

TABLE E-1 Reasons for missing data at one year and two years

Reason for missing data	No. (%) of Patients at One Year	No. (%) of Patients at Two Years
Died	18 (2.1%)	34 (4.0%)
Other illness	12 (1.4%)	19 (2.2%)
Revision total knee arthroplasty	5 (0.6%)	8 (0.9%)
Withdrew	31 (3.6%)	39 (4.5%)
Moved away	2 (0.2%)	12 (1.4%)
Lost to follow-up	14 (1.6%)	39 (4.5%)
Unable to attend review but still in study	19 (2.2%)	7 (0.8%)
Total	101 (11.7%)	158 (18.4%)

Table E-2. Correlates of worse preoperative status and preoperative predictors of worse outcome at 12 and 24 months after surgery for WOMAC Pain and Function and SF-36 Physical Functioning. Values presented are the F-value (equal to t^2) above followed by the parameter estimates for each variable (95% confidence intervals) in the final models except country. Values presented for country are the F-value above followed by the difference in adjusted mean scores between countries, with Australia as the reference country. All models are adjusted for age, sex and center within country.

	WOMAC Pain			WOMAC Function			SF-36 Physical Functioning		
Variable	Preop	12-month	24-month	Preop	12-month	24-month	Preop	12-month	24-month
Age	27.26*** 0.36 (0.22, 0.50)	0.64 −0.06 (−0.21, 0.00)	0.55 −0.06 (−0.22, 0.10)	1.72 0.09 (−0.05, 0.23)	5.62* −0.19 (−0.35, −0.03)	1.96 −0.12 (−0.29, 0.05)	4.45* 1.61 (0.11, 3.10)	23.37*** −0.48 (−0.67, −0.28)	33.58*** −0.66 (−0.88, −0.44)
Age-squared -very old							5.85* −0.01 (−0.02, −0.003)		
Sex female male	14.56*** −4.93 (−7.47, −2.40)	7.06* −3.77 (−6.55, −0.99)	3.98* −2.98 (−5.91, −0.05)	10.02** −3.85 (−6.23, −1.46)	3.23 2.62 (−0.24, 5.48)	0.01 −0.19 (−3.25, 2.88)	1.92 −1.94 (−4.69, 0.80)	5.16* −4.07 (−7.58, −0.56)	3.20 3.58 (−0.34, 7.50)
Low preoperative score†		29.16*** 0.20 (0.13, 0.28)	25.13*** 0.20 (0.12, 0.28)		51.58*** 0.30 (0.22, 0.38)	55.75*** 0.34 (0.25, 0.43)		62.01*** 0.35 (0.26, 0.44)	28.53*** 0.27 (0.17, 0.37)
Low preop. Mental Health	12.66*** 0.12 (0.06, 0.19)	17.53*** 0.16 (0.09, 0.24)	9.35** 0.13 (0.05, 0.21)	43.25*** 0.21 (0.15, 0.27)	17.04*** 0.17 (0.09, 0.25)	6.02* 0.11 (0.02, 0.20)	21.92*** 0.18 (0.10, 0.25)	11.13** 0.17 (0.07, 0.27)	12.32*** 0.20 (0.09, 0.31)
Restricted Knee Flexion	34.74*** 0.22 (0.154, 0.29)			38.98*** 0.22 (0.15, 0.28)		6.04* 0.12 (0.02, 0.21)	8.28** 0.12 (0.04, 0.20)	9.94** 0.17 (0.07, 0.28)	5.80* 0.15 (0.03, 0.27)
Body Mass Index				7.61* −0.31 (−0.53, −0.09)	4.70* −0.30 (−0.57, −0.03)		14.51*** −0.50 (−0.75, −0.24)		26.80*** −0.69 (−1.07, −0.30)
Income lowest category	4.81* −3.47 (−6.63, −0.37)			7.90* −4.10 (−6.96, −1.24)					
Not working				5.07* −4.27 (−7.99, −0.55)			13.73*** −8.28 (−12.65, −3.90)		
Education Less Than High School	8.42** −4.24 (−7.10, −1.37)								
More comorbid conditions		5.85* −1.33 (−2.41, −0.25)	4.59* −1.24 (−2.38, −0.11)		11.96** −1.95 (−3.05, −0.84)	13.96*** −2.26 (−3.45, −1.07)	10.82** −1.77 (−2.82, −0.72)	15.00*** −2.72 (−4.10, −1.34)	11.82*** −4.07 (−5.61, −2.53)
Country †† United Kingdom United States Australia	3.89* −4.65 −4.63 0	1.89 −1.25 2.22 0	3.71* −1.20 3.82 0	11.07*** −7.71 −4.26 0	17.59*** −4.81 6.03 0	8.65*** −5.27 2.72 0	5.73** −4.87 0.62 0	13.00*** −5.19 6.49 0	11.82*** −6.48 6.33 0
Model R ²	.24	.14	.12	.27	.25	.25	.19	.28	.29

*p<0.05, **p<0.005, ***p<0.0005

† Refers to the respective preoperative score for each of the outcome measures.

††Differences in adjusted mean scores reported reflect the difference between Australia and either the UK or US (negative scores indicate worse than Australia). Subtracting the US value from the UK value will give the difference between the UK and US, with a negative score indicating that the UK is worse by that number of points.