

Supplementary data

Table 1. Patients without PROMs data (n = 468,456) after linking NJR data to HES PROMs dataset. Values are count (%) unless otherwise specified

Covariate	TKR (n = 433,555)	UKR (n = 34,901)
Admission type		
Elective	432,181 (100)	34,842 (100)
Emergency	982 (0)	35 (0)
Other	392 (0)	24 (0)
Sex		
Female	252,531 (58)	16,717 (48)
Male	181,024 (42)	18,184 (52)
Age at surgery, mean (SD)	70.2 (9.5)	63.7 (10.0)
BMI, n	257,360	22,024
mean (SD)	31.1 (5.6)	30.5 (5.2)
Primary diagnosis		
Primary OA	414,553 (96)	34,299 (98)
Primary OA and other	5,387 (1)	236 (1)
Other	13,615 (3)	366 (1)
Charlson comorbidity index		
None	302,652 (70)	26,106 (75)
Mild	92,549 (21)	6,724 (19)
Moderate	25,839 (6)	1,495 (4)
Severe	12,515 (3)	576 (2)
ASA grade		
1	40,922 (9)	6,680 (19)
2	306,864 (71)	24,579 (70)
3 or above	85,769 (20)	3,642 (11)
Ethnicity		
White	403,614 (93)	33,296 (95)
Black (Caribbean)	3,495 (1)	150 (1)
Black (African)	2,086 (1)	113 (0)
Black (other)	838 (0)	33 (0)
Indian	12,124 (3)	554 (2)
Pakistani	4,852 (1)	211 (1)
Bangladeshi	379 (0)	20 (0)
Chinese	341 (0)	17 (0)
Other	5,826 (1)	507 (1)
Rural/urban classification		
Urban	332,812 (77)	24,934 (72)
Town/fringe	48,461 (11)	4,280 (12)
Village/hamlet	52,282 (12)	5,687 (16)
Indices of multiple deprivation		
Most deprived (20%)	73,212 (17)	4,328 (12)
More deprived (20–40%)	84,133 (19)	6,155 (18)
Middle-point	95,016 (22)	7,728 (22)
Less deprived (20–40%)	95,598 (22)	8,130 (23)
Least deprived (20%)	85,596 (20)	8,560 (25)

Table 4. Pre- and postoperative OKS in different age groups for TKR and UKR groups

Age group	TKR OKS			UKR OKS			6-months difference
	preoperative	at 6 month	diff.	preoperative	at 6 month	diff.	
< 55	18.6 (7.8)	33.5 (10.9)	14.9	19.0 (7.6)	34.8 (10.9)	15.8	1.3
55–64	20.6 (7.7)	35.5 (9.7)	14.9	20.7 (7.5)	37.2 (9.8)	16.5	1.7
65–74	22.6 (7.8)	37.5 (8.6)	14.9	22.4 (7.5)	39.4 (8.3)	17.0	1.9
≥ 75	22.6 (8.1)	36.9 (8.7)	14.3	22.3 (7.8)	38.7 (8.4)	16.4	1.8

Table 5. Proportion of poor (< 27), fair (27–33), good (34–41), and excellent (≥ 41) OKS (Kalairajah et al. classification) in different age groups for TKR and UKR groups. Values are count (%)

Age group	Poor	TKR (n = 19,358)			Poor	UKR (n = 19,358)		
		Fair	Good	Excellent		Fair	Good	Excellent
Preoperative								
< 55	2,166 (84)	304 (12)	89 (4)	10 (0)	2,285 (83)	385 (14)	84 (3)	9 (0)
55–64	5,116 (78)	1,128 (17)	302 (5)	35 (0)	4,879 (78)	1,058 (17)	301 (5)	18 (0)
65–74	5,079 (69)	1,692 (23)	595 (8)	49 (1)	5,015 (70)	1,667 (23)	466 (6)	34 (1)
≥ 75	1,883 (67)	656 (24)	237 (8)	17 (1)	2,212 (70)	710 (22)	219 (7)	16 (1)
Postoperative at 6 months								
< 55	648 (25)	434 (17)	751 (29)	736 (29)	614 (22)	405 (15)	772 (28)	972 (35)
55–64	1,216 (19)	1,069 (16)	2,104 (32)	2,192 (33)	957 (15)	767 (12)	1,744 (28)	2,788 (45)
65–74	882 (12)	1,119 (15)	2,394 (32)	3,020 (41)	643 (9)	815 (11)	1,960 (27)	3,764 (53)
≥ 75	369 (13)	449 (16)	951 (34)	1,024 (37)	324 (10)	369 (12)	966 (31)	1,498 (47)

Table 6. Pre- and postoperative EQ5D index scores in different age groups for TKR and UKR groups

Age group	TKR OKS			UKR OKS			6-months difference
	preoperative	at 6 month	diff.	preoperative	at 6 month	diff.	
< 55	0.375 (0.322)	0.678 (0.297)	0.303	0.397 (0.318)	0.701 (0.298)	0.304	0.023
55–64	0.450 (0.303)	0.727 (0.260)	0.277	0.454 (0.301)	0.756 (0.259)	0.302	0.029
65–74	0.506 (0.283)	0.789 (0.218)	0.283	0.506 (0.279)	0.817 (0.216)	0.311	0.028
≥ 75	0.513 (0.276)	0.783 (0.216)	0.270	0.504 (0.281)	0.808 (0.211)	0.304	0.025