

Supplementary Material

10.1302/0301-620X.107B9.BJJ-2024-1706.R1

Table i. Risk of reoperation for periprosthetic femoral fracture (PPFF) for the indication of acute hip fracture. Individual brands and femoral component design and fixation method groups are presented.

Stem design and fixation method in acute hip fracture	Femoral stem brands included	Number of stems included	Number reoperated for PPFF (%)	aHRR (95% CI)	Adj. 10-year reoperation rate for PPFF (95% CI), %*	Number reoperated for PPFF (%)	aHRR (95% CI)
Cemented composite-beam	Lubinus SPII	10,142	14 (0.1)	1	0.3 (0.1 to 0.6)	16 (0.1)	1
	Spectron EF	1,721	2 (0.1)	0.7 (0.2 to 3.3)	0.4 (0.0 to 0.9)		
Cemented double-tapered	Exeter	23,094	140 (0.6)	3.9 (2.2 to 6.8)	2.2 (1.6 to 2.8)	157 (0.6)	4.3 (2.5 to 7.1)
	CPT	1,730	17 (1.0)	6.4 (3.1 to 13.0)	2.5 (0.2 to 4.9)		
Cemented triple-tapered	C-Stem	4,336	15 (0.3)	2.8 (1.3 to 5.7)	1.6 (0.2 to 3.1)	40 (0.6)	4.6 (2.6 to 8.3)
	MS-30	2,645	25 (0.9)	7.3 (3.8 to 14.0)	1.3 (0.7 to 2.0)		
Uncemented wedged collarless	Corail collarless	5,143	80 (1.6)	9.2 (5.2 to 16.5)	4.3 (2.9 to 5.6)	125 (1.8)	11.1 (6.5 to 18.8)
	Filler	1,341	28 (2.1)	11.5 (6.0 to 22.1)	7.6 (3.5 to 11.7)		
	POLARSTEM	397	15 (3.8)	20.4 (9.8 to 42.4)	12.3 (4.2 to 20.4)		
	Accolade 2	81	2 (2.5)	13.6 (3.1 to 59.9)	2.2 (0.2 to 5.2)		
Uncemented wedged collared	Corail collared	4,947	53 (1.1)	6.3 (3.5 to 11.5)	3.3 (1.9 to 4.7)	53 (1.1)	6.7 (3.8 to 11.7)
Total		55,577	391 (0.7)			391 (0.7)	

*Will be an underestimate since not all cases have complete ten-year follow-up.

aHRR, adjusted hazard risk ratio.