

## Supplementary data

Table 2. Implants

Implant	n (%)	n (%)
Screws/pins	15,761 (100)	
Olmed (DePuy Synthes)		8,297 (53)
Richards CHP (Smith & Nephew)		4,688 (30)
LIH nail (Orthovita)		1,783 (11)
Asnis III (Stryker)		989 (6.3)
Other/missing		4 (0)
Hemiprosthesis (femoral stem)	24,382 (100)	
Exeter/V40, cemented (Stryker)		8,400 (34)
Corail, uncemented (DePuy Synthes)		5,595 (23)
Charnley, cemented (DePuy Synthes)		2,623 (11)
Lubinus SP II, cemented (Link)		1,973 (8.1)
Charnley Modular (DePuy Synthes)		1,675 (6.9)
Spectron EF, cemented (Smith & Nephew)		1,424 (5.8)
Other/missing		2,692 (11)
Total hip prosthesis (femoral stem)	1,546 (100)	
Corail, uncemented (DePuy Synthes)		483 (31)
Exeter/V40, cemented (Stryker)		436 (28)
Charnley, cemented (DePuy Synthes)		142 (9.2)
Charnley Modular (DePuy Synthes)		125 (8.1)
Lubinus SP II, cemented (Link)		90 (5.8)
Spectron EF, cemented (Smith & Nephew)		84 (5.4)
Other/missing		186 (12)
Sliding hip screw	22,200 (100)	
Richards CHS (Smith & Nephew)		15,178 (68)
DHS (DePuy Synthes)		3,874 (17)
LCP DHS (DePuy Synthes)		3,045 (14)
Other/missing		103 (0.5)
Intramedullary nail	7,502 (100)	
Gamma 3 (Stryker)		4,535 (60)
Trigen Intertan (Smith & Nephew)		1,555 (21)
PFNA (DePuy Synthes)		516 (6.9)
T-Gamma (Stryker)		448 (6.0)
Other/missing		448 (6.0)

**Table 3. Reoperations the first year in the 5 time periods. The table shows number of reoperations and relative risk (RR) for reoperation (Cox regression analyses with adjustments for age group, sex, and ASA class)**

Time period	Number	Reoperations	Unadjusted			Adjusted <sup>a</sup>		
			RR	95% CI	p-value	RR	95% CI	p-value
<b>All fractures</b>								
2005–2006	12,182	910 (7.5)	1			1		
2007–2008	14,818	936 (6.3)	0.85	0.77–0.93	< 0.001	0.84	0.77–0.93	< 0.001
2009–2010	15,116	805 (5.3)	0.71	0.65–0.78	< 0.001	0.71	0.64–0.78	< 0.001
2011–2012	15,539	791 (5.1)	0.68	0.62–0.75	< 0.001	0.68	0.61–0.74	< 0.001
2013–2014	15,086	719 (4.8)	0.63	0.58–0.70	< 0.001	0.63	0.57–0.69	< 0.001
<b>Undisplaced FFNs</b>								
2005–2006	2,245	231 (10)	1			1		
2007–2008	2,436	261 (11)	1.1	0.89–1.3	0.5	1.1	0.89–1.3	0.5
2009–2010	2,181	207 (9.6)	0.94	0.78–1.1	0.5	0.94	0.78–1.1	0.5
2011–2012	2,249	212 (9.4)	0.92	0.76–1.1	0.4	0.93	0.77–1.1	0.4
2013–2014	1,968	168 (8.5)	0.83	0.68–1.0	0.1	0.85	0.69–1.0	0.1
<b>Displaced FFNs</b>								
2005–2006	4,949	491 (9.9)	1			1		
2007–2008	6,061	422 (7.0)	0.71	0.62–0.81	< 0.001	0.70	0.61–0.79	< 0.001
2009–2010	6,478	347 (5.4)	0.54	0.47–0.62	< 0.001	0.53	0.46–0.60	< 0.001
2011–2012	6,774	344 (5.1)	0.51	0.44–0.59	< 0.001	0.49	0.43–0.57	< 0.001
2013–2014	6,744	300 (4.4)	0.44	0.38–0.51	< 0.001	0.43	0.37–0.49	< 0.001
<b>Trochanteric A1 fractures</b>								
2005–2006	2,168	49 (2.2)	1			1		
2007–2008	2,664	70 (2.6)	1.1	0.80–1.7	0.5	1.2	0.81–1.7	0.4
2009–2010	2,436	55 (2.3)	1.0	0.68–1.5	1.0	1.0	0.68–1.5	1.0
2011–2012	2,452	44 (1.8)	0.79	0.53–1.2	0.3	0.80	0.53–1.2	0.3
2013–2014	2,468	57 (2.3)	1.0	0.69–1.5	0.9	1.0	0.69–1.5	0.9
<b>Trochanteric A2 fractures</b>								
2005–2006	1,649	68 (4.1)	1			1		
2007–2008	2,161	87 (4.0)	0.97	0.70–1.3	0.8	0.97	0.71–1.3	0.9
2009–2010	2,421	95 (3.9)	0.94	0.69–1.3	0.7	0.94	0.69–1.3	0.7
2011–2012	2,523	90 (3.6)	0.87	0.64–1.2	0.4	0.88	0.64–1.2	0.4
2013–2014	2,372	106 (4.5)	1.1	0.80–1.5	0.6	1.1	0.80–1.5	0.6
<b>Trochanteric A3 fractures/subtrochanteric fractures</b>								
2005–2006	629	27 (4.3)	1			1		
2007–2008	841	41 (4.9)	1.1	0.70–1.9	0.6	1.1	0.71–1.9	0.6
2009–2010	1,029	57 (5.5)	1.3	0.84–2.1	0.2	1.3	0.83–2.1	0.3
2011–2012	1,064	53 (5.0)	1.2	0.75–1.9	0.5	1.2	0.75–1.9	0.5
2013–2014	1,049	52 (5.0)	1.2	0.74–1.9	0.5	1.2	0.73–1.9	0.5

<sup>a</sup> Cox regression analyses with adjustments for age group, sex, and ASA class.

Table 4. One-year mortality in the different time periods. The table shows number of deaths and relative risk (RR) for death (Cox regression analyses with adjustments for age group, sex, and ASA class)

Time period	Number	Reoperations	Unadjusted			Adjusted <sup>a</sup>		
			RR	95% CI	p-value	RR	95% CI	p-value
<b>All fractures</b>								
2005–2006	12,182	3,001 (25)	1			1		
2007–2008	14,818	3,732 (25)	1.0	0.98–1.1	0.2	0.97	0.92–1.0	0.2
2009–2010	15,116	3,790 (25)	1.0	0.98–1.1	0.3	0.91	0.87–0.96	< 0.001
2011–2012	15,539	3,998 (26)	1.1	1.0–1.1	0.02	0.91	0.87–0.95	< 0.001
2013–2014	15,086	3,783 (25)	1.0	0.98–1.1	0.3	0.87	0.83–0.91	< 0.001
<b>Undisplaced FFNs</b>								
2005–2006	2,245	470 (21)	1			1		
2007–2008	2,436	557 (23)	1.1	0.98–1.3	0.1	1.1	0.93–1.2	0.4
2009–2010	2,181	510 (23)	1.1	1.0–1.3	0.04	1.0	0.91–1.2	0.6
2011–2012	2,249	511 (23)	1.1	0.97–1.2	0.2	0.98	0.86–1.1	0.7
2013–2014	1,968	446 (23)	1.1	0.96–1.2	0.2	0.98	0.86–1.1	0.7
<b>Displaced FFNs</b>								
2005–2006	4,949	1,200 (24)	1			1		
2007–2008	6,061	1,565 (26)	1.1	1.0–1.2	0.02	1.0	0.97–1.1	0.3
2009–2010	6,478	1,607 (25)	1.0	0.96–1.1	0.2	0.93	0.86–1.0	0.05
2011–2012	6,774	1,707 (25)	1.1	0.98–1.1	0.04	0.92	0.85–0.99	0.02
2013–2014	6,744	1,597 (24)	1.0	0.96–1.1	0.4	0.86	0.80–0.93	< 0.001
<b>Trochanteric A1 fractures</b>								
2005–2006	2,168	601 (28)	1			1		
2007–2008	2,664	696 (26)	0.93	0.84–1.0	0.2	0.84	0.75–0.93	0.001
2009–2010	2,436	644 (26)	0.95	0.85–1.1	0.4	0.82	0.73–0.92	< 0.001
2011–2012	2,452	685 (28)	1.0	0.90–1.1	0.9	0.85	0.76–0.95	0.003
2013–2014	2,468	684 (28)	1.0	0.89–1.1	0.9	0.79	0.71–0.88	< 0.001
<b>Trochanteric A2 fractures</b>								
2005–2006	1,649	447 (27)	1			1		
2007–2008	2,161	557 (26)	0.94	0.83–1.1	0.4	0.91	0.80–1.0	0.1
2009–2010	2,421	620 (26)	0.94	0.83–1.1	0.3	0.83	0.74–0.94	0.003
2011–2012	2,523	705 (28)	1.0	0.93–1.2	0.5	0.88	0.78–0.99	0.03
2013–2014	2,372	657 (28)	1.0	0.91–1.2	0.6	0.87	0.77–0.98	0.02
<b>Trochanteric A3 fractures/subtrochanteric fractures</b>								
2005–2006	629	131 (21)	1			1		
2007–2008	841	184 (22)	1.1	0.84–1.3	0.7	1.0	0.81–1.3	0.9
2009–2010	1,029	243 (24)	1.2	0.94–1.4	0.2	1.0	0.84–1.3	0.7
2011–2012	1,064	252 (24)	1.2	0.94–1.4	0.2	1.0	0.81–1.2	1.0
2013–2014	1,049	258 (24)	1.2	0.97–1.5	0.1	1.0	0.82–1.3	0.9

<sup>a</sup> Cox regression analyses with adjustments for age group, sex, and ASA class.