

## Supplementary data

Table 6. Number of patients (%<sup>a</sup>) with the diseases in the Charlson Comorbidity Index (CCI) in the lookback period of 10 years prior to primary total hip arthroplasty (THA). Values are count (%)

Disease	CCI low	CCI medium	CCI high
Myocardial infarction	0	1,927 (8)	867 (16)
Congestive heart failure	0	1,548 (6)	1,039 (19)
Peripheral vascular disease	0	2,092 (9)	979 (18)
Cerebrovascular disease	0	3,639 (15)	1,245 (23)
Dementia	0	181 (1)	67 (1)
Chronic pulmonary disease	0	4,025 (17)	1,428 (26)
Connective tissue disease	0	2,416 (10)	815 (15)
Ulcer disease	0	1561 (7)	640 (12)
Mild liver disease	0	350 (1)	250 (5)
Diabetes type 1, type 2	0	2,812 (12)	1,469 (27)
Hemiplegia	0	29 (0)	52 (1)
Moderate to severe renal disease	0	443 (2)	808 (15)
Diabetes with end organ damage	0	685 (3)	967 (18)
Any tumor	0	5,450 (23)	2,990 (55)
Leukemia	0	123 (1)	119 (2)
Lymphoma	0	173 (1)	261 (5)
Moderate to severe liver disease	0	0	152 (2)
Metastatic solid tumor	0	0	540 (9)
AIDS	0	0	19 (0)

<sup>a</sup> Sums to more than 100% due to several diseases per individual.

Table 7. Number of patients at risk 0–10 years after primary total hip arthroplasty (THA)

Year	0	0.5	1	1.5	2	4	6	8	10
CCI low	69,229	66,090	63,567	61,237	58,855	49,537	40,766	32,461	24,290
CCI medium	23,948	22,422	21,291	20,225	19,159	15,064	11,463	8,263	5,562
CCI high	5,470	4,976	4,599	4,265	3,916	2,730	1,807	1,128	656

Table 8. Calculation of Charlson Comorbidity Index (CCI) with name of disease, International Classification of Disease (ICD) codes, and CCI weighted scores

No. Disease	ICD-8	ICD-10	CCI Score
1 Myocardial infarction	410	I21; I22; I23	1
2 Congestive heart failure	427.09; 427.10; 427.11; 427.19; 428.99; 782.49	I50; I11.0; I13.0; I13.2	1
3 Peripheral vascular disease	440; 441; 442; 443; 444; 445	I70; I71; I72; I73; I74; I77	1
4 Cerebrovascular disease	430-438	I60-I69; G45; G46	1
5 Dementia	290.09-290.19; 293.09	F00-F03; F05.1; G30	1
6 Chronic pulmonary disease	490-493; 515-518	J40-J47; J60-J67; J68.4; J70.1; J70.3; J84.1; J92.0; J96.1; J98.2; J98.3	1
Connective tissue disease	712; 716; 734; 446; 135.99	M05; M06; M08; M09; M30; M31; M32; M33; M34; M35; M36; D86	1
8 Ulcer disease	530.91; 530.98; 531-534	K22.1; K25-K28	1
9 Mild liver disease	571; 573.01; 573.04	B18; K70.0-K70.3; K70.9; K71; K73; K74; K76.0	1
10 Diabetes type 1	249.00; 249.06; 249.07;	E10.0, E10.1; E10.9	1
Diabetes type 2	249.09 250.00; 250.06; 250.07; 250.09	E11.0; E11.1; E11.9	1
11 Hemiplegia	344	G81; G82	2
12 Moderate to severe renal disease	403; 404; 580-583; 584; 590.09; 593.19; 753.10-753.19; 792	I12; I13; N00-N05; N07; N11; N14; N17-N19; Q61	2
13 Diabetes with end organ damage			2
Type 1	249.01-249.05; 249.08	E10.2-E10.8	
Type 2	250.01-250.05; 250.08	E11.2-E11.8	
14 Any tumor	140-194	C00-C75	2
15 Leukemia	204-207	C91-C95	2
16 Lymphoma	200-203; 275.59	C81-C85; C88; C90; C96	2
17 Moderate to severe liver disease	070.00; 070.02; 070.04; 070.06; 070.08; 573.00; 456.00-456.09	B15.0; B16.0; B16.2; B19.0; K70.4; K72; 3 K76.6; I85	
18 Metastatic solid tumor	195-198; 199	C76-C80	6
19 AIDS	079.83	B21-B24	6