

Supplementary article data

Clinical outcome after undisplaced femoral neck fractures

A prospective comparison of 14,757 undisplaced and displaced fractures reported to the Norwegian Hip Fracture Register

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Table 2. Types of implants

Implant	n (%)	n (%)
Undisplaced fracture, internal fixation	4,468 (100)	
Olmed (DePuy)		2,601 (58)
Richards CHP (Smith and Nephew)		1,130 (25)
Hansson Pin System (Swemac)		524 (12)
Asnis III (Stryker)		212 (4.7)
Missing		1
Displaced fracture, internal fixation	3,389 (100)	
Olmed (DePuy)		2,030 (60)
Richards CHP (Smith and Nephew)		694 (20)
Hansson Pin System (Swemac)		522 (15)
Asnis III (Stryker)		142 (4.2)
Missing		1
Displaced fracture, hemiarthroplasty	6,900 (100)	
Exeter – UHR (Stryker)		1,667 (24)
Charnley – Hastings (DePuy)		1,593 (23)
Corail – Landos Bipolar Cup (DePuy)		975 (14)
Titan – Landos Bipolar Cup (DePuy)		723 (10)
Spectron – TANDEM (Smith and Nephew)		568 (8.2)
Charnley Modular (DePuy)		388 (5.6)
Lubinus SPII-Vario-cup (LINK)		330 (4.2)
Other/missing		656 (9.5)

Table 5. Number of reoperations according to different patient characteristics and type of implant for patients with undisplaced fractures. Risk ratio (RR) and p-value were adjusted for differences in age group, sex, cognitive function, comorbidity (ASA classification), and type of implant in a Cox model

	No. of operations	No. of reoperations (%) ^a	Risk ratio	95% CI	p-value ^c
Total number	4,310 ^b	420 (9.7)			
Age group					0.3
60–69	520	47 (9.0)	1		
70–79	1,157	117 (10)	1.1	0.81–1.6	0.4
80–89	2,037	202 (9.9)	1.3	0.94–1.8	0.1
> 90	596	54 (9.1)	1.3	0.88–2.0	0.2
Sex					0.9
Male	1,307	129 (9.9)	1		
Female	3,003	291 (9.7)	0.88	0.71–1.1	0.9
Cognitive dysfunction					< 0.001
No	2,789	313 (11)	1		
Yes	1,063	66 (6.2)	0.57	0.44–0.75	< 0.001
Uncertain/missing	458	41 (9.0)	0.80	0.58–1.1	0.2
ASA class					0.3
ASA 1	455	40 (8.8)	1		
ASA 2	1,678	184 (11)	1.4	0.91–1.6	0.09
ASA 3	1,961	184 (9.4)	1.4	0.86–1.6	0.1
ASA 4	213	12 (5.6)	0.92	0.47–1.5	0.9
ASA 5	3	0 (0)			
Type of implant					< 0.001
Olmed (DePuy)	2,509	213 (8.5)	1		
Richards CHP (Smith and Nephew)	1,093	118 (11)	1.3	1.0–1.6	0.04
Hansson Pin System (Swemac)	506	55 (11)	1.3	0.95–1.7	0.1
Asnis III (Stryker)	201	34 (17)	2.1	1.5–3.0	< 0.001

^a Percentage reoperated hips of total primary-operated hips.
^b 158 patients with incomplete information on cognitive function or ASA classification were excluded from the analysis.
^c Cox regression analysis.