomet	Taperloc Cementless Stem	2,933	9%	10A
Zimmer	Versys Cementless Stem	975	3%	5A
Wright Medical UK Ltd	Profemur Cementless Stem	747	2%	Pre-Entry
Biomet	Bimetric Cementless Stem	490	1%	10A
DePuy	Trilock BPS	464	1%	Unclassified
Smith & Nephew	Polarstem Cementless	314	<1%	5A
Endo Plus (UK) Limited	SL-Plus Cementless Stem	310	<1%	10A
Corin	Metafix Stem	298	<1%	Pre-Entry
Smith & Nephew	Synergy Cementless Stem	296	<1%	5A
B Braun / Aesculap	Excia	285	<1%	5A
Corin	miniHip	273	<1%	Pre-Entry
Zimmer	CLS Cementless Stem	239	<1%	10A
Smith & Nephew	Anthology	226	<1%	3A
Medacta UK Ltd	Amis	213	<1%	Pre-Entry
Lima	H-Max	185	<1%	Unclassified
Zimmer	M/L Taper Cementless	166	<1%	3A
DePuy	S-Rom Cementless Stem	153	<1%	10A
Stryker	ABG II Cementless Stem	147	<1%	10B
Zimmer	M/L Taper	134	<1%	3A
Symbios SA	SPS	127	<1%	10C
Zimmer	CLS Cementless Stem	116	<1%	10A
Wright Medical UK Ltd	Ancafit Cementless Stem	106	<1%	7A
Smith & Nephew	SL-Plus Cementless Stem	101	<1%	10A
DePuy	Summit Cementless Stem	94	<1%	7A
Zimmer	ML	91	<1%	Unclassified
Stryker	Restoration Cementless Stem	87	<1%	Unclassified
Stryker	Omnifit Cementless Stem	72	<1%	10A
Smith & Nephew	Birmingham Head Resection Stem	69	<1%	Pre-Entry
Mathys Orthopaedics Ltd	CBC	63	<1%	3A
DePuy	Silent	52	<1%	Pre-Entry
Mathys Orthopaedics Ltd	Twinsys Cementless Stem	49	<1%	5B
Joint Replacement Instrumentation Ltd	Furlong HAC Active Stem	42	<1%	3A
Zimmer	Zweymuller	36	<1%	10A
Comis Orthopaedics	Amoda	34	<1%	Pre-Entry
Exactech (UK) Ltd	Novation Element Stem	29	<1%	Pre-Entry
Symbios SA	SPS Mark2	28	<1%	Unclassified
Zimmer	Trabecular Cementless Stem	25	<1%	Pre-Entry
DePuy	Corail Revision	23	<1%	10A
DePuy	Depuy Proxima	23	<1%	Pre-Entry
Zimmer	Fitmore Stem	23	<1%	Unclassified

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Table 6(a) continued

Manufacturer	Brand	Number of procedures	%	ODEP rating
Zimmer	Synergy Cementless Stem	22	<1%	7A
B Braun / Aesculap	Bicontact Cementless Stem	20	<1%	10A
Zimmer	ZMR	19	<1%	Unclassified
Zimmer	Revitan Cementless Stem	16	<1%	Unclassified
Joint Replacement Instrumentation Ltd	Furlong HAC Revision Stem	15	<1%	10C
Orthodynamics	Cannulok Cementless Stem	15	<1%	Unclassified
Symbios SA	Custom	15	<1%	Not ODEP rated product
Waldemar Link	CFP	15	<1%	Unclassified
FH Orthopaedics	FH Modular	14	<1%	Unclassified
Zimmer	Alloclassic Cementless Stem	14	<1%	10A
DePuy	Kar	13	<1%	Unclassified
Medacta UK Ltd	miniMax	9	<1%	Unclassified
Biomet	Mallory-Head Cementless Stem	8	<1%	10A
DePuy	Reef	8	<1%	Unclassified
Peter Brehm GmbH	Peter Brehm Revision Stem	8	<1%	Unclassified
Endo Plus (UK) Limited	SLR-Plus Cementless Stem	7	<1%	Unclassified
Waldemar Link	MP Revision	7	<1%	Not ODEP rated product
B Braun / Aesculap	Metha	6	<1%	3A
Implantcast GmbH	Implantcast Cementless Stem	6	<1%	Unclassified
Smith & Nephew	Echelon Cementless Stem	6	<1%	Unclassified
Symbios SA	Harmony	6	<1%	Unclassified
Corin	C Fit	5	<1%	Unclassified
Exactech (UK) Ltd	Novation Stem	5	<1%	Pre-Entry
Lima	Modulus	5	<1%	Unclassified
Mathys Orthopaedics Ltd	Mathys Revision Stem	5	<1%	Unclassified
Smith & Nephew	Custom	5	<1%	Not ODEP rated product
Smith & Nephew	Profemur Cementless Stem	5	<1%	Pre-Entry
Biomet	Conelock	4	<1%	Unclassified
DePuy	Solution Cementless Stem	4	<1%	Unclassified
Lima	Lima SL	4	<1%	Unclassified
Lima	Lima/WG Revision Stem	4	<1%	Unclassified
Zimmer	GMRS Cementless	4	<1%	Unclassified
Finsbury	LPR	2	<1%	Pre-Entry
Medacta UK Ltd	Quadra Cementless	2	<1%	3A
Biomet	Custom	1	<1%	Not ODEP rated product
Biomet	Reach	1	<1%	Unclassified
DePuy	AML	1	<1%	10A
DePuy	LPS	1	<1%	Unclassified
DePuy	Prodigy	1	<1%	Unclassified
Euros	Euros Cementless	1	<1%	Unclassified
Exactech (UK) Ltd	Acumatch M-Series Cementless	1	<1%	Unclassified
Surgicraft	ESOP	1	<1%	Unclassified

Table 6(b) Cementless stem brands for revision hip procedures performed during 2011.

Manufacturer	Brand	Number of procedures	%	Procedures using femoral bone graft
		2,482		186
Stryker	Restoration Cementless Stem	696	28%	49
DePuy	Corail	318	13%	15
Zimmer	ZMR	217	9%	21
Zimmer	Revitan Cementless Stem	92	4%	18
Lima	Lima/WG Revision Stem	80	3%	9
DePuy	Corail Revision	78	3%	10
Orthodynamics	Cannulok Cementless Stem	77	3%	8
DePuy	Reef	71	3%	7
DePuy	S-Rom Cementless Stem	66	3%	2
Zimmer	Versys Cementless Stem	66	3%	1
DePuy	Kar	57	2%	8
Stryker	Accolade	57	2%	1
Joint Replacement Instrumentation Ltd	Furlong HAC Stem	54	2%	1
Joint Replacement Instrumentation Ltd	Furlong HAC Revision Stem	47	2%	3
Biomet	Taperloc Cementless Stem	46	2%	1
DePuy	Solution Cementless Stem	43	2%	13
Waldemar Link	MP Revision	43	2%	5
Smith & Nephew	Echelon Cementless Stem	38	2%	2
Wright Medical UK Ltd	Profemur Cementless Stem	31	1%	1
Joint Replacement Instrumentation Ltd	Securus	29	1%	4
Smith & Nephew	Synergy Cementless Stem	24	<1%	1
Smith & Nephew	Anthology	22	<1%	0
Peter Brehm GmbH	Peter Brehm Revision Stem	20	<1%	0
Corin	Metafix Stem	19	<1%	0
Biomet	Arcos Cone	18	<1%	2
Biomet	Reach	17	<1%	0
Corin	miniHip	16	<1%	0
Biomet	Bimetric Cementless Stem	15	<1%	0
DePuy	Trilock BPS	13	<1%	0
Mathys Orthopaedics Ltd	Twinsys Cementless Stem	11	<1%	0
Lima	Modulus	10	<1%	0
Endo Plus (UK) Limited	SLR-Plus Cementless Stem	9	<1%	0
DePuy	Summit Cementless Stem	6	<1%	0
Smith & Nephew	Polarstem Cementless	5	<1%	0
Zimmer	GMRS Cementless	5	<1%	0
B Braun / Aesculap	Excia	4	<1%	0
Biomet	Conelock	4	<1%	1

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Table 6(b) continued

Manufacturer	Brand	Number of procedures	%	Procedures using femoral bone graft
Zimmer	CLS Cementless Stem	4	<1%	1
Zimmer	M/L Taper Cementless	4	<1%	0
Biomet	Mallory-Head Cementless Stem	3	<1%	1
DePuy	Depuy Proxima	3	<1%	0
Finsbury	Freeman Cementless	3	<1%	0
Smith & Nephew	MDF Modular	3	<1%	0
Zimmer	M/L Taper	3	<1%	0
Zimmer	ML	3	<1%	0
B Braun / Aesculap	Bicontact Cementless Stem	2	<1%	0
Corin	Oxford Universal Hip (Corin) Cementless Stem	2	<1%	1
DePuy	LPS	2	<1%	0
FH Orthopaedics	FH Modular	2	<1%	0
Lima	H-Max	2	<1%	0
Mathys Orthopaedics Ltd	Mathys Revision Stem	2	<1%	0
Smith & Nephew	SL-Plus Cementless Stem	2	<1%	0
Stryker	Omnifit Cementless Stem	2	<1%	0
Symbios SA	SPS	2	<1%	0
Zimmer	CLS Cementless Stem	2	<1%	0
Zimmer	Zweymuller	2	<1%	0
Corin	Alpha Fit	1	<1%	0
Corin	C Fit	1	<1%	0
DePuy	Prodigy	1	<1%	0
Endo Plus (UK) Limited	SL-Plus Cementless Stem	1	<1%	0
Lima	Lima SL	1	<1%	0
Mathys Orthopaedics Ltd	CBK	1	<1%	0
Medacta UK Ltd	Amis	1	<1%	0
Wright Medical UK Ltd	Ancafit Cementless Stem	1	<1%	0
Wright Medical UK Ltd	Guardian Cementless Stem	1	<1%	0
Zimmer	Synergy Cementless Stem	1	<1%	0

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Table 7 Brands of resurfacing heads for primary hip procedures performed during 2011.

Manufacturer	Brand	Number of procedures	%	ODEP rating
		1,801		
Smith & Nephew	BHR Resurfacing Head	1,032	57%	10A
Finsbury	Adept Resurfacing Head	289	16%	3A
Corin	Cormet 2000 Resurfacing Head	148	8%	5B
Biomet	Recap Resurfacing Head	130	7%	3A
Zimmer	Durom Resurfacing Head	81	4%	Pre-entry
Wright Medical UK Ltd	Conserve	46	3%	5A
Implantcast GmbH	Accis Resurfacing Head	40	2%	Unclassified
Van Straten Medical	Accis Resurfacing Head	17	<1%	Unclassified
Comis Orthopaedics	MIHR	13	<1%	Pre-entry
Stryker	Mitch TRH	5	<1%	Pre-entry

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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 to 217 in 2011.

Table 8 Brands of resurfacing cup used with a conventional stem for primary hip procedures performed during 2011.

Manufacturer	Brand	Number of procedures	%	ODEP rating
		217		
Smith & Nephew	BHR Resurfacing Cup	85	39%	10A
Biomet	Recap Magnum	62	29%	3A
Comis Orthopaedics	MIHR Cup	34	16%	Unclassified
Implantcast GmbH	Accis Resurfacing Cup	12	6%	Unclassified
Finsbury	Adept Resurfacing Cup	11	5%	3A
Zimmer	Durom Resurfacing Cup	5	2%	Pre-Entry
Corin	Cormet Prime	3	1%	Pre-Entry
Wright Medical UK Ltd	Conserve Plus Resurfacing Cup	3	1%	5A
Corin	Cormet 2000 Resurfacing Cup	1	<1%	5B
Stryker	Mitch TRH Cup	1	<1%	Pre-Entry

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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 68,321 hip primary replacement procedures in the 2011 data, both the cup and stem brand were known, and a total of 856

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 68,321 primary procedures 11,647 (17%) used ‘mixed and matched’ cup-stem combinations from different suppliers, approximately 2% less than in 2010. Of these mix and match procedures, where the complete articulation was available, 77% were metal-on-polyethylene, 15% were ceramic-on-polyethylene, 7% were ceramic-on-ceramic. For revision hip procedures 519 cup-stem combinations were used. The most common cup/stem combination was the Exeter V40 stem combined with the Trident cup.

Table 9(a) Cup-stem brand combinations for primary hip procedures performed during 2011.

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
				68,321		
DePuy	Pinnacle	DePuy	Corail	12,295	18%	No
Stryker	Contemporary	Stryker	Exeter V40	7,831	11%	No
Stryker	Trident	Stryker	Exeter V40	4,473	7%	No
Stryker	Trident	Stryker	Accolade	3,410	5%	No
Joint Replacement Instrumentation Ltd	CSF Plus	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	2,676	4%	No
Biomet	Exceed ABT	Biomet	Taperloc Cementless Stem	2,611	4%	No
DePuy	Elite Plus Ogee	Stryker	Exeter V40	1,849	3%	Yes
Zimmer	Trilogy	Zimmer	CPT	1,640	2%	No
Zimmer	Trilogy	Stryker	Exeter V40	1,375	2%	Yes
Stryker	Exeter Duration	Stryker	Exeter V40	1,315	2%	No
Stryker	Exeter Rimfit	Stryker	Exeter V40	1,253	2%	No
DePuy	Elite Plus Cemented Cup	Stryker	Exeter V40	993	1%	Yes
Zimmer	ZCA	Zimmer	CPT	965	1%	No
Joint Replacement Instrumentation Ltd	CSF	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	779	1%	No
DePuy	Marathon	DePuy	Corail	722	1%	No
DePuy	Pinnacle	Stryker	Exeter V40	618	<1%	Yes
Wright Medical UK Ltd	Procotyl	Wright Medical UK Ltd	Profemur Cementless Stem	587	<1%	No
DePuy	Elite Plus Cemented Cup	DePuy	C-Stem AMT Cemented Stem	555	<1%	No
DePuy	Charnley Cemented Cup	DePuy	Charnley Cemented Stem	534	<1%	No
DePuy	Charnley Ogee	DePuy	Charnley Cemented Stem	515	<1%	No
DePuy	Pinnacle	DePuy	C-Stem AMT Cemented Stem	447	<1%	No
Zimmer	Continuum	Zimmer	VerSys Cemented Stem	447	<1%	No
DePuy	DeltaMotion	DePuy	Corail	432	<1%	No
DePuy	Elite Plus Cemented Cup	DePuy	Corail	423	<1%	No
DePuy	Marathon	DePuy	C-Stem Cemented Stem	415	<1%	No
Zimmer	Continuum	Zimmer	CPT	415	<1%	No
Biomet	Exceed ABT	Biomet	Bimetric Cementless Stem	400	<1%	No
DePuy	Elite Plus Ogee	DePuy	C-Stem Cemented Stem	344	<1%	No
Biomet	Stanmore-Arcom Cup	Biomet	Stanmore Modular Stem	334	<1%	No
DePuy	Pinnacle	DePuy	Trilock BPS	331	<1%	No
DePuy	Elite Plus Ogee	Zimmer	CPT	311	<1%	Yes
Stryker	Tritanium	Stryker	Exeter V40	310	<1%	No
Zimmer	Low Profile Muller	Zimmer	MS-30	300	<1%	No

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Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Smith & Nephew	R3 Cementless	Smith & Nephew	Polarstem Cementless	298	<1%	No
Zimmer	Trilogy	DePuy	Corail	294	<1%	Yes
Smith & Nephew	Opera	Stryker	Exeter V40	292	<1%	Yes
DePuy	Marathon	DePuy	C-Stem AMT Cemented Stem	289	<1%	No
B Braun / Aesculap	Plasmacup Cementless Cup	B Braun / Aesculap	Excia	287	<1%	No
Corin	Trinity	Corin	Metafix Stem	286	<1%	No
DePuy	Marathon	Stryker	Exeter V40	280	<1%	Yes
Smith & Nephew	Opera	Smith & Nephew	CPCS	261	<1%	No
DePuy	Elite Plus Ogee	DePuy	C-Stem AMT Cemented Stem	244	<1%	No
Biomet	Exceed ABT	Stryker	Exeter V40	238	<1%	Yes
DePuy	Elite Plus Ogee	DePuy	Corail	237	<1%	No
Corin	Trinity	Corin	miniHip	232	<1%	No
Stryker	Trident	DePuy	Corail	228	<1%	Yes
Smith & Nephew	R3 Cementless	Smith & Nephew	Anthology	219	<1%	No
Corin	Trinity	DePuy	Corail	208	<1%	Yes
Mathys Orthopaedics Ltd	CCB Mathys	Mathys Orthopaedics Ltd	CCA Cemented Stem	207	<1%	No
Zimmer	Low Profile Muller	Zimmer	Muller Str Stem	204	<1%	No
Zimmer	FM IT	Zimmer	Versys Cementless Stem	200	<1%	No
DePuy	Wroblewski Golf Ball	DePuy	C-Stem Cemented Stem	198	<1%	No
Smith & Nephew	R3 Cementless	Smith & Nephew	Synergy Cementless Stem	190	<1%	No
Stryker	Contemporary	DePuy	Corail	174	<1%	Yes
Medacta UK Ltd	Versafit	Medacta UK Ltd	Amis	172	<1%	No
Corin	Cenator Cemented Cup	Stryker	Exeter V40	171	<1%	Yes
Biomet	Apollo	Biomet	Muller-Biomet	163	<1%	No
Zimmer	Trabecular Metal Cementless Cup	Zimmer	CPT	161	<1%	No
Lima	Delta TT	DePuy	Corail	159	<1%	Yes
Zimmer	Allofit	Zimmer	MS-30	159	<1%	No
DePuy	Pinnacle	Zimmer	CPT	154	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF Plus	Stryker	Exeter V40	154	<1%	Yes
Smith & Nephew	Reflection Cementless	Stryker	Exeter V40	152	<1%	Yes
Zimmer	Trilogy	Zimmer	CLS Cementless Stem	142	<1%	No
Smith & Nephew	EP-Fit Plus	Smith & Nephew	SL-Plus Cementless Stem	137	<1%	No
Smith & Nephew	Opera	DePuy	C-Stem Cemented Stem	132	<1%	Yes
Symbios SA	April	Symbios SA	SPS	127	<1%	No
DePuy	Elite Plus Cemented Cup	Biomet	Stanmore Modular Stem	125	<1%	Yes

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Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Lima	Delta TT	Lima	H-Max	124	<1%	No
Zimmer	Low Profile Muller	Biomet	Muller-Biomet	123	<1%	Yes
Zimmer	Allofit	Zimmer	Versys Cementless Stem	122	<1%	No
Lima	Lima/WG Revision Cup	Lima	H-Max	121	<1%	No
Smith & Nephew	R3 Cementless	Smith & Nephew	SL-Plus Cementless Stem	120	<1%	No
DePuy	Duraloc Cementless Cup	DePuy	Corail	113	<1%	No
Corin	Trinity	Zimmer	Versys Cementless Stem	110	<1%	Yes
Smith & Nephew	Opera	DePuy	Charnley Cemented Stem	109	<1%	Yes
Stryker	ABG II Cementless Cup	Stryker	Exeter V40	109	<1%	No
DePuy	Pinnacle	DePuy	S-Rom Cementless Stem	108	<1%	No
Stryker	Trident	Stryker	ABG II Cementless Stem	107	<1%	No
Wright Medical UK Ltd	Procotyl	Wright Medical UK Ltd	Ancafit Cementless Stem	107	<1%	No
Biomet	SHP Cup	Biomet	Stanmore Modular Stem	106	<1%	No
Zimmer	Trabecular Metal Cementless Cup	Stryker	Exeter V40	106	<1%	Yes
DePuy	Charnley Ogee	Stryker	Exeter V40	100	<1%	Yes
Lima	Lima/WG Revision Cup	DePuy	Corail	97	<1%	Yes
Smith & Nephew	Reflection Cementless	Smith & Nephew	Synergy Cementless Stem	97	<1%	No
DePuy	Duraloc Cementless Cup	Stryker	Exeter V40	95	<1%	Yes
Joint Replacement Instrumentation Ltd	Custom	Joint Replacement Instrumentation Ltd	Furlong Cemented Stem	95	<1%	No
Stryker	Contemporary	Zimmer	CPT	95	<1%	Yes
Zimmer	Allofit	Zimmer	CPT	95	<1%	No
DePuy	Elite Plus Cemented Cup	DePuy	Charnley Modular	89	<1%	No
Wright Medical UK Ltd	Procotyl	Stryker	Exeter V40	89	<1%	Yes
Smith & Nephew	EP-Fit Plus	Smith & Nephew	CPS Plus	81	<1%	No
Smith & Nephew	R3 Cementless	Stryker	Exeter V40	80	<1%	Yes
DePuy	Pinnacle	Biomet	Taperloc Cementless Stem	79	<1%	Yes
Zimmer	Allofit	Zimmer	CLS Cementless Stem	79	<1%	No
Zimmer	Continuum	Zimmer	M/L Taper	77	<1%	No
Zimmer	Trabecular Metal Cementless Cup	DePuy	Corail	77	<1%	Yes
Zimmer	Continuum	Zimmer	M/L Taper Cementless	76	<1%	No
DePuy	Pinnacle	DePuy	C-Stem Cemented Stem	74	<1%	No
FH Orthopaedics	Atlas IIIP	Corin	Taperfit Cemented Stem	74	<1%	Yes



Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Waldemar Link	Interplanta	Waldemar Link	SP II Cemented Stem	74	<1%	No
B Braun / Aesculap	Chirulen	B Braun / Aesculap	Excia-Cemented	73	<1%	No
Mathys Orthopaedics Ltd	RM Mathys	DePuy	Corail	72	<1%	Yes
Smith & Nephew	Bicon-Plus	Smith & Nephew	SL-Plus Cementless Stem	72	<1%	No
Zimmer	Trilogy	Zimmer	Versys Cementless Stem	70	<1%	No
DePuy	DeltaMotion	DePuy	Trilock BPS	69	<1%	No
Mathys Orthopaedics Ltd	CCB Mathys	DePuy	Corail	69	<1%	Yes
Smith & Nephew	BHR Resurfacing Cup	Smith & Nephew	Birmingham Head Resection Stem	67	<1%	No
Stryker	Trident	Stryker	Omnifit Cementless Stem	66	<1%	No
Zimmer	Continuum	Wright Medical UK Ltd	Profemur Cementless Stem	65	<1%	Yes
DePuy	Duraloc Option	DePuy	Corail	64	<1%	No
DePuy	Gyros	DePuy	C-Stem AMT Cemented Stem	63	<1%	No
Joint Replacement Instrumentation Ltd	CSF Plus	DePuy	Corail	62	<1%	Yes
Stryker	Tritanium	Stryker	Accolade	58	<1%	No
DePuy	Wroblewski Golf Ball	DePuy	Charnley Cemented Stem	56	<1%	No
Zimmer	CLS Cementless Cup	Zimmer	CLS Cementless Stem	56	<1%	No
Zimmer	Continuum	Zimmer	ML	56	<1%	No
Stryker	Trident	Stryker	Restoration Cementless Stem	55	<1%	No
Zimmer	Continuum	Biomet	Olympia	55	<1%	Yes
Biomet	Exceed	Biomet	Taperloc Cementless Stem	54	<1%	No
Smith & Nephew	Opera	DePuy	Corail	53	<1%	Yes
Biomet	Mallory-Head Cementless Cup	Biomet	Bimetric Cementless Stem	52	<1%	No
Biomet	Mallory-Head Cementless Cup	Stryker	Exeter V40	52	<1%	Yes
Biomet	Recap Magnum	Biomet	Taperloc Cementless Stem	51	<1%	No
DePuy	Elite Plus Ogee	DePuy	Summit Cementless Stem	51	<1%	No
Biomet	Exceed ABT	Biomet	Taperloc Cemented Stem	50	<1%	No
Zimmer	Trilogy	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	49	<1%	Yes
Corin	Trinity	Wright Medical UK Ltd	Profemur Cementless Stem	47	<1%	Yes

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Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	Pinnacle	DePuy	Silent	47	<1%	No
Smith & Nephew	EPF-Plus	Smith & Nephew	SL-Plus Cementless Stem	46	<1%	No
Zimmer	Continuum	Zimmer	CLS Cementless Stem	46	<1%	No
DePuy	Elite Plus Cemented Cup	DePuy	C-Stem Cemented Stem	45	<1%	No
Zimmer	Allofit	Zimmer	M/L Taper	45	<1%	No
Stryker	ABG II Cementless Cup	Stryker	ABG II Cementless Stem	44	<1%	No
Zimmer	Centerpulse Muller	Zimmer	Muller Str Stem	44	<1%	No
FH Orthopaedics	Atlas IIP	Stryker	Exeter V40	42	<1%	Yes
Zimmer	Metasul-Muller	Zimmer	CPT	42	<1%	No
Biomet	Avantage	Biomet	Taperloc Cementless Stem	41	<1%	No
DePuy	Pinnacle	DePuy	Summit Cementless Stem	41	<1%	No
Joint Replacement Instrumentation Ltd	CSF Plus	Joint Replacement Instrumentation Ltd	Furlong HAC Active Stem	41	<1%	No
Biomet	Exceed	Stryker	Exeter V40	40	<1%	Yes
Smith & Nephew	Reflection Cementless	Smith & Nephew	Spectron	40	<1%	No
Zimmer	Low Profile Muller	Zimmer	CPT	40	<1%	No
Zimmer	Trilogy	DePuy	Charnley Modular	40	<1%	Yes
Mathys Orthopaedics Ltd	seleXys PC	Mathys Orthopaedics Ltd	CBC	39	<1%	No
Smith & Nephew	Reflection Cemented	Stryker	Exeter V40	38	<1%	Yes
Corin	Trinity	Stryker	Exeter V40	37	<1%	Yes
Joint Replacement Instrumentation Ltd	Furlong Threaded	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	37	<1%	No
Zimmer	Allofit	Zimmer	M/L Taper Cementless	37	<1%	No
Zimmer	Continuum	Stryker	Exeter V40	35	<1%	Yes
Comis Orthopaedics	MIHR Cup	Comis Orthopaedics	Amoda	34	<1%	No
DePuy	Charnley Cemented Cup	Stryker	Exeter V40	33	<1%	Yes
Stryker	Exeter Rimfit	DePuy	Corail	33	<1%	Yes
Wright Medical UK Ltd	Procotyl	Wright Medical UK Ltd	Profemur Cemented Stem	33	<1%	No
Zimmer	ZCA	Stryker	Exeter V40	33	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Zimmer	Versys Cementless Stem	32	<1%	No
Biomet	Exceed ABT	Biomet	Stanmore Modular Stem	31	<1%	No
Biomet	SHP Cup	Biomet	Taperloc Cemented Stem	31	<1%	No
Zimmer	Low Profile Muller	Zimmer	P10 Muller	31	<1%	No



Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
B Braun / Aesculap	Plasmacup Cementless Cup	B Braun / Aesculap	Centrament	30	<1%	No
Biomet	Exceed	Biomet	Stanmore Modular Stem	30	<1%	No
DePuy	Duraloc Cementless Cup	DePuy	C-Stem Cemented Stem	30	<1%	No
DePuy	Duraloc Cementless Cup	Biomet	Olympia	29	<1%	Yes
Zimmer	Allofit	Zimmer	ML	29	<1%	No
DePuy	Charnley Ogee	DePuy	C-Stem Cemented Stem	28	<1%	No
Mathys Orthopaedics Ltd	seleXys PC	Mathys Orthopaedics Ltd	Twinsys Cementless Stem	28	<1%	No
Symbios SA	April	Symbios SA	SPS Mark2	28	<1%	No
Active Implants	Tribofit	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	26	<1%	Yes
B Braun / Aesculap	Chirulen	B Braun / Aesculap	Centrament	26	<1%	No
Biomet	Stanmore-Arcom Cup	Biomet	Taperloc Cementless Stem	26	<1%	No
Corin	Trinity	Corin	Taperfit Cemented Stem	26	<1%	No
Joint Replacement Instrumentation Ltd	Custom	Stryker	Exeter V40	26	<1%	Yes
Zimmer	FM IT	Zimmer	M/L Taper Cementless	26	<1%	No
Mathys Orthopaedics Ltd	RM Mathys	Smith & Nephew	SL-Plus Cementless Stem	25	<1%	Yes
DePuy	Charnley Cemented Cup	DePuy	C-Stem Cemented Stem	23	<1%	No
Stryker	Contemporary	Stryker	Accolade	23	<1%	No
Stryker	Trident	Biomet	Stanmore Modular Stem	23	<1%	Yes
B Braun / Aesculap	Plasmacup Cementless Cup	DePuy	Trilock BPS	22	<1%	Yes
DePuy	Pinnacle	Biomet	Muller-Biomet	22	<1%	Yes
DePuy	Pinnacle	DePuy	Corail Cemented	22	<1%	No
Waldemar Link	Link Flange Cup	Waldemar Link	SP II Cemented Stem	22	<1%	No
Zimmer	FM IT	Zimmer	CPT	22	<1%	No
Biomet	SHP Cup	Zimmer	CPT	21	<1%	Yes
Stryker	Trident	Corin	miniHip	21	<1%	Yes
Zimmer	Zimmer Cemented Cup	Biomet	Muller-Biomet	21	<1%	Yes
Exactech (UK) Ltd	Novation	Exactech (UK) Ltd	Novation Element Stem	20	<1%	No
Mathys Orthopaedics Ltd	seleXys TH	Mathys Orthopaedics Ltd	CBC	20	<1%	No
Smith & Nephew	Opera	Smith & Nephew	Spectron	20	<1%	No

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Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
B Braun / Aesculap	Plasmacup Cementless Cup	B Braun / Aesculap	Bicontact Cementless Stem	19	<1%	No
B Braun / Aesculap	Plasmacup Cementless Cup	B Braun / Aesculap	Excia-Cemented	19	<1%	No
Biomet	CMK Cemented Cup	Biomet	CMK Cemented Stem	19	<1%	No
Corin	Cenator Cemented Cup	Smith & Nephew	CPS Plus	19	<1%	Yes
DePuy	Pinnacle	DePuy	Depuy Proxima	19	<1%	No
Joint Replacement Instrumentation Ltd	CSF Plus	Zimmer	CPT	19	<1%	Yes
Zimmer	Allofit	Zimmer	Fitmore Stem	19	<1%	No
Zimmer	Continuum	DePuy	Corail	19	<1%	Yes
Zimmer	Trilogy IT	Zimmer	CLS Cementless Stem	19	<1%	No
B Braun / Aesculap	Plasmacup Cementless Cup	Stryker	Exeter V40	18	<1%	Yes
Corin	Trinity	Biomet	Olympia	18	<1%	Yes
DePuy	DeltaMotion	DePuy	C-Stem AMT Cemented Stem	18	<1%	No
Lima	Delta TT	Stryker	Exeter V40	18	<1%	Yes
Waldemar Link	Link Flange Cup	Stryker	Exeter V40	18	<1%	Yes
Zimmer	Custom	Zimmer	CPT	18	<1%	No
Zimmer	Trabecular Metal Cementless Cup	DePuy	C-Stem Cemented Stem	18	<1%	Yes
Zimmer	Trilogy	Zimmer	Zweymuller	18	<1%	No
DePuy	Elite Plus Ogee	Biomet	Stanmore Modular Stem	17	<1%	Yes
FH Orthopaedics	Atlas IIP	Corin	miniHip	17	<1%	Yes
Mathys Orthopaedics Ltd	RM Mathys	Mathys Orthopaedics Ltd	Twinsys Cementless Stem	17	<1%	No
Symbios SA	April	Symbios SA	Custom	17	<1%	No
Zimmer	Continuum	Zimmer	Kinectiv Cemented	17	<1%	No
Biomet	Regenerex Ringloc+	Biomet	Taperloc Cementless Stem	16	<1%	No
DePuy	Pinnacle	Biomet	Stanmore Modular Stem	16	<1%	Yes
Biomet	Avantage	DePuy	C-Stem AMT Cemented Stem	15	<1%	Yes
Biomet	M2A 38	Biomet	Bimetric Cementless Stem	15	<1%	No
Smith & Nephew	EP-Fit Plus	Stryker	Exeter V40	15	<1%	Yes
Zimmer	Trilogy	Biomet	Stanmore Modular Stem	15	<1%	Yes
Zimmer	Trilogy	Zimmer	MS-30	15	<1%	No
DePuy	Duraloc Cementless Cup	Wright Medical UK Ltd	Profemur Cementless Stem	14	<1%	Yes
Orthodynamics	Novae Stick	Stryker	Exeter V40	14	<1%	Yes



Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Stryker	Restoration Gap2	Stryker	Exeter V40	14	<1%	No
Waldemar Link	Beta Cup	Waldemar Link	SP II Cemented Stem	14	<1%	No
Zimmer	Trilogy	Corin	Taperfit Cemented Stem	14	<1%	Yes
Zimmer	Zimmer Cemented Cup	Corin	Taperfit Cemented Stem	14	<1%	Yes
Biomet	SHP Cup	Biomet	Taperloc Cementless Stem	13	<1%	No
Biomet	Universal	Biomet	Bimetric Cementless Stem	13	<1%	No
DePuy	Elite Plus Cemented Cup	Biomet	Taperloc Cementless Stem	13	<1%	Yes
DePuy	Marathon	Biomet	Taperloc Cementless Stem	13	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	DePuy	Corail	13	<1%	Yes
Orthodynamics	Novae Stick	Zimmer	CPT	13	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Zimmer	Zweymuller	13	<1%	No
Zimmer	Trilogy IT	Zimmer	CPT	13	<1%	No
DePuy	Gyros	DePuy	Corail	12	<1%	No
Joint Replacement Instrumentation Ltd	Custom	Zimmer	Muller Str Stem	12	<1%	Yes
Mathys Orthopaedics Ltd	RM Mathys	Mathys Orthopaedics Ltd	CCA Cemented Stem	12	<1%	No
Smith & Nephew	Reflection Cemented	Smith & Nephew	Polarstem Cementless	12	<1%	No
Stryker	Secure Fit Cementless Cup	Stryker	Exeter V40	12	<1%	No
Zimmer	Continuum	Zimmer	Synergy Cementless Stem	12	<1%	No
Zimmer	Continuum	Zimmer	Trabecular Cementless Stem	12	<1%	No
Zimmer	Custom	Stryker	Exeter V40	12	<1%	Yes
Biomet	Apollo	Biomet	Olympia	11	<1%	No
Biomet	Regenerex Ringloc+	Biomet	Stanmore Modular Stem	11	<1%	No
Corin	Trinity	Zimmer	CPT	11	<1%	Yes
FH Orthopaedics	Atlas IIIP	Zimmer	CPT	11	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	Waldemar Link	SP II Cemented Stem	11	<1%	Yes
Smith & Nephew	EP-Fit Plus	Waldemar Link	CFP	11	<1%	Yes
Smith & Nephew	Polarcup Cemented	Smith & Nephew	CPCS	11	<1%	No
Wright Medical UK Ltd	Procotyl	Zimmer	CPT	11	<1%	Yes
Corin	Cenator Cemented Cup	Wright Medical UK Ltd	Profemur Cementless Stem	10	<1%	Yes
Corin	Trinity	DePuy	Trilock BPS	10	<1%	Yes

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Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Corin	Trinity	Zimmer	VerSys Heritage	10	<1%	Yes
DePuy	Pinnacle	Zimmer	MS-30	10	<1%	Yes
Implants International	CCB	Mathys Orthopaedics Ltd	CCA Cemented Stem	10	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF Plus	Joint Replacement Instrumentation Ltd	Furlong Cemented Stem	10	<1%	No
Smith & Nephew	R3 Cementless	Smith & Nephew	Spectron	10	<1%	No
Waldemar Link	Snap Fit	Waldemar Link	SP II Cemented Stem	10	<1%	No
Zimmer	Trilogy	DePuy	Trilock BPS	10	<1%	Yes
Biomet	Apollo	Biomet	Taperloc Cementless Stem	9	<1%	No
Biomet	Avantage Cemented Cup	Stryker	Exeter V40	9	<1%	Yes
Biomet	Exceed ABT	Zimmer	CPT	9	<1%	Yes
Biomet	Mallory-Head Cementless Cup	Zimmer	CPT	9	<1%	Yes
Biomet	SHP Cup	Biomet	Bimetric Cemented (Ti)	9	<1%	No
DePuy	DeltaMotion	DePuy	S-Rom Cementless Stem	9	<1%	No
DePuy	Pinnacle	Wright Medical UK Ltd	Profemur Cementless Stem	9	<1%	Yes
FH Orthopaedics	Atlas IIP	Corin	Custom	9	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	Stryker	Exeter V40	9	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF Plus	Joint Replacement Instrumentation Ltd	Furlong HAC Revision Stem	9	<1%	No
Lima	Lima/WG Revision Cup	Zimmer	CPT	9	<1%	Yes
Orthodynamics	Novae	Stryker	Exeter V40	9	<1%	Yes
Smith & Nephew	Opera	Zimmer	CPT	9	<1%	Yes
Stryker	ABG II Cementless Cup	Stryker	Accolade	9	<1%	No
Stryker	Trident	DePuy	C-Stem AMT Cemented Stem	9	<1%	Yes
Surgicraft	Split Cup	Corin	Taperfit Cemented Stem	9	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Stryker	Restoration Cementless Stem	9	<1%	Yes
Zimmer	Trilogy	Corin	Metafix Stem	9	<1%	Yes
Zimmer	Trilogy	Stryker	Omnifit Cemented Stem	9	<1%	Yes
Zimmer	Trilogy	Zimmer	M/L Taper Cementless	9	<1%	No
Zimmer	Zimmer Cemented Cup	Stryker	Exeter V40	9	<1%	Yes
Biomet	Mallory-Head Cementless Cup	Biomet	Bimetric Cemented (Ti)	8	<1%	No
Corin	Cenator Cemented Cup	Smith & Nephew	CPCS	8	<1%	Yes



Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Corin	Trinity	Zimmer	M/L Taper Cementless	8	<1%	Yes
DePuy	Elite Plus Ogee	Biomet	Taperloc Cementless Stem	8	<1%	Yes
DePuy	Pinnacle	DePuy	Corail Revision	8	<1%	No
DePuy	Pinnacle	DePuy	Kar	8	<1%	No
Exactech (UK) Ltd	Acumatch Cup	Exactech (UK) Ltd	Novation Element Stem	8	<1%	No
FH Orthopaedics	Atlas IIP	FH Orthopaedics	FH Modular	8	<1%	No
Finsbury	Adept Resurfacing Cup	Zimmer	CLS Cementless Stem	8	<1%	Yes
Implants International	Edinburgh Cup	Implants International	Edinburgh	8	<1%	No
Joint Replacement Instrumentation Ltd	Custom	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	8	<1%	No
Orthodynamics	Novae	Zimmer	CPT	8	<1%	Yes
Smith & Nephew	EP-Fit Plus	Smith & Nephew	Polarstem Cementless	8	<1%	No
Zimmer	Continuum	Zimmer	MS-30	8	<1%	No
Zimmer	Trilogy	Zimmer	Alloclassic Cementless Stem	8	<1%	No
B Braun / Aesculap	Plasmacup Cementless Cup	B Braun / Aesculap	Metha	7	<1%	No
Corin	Trinity	Waldemar Link	SP II Cemented Stem	7	<1%	Yes
Corin	Trinity	Zimmer	Trabecular Cementless Stem	7	<1%	Yes
DePuy	Elite Plus Cemented Cup	Zimmer	CPT	7	<1%	Yes
DePuy	Elite Plus Flanged	Stryker	Exeter V40	7	<1%	Yes
Lima	Lima/WG Revision Cup	Stryker	Exeter V40	7	<1%	Yes
Orthodynamics	Novae SF	Stryker	Exeter V40	7	<1%	Yes
Orthodynamics	Novae Stick	DePuy	C-Stem Cemented Stem	7	<1%	Yes
Smith & Nephew	Opera	Smith & Nephew	CPS Plus	7	<1%	No
Smith & Nephew	Opera	Smith & Nephew	Polarstem Cementless	7	<1%	No
Stryker	Exeter Duration	DePuy	Corail	7	<1%	Yes
Stryker	Exeter Rimfit	Stryker	Omnifit Cemented Stem	7	<1%	No
Zimmer	Continuum	Zimmer	VerSys Heritage	7	<1%	No
Zimmer	Fitmore	Zimmer	MS-30	7	<1%	No
Zimmer	Trabecular Metal Cementless Cup	DePuy	S-Rom Cementless Stem	7	<1%	Yes
Biomet	Apollo	DePuy	Corail	6	<1%	Yes
Biomet	Exceed ABT Cemented	Biomet	Stanmore Modular Stem	6	<1%	No

Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Biomet	Recap Magnum	Biomet	Bimetric Cementless Stem	6	<1%	No
DePuy	Duraloc Option	DePuy	C-Stem Cemented Stem	6	<1%	No
DePuy	Elite Plus Cemented Cup	Stryker	Accolade	6	<1%	Yes
DePuy	Elite Plus Ogee	DePuy	Charney Modular	6	<1%	No
DePuy	Elite Plus Ogee	Stryker	Omnifit Cementless Stem	6	<1%	Yes
DePuy	Marathon	DePuy	Trilock BPS	6	<1%	No
DePuy	Pinnacle	Orthodynamics	Cannulok Cementless Stem	6	<1%	Yes
DePuy	Pinnacle	Smith & Nephew	CPCS	6	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	Joint Replacement Instrumentation Ltd	Furlong Cemented Stem	6	<1%	No
Joint Replacement Instrumentation Ltd	CSF Plus	Joint Replacement Instrumentation Ltd	Furlong Cemented Hemiarthroplasty	6	<1%	No
Joint Replacement Instrumentation Ltd	Custom	Zimmer	MS-30	6	<1%	Yes
Lima	Lima/WG Revision Cup	DePuy	S-Rom Cementless Stem	6	<1%	Yes
Smith & Nephew	BHR Resurfacing Cup	Smith & Nephew	SL-Plus Cementless Stem	6	<1%	No
Smith & Nephew	Opera	DePuy	C-Stem AMT Cemented Stem	6	<1%	Yes
Smith & Nephew	Polarcup Cementless	Smith & Nephew	CPCS	6	<1%	No
Smith & Nephew	Reflection Cementless	Smith & Nephew	Anthology	6	<1%	No
Stryker	Contemporary	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	6	<1%	Yes
Stryker	Exeter Rimfit	Stryker	Accolade	6	<1%	No
Stryker	Restoration ADM Cup	Zimmer	Versys Cementless Stem	6	<1%	Yes
Stryker	Trident	Stryker	Omnifit Cemented Stem	6	<1%	No
Stryker	Tritanium	Stryker	ABG II Cementless Stem	6	<1%	No
Symbios SA	April	Symbios SA	Harmony	6	<1%	No
Zimmer	Trabecular Metal Cementless Cup	Zimmer	ZMR	6	<1%	No
Zimmer	Trabecular Metal Natural Cup	Corin	Taperfit Cemented Stem	6	<1%	Yes
Zimmer	Zimmer Cemented Cup	Corin	miniHip	6	<1%	Yes
Zimmer	Zimmer Cemented Cup	Zimmer	MS-30	6	<1%	No
Zimmer	Zimmer Cemented Cup	Zimmer	Muller Str Stem	6	<1%	No
Biomet	Exceed ABT	Biomet	Bimetric Cemented (Ti)	5	<1%	No
Biomet	Exceed ABT Cemented	DePuy	Corail	5	<1%	Yes



Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Biomet	Mallory-Head Cementless Cup	DePuy	C-Stem AMT Cemented Stem	5	<1%	Yes
Biomet	Regenerex Ringloc+	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	5	<1%	Yes
Biomet	SHP Cup	Biomet	Bimetric Cementless Stem	5	<1%	No
Biomet	Stanmore-Arcom Cup	Biomet	Bimetric Cementless Stem	5	<1%	No
Corin	Cenator Cemented Cup	DePuy	Corail	5	<1%	Yes
Corin	Trinity	Zimmer	Kinectiv Cemented	5	<1%	Yes
Implantcast GmbH	Accis Resurfacing Cup	Implantcast GmbH	Implantcast Cementless Stem	5	<1%	No
Mathys Orthopaedics Ltd	RM Mathys	Stryker	Exeter V40	5	<1%	Yes
Medacta UK Ltd	Versafit	Medacta UK Ltd	miniMax	5	<1%	No
Smith & Nephew	BHR Resurfacing Cup	Smith & Nephew	Anthology	5	<1%	No
Smith & Nephew	R3 Cementless	Smith & Nephew	Custom	5	<1%	No
Stryker	Contemporary	Stryker	Restoration Cementless Stem	5	<1%	No
Stryker	Exeter Rimfit	Zimmer	CPT	5	<1%	Yes
Stryker	Restoration ADM Cup	DePuy	Corail	5	<1%	Yes
Stryker	Tritanium	Stryker	Restoration Cementless Stem	5	<1%	No
Zimmer	Allofit	Zimmer	Synergy Cementless Stem	5	<1%	No
Zimmer	Low Profile Muller	DePuy	Corail	5	<1%	Yes
Zimmer	Low Profile Muller	Stryker	Exeter V40	5	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Corin	Taperfit Cemented Stem	5	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Stryker	Accolade	5	<1%	Yes
Zimmer	Trilogy	DePuy	C-Stem Cemented Stem	5	<1%	Yes
Zimmer	Trilogy	Zimmer	ZMR	5	<1%	No
Zimmer	Trilogy IT	Biomet	Olympia	5	<1%	Yes
Amplitude	Saturne	DePuy	Corail	4	<1%	Yes
B Braun / Aesculap	Plasmacup Cementless Cup	DePuy	S-Rom Cementless Stem	4	<1%	Yes
Biomet	Apollo	Biomet	Bimetric Cemented (CoCr)	4	<1%	No
Biomet	Avantage	DePuy	Corail	4	<1%	Yes
Biomet	Exceed ABT	Biomet	Olympia	4	<1%	No
Biomet	Exceed ABT	DePuy	Corail	4	<1%	Yes
Corin	Trinity	Stryker	Accolade	4	<1%	Yes
Corin	Trinity	Zimmer	M/L Taper	4	<1%	Yes
DePuy	DeltaMotion	DePuy	Silent	4	<1%	No
DePuy	Duraloc Option	Wright Medical UK Ltd	Profemur Cementless Stem	4	<1%	Yes

Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	Marathon	DePuy	Charney Modular	4	<1%	No
Joint Replacement Instrumentation Ltd	CSF	Joint Replacement Instrumentation Ltd	Furlong HAC Revision Stem	4	<1%	No
Joint Replacement Instrumentation Ltd	CSF Plus	DePuy	S-Rom Cementless Stem	4	<1%	Yes
Lima	Delta TT	Lima	Modulus	4	<1%	No
Lima	DeltaMotion	Zimmer	CPT	4	<1%	Yes
Lima	Lima Delta Revision	DePuy	Corail	4	<1%	Yes
Lima	Lima/WG Revision Cup	DePuy	Trilock BPS	4	<1%	Yes
Lima	Lima/WG Revision Cup	Lima	Lima SL	4	<1%	No
Mathys Orthopaedics Ltd	RM Mathys	Smith & Nephew	SLR-Plus Cementless Stem	4	<1%	Yes
Orthodynamics	Novae SF	Zimmer	CPT	4	<1%	Yes
Smith & Nephew	R3 Cementless	Smith & Nephew	Profemur Cementless Stem	4	<1%	No
Stryker	Custom	Stryker	Exeter V40	4	<1%	No
Stryker	Trident	Biomet	Taperloc Cementless Stem	4	<1%	Yes
Symbios SA	April	Zimmer	CPT	4	<1%	Yes
Zimmer	Continuum	Zimmer	Zweymuller	4	<1%	No
Zimmer	Durom Resurfacing Cup	Zimmer	CLS Cementless Stem	4	<1%	No
Zimmer	FM IT	Zimmer	M/L Taper	4	<1%	No
Zimmer	Trabecular Metal Cementless Cup	Zimmer	M/L Taper Cementless	4	<1%	No
Zimmer	ZCA	Biomet	Olympia	4	<1%	Yes
B Braun / Aesculap	Alfa Cemented Cup	Smith & Nephew	SL-Plus Cementless Stem	3	<1%	Yes
Biomet	Avantage	Stryker	Exeter V40	3	<1%	Yes
Biomet	Avantage	Zimmer	CPT	3	<1%	Yes
Biomet	Custom	Biomet	Stanmore Modular Stem	3	<1%	No
Biomet	Exceed ABT	DePuy	S-Rom Cementless Stem	3	<1%	Yes
Biomet	Mallory-Head Cementless Cup	Biomet	Stanmore Modular Stem	3	<1%	No
Biomet	Mallory-Head Cementless Cup	Biomet	Taperloc Cementless Stem	3	<1%	No
Biomet	Mallory-Head Cementless Cup	Waldemar Link	SP II Cemented Stem	3	<1%	Yes
Biomet	Recap Magnum	Biomet	Stanmore Modular Stem	3	<1%	No
Biomet	SHP Cup	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	3	<1%	Yes
Biomet	Stanmore-Arcom Cup	Joint Replacement Instrumentation Ltd	Furlong Cemented Stem	3	<1%	Yes



Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Corin	Cenator Cemented Cup	DePuy	Charnley Cemented Stem	3	<1%	Yes
Corin	Trinity	Zimmer	Synergy Cementless Stem	3	<1%	Yes
Corin	Trinity	Zimmer	VerSys Cemented Stem	3	<1%	Yes
DePuy	Charnley Cemented Cup	DePuy	Charnley Modular	3	<1%	No
DePuy	Charnley Cemented Cup	Zimmer	CPT	3	<1%	Yes
DePuy	DeltaMotion	DePuy	Depuy Proxima	3	<1%	No
DePuy	DeltaMotion	Smith & Nephew	Synergy Cementless Stem	3	<1%	Yes
DePuy	Duraloc Option	DePuy	S-Rom Cementless Stem	3	<1%	No
DePuy	Duraloc Option	DePuy	Summit Cementless Stem	3	<1%	No
DePuy	Elite Plus Cemented Cup	Biomet	Taperloc Cemented Stem	3	<1%	Yes
DePuy	Elite Plus Cemented Cup	DePuy	Trilock BPS	3	<1%	No
DePuy	Elite Plus Cemented Cup	Smith & Nephew	SL-Plus Cementless Stem	3	<1%	Yes
DePuy	Elite Plus Ogee	Stryker	Accolade	3	<1%	Yes
DePuy	Pinnacle	DePuy	Charnley Modular	3	<1%	No
DePuy	Pinnacle	Zimmer	Versys Cementless Stem	3	<1%	Yes
DePuy	Ultima Cemented Cup	Stryker	Exeter V40	3	<1%	Yes
DePuy	Wroblewski Golf Ball	DePuy	Charnley Modular	3	<1%	No
Exactech (UK) Ltd	Novation	Exactech (UK) Ltd	Novation Stem	3	<1%	No
FH Orthopaedics	Atlas IIP	Zimmer	Revitan Cementless Stem	3	<1%	Yes
Implantcast GmbH	Accis Resurfacing Cup	Corin	Metafix Stem	3	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF Plus	Biomet	Taperloc Cementless Stem	3	<1%	Yes
Lima	Delta TT	Lima	Lima/WG Revision Stem	3	<1%	No
Lima	Lima/WG Revision Cup	Stryker	Accolade	3	<1%	Yes
Mathys Orthopaedics Ltd	seleXys PC	Mathys Orthopaedics Ltd	CCA Cemented Stem	3	<1%	No
Mathys Orthopaedics Ltd	seleXys TPS	Mathys Orthopaedics Ltd	CBC	3	<1%	No
Orthodynamics	Novae Stick	Biomet	Taperloc Cementless Stem	3	<1%	Yes
Orthodynamics	Sunfit	Stryker	Exeter V40	3	<1%	Yes
Smith & Nephew	BHR Resurfacing Cup	DePuy	Corail	3	<1%	Yes
Smith & Nephew	BHR Resurfacing Cup	Smith & Nephew	Synergy Cementless Stem	3	<1%	No
Smith & Nephew	Custom	Stryker	Exeter V40	3	<1%	Yes
Smith & Nephew	EP-Fit Plus	Waldemar Link	SP II Cemented Stem	3	<1%	Yes

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Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Smith & Nephew	R3 Cementless	Biomet	Taperloc Cementless Stem	3	<1%	Yes
Stryker	Contemporary	DePuy	C-Stem AMT Cemented Stem	3	<1%	Yes
Stryker	Contemporary	DePuy	Summit Cemented Stem	3	<1%	Yes
Stryker	Contemporary	Joint Replacement Instrumentation Ltd	Furlong Cemented Stem	3	<1%	Yes
Stryker	Contemporary	Stryker	Omnifit Cemented Stem	3	<1%	No
Stryker	Contemporary	Wright Medical UK Ltd	Profemur Cementless Stem	3	<1%	Yes
Stryker	Exeter Rimfit	Corin	Taperfit Cemented Stem	3	<1%	Yes
Stryker	Exeter Rimfit	DePuy	Charnley Cemented Stem	3	<1%	Yes
Stryker	Exeter Rimfit	Stryker	Restoration Cementless Stem	3	<1%	No
Stryker	Trident	DePuy	C-Stem Cemented Stem	3	<1%	Yes
Stryker	Trident	DePuy	Trilock BPS	3	<1%	Yes
Stryker	Trident	Zimmer	CPT	3	<1%	Yes
Stryker	Tritanium	DePuy	Corail	3	<1%	Yes
Stryker	Tritanium	DePuy	C-Stem Cemented Stem	3	<1%	Yes
Waldemar Link	Snap Fit	Biomet	Muller-Biomet	3	<1%	Yes
Wright Medical UK Ltd	Conserve Plus Resurfacing Cup	Wright Medical UK Ltd	Profemur Cementless Stem	3	<1%	No
Wright Medical UK Ltd	Procotyl	DePuy	Corail	3	<1%	Yes
Zimmer	Allofit	Zimmer	P10 Muller	3	<1%	No
Zimmer	Continuum	Zimmer	Alloclassic Cementless Stem	3	<1%	No
Zimmer	Continuum	Zimmer	Fitmore Stem	3	<1%	No
Zimmer	Low Profile Muller	DePuy	C-Stem AMT Cemented Stem	3	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	3	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Stryker	ABG II Cementless Stem	3	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Zimmer	Revitan Cementless Stem	3	<1%	No
Zimmer	Trabecular Metal Cementless Cup	Zimmer	Trabecular Cementless Stem	3	<1%	No
Zimmer	Trabecular Metal Natural Cup	Corin	miniHip	3	<1%	Yes
Zimmer	Trilogy	Biomet	Mallory-Head Cementless Stem	3	<1%	Yes
Zimmer	Trilogy	DePuy	Corail Revision	3	<1%	Yes



Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	Trilogy	Stryker	Accolade	3	<1%	Yes
Zimmer	Trilogy	Zimmer	Trabecular Cementless Stem	3	<1%	No
Zimmer	Trilogy IT	DePuy	Corail	3	<1%	Yes
Zimmer	Trilogy IT	Wright Medical UK Ltd	Profemur Cementless Stem	3	<1%	Yes
Zimmer	ZCA	DePuy	Corail	3	<1%	Yes
Zimmer	ZCA	DePuy	Corail Revision	3	<1%	Yes
Zimmer	ZCA	Stryker	Omnifit Cemented Stem	3	<1%	Yes
Zimmer	ZCA	Zimmer	CLS Cementless Stem	3	<1%	No
Amplitude	Saturne	Peter Brehm GmbH	Peter Brehm Revision Stem	2	<1%	Yes
B Braun / Aesculap	Chirulen	B Braun / Aesculap	Excia	2	<1%	No
B Braun / Aesculap	Chirulen	Stryker	Exeter V40	2	<1%	Yes
B Braun / Aesculap	Plasmacup Cementless Cup	B Braun / Aesculap	Trilliance	2	<1%	No
Biomet	Custom	Biomet	Bimetric Cementless Stem	2	<1%	No
Biomet	Exceed	Biomet	Mallory-Head Cementless Stem	2	<1%	No
Biomet	Exceed ABT	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	2	<1%	Yes
Biomet	Exceed ABT Cemented	Biomet	Taperloc Cementless Stem	2	<1%	No
Biomet	Mallory-Head Cementless Cup	Biomet	Mallory-Head Cementless Stem	2	<1%	No
Biomet	Mallory-Head Cementless Cup	DePuy	Charney Cemented Stem	2	<1%	Yes
Biomet	Regenerex Revision	Smith & Nephew	CPCS	2	<1%	Yes
Biomet	Regenerex Ringloc+	Biomet	Conelock	2	<1%	No
Biomet	Regenerex Ringloc+	Peter Brehm GmbH	Peter Brehm Revision Stem	2	<1%	Yes
Biomet	Regenerex Ringloc+	Stryker	Accolade	2	<1%	Yes
Biomet	Regenerex Ringloc+	Stryker	Exeter V40	2	<1%	Yes
Biomet	Regenerex Ringloc+	Zimmer	CPT	2	<1%	Yes
Biomet	Stanmore-Arcom Cup	Biomet	Conelock	2	<1%	No
Biomet	Universal	Biomet	Bimetric Cemented (CoCr)	2	<1%	No
Corin	Cormet Prime	Corin	Metafix Stem	2	<1%	No
Corin	Trinity	DePuy	S-Rom Cementless Stem	2	<1%	Yes
Corin	Trinity	DePuy	Summit Cementless Stem	2	<1%	Yes
Corin	Trinity	FH Orthopaedics	FH Modular	2	<1%	Yes

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Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Corin	Trinity	Peter Brehm GmbH	Peter Brehm Revision Stem	2	<1%	Yes
Corin	Trinity	Zimmer	ML	2	<1%	Yes
DePuy	Charnley Ogee	DePuy	Charnley Modular	2	<1%	No
DePuy	DeltaMotion	Finsbury	LPR	2	<1%	Yes
DePuy	DeltaMotion	Symbios SA	Custom	2	<1%	Yes
DePuy	Duraloc Cementless Cup	Zimmer	CPT	2	<1%	Yes
DePuy	Elite Plus Cemented Cup	Biomet	Bimetric Cementless Stem	2	<1%	Yes
DePuy	Elite Plus Cemented Cup	DePuy	Corail Cemented	2	<1%	No
DePuy	Elite Plus Ogee	Biomet	Olympia	2	<1%	Yes
DePuy	Elite Plus Ogee	Joint Replacement Instrumentation Ltd	Furlong Cemented Hemiarthroplasty	2	<1%	Yes
DePuy	Elite Plus Ogee	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	2	<1%	Yes
DePuy	Elite Plus Ogee	Stryker	Restoration Cementless Stem	2	<1%	Yes
DePuy	Elite Plus Ogee	Zimmer	Revitan Cementless Stem	2	<1%	Yes
DePuy	Gyros	Stryker	Exeter V40	2	<1%	Yes
DePuy	Marathon	DePuy	Charnley Cemented Stem	2	<1%	No
DePuy	Pinnacle	Biomet	Olympia	2	<1%	Yes
DePuy	Pinnacle	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	2	<1%	Yes
DePuy	Pinnacle	Smith & Nephew	Echelon Cementless Stem	2	<1%	Yes
DePuy	Pinnacle	Waldemar Link	CFP	2	<1%	Yes
Exactech (UK) Ltd	Acumatch Cup	Exactech (UK) Ltd	Novation Stem	2	<1%	No
FH Orthopaedics	Atlas IIIP	Corin	Metafix Stem	2	<1%	Yes
Finsbury	Adept Resurfacing Cup	DePuy	Corail	2	<1%	Yes
Implantcast GmbH	Accis Resurfacing Cup	DePuy	Corail	2	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	DePuy	Corail Cemented	2	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF Plus	Joint Replacement Instrumentation Ltd	Custom	2	<1%	No
Joint Replacement Instrumentation Ltd	CSF Plus	Orthodynamics	Cannulok Cementless Stem	2	<1%	Yes
Lima	Delta TT	Zimmer	CPT	2	<1%	Yes
Lima	Lima Delta Revision	Stryker	Accolade	2	<1%	Yes
Lima	Lima Delta Revision	Stryker	Exeter V40	2	<1%	Yes
Lima	Lima/WG Revision Cup	Biomet	Taperloc Cementless Stem	2	<1%	Yes
Mathys Orthopaedics Ltd	CCB Mathys	Smith & Nephew	SLR-Plus Cementless Stem	2	<1%	Yes



Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Mathys Orthopaedics Ltd	RM Mathys	Biomet	Taperloc Cementless Stem	2	<1%	Yes
Mathys Orthopaedics Ltd	RM Mathys	Mathys Orthopaedics Ltd	Mathys Revision Stem	2	<1%	No
Medacta UK Ltd	Versafit	Medacta UK Ltd	Quadra Cementless	2	<1%	No
Orthodynamics	Novae	Zimmer	ZMR	2	<1%	Yes
Orthodynamics	Novae Stick	Orthodynamics	Cannulok Cementless Stem	2	<1%	No
Smith & Nephew	Bicon-Plus	Mathys Orthopaedics Ltd	Mathys Revision Stem	2	<1%	Yes
Smith & Nephew	R3 Cementless	Biomet	Olympia	2	<1%	Yes
Smith & Nephew	R3 Cementless	Mathys Orthopaedics Ltd	Twinsys Cementless Stem	2	<1%	Yes
Smith & Nephew	R3 Cementless	Smith & Nephew	Birmingham Head Resection Stem	2	<1%	No
Smith & Nephew	R3 Cementless	Smith & Nephew	CPCS	2	<1%	No
Smith & Nephew	Reflection Cemented	Smith & Nephew	CPCS	2	<1%	No
Smith & Nephew	Reflection Cemented	Smith & Nephew	Spectron	2	<1%	No
Stryker	Contemporary	Biomet	Taperloc Cementless Stem	2	<1%	Yes
Stryker	Contemporary	Corin	Taperfit Cemented Stem	2	<1%	Yes
Stryker	Restoration Gap2	Stryker	Accolade	2	<1%	No
Stryker	Secure Fit Cementless Cup	Biomet	Mallory-Head Cementless Stem	2	<1%	Yes
Stryker	Trident	DePuy	Corail Revision	2	<1%	Yes
Stryker	Trident	Orthodynamics	Cannulok Cementless Stem	2	<1%	Yes
Stryker	Trident	Stryker	Exeter	2	<1%	No
Stryker	Trident	Zimmer	GMRS Cementless	2	<1%	Yes
Stryker	Trident	Zimmer	M/L Taper	2	<1%	Yes
Symbios SA	April	Biomet	Stanmore Modular Stem	2	<1%	Yes
Waldemar Link	Beta Cup	Waldemar Link	CFP	2	<1%	No
Waldemar Link	Snap Fit	Waldemar Link	SP II Cemented Revision	2	<1%	No
Wright Medical UK Ltd	Dynasty	Wright Medical UK Ltd	Profemur Cemented Stem	2	<1%	No
Zimmer	Allofit	Stryker	Exeter V40	2	<1%	Yes
Zimmer	Allofit	Stryker	Omnifit Cemented Stem	2	<1%	Yes
Zimmer	Continuum	DePuy	Corail Revision	2	<1%	Yes
Zimmer	Continuum	DePuy	S-Rom Cementless Stem	2	<1%	Yes
Zimmer	Continuum	DePuy	Trilock BPS	2	<1%	Yes
Zimmer	Continuum	Stryker	Omnifit Cemented Stem	2	<1%	Yes

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Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	Continuum	Zimmer	ZMR	2	<1%	No
Zimmer	FM IT	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	2	<1%	Yes
Zimmer	FM IT	Zimmer	ML	2	<1%	No
Zimmer	Maxera	Zimmer	CPT	2	<1%	No
Zimmer	Trabecular Metal Cementless Cup	DePuy	Corail Revision	2	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Zimmer	Alloclassic Cementless Stem	2	<1%	No
Zimmer	Trabecular Metal Natural Cup	Zimmer	ZMR	2	<1%	No
Zimmer	Trilogy	DePuy	S-Rom Cementless Stem	2	<1%	Yes
Zimmer	Trilogy	Zimmer	Kinectiv Cemented	2	<1%	No
Zimmer	Zimmer Cemented Cup	Corin	Custom	2	<1%	Yes
Amplitude	Luna	Stryker	Exeter V40	1	<1%	Yes
Amplitude	Saturne	DePuy	Trilock BPS	1	<1%	Yes
B Braun / Aesculap	Chirulen	DePuy	C-Stem AMT Cemented Stem	1	<1%	Yes
B Braun / Aesculap	Plasmacup Cementless Cup	DePuy	C-Stem AMT Cemented Stem	1	<1%	Yes
B Braun / Aesculap	Plasmacup Cementless Cup	DePuy	Solution Cementless Stem	1	<1%	Yes
B Braun / Aesculap	Plasmacup Cementless Cup	Smith & Nephew	Echelon Cementless Stem	1	<1%	Yes
Biomet	Avantage	Biomet	Taperloc Cemented Stem	1	<1%	No
Biomet	Avantage	Smith & Nephew	CPCS	1	<1%	Yes
Biomet	Avantage	Zimmer	ML	1	<1%	Yes
Biomet	Avantage Cemented Cup	Biomet	Stanmore Modular Stem	1	<1%	No
Biomet	Avantage Cemented Cup	DePuy	Reef	1	<1%	Yes
Biomet	Avantage Cemented Cup	DePuy	Trilock BPS	1	<1%	Yes
Biomet	Custom	Biomet	Taperloc Cementless Stem	1	<1%	No
Biomet	Custom	Corin	Taperfit Cemented Stem	1	<1%	Yes
Biomet	Custom	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	1	<1%	Yes
Biomet	Custom	Stryker	Accolade	1	<1%	Yes
Biomet	Custom	Stryker	Exeter V40	1	<1%	Yes
Biomet	Exceed ABT	Biomet	Custom	1	<1%	No
Biomet	Exceed ABT	DePuy	C-Stem Cemented Stem	1	<1%	Yes
Biomet	Exceed ABT	Stryker	Omnifit Cemented Stem	1	<1%	Yes



Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Biomet	Exceed ABT	Wright Medical UK Ltd	Profemur Cementless Stem	1	<1%	Yes
Biomet	Exceed ABT Cemented	Biomet	Olympia	1	<1%	No
Biomet	Exceed ABT Cemented	Stryker	Exeter V40	1	<1%	Yes
Biomet	M2A 38	Biomet	Stanmore Modular Stem	1	<1%	No
Biomet	Mallory-Head Cementless Cup	Biomet	Taperloc Cemented Stem	1	<1%	No
Biomet	Mallory-Head Cementless Cup	DePuy	Corail	1	<1%	Yes
Biomet	Mallory-Head Cementless Cup	DePuy	C-Stem Cemented Stem	1	<1%	Yes
Biomet	Mallory-Head Cementless Cup	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	1	<1%	Yes
Biomet	Ranawat/Burstein	Biomet	Mallory-Head Cementless Stem	1	<1%	No
Biomet	Recap Magnum	Smith & Nephew	CPCS	1	<1%	Yes
Biomet	Regenerex Ringloc+	Biomet	Mallory-Head Cementless Stem	1	<1%	No
Biomet	Regenerex Ringloc+	Biomet	Reach	1	<1%	No
Biomet	Regenerex Ringloc+	Corin	Taperfit Cemented Stem	1	<1%	Yes
Biomet	Ringloc	Biomet	Taperloc Cementless Stem	1	<1%	No
Biomet	SHP Cup	Orthodynamics	Cannulok Cementless Stem	1	<1%	Yes
Biomet	SHP Cup	Stryker	Exeter V40	1	<1%	Yes
Biomet	Stanmore-Arcom Cup	B Braun / Aesculap	Excia	1	<1%	Yes
Biomet	Stanmore-Arcom Cup	Biomet	Bimetric Cemented (CoCr)	1	<1%	No
Biomet	Stanmore-Arcom Cup	DePuy	Corail	1	<1%	Yes
Biomet	Stanmore-Arcom Cup	Smith & Nephew	Echelon Cemented Stem	1	<1%	Yes
Biomet	Stanmore-Arcom Cup	Stryker	Exeter V40	1	<1%	Yes
Biomet	Stanmore-Arcom Cup	Waldemar Link	SP II Cemented Stem	1	<1%	Yes
Corin	Cenator Cemented Cup	Corin	Taperfit Cemented Stem	1	<1%	No
Corin	Cenator Cemented Cup	Zimmer	Revitan Cementless Stem	1	<1%	Yes
Corin	Cormet 2000 Resurfacing Cup	Corin	Metafix Stem	1	<1%	No
Corin	Cormet Prime	Corin	miniHip	1	<1%	No
Corin	Hi-Nek Cemented Cup	Biomet	Stanmore Modular Stem	1	<1%	Yes
Corin	Trinity	DePuy	C-Stem AMT Cemented Stem	1	<1%	Yes
DePuy	Charnley Cemented Cup	Zimmer	ZMR	1	<1%	Yes

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Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	Charnley KS	Stryker	Exeter V40	1	<1%	Yes
DePuy	Charnley Ogee	DePuy	C-Stem AMT Cemented Stem	1	<1%	No
DePuy	DeltaMotion	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	1	<1%	Yes
DePuy	DeltaMotion	Stryker	Exeter V40	1	<1%	Yes
DePuy	DeltaMotion	Zimmer	MS-30	1	<1%	Yes
DePuy	Duraloc Cementless Cup	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	1	<1%	Yes
DePuy	Duraloc Option	Biomet	Olympia	1	<1%	Yes
DePuy	Duraloc Option	DePuy	Corail Revision	1	<1%	No
DePuy	Elite Plus Cemented Cup	DePuy	Kar	1	<1%	No
DePuy	Elite Plus Cemented Cup	DePuy	S-Rom Cementless Stem	1	<1%	No
DePuy	Elite Plus Cemented Cup	Stryker	Restoration Cementless Stem	1	<1%	Yes
DePuy	Elite Plus Cemented Cup	Waldemar Link	MP Revision	1	<1%	Yes
DePuy	Elite Plus Flanged	DePuy	Corail	1	<1%	No
DePuy	Elite Plus Flanged	DePuy	Corail Revision	1	<1%	No
DePuy	Elite Plus Flanged	DePuy	C-Stem AMT Cemented Stem	1	<1%	No
DePuy	Elite Plus Ogee	Biomet	Taperloc Cemented Stem	1	<1%	Yes
DePuy	Elite Plus Ogee	Corin	C Fit	1	<1%	Yes
DePuy	Elite Plus Ogee	Corin	Taperfit Cemented Stem	1	<1%	Yes
DePuy	Elite Plus Ogee	DePuy	Corail Cemented	1	<1%	No
DePuy	Elite Plus Ogee	DePuy	Corail Revision	1	<1%	No
DePuy	Elite Plus Ogee	DePuy	Kar	1	<1%	No
DePuy	Elite Plus Ogee	DePuy	S-Rom Cementless Stem	1	<1%	No
DePuy	Elite Plus Ogee	DePuy	Ultima Collared Stem	1	<1%	No
DePuy	Elite Plus Ogee	Joint Replacement Instrumentation Ltd	Furlong Cemented Stem	1	<1%	Yes
DePuy	Elite Plus Ogee	Orthodynamics	Cannulok Cementless Stem	1	<1%	Yes
DePuy	Elite Plus Ogee	Smith & Nephew	Echelon Cemented Stem	1	<1%	Yes
DePuy	Elite Plus Ogee	Smith & Nephew	SL-Plus Cementless Stem	1	<1%	Yes
DePuy	Elite Plus Ogee	Zimmer	GMRS Cementless	1	<1%	Yes
DePuy	Elite Plus Ogee	Zimmer	M/L Taper Cementless	1	<1%	Yes
DePuy	Gyros	DePuy	Trilock BPS	1	<1%	No
DePuy	Gyros	Smith & Nephew	CPCS	1	<1%	Yes
DePuy	Marathon	DePuy	Corail Cemented	1	<1%	No



Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	Marathon	DePuy	Kar	1	<1%	No
DePuy	Marathon	DePuy	Wroblewski Resection	1	<1%	No
DePuy	Marathon	Zimmer	Versys Cementless Stem	1	<1%	Yes
DePuy	Pinnacle	Biomet	Bimetric Cemented (CoCr)	1	<1%	Yes
DePuy	Pinnacle	Corin	miniHip	1	<1%	Yes
DePuy	Pinnacle	Corin	Taperfit Cemented Stem	1	<1%	Yes
DePuy	Pinnacle	DePuy	LPS	1	<1%	No
DePuy	Pinnacle	DePuy	Prodigy	1	<1%	No
DePuy	Pinnacle	DePuy	Reef	1	<1%	No
DePuy	Pinnacle	DePuy	Solution Cementless Stem	1	<1%	No
DePuy	Pinnacle	DePuy	Summit Cemented Stem	1	<1%	No
DePuy	Pinnacle	Medacta UK Ltd	Amis	1	<1%	Yes
DePuy	Pinnacle	Smith & Nephew	Polarstem Cementless	1	<1%	Yes
DePuy	Pinnacle	Stryker	Accolade	1	<1%	Yes
DePuy	Pinnacle	Waldemar Link	SP II Cemented Revision	1	<1%	Yes
DePuy	Pinnacle	Waldemar Link	SP II Cemented Stem	1	<1%	Yes
DePuy	Pinnacle	Zimmer	M/L Taper Cementless	1	<1%	Yes
DePuy	Pinnacle	Zimmer	MS-30	1	<1%	Yes
DePuy	Pinnacle	Zimmer	Muller Str Stem	1	<1%	Yes
DePuy	Pinnacle	Zimmer	Revitan Cementless Stem	1	<1%	Yes
Euros	Sirius cementless cup	Euros	Euros Cementless	1	<1%	No
FH Orthopaedics	Atlas IIP	DePuy	Corail	1	<1%	Yes
FH Orthopaedics	Atlas IIP	Zimmer	Versys Cementless Stem	1	<1%	Yes
FH Orthopaedics	Atlas IIP	Zimmer	ZMR	1	<1%	Yes
Finsbury	Adept Resurfacing Cup	Smith & Nephew	Synergy Cementless Stem	1	<1%	Yes
Implantcast GmbH	Accis Resurfacing Cup	Smith & Nephew	Anthology	1	<1%	Yes
Implantcast GmbH	Accis Resurfacing Cup	Zimmer	M/L Taper Cementless	1	<1%	Yes
Implants International	Edinburgh Cup	Stryker	Exeter V40	1	<1%	Yes
Implants International	RM Cementless Cup (Implant International)	DePuy	Corail	1	<1%	Yes
Implants International	RM Cementless Cup (Implant International)	Stryker	Exeter V40	1	<1%	Yes

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Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Joint Replacement Instrumentation Ltd	CSF	DePuy	Charnley Cemented Stem	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	DePuy	C-Stem AMT Cemented Stem	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	Zimmer	CPT	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF Plus	Stryker	Restoration Cementless Stem	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF Plus	Zimmer	MS-30	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF Plus	Zimmer	Muller Str Stem	1	<1%	Yes
Joint Replacement Instrumentation Ltd	Custom	Joint Replacement Instrumentation Ltd	Furlong HAC Revision Stem	1	<1%	No
Joint Replacement Instrumentation Ltd	Custom	Zimmer	CPT	1	<1%	Yes
Lima	Delta TT	Corin	miniHip	1	<1%	Yes
Lima	Delta TT	DePuy	Trilock BPS	1	<1%	Yes
Lima	Delta TT	Zimmer	CLS Cementless Stem	1	<1%	Yes
Lima	Delta TT	Zimmer	Versys Cementless Stem	1	<1%	Yes
Lima	DeltaMotion	Lima	H-Max	1	<1%	No
Lima	Lima Delta Revision	Lima	Lima/WG Revision Stem	1	<1%	No
Lima	Lima/WG Revision Cup	DePuy	Charnley Modular	1	<1%	Yes
Lima	Lima/WG Revision Cup	DePuy	Kar	1	<1%	Yes
Lima	Lima/WG Revision Cup	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	1	<1%	Yes
Lima	Lima/WG Revision Cup	Lima	Modulus	1	<1%	No
Lima	Lima/WG Revision Cup	Zimmer	M/L Taper	1	<1%	Yes
Lima	Lima/WG Revision Cup	Zimmer	M/L Taper Cementless	1	<1%	Yes
Lima	Lima/WG Revision Cup	Zimmer	Versys Cementless Stem	1	<1%	Yes
Mathys Orthopaedics Ltd	CCB Mathys	Mathys Orthopaedics Ltd	CBC	1	<1%	No
Mathys Orthopaedics Ltd	CCB Mathys	Mathys Orthopaedics Ltd	Mathys Revision Stem	1	<1%	No
Mathys Orthopaedics Ltd	CCB Mathys	Zimmer	Muller Str Stem	1	<1%	Yes
Mathys Orthopaedics Ltd	seleXys PC	Biomet	CMK Cemented Stem	1	<1%	Yes
Mathys Orthopaedics Ltd	seleXys TH	Biomet	CMK Cemented Stem	1	<1%	Yes
Mathys Orthopaedics Ltd	seleXys TH	Mathys Orthopaedics Ltd	Twinsys Cementless Stem	1	<1%	No
Medacta UK Ltd	Cone Cup	Medacta UK Ltd	Amis	1	<1%	No



Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Medacta UK Ltd	Versafit	Biomet	Taperloc Cementless Stem	1	<1%	Yes
Orthodynamics	Novae	DePuy	Corail	1	<1%	Yes
Orthodynamics	Novae	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	1	<1%	Yes
Orthodynamics	Novae	Wright Medical UK Ltd	Profemur Cementless Stem	1	<1%	Yes
Orthodynamics	Novae SF	Joint Replacement Instrumentation Ltd	Furlong Cemented Hemiarthroplasty	1	<1%	Yes
Orthodynamics	Novae SF	Zimmer	Versys Cementless Stem	1	<1%	Yes
Orthodynamics	Novae Stick	Orthodynamics	Cannulok Cemented Stem	1	<1%	No
Orthodynamics	Novae Stick	Zimmer	Versys Cementless Stem	1	<1%	Yes
Smith & Nephew	BHR Resurfacing Cup	Zimmer	CLS Cementless Stem	1	<1%	Yes
Smith & Nephew	Bicon-Plus	Smith & Nephew	SLR-Plus Cementless Stem	1	<1%	No
Smith & Nephew	Custom	Smith & Nephew	Anthology	1	<1%	No
Smith & Nephew	EP-Fit Plus	Corin	miniHip	1	<1%	Yes
Smith & Nephew	EP-Fit Plus	DePuy	C-Stem Cemented Stem	1	<1%	Yes
Smith & Nephew	EP-Fit Plus	Stryker	Exeter	1	<1%	Yes
Smith & Nephew	EPP-Plus	DePuy	C-Stem Cemented Stem	1	<1%	Yes
Smith & Nephew	Opera	Biomet	Bimetric Cemented (CoCr)	1	<1%	Yes
Smith & Nephew	Opera	Biomet	Bimetric Cementless Stem	1	<1%	Yes
Smith & Nephew	Opera	Biomet	Olympia	1	<1%	Yes
Smith & Nephew	Opera	Corin	miniHip	1	<1%	Yes
Smith & Nephew	Opera	DePuy	Charley Modular	1	<1%	Yes
Smith & Nephew	Opera	DePuy	Trilock BPS	1	<1%	Yes
Smith & Nephew	Opera	Orthodynamics	Cannulok Cementless Stem	1	<1%	Yes
Smith & Nephew	Opera	Smith & Nephew	SL-Plus Cementless Stem	1	<1%	No
Smith & Nephew	Opera	Stryker	Custom	1	<1%	Yes
Smith & Nephew	Opera	Stryker	Restoration Cementless Stem	1	<1%	Yes
Smith & Nephew	Opera	Zimmer	M/L Taper Cementless	1	<1%	Yes
Smith & Nephew	Opera	Zimmer	VerSys Cemented Stem	1	<1%	Yes
Smith & Nephew	Opera	Zimmer	Versys Cementless Stem	1	<1%	Yes

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Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Smith & Nephew	Polarcup Cemented	DePuy	C-Stem AMT Cemented Stem	1	<1%	Yes
Smith & Nephew	Polarcup Cemented	Smith & Nephew	CPS Plus	1	<1%	No
Smith & Nephew	Polarcup Cementless	DePuy	Corail	1	<1%	Yes
Smith & Nephew	Polarcup Cementless	Smith & Nephew	Profemur Cementless Stem	1	<1%	No
Smith & Nephew	R3 Cementless	Corin	CTI Cemented Stem	1	<1%	Yes
Smith & Nephew	R3 Cementless	Corin	Hi-Nek Cemented Stem	1	<1%	Yes
Smith & Nephew	R3 Cementless	Smith & Nephew	Echelon Cementless Stem	1	<1%	No
Smith & Nephew	R3 Cementless	Wright Medical UK Ltd	Profemur Cementless Stem	1	<1%	Yes
Smith & Nephew	Reflection Cemented	DePuy	Corail	1	<1%	Yes
Smith & Nephew	Reflection Cemented	DePuy	C-Stem Cemented Stem	1	<1%	Yes
Smith & Nephew	Reflection Cemented	Wright Medical UK Ltd	Profemur Cementless Stem	1	<1%	Yes
Smith & Nephew	Reflection Cementless	Smith & Nephew	CPCS	1	<1%	No
Stryker	Contemporary	B Braun / Aesculap	Bicontact Cementless Stem	1	<1%	Yes
Stryker	Contemporary	Corin	C Fit	1	<1%	Yes
Stryker	Contemporary	DePuy	AML	1	<1%	Yes
Stryker	Contemporary	DePuy	C-Stem Cemented Stem	1	<1%	Yes
Stryker	Contemporary	DePuy	Reef	1	<1%	Yes
Stryker	Contemporary	Orthodynamics	LMT	1	<1%	Yes
Stryker	Contemporary	Stryker	Exeter	1	<1%	No
Stryker	Contemporary	Waldemar Link	MP Revision	1	<1%	Yes
Stryker	Contemporary	Waldemar Link	SP II Cemented Revision	1	<1%	Yes
Stryker	Contemporary	Waldemar Link	SP II Cemented Stem	1	<1%	Yes
Stryker	Contemporary	Zimmer	Revitan Cementless Stem	1	<1%	Yes
Stryker	Contemporary	Zimmer	Versys Cementless Stem	1	<1%	Yes
Stryker	Exeter Duration	DePuy	Charnley Cemented Stem	1	<1%	Yes
Stryker	Exeter Rimfit	DePuy	C-Stem AMT Cemented Stem	1	<1%	Yes
Stryker	Exeter Rimfit	DePuy	Reef	1	<1%	Yes
Stryker	Exeter Rimfit	Joint Replacement Instrumentation Ltd	Furlong Cemented Stem	1	<1%	Yes
Stryker	Exeter Rimfit	Peter Brehm GmbH	Peter Brehm Revision Stem	1	<1%	Yes



Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Stryker	Exeter Rimfit	Smith & Nephew	Echelon Cemented Stem	1	<1%	Yes
Stryker	Exeter Rimfit	Smith & Nephew	Echelon Cementless Stem	1	<1%	Yes
Stryker	Gap Ring	Stryker	Exeter V40	1	<1%	No
Stryker	Mitch TRH Cup	Stryker	Accolade	1	<1%	No
Stryker	Secure Fit Cementless Cup	Biomet	Taperloc Cementless Stem	1	<1%	Yes
Stryker	Secure Fit Cementless Cup	DePuy	C-Stem AMT Cemented Stem	1	<1%	Yes
Stryker	Secure Fit Cementless Cup	Stryker	Omnifit Cementless Stem	1	<1%	No
Stryker	Trident	Corin	C Fit	1	<1%	Yes
Stryker	Trident	DePuy	Charnley Cemented Stem	1	<1%	Yes
Stryker	Trident	DePuy	Depuy Proxima	1	<1%	Yes
Stryker	Trident	DePuy	Kar	1	<1%	Yes
Stryker	Trident	DePuy	Reef	1	<1%	Yes
Stryker	Trident	DePuy	S-Rom Cementless Stem	1	<1%	Yes
Stryker	Trident	Implantcast GmbH	Implantcast Cementless Stem	1	<1%	Yes
Stryker	Trident	Peter Brehm GmbH	Peter Brehm Revision Stem	1	<1%	Yes
Stryker	Trident	Smith & Nephew	Synergy Cementless Stem	1	<1%	Yes
Stryker	Trident	Waldemar Link	SP II Cemented Stem	1	<1%	Yes
Stryker	Tritanium	Biomet	Stanmore Modular Stem	1	<1%	Yes
Stryker	Tritanium	Biomet	Taperloc Cementless Stem	1	<1%	Yes
Stryker	Tritanium	DePuy	C-Stem AMT Cemented Stem	1	<1%	Yes
Stryker	Tritanium	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	1	<1%	Yes
Stryker	Tritanium	Stryker	GMRS	1	<1%	No
Surgicraft	Split Cup	Corin	miniHip	1	<1%	Yes
Surgicraft	Split Cup	Zimmer	CPT	1	<1%	Yes
Waldemar Link	Interplanta	Waldemar Link	SP II Cemented Revision	1	<1%	No
Waldemar Link	Interplanta	Zimmer	CPT	1	<1%	Yes
Waldemar Link	Snap Fit	DePuy	Corail	1	<1%	Yes
Waldemar Link	Snap Fit	Waldemar Link	MP Revision	1	<1%	No
Wright Medical UK Ltd	Procotyl	Biomet	Olympia	1	<1%	Yes
Wright Medical UK Ltd	Procotyl	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	1	<1%	Yes
Zimmer	Allofit	DePuy	Corail Cemented	1	<1%	Yes

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Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	Allofit	DePuy	Trilock BPS	1	<1%	Yes
Zimmer	Allofit	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	1	<1%	Yes
Zimmer	Allofit	Zimmer	Fitmore Stem	1	<1%	No
Zimmer	Centerpulse Muller	DePuy	Summit Cemented Stem	1	<1%	Yes
Zimmer	Continuum	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	1	<1%	Yes
Zimmer	Continuum	Waldemar Link	MP Revision	1	<1%	Yes
Zimmer	Continuum	Zimmer	Revitan Cementless Stem	1	<1%	No
Zimmer	Custom	Zimmer	Custom	1	<1%	No
Zimmer	Custom	Zimmer	Revitan Cementless Stem	1	<1%	No
Zimmer	FM IT	Zimmer	CLS Cementless Stem	1	<1%	No
Zimmer	FM IT	Zimmer	Revitan Cementless Stem	1	<1%	No
Zimmer	Longevity	DePuy	C-Stem AMT Cemented Stem	1	<1%	Yes
Zimmer	Longevity	DePuy	C-Stem Cemented Stem	1	<1%	Yes
Zimmer	Low Profile Muller	Mathys Orthopaedics Ltd	CCA Cemented Stem	1	<1%	Yes
Zimmer	Low Profile Muller	Waldemar Link	SP II Cemented Revision	1	<1%	Yes
Zimmer	Low Profile Muller	Zimmer	Alloclassic Cementless Stem	1	<1%	No
Zimmer	Low Profile Muller	Zimmer	CLS Cementless Stem	1	<1%	No
Zimmer	Maxera	Zimmer	M/L Taper	1	<1%	No
Zimmer	Maxera	Zimmer	M/L Taper Cementless	1	<1%	No
Zimmer	Metasul-Muller	Zimmer	Revitan Cementless Stem	1	<1%	No
Zimmer	MMC Cup	Zimmer	Versys Cementless Stem	1	<1%	No
Zimmer	Trabecular Metal Cementless Cup	Biomet	Bimetric Cemented (Ti)	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Biomet	Stanmore Modular Stem	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Biomet	Taperloc Cementless Stem	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Corin	miniHip	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	DePuy	C-Stem AMT Cemented Stem	1	<1%	Yes



Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	Trabecular Metal Cementless Cup	DePuy	Reef	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	DePuy	Silent	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	DePuy	Trilock BPS	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Lima	Lima/WG Revision Stem	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Mathys Orthopaedics Ltd	CCA Cemented Stem	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Smith & Nephew	Synergy Cementless Stem	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Symbios SA	SPS	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	GMRS Cementless	1	<1%	No
Zimmer	Trabecular Metal Cementless Cup	Zimmer	ML	1	<1%	No
Zimmer	Trabecular Metal Cementless Cup	Zimmer	MS-30	1	<1%	No
Zimmer	Trabecular Metal Cementless Cup	Zimmer	Synergy Cementless Stem	1	<1%	No
Zimmer	Trabecular Metal Natural Cup	Corin	Metafix Stem	1	<1%	Yes
Zimmer	Trabecular Metal Natural Cup	FH Orthopaedics	FH Modular	1	<1%	Yes
Zimmer	Trabecular Metal Natural Cup	Stryker	Exeter V40	1	<1%	Yes
Zimmer	Trabecular Metal Natural Cup	Zimmer	CPT	1	<1%	No
Zimmer	Trilogy	Corin	C Fit	1	<1%	Yes
Zimmer	Trilogy	DePuy	Charnley Cemented Stem	1	<1%	Yes
Zimmer	Trilogy	DePuy	Reef	1	<1%	Yes
Zimmer	Trilogy	Joint Replacement Instrumentation Ltd	Furlong HAC Active Stem	1	<1%	Yes
Zimmer	Trilogy	Smith & Nephew	Echelon Cementless Stem	1	<1%	Yes
Zimmer	Trilogy	Smith & Nephew	Spectron	1	<1%	Yes
Zimmer	Trilogy	Stryker	Restoration Cementless Stem	1	<1%	Yes
Zimmer	Trilogy	Symbios SA	Custom	1	<1%	Yes
Zimmer	Trilogy	Waldemar Link	SP II Cemented Stem	1	<1%	Yes

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Table 9(a) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	Trilogy	Wright Medical UK Ltd	Profemur Cemented Stem	1	<1%	Yes
Zimmer	Trilogy	Zimmer	M/L Taper	1	<1%	No
Zimmer	Trilogy	Zimmer	Revitan Cementless Stem	1	<1%	No
Zimmer	Trilogy	Zimmer	VerSys Heritage	1	<1%	No
Zimmer	Trilogy IT	Zimmer	VerSys Heritage	1	<1%	No
Zimmer	ZCA	DePuy	C-Stem AMT Cemented Stem	1	<1%	Yes
Zimmer	ZCA	DePuy	C-Stem Cemented Stem	1	<1%	Yes
Zimmer	ZCA	Zimmer	M/L Taper	1	<1%	No
Zimmer	ZCA	Zimmer	M/L Taper Cementless	1	<1%	No
Zimmer	ZCA	Zimmer	Zweymuller	1	<1%	No
Zimmer	Zimmer Cemented Cup	DePuy	Corail	1	<1%	Yes
Zimmer	Zimmer Cemented Cup	DePuy	C-Stem AMT Cemented Stem	1	<1%	Yes
Zimmer	Zimmer Cemented Cup	DePuy	C-Stem Cemented Stem	1	<1%	Yes
Zimmer	Zimmer Cemented Cup	FH Orthopaedics	FH Modular	1	<1%	Yes
Zimmer	Zimmer Cemented Cup	Zimmer	CPT	1	<1%	No

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**Table 9(b)** Cup-stem brand combinations for revision hip procedures performed during 2011.

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
				3,930		
Stryker	Trident	Stryker	Exeter V40	207	5%	No
Zimmer	Trabecular Metal Cementless Cup	Stryker	Exeter V40	204	5%	Yes
Stryker	Contemporary	Stryker	Exeter V40	179	5%	No
DePuy	Pinnacle	DePuy	Corail	173	4%	No
Stryker	Tritanium	Stryker	Exeter V40	154	4%	No
Stryker	Trident	Stryker	Restoration Cementless Stem	134	3%	No
Zimmer	Trabecular Metal Cementless Cup	Stryker	Restoration Cementless Stem	127	3%	Yes
Stryker	Tritanium	Stryker	Restoration Cementless Stem	115	3%	No
Stryker	Exeter Rimfit	Stryker	Exeter V40	100	3%	No
Zimmer	Trabecular Metal Cementless Cup	Zimmer	ZMR	94	2%	No
Zimmer	Trabecular Metal Cementless Cup	Zimmer	CPT	86	2%	No
DePuy	Pinnacle	Stryker	Exeter V40	58	1%	Yes
DePuy	Elite Plus Ogee	Stryker	Exeter V40	56	1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Zimmer	Revitan Cementless Stem	53	1%	No
DePuy	Marathon	DePuy	C-Stem Cemented Stem	50	1%	No
Zimmer	Continuum	Zimmer	CPT	48	1%	No
Zimmer	Trilogy	Stryker	Exeter V40	43	1%	Yes
DePuy	Elite Plus Cemented Cup	Stryker	Exeter V40	42	1%	Yes
Zimmer	Continuum	Zimmer	Versys Cementless Stem	41	1%	No
Joint Replacement Instrumentation Ltd	CSF Plus	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	38	<1%	No
Zimmer	Trilogy	Zimmer	CPT	37	<1%	No
DePuy	Pinnacle	DePuy	Corail Revision	36	<1%	No
DePuy	Pinnacle	DePuy	C-Stem Cemented Stem	35	<1%	No
DePuy	Pinnacle	DePuy	Kar	34	<1%	No
DePuy	Pinnacle	DePuy	C-Stem AMT Cemented Stem	32	<1%	No
Stryker	Contemporary	Stryker	Restoration Cementless Stem	32	<1%	No
Lima	Delta TT	Lima	Lima/WG Revision Stem	31	<1%	No
Zimmer	Continuum	Stryker	Exeter V40	28	<1%	Yes
Biomet	Exceed ABT	Biomet	Taperloc Cementless Stem	26	<1%	No

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Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Joint Replacement Instrumentation Ltd	CSF Plus	Joint Replacement Instrumentation Ltd	Furlong HAC Revision Stem	26	<1%	No
DePuy	Elite Plus Ogee	DePuy	C-Stem Cemented Stem	25	<1%	No
DePuy	Marathon	Stryker	Exeter V40	25	<1%	Yes
DePuy	Pinnacle	Stryker	Restoration Cementless Stem	25	<1%	Yes
Zimmer	Trilogy	Zimmer	ZMR	24	<1%	No
Stryker	Trident	Stryker	Accolade	23	<1%	No
Zimmer	Trabecular Metal Cementless Cup	DePuy	Corail	23	<1%	Yes
Zimmer	Continuum	Stryker	Restoration Cementless Stem	22	<1%	Yes
Zimmer	Continuum	Zimmer	ZMR	22	<1%	No
DePuy	Pinnacle	DePuy	S-Rom Cementless Stem	21	<1%	No
Stryker	Exeter Duration	Stryker	Exeter V40	21	<1%	No
Lima	Delta TT	DePuy	Corail	20	<1%	Yes
Wright Medical UK Ltd	Procotyl	Wright Medical UK Ltd	Profemur Cementless Stem	18	<1%	No
Zimmer	ZCA	Zimmer	CPT	18	<1%	No
Biomet	Regenerex Ringloc+	Biomet	Stanmore Modular Stem	16	<1%	No
DePuy	Wroblewski Golf Ball	DePuy	C-Stem Cemented Stem	16	<1%	No
Stryker	Tritanium	Stryker	Accolade	16	<1%	No
Corin	Genator Cemented Cup	Stryker	Exeter V40	15	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Zimmer	Versys Cementless Stem	15	<1%	No
B Braun / Aesculap	Plasmacup Cementless Cup	DePuy	Solution Cementless Stem	14	<1%	Yes
Corin	Trinity	Corin	Metafix Stem	14	<1%	No
DePuy	Pinnacle	DePuy	Solution Cementless Stem	14	<1%	No
Stryker	Exeter Rimfit	Stryker	Restoration Cementless Stem	14	<1%	No
Stryker	Tritanium	Orthodynamics	Cannulok Cementless Stem	14	<1%	Yes
DePuy	Marathon	DePuy	Corail	13	<1%	No
DePuy	Marathon	DePuy	C-Stem AMT Cemented Stem	13	<1%	No
DePuy	Marathon	Stryker	Restoration Cementless Stem	13	<1%	Yes
Biomet	Regenerex Ringloc+	Stryker	Exeter V40	12	<1%	Yes
DePuy	Pinnacle	Biomet	Muller-Biomet	12	<1%	Yes
DePuy	Pinnacle	DePuy	Reef	12	<1%	No
DePuy	Pinnacle	Zimmer	CPT	12	<1%	Yes



Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Lima	Delta TT	Stryker	Exeter V40	12	<1%	Yes
Lima	Lima Delta Revision	Lima	Lima/WG Revision Stem	12	<1%	No
Smith & Nephew	Opera	Stryker	Exeter V40	12	<1%	Yes
Biomet	Avantage Cemented Cup	Stryker	Exeter V40	11	<1%	Yes
Lima	Lima Delta Revision	Stryker	Exeter V40	11	<1%	Yes
Lima	Lima/WG Revision Cup	DePuy	Corail	11	<1%	Yes
Smith & Nephew	R3 Cementless	Smith & Nephew	Synergy Cementless Stem	11	<1%	No
Lima	Lima/WG Revision Cup	Lima	Lima/WG Revision Stem	10	<1%	No
Biomet	Regenerex Revision	Stryker	Exeter V40	9	<1%	Yes
DePuy	Charnley Cemented Cup	DePuy	Charnley Cemented Stem	9	<1%	No
DePuy	Marathon	DePuy	Corail Revision	9	<1%	No
DePuy	Pinnacle	Zimmer	ZMR	9	<1%	Yes
Stryker	Contemporary	DePuy	Reef	9	<1%	Yes
Zimmer	Continuum	Zimmer	Revitan Cementless Stem	9	<1%	No
Zimmer	Trabecular Metal Cementless Cup	Waldemar Link	MP Revision	9	<1%	Yes
Biomet	Mallory-Head Cementless Cup	Stryker	Exeter V40	8	<1%	Yes
DePuy	DeltaMotion	DePuy	Corail	8	<1%	No
DePuy	Elite Plus Ogee	Zimmer	CPT	8	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	Joint Replacement Instrumentation Ltd	Furlong HAC Revision Stem	8	<1%	No
Lima	Lima/WG Revision Cup	Stryker	Restoration Cementless Stem	8	<1%	Yes
Smith & Nephew	Opera	DePuy	C-Stem Cemented Stem	8	<1%	Yes
Smith & Nephew	R3 Cementless	Smith & Nephew	Anthology	8	<1%	No
Zimmer	Trabecular Metal Cementless Cup	Wright Medical UK Ltd	Profemur Cementless Stem	8	<1%	Yes
Biomet	Exceed ABT	Stryker	Exeter V40	7	<1%	Yes
Biomet	Mallory-Head Cementless Cup	Biomet	Bimetric Cementless Stem	7	<1%	No
Biomet	Regenerex Ringloc+	Biomet	Taperloc Cementless Stem	7	<1%	No
Biomet	Regenerex Ringloc+	Stryker	Restoration Cementless Stem	7	<1%	Yes
Biomet	Regenerex Ringloc+	Zimmer	CPT	7	<1%	Yes
Corin	Trinity	Corin	miniHip	7	<1%	No
DePuy	Elite Plus Cemented Cup	Waldemar Link	MP Revision	7	<1%	Yes
DePuy	Elite Plus Ogee	DePuy	C-Stem AMT Cemented Stem	7	<1%	No

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Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Lima	Delta TT	DePuy	S-Rom Cementless Stem	7	<1%	Yes
Lima	Lima/WG Revision Cup	Lima	Modulus	7	<1%	No
Zimmer	Trabecular Metal Cementless Cup	DePuy	C-Stem Cemented Stem	7	<1%	Yes
Zimmer	Trilogy	Stryker	Restoration Cementless Stem	7	<1%	Yes
Amplitude	Saturne	Peter Brehm GmbH	Peter Brehm Revision Stem	6	<1%	Yes
Corin	Trinity	Stryker	Exeter V40	6	<1%	Yes
DePuy	Elite Plus Ogee	Stryker	Restoration Cementless Stem	6	<1%	Yes
DePuy	Marathon	DePuy	Kar	6	<1%	No
DePuy	Marathon	DePuy	Reef	6	<1%	No
DePuy	Pinnacle	DePuy	Summit Cementless Stem	6	<1%	No
DePuy	Pinnacle	Waldemar Link	SP II Cemented Revision	6	<1%	Yes
Lima	Lima Delta Revision	DePuy	S-Rom Cementless Stem	6	<1%	Yes
Orthodynamics	Novae Stick	DePuy	C-Stem Cemented Stem	6	<1%	Yes
Smith & Nephew	R3 Cementless	Stryker	Exeter V40	6	<1%	Yes
Stryker	Restoration Gap2	Stryker	Exeter V40	6	<1%	No
Zimmer	Continuum	DePuy	Corail	6	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	DePuy	S-Rom Cementless Stem	6	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Lima	Lima/WG Revision Stem	6	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Stryker	Accolade	6	<1%	Yes
B Braun / Aesculap	Plasmacup Cementless Cup	B Braun / Aesculap	Prevision Cemented Stem	5	<1%	No
Biomet	Mallory-Head Cementless Cup	Zimmer	CPT	5	<1%	Yes
Biomet	Regenerex Ringloc+	Biomet	Reach	5	<1%	No
Corin	Trinity	DePuy	Corail	5	<1%	Yes
DePuy	Pinnacle	Smith & Nephew	Echelon Cementless Stem	5	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF Plus	Joint Replacement Instrumentation Ltd	Securus	5	<1%	No
Lima	Delta TT	Stryker	Restoration Cementless Stem	5	<1%	Yes
Mathys Orthopaedics Ltd	RM Mathys	Mathys Orthopaedics Ltd	Twinsys Cementless Stem	5	<1%	No
Mathys Orthopaedics Ltd	RM Mathys	Smith & Nephew	SLR-Plus Cementless Stem	5	<1%	Yes
Orthodynamics	Novae Stick	Stryker	Restoration Cementless Stem	5	<1%	Yes



Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Smith & Nephew	Reflection Cementless	Stryker	Exeter V40	5	<1%	Yes
Stryker	Trident	DePuy	Corail	5	<1%	Yes
Waldemar Link	Snap Fit	Waldemar Link	SP II Cemented Revision	5	<1%	No
Zimmer	Trabecular Metal Cementless Cup	DePuy	Solution Cementless Stem	5	<1%	Yes
Zimmer	Trabecular Metal Natural Cup	Zimmer	ZMR	5	<1%	No
Zimmer	Trilogy	Orthodynamics	Cannulok Cementless Stem	5	<1%	Yes
Biomet	Mallory-Head Cementless Cup	Biomet	Stanmore Modular Stem	4	<1%	No
Biomet	Regenerex Ringloc+	Biomet	Arcos	4	<1%	No
DePuy	Elite Plus Cemented Cup	DePuy	C-Stem Cemented Stem	4	<1%	No
DePuy	Elite Plus Ogee	DePuy	Corail	4	<1%	No
DePuy	Elite Plus Ogee	Zimmer	ZMR	4	<1%	Yes
DePuy	Marathon	DePuy	Charnley Modular	4	<1%	No
DePuy	Pinnacle	DePuy	Trilock BPS	4	<1%	No
DePuy	Pinnacle	Waldemar Link	MP Revision	4	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF Plus	DePuy	C-Stem AMT Cemented Stem	4	<1%	Yes
Lima	Lima/WG Revision Cup	Zimmer	Versys Cementless Stem	4	<1%	Yes
Orthodynamics	Novae	Stryker	Exeter V40	4	<1%	Yes
Orthodynamics	Novae Stick	Stryker	Exeter V40	4	<1%	Yes
Smith & Nephew	EP-Fit Plus	Smith & Nephew	CPS Plus	4	<1%	No
Smith & Nephew	EP-Fit Plus	Stryker	Exeter V40	4	<1%	Yes
Smith & Nephew	Reflection Cementless	Smith & Nephew	Anthology	4	<1%	No
Stryker	Contemporary	DePuy	S-Rom Cementless Stem	4	<1%	Yes
Stryker	Trident	Smith & Nephew	Echelon Cementless Stem	4	<1%	Yes
Wright Medical UK Ltd	Procotyl	Stryker	Exeter V40	4	<1%	Yes
Zimmer	Continuum	Zimmer	MS-30	4	<1%	No
Zimmer	Trabecular Metal Cementless Cup	Corin	Taperfit Cemented Stem	4	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	DePuy	Kar	4	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	DePuy	Reef	4	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Orthodynamics	Cannulok Cementless Stem	4	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Zimmer	Synergy Cementless Stem	4	<1%	No
Biomet	Avantage	Zimmer	CPT	3	<1%	Yes

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Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Biomet	Exceed	Biomet	Taperloc Cementless Stem	3	<1%	No
Biomet	Exceed ABT	Biomet	Taperloc Cemented Stem	3	<1%	No
Biomet	Exceed ABT	Zimmer	CPT	3	<1%	Yes
Biomet	Mallory-Head Cementless Cup	Biomet	Reach	3	<1%	No
Biomet	Regenerex Ringloc+	Biomet	Arcos Cone	3	<1%	No
Biomet	Regenerex Ringloc+	Biomet	Bimetric Cementless Stem	3	<1%	No
Biomet	Regenerex Ringloc+	DePuy	C-Stem Cemented Stem	3	<1%	Yes
Corin	Cenator Cemented Cup	Zimmer	Revitan Cementless Stem	3	<1%	Yes
DePuy	Charnley Cemented Cup	Stryker	Exeter V40	3	<1%	Yes
DePuy	Duraloc Cementless Cup	Stryker	Exeter V40	3	<1%	Yes
DePuy	Elite Plus Cemented Cup	DePuy	Corail	3	<1%	No
DePuy	Elite Plus Cemented Cup	DePuy	C-Stem AMT Cemented Stem	3	<1%	No
DePuy	Marathon	Zimmer	CPT	3	<1%	Yes
DePuy	Pinnacle	DePuy	Corail Cemented	3	<1%	No
DePuy	Pinnacle	Orthodynamics	Cannulok Cementless Stem	3	<1%	Yes
FH Orthopaedics	Atlas IIIIP	Zimmer	ZMR	3	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	3	<1%	No
Joint Replacement Instrumentation Ltd	CSF Plus	Stryker	Exeter V40	3	<1%	Yes
Lima	Lima/WG Revision Cup	DePuy	Trilock BPS	3	<1%	Yes
Lima	Lima/WG Revision Cup	Stryker	Accolade	3	<1%	Yes
Lima	Lima/WG Revision Cup	Stryker	Exeter V40	3	<1%	Yes
Lima	Lima/WG Revision Cup	Zimmer	CPT	3	<1%	Yes
Smith & Nephew	Opera	Stryker	Restoration Cementless Stem	3	<1%	Yes
Smith & Nephew	R3 Cementless	Smith & Nephew	Polarstem Cementless	3	<1%	No
Stryker	Contemporary	Orthodynamics	Cannulok Cementless Stem	3	<1%	Yes
Stryker	Contemporary	Peter Brehm GmbH	Peter Brehm Revision Stem	3	<1%	Yes
Stryker	Contemporary	Waldemar Link	MP Revision	3	<1%	Yes
Stryker	Secure Fit Cementless Cup	Biomet	Mallory-Head Cementless Stem	3	<1%	Yes
Stryker	Secure Fit Cementless Cup	Stryker	Exeter V40	3	<1%	No
Stryker	Trident	Corin	miniHip	3	<1%	Yes
Stryker	Trident	DePuy	Reef	3	<1%	Yes



Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Waldemar Link	Interplanta	Waldemar Link	SP II Cemented Stem	3	<1%	No
Zimmer	Continuum	DePuy	S-Rom Cementless Stem	3	<1%	Yes
Zimmer	Continuum	Zimmer	M/L Taper Cementless	3	<1%	No
Zimmer	Low Profile Muller	Zimmer	Muller Str Stem	3	<1%	No
Zimmer	Trabecular Metal Cementless Cup	Biomet	Stanmore Modular Stem	3	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	DePuy	Corail Revision	3	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Finsbury	Freeman Cementless	3	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Joint Replacement Instrumentation Ltd	Securus	3	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Smith & Nephew	Synergy Cementless Stem	3	<1%	Yes
Zimmer	ZCA	Stryker	Exeter V40	3	<1%	Yes
B Braun / Aesculap	Chirulen	B Braun / Aesculap	Excia-Cemented	2	<1%	No
B Braun / Aesculap	Plasmacup Cementless Cup	B Braun / Aesculap	Excia	2	<1%	No
Biomet	Avantage	Biomet	Taperloc Cementless Stem	2	<1%	No
Biomet	Custom	Zimmer	ZMR	2	<1%	Yes
Biomet	Exceed	Stryker	Exeter V40	2	<1%	Yes
Biomet	Exceed ABT	Biomet	Bimetric Cementless Stem	2	<1%	No
Biomet	Exceed ABT	Biomet	Stanmore Modular Stem	2	<1%	No
Biomet	Mallory-Head Cementless Cup	Corin	C Fit	2	<1%	Yes
Biomet	Mallory-Head Cementless Cup	Lima	Lima/WG Revision Stem	2	<1%	Yes
Biomet	Regenerex Revision	Biomet	Arcos Cone	2	<1%	No
Biomet	Regenerex Revision	Stryker	Restoration Cementless Stem	2	<1%	Yes
Biomet	Regenerex Ringloc+	Biomet	Conelock	2	<1%	No
Biomet	Regenerex Ringloc+	DePuy	Reef	2	<1%	Yes
Corin	Trinity	Wright Medical UK Ltd	Profemur Cementless Stem	2	<1%	Yes
DePuy	Duraloc Option	Stryker	Exeter V40	2	<1%	Yes
DePuy	Elite Plus Cemented Cup	Biomet	Stanmore Modular Stem	2	<1%	Yes
DePuy	Elite Plus Cemented Cup	Stryker	Restoration Cementless Stem	2	<1%	Yes
DePuy	Elite Plus Ogee	DePuy	Reef	2	<1%	No
DePuy	Gyros	DePuy	S-Rom Cementless Stem	2	<1%	No

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Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	Pinnacle	Biomet	Stanmore Modular Stem	2	<1%	Yes
DePuy	Pinnacle	DePuy	Depuy Proxima	2	<1%	No
DePuy	Pinnacle	DePuy	LPS	2	<1%	No
DePuy	Pinnacle	Joint Replacement Instrumentation Ltd	Securus	2	<1%	Yes
DePuy	Pinnacle	Peter Brehm GmbH	Peter Brehm Revision Stem	2	<1%	Yes
DePuy	Pinnacle	Smith & Nephew	CPCS	2	<1%	Yes
DePuy	Pinnacle	Zimmer	Revitan Cementless Stem	2	<1%	Yes
FH Orthopaedics	Atlas IIIP	Zimmer	Revitan Cementless Stem	2	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF	Joint Replacement Instrumentation Ltd	Securus	2	<1%	No
Joint Replacement Instrumentation Ltd	CSF Plus	Zimmer	CPT	2	<1%	Yes
Joint Replacement Instrumentation Ltd	JRI Revision Cup	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	2	<1%	No
Lima	Delta TT	Lima	Modulus	2	<1%	No
Lima	Lima Delta Revision	DePuy	Corail	2	<1%	Yes
Lima	Lima Delta Revision	Stryker	Restoration Cementless Stem	2	<1%	Yes
Mathys Orthopaedics Ltd	RM Mathys	Mathys Orthopaedics Ltd	Mathys Revision Stem	2	<1%	No
Orthodynamics	Novae Stick	DePuy	Solution Cementless Stem	2	<1%	Yes
Smith & Nephew	Polarcup Cemented	Zimmer	CPT	2	<1%	Yes
Smith & Nephew	R3 Cementless	Smith & Nephew	Echelon Cementless Stem	2	<1%	No
Smith & Nephew	Reflection Cemented	Corin	Taperfit Cemented Stem	2	<1%	Yes
Smith & Nephew	Reflection Cementless	Smith & Nephew	Synergy Cementless Stem	2	<1%	No
Stryker	Contemporary	DePuy	Corail	2	<1%	Yes
Stryker	Contemporary	Waldemar Link	SP II Cemented Revision	2	<1%	Yes
Stryker	Contemporary	Zimmer	CPT	2	<1%	Yes
Stryker	Custom	Stryker	Exeter V40	2	<1%	No
Stryker	Exeter Rimfit	Waldemar Link	SP II Cemented Revision	2	<1%	Yes
Stryker	Exeter Rimfit	Zimmer	ZMR	2	<1%	Yes
Stryker	Trident	DePuy	C-Stem Cemented Stem	2	<1%	Yes
Stryker	Trident	Orthodynamics	Cannulok Cementless Stem	2	<1%	Yes
Stryker	Trident	Peter Brehm GmbH	Peter Brehm Revision Stem	2	<1%	Yes



Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Stryker	Tritanium	DePuy	C-Stem Cemented Stem	2	<1%	Yes
Stryker	Tritanium	Waldemar Link	SP II Cemented Revision	2	<1%	Yes
Waldemar Link	Snap Fit	Waldemar Link	SP II Cemented Stem	2	<1%	No
Zimmer	Allofit	Zimmer	MS-30	2	<1%	No
Zimmer	Continuum	Lima	Lima/WG Revision Stem	2	<1%	Yes
Zimmer	Continuum	Zimmer	M/L Taper	2	<1%	No
Zimmer	Custom	Zimmer	Custom	2	<1%	No
Zimmer	FM IT	Zimmer	Versys Cementless Stem	2	<1%	No
Zimmer	Low Profile Muller	DePuy	Solution Cementless Stem	2	<1%	Yes
Zimmer	Low Profile Muller	Zimmer	CLS Cementless Stem	2	<1%	No
Zimmer	Low Profile Muller	Zimmer	MS-30	2	<1%	No
Zimmer	Low Profile Muller	Zimmer	P10 Muller	2	<1%	No
Zimmer	Trabecular Metal Cementless Cup	B Braun / Aesculap	Prevision Cemented Stem	2	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Biomet	Bimetric Cementless Stem	2	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	2	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Peter Brehm GmbH	Peter Brehm Revision Stem	2	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Smith & Nephew	Echelon Cementless Stem	2	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Symbios SA	SPS	2	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Zimmer	Zweymuller	2	<1%	No
Zimmer	Trilogy	DePuy	Reef	2	<1%	Yes
Zimmer	Trilogy	Smith & Nephew	Echelon Cementless Stem	2	<1%	Yes
Amplitude	Saturne	DePuy	Corail	1	<1%	Yes
Amplitude	Saturne	DePuy	S-Rom Cementless Stem	1	<1%	Yes
Amplitude	Saturne	Zimmer	CPT	1	<1%	Yes
B Braun / Aesculap	Chirulen	B Braun / Aesculap	Excia	1	<1%	No
B Braun / Aesculap	Plasmacup Cementless Cup	B Braun / Aesculap	Centrament	1	<1%	No
B Braun / Aesculap	Plasmacup Cementless Cup	Biomet	Stanmore Modular Stem	1	<1%	Yes
B Braun / Aesculap	Plasmacup Cementless Cup	DePuy	Reef	1	<1%	Yes
B Braun / Aesculap	Plasmacup Cementless Cup	DePuy	Trilock BPS	1	<1%	Yes

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Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
B Braun / Aesculap	Plasmacup Cementless Cup	Stryker	Exeter V40	1	<1%	Yes
Biomet	Avantage	Biomet	Taperloc Cemented Stem	1	<1%	No
Biomet	Avantage	DePuy	Kar	1	<1%	Yes
Biomet	Avantage	DePuy	S-Rom Cementless Stem	1	<1%	Yes
Biomet	Avantage	Smith & Nephew	CPCS	1	<1%	Yes
Biomet	Avantage Cemented Cup	Biomet	Arcos Cone	1	<1%	No
Biomet	Avantage Cemented Cup	Smith & Nephew	Echelon Cementless Stem	1	<1%	Yes
Biomet	Avantage Cemented Cup	Zimmer	CPT	1	<1%	Yes
Biomet	Custom	Biomet	Stanmore Modular Stem	1	<1%	No
Biomet	Custom	Biomet	Taperloc Cementless Stem	1	<1%	No
Biomet	Custom	Corin	Taperfit Cemented Stem	1	<1%	Yes
Biomet	Custom	Stryker	Exeter V40	1	<1%	Yes
Biomet	Custom	Zimmer	CPT	1	<1%	Yes
Biomet	Exceed	Waldemar Link	MP Revision	1	<1%	Yes
Biomet	Exceed ABT	Biomet	Arcos	1	<1%	No
Biomet	Exceed ABT	Biomet	Arcos Cone	1	<1%	No
Biomet	Exceed ABT	Biomet	Reach	1	<1%	No
Biomet	Exceed ABT	DePuy	S-Rom Cementless Stem	1	<1%	Yes
Biomet	Exceed ABT	Joint Replacement Instrumentation Ltd	Furlong HAC Revision Stem	1	<1%	Yes
Biomet	Exceed ABT	Stryker	Restoration Cementless Stem	1	<1%	Yes
Biomet	Exceed ABT	Waldemar Link	MP Revision	1	<1%	Yes
Biomet	Exceed ABT Cemented	Biomet	Stanmore Modular Stem	1	<1%	No
Biomet	Mallory-Head Cementless Cup	Orthodynamics	Cannulok Cementless Stem	1	<1%	Yes
Biomet	Mallory-Head Cementless Cup	Stryker	Restoration Cementless Stem	1	<1%	Yes
Biomet	Mallory-Head Cementless Cup	Wright Medical UK Ltd	Profemur Cementless Stem	1	<1%	Yes
Biomet	Mallory-Head Cementless Cup	Zimmer	ZMR	1	<1%	Yes
Biomet	Ranawat/Burstein	Stryker	Exeter V40	1	<1%	Yes
Biomet	Recap Magnum	Biomet	Stanmore Modular Stem	1	<1%	No
Biomet	Recap Magnum	Biomet	Taperloc Cemented Stem	1	<1%	No
Biomet	Regenerex Revision	DePuy	Corail	1	<1%	Yes
Biomet	Regenerex Revision	Smith & Nephew	CPCS	1	<1%	Yes



Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Biomet	Regenerex Ringloc+	Biomet	Muller-Biomet	1	<1%	No
Biomet	Regenerex Ringloc+	Biomet	Olympia	1	<1%	No
Biomet	Regenerex Ringloc+	Biomet	Taperloc Cemented Stem	1	<1%	No
Biomet	Regenerex Ringloc+	Joint Replacement Instrumentation Ltd	Furlong HAC Revision Stem	1	<1%	Yes
Biomet	Regenerex Ringloc+	Peter Brehm GmbH	Peter Brehm Revision Stem	1	<1%	Yes
Biomet	Regenerex Ringloc+	Stryker	Accolade	1	<1%	Yes
Biomet	Ringloc	Zimmer	CPT	1	<1%	Yes
Biomet	SHP Cup	Biomet	Bimetric Cementless Stem	1	<1%	No
Biomet	SHP Cup	Biomet	Stanmore Modular Stem	1	<1%	No
Biomet	Stanmore-Arcorn Cup	Biomet	Bimetric Cementless Stem	1	<1%	No
Biomet	Stanmore-Arcorn Cup	Biomet	Stanmore Modular Stem	1	<1%	No
Biomet	Stanmore-Arcorn Cup	Corin	Oxford Universal Hip (Corin) Cementless Stem	1	<1%	Yes
Biomet	Stanmore-Arcorn Cup	Joint Replacement Instrumentation Ltd	Furlong Cemented Stem	1	<1%	Yes
Corin	Cenator Cemented Cup	Corin	Taperfit Cemented Stem	1	<1%	No
Corin	Cenator Cemented Cup	DePuy	Corail	1	<1%	Yes
Corin	Cenator Cemented Cup	Orthodynamics	Cannulok Cementless Stem	1	<1%	Yes
Corin	Trinity	DePuy	Kar	1	<1%	Yes
Corin	Trinity	Peter Brehm GmbH	Peter Brehm Revision Stem	1	<1%	Yes
Corin	Trinity	Waldemar Link	SP II Cemented Stem	1	<1%	Yes
Corin	Trinity	Zimmer	CPT	1	<1%	Yes
DePuy	Charnley Cemented Cup	Zimmer	CPT	1	<1%	Yes
DePuy	Charnley Ogee	DePuy	Charnley Cemented Stem	1	<1%	No
DePuy	Charnley Ogee	DePuy	C-Stem Cemented Stem	1	<1%	No
DePuy	DeltaMotion	DePuy	Trilock BPS	1	<1%	No
DePuy	DeltaMotion	Stryker	Restoration Cementless Stem	1	<1%	Yes
DePuy	Duraloc Cementless Cup	Biomet	Olympia	1	<1%	Yes
DePuy	Duraloc Cementless Cup	DePuy	Corail Revision	1	<1%	No
DePuy	Duraloc Option	DePuy	Corail	1	<1%	No
DePuy	Elite Plus Cemented Cup	DePuy	Charnley Modular	1	<1%	No
DePuy	Elite Plus Cemented Cup	DePuy	Elite Plus Cemented Stem	1	<1%	No

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Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	Elite Plus Cemented Cup	Mathys Orthopaedics Ltd	Twinsys Cementless 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	Biomet	Arcos Cone	1	<1%	Yes
DePuy	Elite Plus Ogee	DePuy	Corail Revision	1	<1%	No
DePuy	Elite Plus Ogee	DePuy	Kar	1	<1%	No
DePuy	Elite Plus Ogee	DePuy	Wroblewski Resection	1	<1%	No
DePuy	Elite Plus Ogee	Joint Replacement Instrumentation Ltd	Furlong Cemented Hemiarthroplasty	1	<1%	Yes
DePuy	Elite Plus Ogee	Mathys Orthopaedics Ltd	Twinsys Cementless Stem	1	<1%	Yes
DePuy	Elite Plus Ogee	Smith & Nephew	Echelon Cementless Stem	1	<1%	Yes
DePuy	Elite Plus Ogee	Stryker	Restoration Cemented Stem	1	<1%	Yes
DePuy	Elite Plus Ogee	Zimmer	GMRS Cementless	1	<1%	Yes
DePuy	Elite Plus Ogee	Zimmer	Revitan Cementless Stem	1	<1%	Yes
DePuy	Gyros	Biomet	Reach	1	<1%	Yes
DePuy	Gyros	DePuy	C-Stem AMT Cemented Stem	1	<1%	No
DePuy	Gyros	DePuy	Depuy Proxima	1	<1%	No
DePuy	Gyros	Peter Brehm GmbH	Peter Brehm Revision Stem	1	<1%	Yes
DePuy	Gyros	Zimmer	CPT	1	<1%	Yes
DePuy	Marathon	DePuy	Corail Cemented	1	<1%	No
DePuy	Marathon	DePuy	S-Rom Cementless Stem	1	<1%	No
DePuy	Marathon	Mathys Orthopaedics Ltd	Twinsys Cementless Stem	1	<1%	Yes
DePuy	Marathon	Stanmore Implants Worldwide	Custom	1	<1%	Yes
DePuy	Octopus	Zimmer	Muller Str Stem	1	<1%	Yes
DePuy	Pinnacle	DePuy	Charnley Modular	1	<1%	No
DePuy	Pinnacle	Joint Replacement Instrumentation Ltd	Furlong Cemented Hemiarthroplasty	1	<1%	Yes
DePuy	Pinnacle	Joint Replacement Instrumentation Ltd	Furlong HAC Revision Stem	1	<1%	Yes
DePuy	Pinnacle	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	1	<1%	Yes
DePuy	Pinnacle	Wright Medical UK Ltd	Ancafit Cementless Stem	1	<1%	Yes
DePuy	Pinnacle	Wright Medical UK Ltd	Profemur Cemented Stem	1	<1%	Yes



Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
DePuy	Pinnacle	Zimmer	Kinectiv Cemented	1	<1%	Yes
DePuy	Wroblewski Golf Ball	DePuy	Wroblewski Resection	1	<1%	No
Exactech (UK) Ltd	Acumatch Cup	Biomet	Reach	1	<1%	Yes
Exactech (UK) Ltd	Acumatch Cup	Corin	Oxford Universal Hip (Corin) Cementless Stem	1	<1%	Yes
FH Orthopaedics	Atlas IIIP	Stryker	Exeter V40	1	<1%	Yes
FH Orthopaedics	Atlas IIIP	Waldemar Link	MP Revision	1	<1%	Yes
Implants International	Edinburgh Cup	Implants International	Edinburgh	1	<1%	No
Joint Replacement Instrumentation Ltd	CSF	Joint Replacement Instrumentation Ltd	Furlong Cemented Stem	1	<1%	No
Joint Replacement Instrumentation Ltd	CSF Plus	Biomet	Olympia	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF Plus	DePuy	Corail	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF Plus	Orthodynamics	Cannulok Cementless Stem	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF Plus	Zimmer	MS-30	1	<1%	Yes
Joint Replacement Instrumentation Ltd	CSF Plus	Zimmer	ZMR	1	<1%	Yes
Joint Replacement Instrumentation Ltd	JRI Cemented Cup	DePuy	Corail Cemented	1	<1%	Yes
Joint Replacement Instrumentation Ltd	JRI Cemented Cup	DePuy	C-Stem AMT Cemented Stem	1	<1%	Yes
Joint Replacement Instrumentation Ltd	JRI Cemented Cup	Joint Replacement Instrumentation Ltd	Furlong Cemented Stem	1	<1%	No
Joint Replacement Instrumentation Ltd	JRI Cemented Cup	Zimmer	Muller Str Stem	1	<1%	Yes
Lima	Delta TT	Biomet	Stanmore Modular Stem	1	<1%	Yes
Lima	Delta TT	DePuy	Reef	1	<1%	Yes
Lima	Delta TT	DePuy	Trilock BPS	1	<1%	Yes
Lima	Delta TT	Finsbury	Stemcup	1	<1%	Yes
Lima	Delta TT	Zimmer	Versys Cementless Stem	1	<1%	Yes
Lima	Delta TT	Zimmer	ZMR	1	<1%	Yes
Lima	Lima Delta Revision	Biomet	Arcos Cone	1	<1%	Yes
Lima	Lima Delta Revision	Biomet	Taperloc Cemented Stem	1	<1%	Yes
Lima	Lima Delta Revision	DePuy	C-Stem Cemented Stem	1	<1%	Yes
Lima	Lima Delta Revision	DePuy	Kar	1	<1%	Yes
Lima	Lima Delta Revision	Lima	H-Max	1	<1%	No
Lima	Lima Delta Revision	Lima	Lima SL	1	<1%	No

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Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Lima	Lima Delta Revision	Stryker	Accolade	1	<1%	Yes
Lima	Lima/WG Revision Cup	Biomet	Arcos	1	<1%	Yes
Lima	Lima/WG Revision Cup	Biomet	Arcos Cone	1	<1%	Yes
Lima	Lima/WG Revision Cup	Biomet	Muller-Biomet	1	<1%	Yes
Lima	Lima/WG Revision Cup	DePuy	S-Rom Cementless Stem	1	<1%	Yes
Lima	Lima/WG Revision Cup	Orthodynamics	Cannulok Cementless Stem	1	<1%	Yes
Mathys Orthopaedics Ltd	RM Mathys	DePuy	Corail	1	<1%	Yes
Mathys Orthopaedics Ltd	RM Mathys	Stryker	Restoration Cementless Stem	1	<1%	Yes
Medacta UK Ltd	Versafit	Medacta UK Ltd	Amis	1	<1%	No
Orthodynamics	Novae	Orthodynamics	Cannulok Cementless Stem	1	<1%	No
Orthodynamics	Novae	Zimmer	ZMR	1	<1%	Yes
Orthodynamics	Novae Coptos	Stryker	Exeter V40	1	<1%	Yes
Orthodynamics	Novae SF	DePuy	Solution Cementless Stem	1	<1%	Yes
Orthodynamics	Novae SF	Stryker	Exeter V40	1	<1%	Yes
Orthodynamics	Novae Stick	DePuy	Corail	1	<1%	Yes
Orthodynamics	Novae Stick	Stryker	GMRS	1	<1%	Yes
Orthodynamics	Novae Stick	Stryker	Restoration Cemented Stem	1	<1%	Yes
Orthodynamics	Sunfit	DePuy	C-Stem Cemented Stem	1	<1%	Yes
Smith & Nephew	Custom	Smith & Nephew	Anthology	1	<1%	No
Smith & Nephew	EP-Fit Plus	Smith & Nephew	SL-Plus Cementless Stem	1	<1%	No
Smith & Nephew	EP-Fit Plus	Smith & Nephew	SLR-Plus Cementless Stem	1	<1%	No
Smith & Nephew	EPF-Plus	Smith & Nephew	SL-Plus Cementless Stem	1	<1%	No
Smith & Nephew	MPF	DePuy	Reef	1	<1%	Yes
Smith & Nephew	Opera	DePuy	Charnley Cemented Stem	1	<1%	Yes
Smith & Nephew	Opera	DePuy	C-Stem AMT Cemented Stem	1	<1%	Yes
Smith & Nephew	Opera	DePuy	S-Rom Cementless Stem	1	<1%	Yes
Smith & Nephew	Opera	Orthodynamics	Cannulok Cementless Stem	1	<1%	Yes
Smith & Nephew	Opera	Orthodynamics	LMT	1	<1%	Yes
Smith & Nephew	Polarcup Cemented	Smith & Nephew	CPCS	1	<1%	No
Smith & Nephew	Polarcup Cemented	Zimmer	ZMR	1	<1%	Yes
Smith & Nephew	Polarcup Cementless	Smith & Nephew	SLR-Plus Cementless Stem	1	<1%	No



Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Smith & Nephew	Polarcup Cementless	Zimmer	CPT	1	<1%	Yes
Smith & Nephew	R3 Cementless	Lima	Lima/WG Revision Stem	1	<1%	Yes
Smith & Nephew	R3 Cementless	Smith & Nephew	Echelon Cemented Stem	1	<1%	No
Smith & Nephew	R3 Cementless	Smith & Nephew	MDF Modular	1	<1%	No
Smith & Nephew	R3 Cementless	Smith & Nephew	Spectron	1	<1%	No
Smith & Nephew	Reflection Cemented	Smith & Nephew	Anthology	1	<1%	No
Smith & Nephew	Reflection Cemented	Smith & Nephew	Echelon Cementless Stem	1	<1%	No
Smith & Nephew	Reflection Cemented	Smith & Nephew	Spectron	1	<1%	No
Smith & Nephew	Reflection Cemented	Stryker	Exeter V40	1	<1%	Yes
Smith & Nephew	Reflection Cemented	Zimmer	Revitan Cementless Stem	1	<1%	Yes
Smith & Nephew	Reflection Cementless	Smith & Nephew	CPCS	1	<1%	No
Smith & Nephew	Reflection Cementless	Smith & Nephew	MDF Modular	1	<1%	No
Stryker	ABG II Cementless Cup	Stryker	Exeter V40	1	<1%	No
Stryker	Contemporary	Biomet	Arcos	1	<1%	Yes
Stryker	Contemporary	Biomet	Arcos Cone	1	<1%	Yes
Stryker	Contemporary	Biomet	Taperloc Cementless Stem	1	<1%	Yes
Stryker	Contemporary	Corin	Taperfit Cemented Stem	1	<1%	Yes
Stryker	Contemporary	DePuy	C-Stem Cemented Stem	1	<1%	Yes
Stryker	Contemporary	DePuy	Kar	1	<1%	Yes
Stryker	Contemporary	DePuy	Solution Cementless Stem	1	<1%	Yes
Stryker	Contemporary	Joint Replacement Instrumentation Ltd	Furlong Cemented Stem	1	<1%	Yes
Stryker	Contemporary	Smith & Nephew	Echelon Cemented Stem	1	<1%	Yes
Stryker	Contemporary	Smith & Nephew	Echelon Cementless Stem	1	<1%	Yes
Stryker	Contemporary	Wright Medical UK Ltd	Profemur Cementless Stem	1	<1%	Yes
Stryker	Exeter Duration	Biomet	Stanmore Modular Stem	1	<1%	Yes
Stryker	Exeter Duration	Zimmer	CPT	1	<1%	Yes
Stryker	Exeter Rimfit	Corin	Metafix Stem	1	<1%	Yes
Stryker	Exeter Rimfit	DePuy	Reef	1	<1%	Yes
Stryker	Exeter Rimfit	Stryker	Accolade	1	<1%	No
Stryker	Exeter Rimfit	Waldemar Link	MP Revision	1	<1%	Yes
Stryker	ODC	Stryker	Exeter V40	1	<1%	No
Stryker	Restoration Gap2	Joint Replacement Instrumentation Ltd	Furlong Cemented Stem	1	<1%	Yes

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Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Stryker	Restoration Gap2	Stryker	Restoration Cementless Stem	1	<1%	No
Stryker	Restoration Gap2	Waldemar Link	MP Revision	1	<1%	Yes
Stryker	Restoration Gap2	Zimmer	CPT	1	<1%	Yes
Stryker	Secure Fit Cementless Cup	Stryker	Restoration Cementless Stem	1	<1%	No
Stryker	Trident	Biomet	Tapeloc Cementless Stem	1	<1%	Yes
Stryker	Trident	DePuy	Kar	1	<1%	Yes
Stryker	Trident	DePuy	S-Rom Cementless Stem	1	<1%	Yes
Stryker	Trident	Joint Replacement Instrumentation Ltd	Furlong HAC Revision Stem	1	<1%	Yes
Stryker	Trident	Joint Replacement Instrumentation Ltd	Furlong LOL	1	<1%	Yes
Stryker	Trident	Stryker	Omnifit Cementless Stem	1	<1%	No
Stryker	Trident	Waldemar Link	MP Revision	1	<1%	Yes
Stryker	Trident	Waldemar Link	SP II Cemented Revision	1	<1%	Yes
Stryker	Trident	Waldemar Link	SP II Cemented Stem	1	<1%	Yes
Stryker	Trident	Zimmer	CLS Cementless Stem	1	<1%	Yes
Stryker	Titanium	DePuy	C-Stem AMT Cemented Stem	1	<1%	Yes
Stryker	Titanium	Joint Replacement Instrumentation Ltd	Furlong HAC Stem	1	<1%	Yes
Stryker	Titanium	Smith & Nephew	Spectron	1	<1%	Yes
Stryker	Titanium	Stryker	Omnifit Cementless Stem	1	<1%	No
Stryker	Titanium	Waldemar Link	MP Revision	1	<1%	Yes
Waldemar Link	Snap Fit	Biomet	Muller-Biomet	1	<1%	Yes
Waldemar Link	Snap Fit	DePuy	Charnley Modular	1	<1%	Yes
Zimmer	Allofit	Zimmer	CPT	1	<1%	No
Zimmer	Allofit	Zimmer	ZMR	1	<1%	No
Zimmer	Continuum	B Braun / Aesculap	Prevision Cemented Stem	1	<1%	Yes
Zimmer	Continuum	Joint Replacement Instrumentation Ltd	Furlong Cemented Hemiarthroplasty	1	<1%	Yes
Zimmer	Continuum	Joint Replacement Instrumentation Ltd	Securus	1	<1%	Yes
Zimmer	Continuum	Smith & Nephew	SL-Plus Cementless Stem	1	<1%	Yes
Zimmer	Continuum	Waldemar Link	MP Revision	1	<1%	Yes
Zimmer	Continuum	Zimmer	CLS Cementless Stem	1	<1%	No
Zimmer	Continuum	Zimmer	Mayo Cemented Stem	1	<1%	No

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Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	Continuum	Zimmer	ML	1	<1%	No
Zimmer	Custom	Zimmer	CPT	1	<1%	No
Zimmer	Low Profile Muller	Biomet	Muller-Biomet	1	<1%	Yes
Zimmer	Low Profile Muller	DePuy	Corail	1	<1%	Yes
Zimmer	Low Profile Muller	Finsbury	Freeman Cemented Finsbury	1	<1%	Yes
Zimmer	Low Profile Muller	Joint Replacement Instrumentation Ltd	Furlong HAC Revision Stem	1	<1%	Yes
Zimmer	Low Profile Muller	Joint Replacement Instrumentation Ltd	Securus	1	<1%	Yes
Zimmer	Low Profile Muller	Stryker	Exeter V40	1	<1%	Yes
Zimmer	Low Profile Muller	Waldemar Link	SP II Cemented Revision	1	<1%	Yes
Zimmer	Low Profile Muller	Zimmer	Revitan Cementless Stem	1	<1%	No
Zimmer	Trabecular Metal Cementless Cup	Biomet	Reach	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Corin	Metafix Stem	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	DePuy	C-Stem AMT Cemented Stem	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Finsbury	Freeman Cemented Finsbury	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Joint Replacement Instrumentation Ltd	Furlong Cemented Stem	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Joint Replacement Instrumentation Ltd	Furlong HAC Revision Stem	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Smith & Nephew	Anthology	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Smith & Nephew	CPCS	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Smith & Nephew	Polarstem Cementless	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Smith & Nephew	Spectron	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Stryker	Omnifit Cemented Stem	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Waldemar Link	SP II Cemented Revision	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	Guardian Cementless Stem	1	<1%	Yes
Zimmer	Trabecular Metal Cementless Cup	Zimmer	GMRS Cementless	1	<1%	No
Zimmer	Trabecular Metal Cementless Cup	Zimmer	M/L Taper Cementless	1	<1%	No
Zimmer	Trabecular Metal Cementless Cup	Zimmer	ZMR Cemented Stem	1	<1%	No

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Table 9(b) continued

Cup manufacturer	Cup brand	Stem manufacturer	Stem brand	Number of procedures	%	Mix and match
Zimmer	Trabecular Metal Natural Cup	Corin	Taperfit Cemented Stem	1	<1%	Yes
Zimmer	Trabecular Metal Natural Cup	Zimmer	Versys Cementless Stem	1	<1%	No
Zimmer	Trilogy	DePuy	Charnley Modular	1	<1%	Yes
Zimmer	Trilogy	DePuy	S-Rom Cementless Stem	1	<1%	Yes
Zimmer	Trilogy	Joint Replacement Instrumentation Ltd	Furlong HAC Revision Stem	1	<1%	Yes
Zimmer	Trilogy	Smith & Nephew	CPCS	1	<1%	Yes
Zimmer	Trilogy	Zimmer	ML	1	<1%	No
Zimmer	Trilogy	Zimmer	Revitan Cementless Stem	1	<1%	No
Zimmer	ZCA	Stryker	Restoration Cementless Stem	1	<1%	Yes
Zimmer	ZCA	Zimmer	Revitan Cementless Stem	1	<1%	No
Zimmer	Zimmer Cemented Cup	Stryker	Exeter V40	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 127 brands of acetabular cups (excluding resurfacing cups) used in 2011, an increase from 2010 when 123 brands were used. There were 162 brands of femoral stems used in 2011, also an increase from 2010 (146). In addition to conventional hip resurfacing procedures, there were 217 procedures entered

into the NJR where a resurfacing cup was used in conjunction with a large diameter modular head and a conventional modular stem, compared with 999 in 2010. 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 in 2011). There has also been an increase in the use of larger sizes of femoral heads (greater than 32mm).

2 Prostheses used in knee procedures 2011

This section reports the numbers of prostheses implanted and reported to the NJR between 1 January and 31 December 2011.

The procedure counts in this section of the report may vary to the procedure counts in Part Two of the Annual Report. This section counts only those procedures where the implants being described have been used. Therefore, if a procedure has been submitted with missing implant information this will cause a mismatch with Part Two.

2.1 Prostheses entered into the NJR

52 brands of total condylar knee prostheses were used in primary procedures and 32 used in revision procedures. In addition, there were 15 brands of unicondylar prostheses, 6 brands of patello-femoral replacements and 15 brands of hinged knees. The number of brands for each prosthesis type is similar to 2010.

Tables 10(a) and 10(b) show the brands of primary and revision total condylar knee replacement prosthesis recorded in NJR for 2011.

Table 10(a) Brands for total condylar knee primary procedures performed during 2011.

Manufacturer	Brand	Number of procedures	%
		70,379	
DePuy	PFC Sigma Bicondylar Knee	26,385	37%
Zimmer	Nexgen	9,644	14%
Stryker	Triathlon	7,422	11%
Smith & Nephew	Genesis 2	6,775	10%
Biomet	AGC	6,049	9%
Biomet	Vanguard	4,300	6%
Stryker	Scorpio	2,637	4%
DePuy	LCS Complete	2,346	3%
B Braun / Aesculap	Columbus	724	1%
Wright Medical UK Ltd	Advance MP	665	<1%
Endo Plus (UK) Limited	Endoplus Bicondylar Knee	472	<1%
Finsbury	MRK	452	<1%
Exactech (UK) Ltd	Optetrak	351	<1%
B Braun / Aesculap	E-Motion Bicondylar Knee	297	<1%
Zimmer	Natural Knee II	216	<1%
Wright Medical UK Ltd	AMP Stature	198	<1%
Smith & Nephew	Profix	195	<1%
Implantcast GmbH	ACS	158	<1%
MATOrtho Limited	MRK	136	<1%
Corin	Rotaglide	133	<1%
Smith & Nephew	Journey	119	<1%
Biomet	Maxim	115	<1%
Wright Medical UK Ltd	Advance PS	97	<1%
Mathys Orthopaedics Ltd	Mathys Bicondylar Knee	77	<1%

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Table 10(a) continued

Manufacturer	Brand	Number of procedures	%
Corin	Rotaglide +	56	<1%
Smith & Nephew	TC Plus	47	<1%
Zimmer	Nexgen LCCK	47	<1%
Jointmedica Limited	Joint Medica Bicondylar	45	<1%
Euros	Euros Bicondylar	43	<1%
Exactech (UK) Ltd	Logic	30	<1%
MATOrtho Limited	DBK	24	<1%
Smith & Nephew	Legion	22	<1%
Medacta UK Ltd	GMK	21	<1%
Biomet	Alpina	20	<1%
Wright Medical UK Ltd	Insall-Burstein 2	18	<1%
DJO Surgical	3D	16	<1%
DePuy	Attune CR	4	<1%
Wright Medical UK Ltd	Advance CCK	4	<1%
Implants International	St Leger	3	<1%
Stryker	Kinemax	3	<1%
Finsbury	Saiph	2	<1%
MATOrtho Limited	Saiph	2	<1%
Stryker	NRG	2	<1%
ASDM	Asdm TCK	1	<1%
Biomet	CKS	1	<1%
Biomet	Oxford TMK	1	<1%
Corin	AMC	1	<1%
DePuy	PFC Bicondylar Knee	1	<1%
Forth Medical	St Leger	1	<1%
Wright Medical UK Ltd	Guardian	1	<1%

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Table 10(b) Brands for total condylar knee revision procedures performed during 2011.

Manufacturer	Brand	Number of procedures	%
		2,850	
DePuy	PFC Sigma Bicondylar Knee	1,055	37%
Zimmer	Nexgen LCCK	281	10%
Stryker	Triathlon	278	10%
Smith & Nephew	Legion	266	9%
Biomet	AGC	180	6%
Smith & Nephew	Genesis 2	162	6%
Zimmer	Nexgen	157	6%
Biomet	Vanguard	148	5%
Stryker	Scorpio	113	4%
Biomet	Maxim	86	3%
DePuy	LCS Complete	21	<1%
Exactech (UK) Ltd	Optetrak	16	<1%
Wright Medical UK Ltd	Advance CCK	15	<1%
Mathys Orthopaedics Ltd	Mathys Bicondylar Knee	11	<1%
Finsbury	MRK	8	<1%
Implantcast GmbH	ACS	7	<1%
MATOrtho Limited	MRK	7	<1%
Smith & Nephew	Profix	7	<1%
Wright Medical UK Ltd	Advance MP	6	<1%
B Braun / Aesculap	Columbus	4	<1%
Corin	Rotaglide	3	<1%
Endo Plus (UK) Limited	Endoplus Bicondylar Knee	3	<1%
Smith & Nephew	Journey	3	<1%
Wright Medical UK Ltd	AMP Stature	3	<1%
B Braun / Aesculap	E-Motion Bicondylar Knee	2	<1%
MATOrtho Limited	DBK	2	<1%
Corin	Rotaglide +	1	<1%
Endo Plus (UK) Limited	TC Plus	1	<1%
Finsbury	DBK	1	<1%
Finsbury	FS 1000	1	<1%
Zimmer	FS	1	<1%
Zimmer	Natural Knee II	1	<1%

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Table 11 Brands for primary and revision unicondylar knee replacement procedures performed during 2011.

Manufacturer	Brand	Number of procedures	%
		6,832	
Biomet	Oxford Partial Knee	4,648	68%
DePuy	Sigma HP	871	13%
Zimmer	Zimmer Unicompartmental	643	9%
Corin	AMC/Uniglide	314	5%
Stryker	Triathlon Uni	100	1%
Smith & Nephew	Genesis Uni	63	<1%
Mathys Orthopaedics Ltd	Mathys Unicondylar Knee	59	<1%
Waldemar Link	Sled	56	<1%
Zimmer	MG Uni	46	<1%
Smith & Nephew	Journey Uni	13	<1%
Tornier	HLS Evolution	9	<1%
Smith & Nephew	iUni G2	6	<1%
Medacta UK Ltd	GMK Uni	2	<1%
Endo Plus (UK) Limited	UC-Plus	1	<1%
Exactech (UK) Ltd	Optetrak Unicondylar	1	<1%

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Table 12 Brands for primary and revision patello-femoral joint replacement procedures performed during 2011.

Manufacturer	Brand	Number of procedures	%
		1,228	
Stryker	Avon	405	33%
Wright Medical UK Ltd	FPV	228	19%
DePuy	Sigma HP	214	17%
Smith & Nephew	Journey PFJ	198	16%
Zimmer	Zimmer PFJ	165	13%
Biomet	Vanguard PF	18	1%

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Table 13 Fixed and rotating hinged knee brands for primary and revision knee procedures performed during 2011.

Manufacturer	Brand	Number of procedures	%
		613	
Zimmer	Nexgen Hinge Type	130	21%
Stanmore Implants Worldwide	Smiles Knee	118	19%
Biomet	RHK	88	14%
Stryker	MRH	82	13%
DePuy	Noiles	81	13%
Endo Plus (UK) Limited	RT-Plus	58	9%
Zimmer	Zimmer Segmental System	15	2%
Biomet	OSS	11	2%
Wright Medical UK Ltd	Guardian Hinged/Linked Knee	9	1%
Smith & Nephew	RT-Plus	6	<1%
B Braun / Aesculap	EnduRo Hinge	4	<1%
Waldemar Link	Endo Hinge	4	<1%
Waldemar Link	Endo Rotating Hinge	3	<1%
Waldemar Link	Mega System C	3	<1%
B Braun / Aesculap	Axel II	1	<1%

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2.2 Usage of fixed versus mobile bearing tibial inserts

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

Table 14 Tibial insert type for primary and revision knee procedures performed during 2011.

Constraint	Number of procedures	%
	74,210	
Constrained condylar	1,606	2%
Posterior stabilised fixed	18,493	25%
Unconstrained fixed	48,559	65%
Posterior stabilised mobile	1,187	2%
Unconstrained mobile	4,365	6%

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3 Prostheses used in ankle procedures 2011

This section reports the numbers of prostheses implanted and reported to the NJR between 1 January and 31 December 2011.

Table 15(a) Brands for primary ankle procedures performed in 2011.

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Manufacturer	Brand	Number of procedures	%
		464	
DePuy	Mobility	265	57%
Corin	Zenith	102	22%
Finsbury	Box	27	6%
Sbi	Star	27	6%
Tornier	Salto	26	6%
Integra	Hintegra	16	3%
Biomet	Rebalance	1	<1%

Table 15(b) Brands for revision ankle procedures performed in 2011.

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Manufacturer	Brand	Number of procedures	%
		5	
DePuy	Mobility	4	80%
Tornier	Salto	1	20%

4 Cement use 2011

The majority of procedures involving cement used antibiotic-loaded rather than non-antibiotic cement. 88% of hip procedures and 96% of knee procedures and all ankle procedures using cement used antibiotic-

loaded cements. The brands of all cements used in hip (Table 17a), knee (Table 17b) and ankle procedures (Table 17c) are shown below.

Table 16 Type of cement used in hip, knee and ankle replacement procedures performed in 2011.

Joint	Cement Type	Number of procedures	%
		123,613	
Ankle	Antibiotic-loaded high viscosity	15	100%
Hip	Antibiotic-loaded high viscosity	34,363	77%
Hip	Antibiotic-loaded medium viscosity	4,512	10%
Hip	Antibiotic-loaded low viscosity	586	1%
Hip	High viscosity	1,464	3%
Hip	Medium viscosity	3,946	9%
Hip	Low viscosity	13	<1%
Knee	Antibiotic-loaded high viscosity	73,391	93%
Knee	Antibiotic-loaded medium viscosity	2,077	3%
Knee	Antibiotic-loaded low viscosity	362	<1%
Knee	High viscosity	1,540	2%
Knee	Medium viscosity	1,343	2%
Knee	Low viscosity	1	<1%

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Table 17(a) Brands of cement used in hip procedures performed in 2011.

Manufacturer	Brand	Cement type	Number of procedures	%
			46,779	
Heraeus Medical	Palacos Antibiotic	Antibiotic-loaded high viscosity	26,874	57%
Stryker	Simplex Antibiotic	Antibiotic-loaded medium viscosity	6,860	15%
Biomet	Biomet Refobacin	Antibiotic-loaded high viscosity	4,097	9%
DePuy	CMW2 Antibiotic Loaded Cement	Antibiotic-loaded high viscosity	2,840	6%
DePuy	CMW1 Antibiotic Loaded Cement	Antibiotic-loaded high viscosity	1,989	4%
Stryker	Simplex	Medium viscosity	1,010	2%
DePuy	Smartset HV Antibiotic Loaded Cement	Antibiotic-loaded high viscosity	841	2%
DePuy	CMW2 Plain Cement	High viscosity	831	2%
Heraeus Medical	Palacos	High viscosity	540	1%
DePuy	CMW3 Antibiotic Loaded Cement	Antibiotic-loaded medium viscosity	287	<1%
Heraeus Medical	Copal Antibiotic Loaded	Antibiotic-loaded medium viscosity	188	<1%
Biomet	Biomet Refobacin Revision	Antibiotic-loaded high viscosity	174	<1%
DePuy	CMW1 Plain Cement	High viscosity	92	<1%
DePuy	Smartset Endurance Antibiotic Loaded Cement	Antibiotic-loaded medium viscosity	44	<1%
Heraeus Medical	Palamed Antibiotic	Antibiotic-loaded high viscosity	36	<1%
DePuy	Smartset HV Plain Cement	High viscosity	29	<1%
Biomet	Osteopal Antibiotic	Antibiotic-loaded low viscosity	28	<1%
Smith & Nephew	Versabond AB	Antibiotic-loaded high viscosity	7	<1%
Corin	Coriplast	Low viscosity	4	<1%
Biomet	Biomet Refobacin Plus	Antibiotic-loaded high viscosity	3	<1%
Heraeus Medical	Copal	High viscosity	2	<1%
Biomet	Biomet Bone Cement	High viscosity	1	<1%
DePuy	Endurance Antibiotic Loaded Cement	Antibiotic-loaded medium viscosity	1	<1%
DePuy	Smartset Endurance Plain Cement	Medium viscosity	1	<1%

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**Table 17(b)** Brands of cement used in knee procedures performed in 2011.

Manufacturer	Brand	Cement type	Number of procedures	%
			78,985	
Heraeus Medical	Palacos Antibiotic	Antibiotic-loaded high viscosity	57,005	72%
Biomet	Biomet Refobacin	Antibiotic-loaded high viscosity	8,959	11%
DePuy	Smartset HV Antibiotic Loaded Cement	Antibiotic-loaded high viscosity	3,766	5%
Stryker	Simplex Antibiotic	Antibiotic-loaded medium viscosity	2,990	4%
DePuy	CMW1 Antibiotic Loaded Cement	Antibiotic-loaded high viscosity	2,838	4%
DePuy	CMW2 Antibiotic Loaded Cement	Antibiotic-loaded high viscosity	1,321	2%
Heraeus Medical	Palacos	High viscosity	1,320	2%
Biomet	Biomet Refobacin Revision	Antibiotic-loaded high viscosity	208	<1%
Stryker	Simplex	Medium viscosity	169	<1%
Heraeus Medical	Copal Antibiotic Loaded	Antibiotic-loaded medium viscosity	150	<1%
DePuy	CMW1 Plain Cement	High viscosity	90	<1%
DePuy	CMW2 Plain Cement	High viscosity	88	<1%
DePuy	Smartset HV Plain Cement	High viscosity	44	<1%
DePuy	CMW3 Antibiotic Loaded Cement	Antibiotic-loaded medium viscosity	24	<1%
Biomet	Biomet Refobacin Plus	Antibiotic-loaded high viscosity	6	<1%
DePuy	CMW3 Plain Cement	Medium viscosity	2	<1%
Biomet	Osteopal Antibiotic	Antibiotic-loaded low viscosity	1	<1%
DePuy	CMW2000 Antibiotic Loaded Cement	Antibiotic-loaded high viscosity	1	<1%
DePuy	Smartset Endurance Antibiotic Loaded Cement	Antibiotic-loaded medium viscosity	1	<1%
Heraeus Medical	Copal	High viscosity	1	<1%
Tecres Medical	Cemex Antibiotic Loaded	Antibiotic-loaded low viscosity	1	<1%

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Table 17(c) Brands of cement used in ankle procedures performed in 2011.

Manufacturer	Brand	Cement type	Number of procedures	%
			15	
Heraeus Medical	Palacos Antibiotic	Antibiotic-loaded high viscosity	10	67%
Biomet	Biomet Refobacin	Antibiotic-loaded high viscosity	3	20%
Schering-Plough	Palacos Antibiotic	Antibiotic-loaded high viscosity	2	13%

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5 Bone substitute use 2011

Tables 18(a), 18(b) and 18(c) report the brand usage of bone substitute used in hip, knee and ankle

replacement procedures during 2011. The vast majority of bone substitute is used in hip procedures.

Table 18(a) Brands of synthetic bone substitute used in hip procedures during 2011.

Manufacturer	Brand	Number of procedures	%
		425	
DePuy	Grafton	100	24%
Synthes	DBX	77	18%
Stryker	Bonesave	48	11%
Endo Plus (UK) Limited	Endoplus Bone Substitute	29	7%
ApaTech Products	Apatech Bone Substitute	25	6%
Finceramica	Regenoss	24	6%
Wright Medical UK Ltd	Osteoset	23	5%
Osteotech	Grafton	16	4%
Exactech (UK) Ltd	Opteform	13	3%
Synthes	Chronos TCP	13	3%
ApaTech Products	Actifuse	10	2%
Biocomposites	Biocomposites	8	2%
Corin	Biofuse	8	2%
Surgicraft	Surgicraft	8	2%
DePuy	Conduit	5	1%
Osteotech	Orthoblend	5	1%
Finceramica	Sintlife	4	1%
Joint Replacement Instrumentation Ltd	Repros	3	<1%
Quadrant Medical Ltd	Vitoss	3	<1%
Biocomposites	Stimulan-Biocomposites	1	<1%
DePuy	Isobone	1	<1%
Endo Plus (UK) Limited	Allogran (Endoplus)	1	<1%

Table 18(b) Brands of synthetic bone substitute used in knee procedures during 2011.

Manufacturer	Brand	Number of procedures	%
		23	
Synthes	DBX	6	26%
Stryker	Bonesave	5	22%
Biocomposites	Biocomposites	3	13%
Endo Plus (UK) Limited	Endoplus Bone Substitute	3	13%
ApaTech Products	Actifuse	1	4%
Corin	Biofuse	1	4%
Exactech (UK) Ltd	Opteform	1	4%
Finceramica	Engipore	1	4%
Joint Replacement Instrumentation Ltd	Repos	1	4%
Wright Medical UK Ltd	Osteoset	1	4%

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Table 18(c) Brands of synthetic bone substitute used in ankle procedures during 2011.

Manufacturer	Brand	Number of procedures	%
		1	
Wright Medical UK Ltd	Osteoset	1	100%

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