

Supplementary Table 1: Baseline data on measures of pre-operative health status (multimorbidity, frailty and morbidity burden) in patients who underwent primary THR in HES APC during the date period in which PROMs were collected (N=2992)

	PROMs data	No PROMs data
Charlson comorbidity index		
0	1,013 (68.7)	931 (61.4)
1	123 (8.3)	152 (10.0)
2	205 (13.9)	254 (16.7)
3+	134 (9.1)	180 (11.9)
Electronic frailty index (eFI)		
0-4	831 (56.3)	752 (49.6)
5-8	544 (36.9)	593 (39.1)
9-12	93 (6.3)	151 (10.0)
13+	7 (0.5)	21 (1.4)
No. comorbid diseases		
0	378 (25.6)	320 (21.1)
1	497 (33.7)	464 (30.6)
2	346 (23.5)	364 (24.0)
3+	254 (17.2)	369 (24.3)
No. medications prescribed		
0-4	428 (29.0)	400 (26.4)
5-7	401 (27.2)	375 (24.7)
8-12	429 (29.1)	500 (33.0)
13+	217 (14.7)	242 (16.0)
No. contacts with primary care		
0-7	471 (31.9)	464 (30.6)
8-11	335 (22.7)	358 (23.6)
12-17	384 (26.0)	334 (22.0)
18+	285 (19.3)	361 (23.8)
Total	1475	1517

Supplementary Table 2

Influence of pre-operative health status on risk of hospital readmission within 90 days

	No. patients	Events	% Events	Unadjusted OR (95% CI)	Adjusted OR* (95% CI)
Charlson Comorbidity Index					
0	4490	477	10.6	Ref	Ref
1	682	82	12.0	1.15 (0.90, 1.48)	1.09 (0.85, 1.40)
2	880	131	14.9	1.47 (1.19, 1.81)	1.41 (1.14, 1.74)
3+	630	96	15.2	1.51 (1.19, 1.92)	1.45 (1.14, 1.84)
Count of chronic diseases					
0	1901	192	10.1	Ref	Ref
1	2286	232	10.2	1.01 (0.82, 1.23)	1.01 (0.82, 1.23)
2	1430	205	14.3	1.49 (1.21, 1.84)	1.47 (1.19, 1.83)
3+	1065	157	14.7	1.54 (1.23, 1.93)	1.53 (1.21, 1.94)
Count of medications prescribed					
0-4	1963	180	9.2	Ref	Ref
5-7	1832	201	11.0	1.22 (0.99, 1.51)	1.22 (0.99, 1.51)
8-12	1992	257	12.9	1.47 (1.20, 1.80)	1.45 (1.18, 1.78)
13+	895	148	16.5	1.96 (1.55, 2.48)	1.96 (1.54, 2.49)
Count of contacts with primary care					
0-7	2167	204	9.4	Ref	Ref
8-11	1598	172	10.8	1.16 (0.94, 1.44)	1.15 (0.93, 1.43)
12-17	1528	192	12.6	1.38 (1.12, 1.70)	1.37 (1.11, 1.69)
18+	1389	218	15.7	1.79 (1.46, 2.20)	1.75 (1.42, 2.15)
Electronic Frailty Index					
0-4	4184	432	10.3	Ref	Ref
5-8	2064	270	13.1	1.31 (1.11, 1.54)	1.30 (1.10, 1.55)
9-12	393	76	19.3	2.08 (1.59, 2.73)	2.01 (1.51, 2.67)
13+	41	8	19.5	2.11 (0.97, 4.59)	2.15 (0.97, 4.73)
Total	6682	786	11.8		

*The model was adjusted for age, sex, region of the residence, and year of surgery.

Supplementary Table 3:
Influence of pre-operative health status on length of stay in hospital

	Total at risk	Median length of stay (IQR)
Charlson Comorbidity Index		
0	4490	6 (4, 9)
1	682	6 (5, 9)
2	880	6 (4, 9)
3+	630	7 (5, 9)
Count of chronic diseases		
0	1901	6 (4, 8)
1	2286	6 (4, 9)
2	1430	6 (4, 9)
3+	1065	7 (5, 10)
Count of medications prescribed		
0-4	1963	6 (4, 8)
5-7	1832	6 (4, 9)
8-12	1992	7 (5, 9)
13+	895	7 (5, 10)
Count of contacts with primary care		
0-7	2167	6 (4, 8)
8-11	1598	6 (4, 9)
12-17	1528	6 (4, 9)
18+	1389	7 (5, 10)
Electronic Frailty Index		
0-4	4184	6 (4, 9)
5-8	2064	6 (4, 9)
9-12	393	8 (5, 11)
13+	41	8 (7, 13)
Total	6682	6 (4, 9)

