

## Supplementary data

Table 3. Coefficients and standard errors (in parentheses) for cause-specific Cox and Fine-Gray regression, for revision and death as the end-point, on total hip replacement data. The cause-specific hazard ratios and subdistribution hazard ratios can be derived from these coefficients by computing  $\exp(\text{coefficient})$ . A positive coefficient implies a hazard ratio larger than 1, while a negative coefficient implies a hazard ratio smaller than 1

	Revision		Death	
	Cause-specific Cox	Fine-Gray	Cause-specific Cox	Fine-Gray
Fixation (uncemented)				
Cemented	-0.54 (0.05)	-0.54 (0.05)	0.23 (0.03)	0.24 (0.03)
Age (70 or younger)				
Older than 70 years	-0.11 (0.04)	-0.13 (0.04)	1.09 (0.03)	1.09 (0.04)
Gender (female)				
Male	0.11 (0.04)	0.10 (0.04)	0.43 (0.03)	0.43 (0.03)
ASA (ASA 1)				
ASA 2	0.08 (0.04)	0.08 (0.04)	0.41 (0.04)	0.40 (0.04)
ASA 3/4	0.27 (0.06)	0.24 (0.06)	1.28 (0.04)	1.27 (0.04)
Diagnosis (osteoarthritis)				
Osteonecrosis	0.15 (0.10)	0.13 (0.10)	0.62 (0.06)	0.61 (0.06)
Post-Perthes/dysplasia	0.02 (0.11)	0.02 (0.11)	-0.04 (0.12)	-0.03 (0.12)
Rheumatoid/inflammatory arthritis	0.06 (0.10)	0.05 (0.17)	0.36 (0.11)	0.36 (0.11)
Late posttraumatic	0.49 (0.10)	0.47 (0.10)	0.65 (0.07)	0.63 (0.07)

Table 4. Coefficients and standard errors for cause-specific Cox and Fine-Gray regression, for revision and death as the end-point, on total knee replacement data. The cause-specific hazard ratios and subdistribution hazard ratios can be derived from these coefficients by computing  $\exp(\text{coefficient})$ . A positive coefficient implies a hazard ratio larger than 1, while a negative coefficient implies a hazard ratio smaller than 1

	Revision		Death	
	Cause-specific Cox	Fine-Gray	Cause-specific Cox	Fine-Gray
Fixation (uncemented)				
Cemented	-0.05 (0.06)	-0.06 (0.06)	-0.02 (0.05)	-0.03 (0.05)
Age (70 or younger)				
Older than 70 years	-0.55 (0.03)	-0.57 (0.03)	1.31 (0.03)	1.32 (0.03)
Gender (female)				
Male	-0.01 (0.03)	-0.02 (0.03)	0.41 (0.03)	0.41 (0.03)
ASA (ASA 1)				
ASA 2	0.00 (0.04)	-0.01 (0.04)	0.28 (0.04)	0.27 (0.04)
ASA 3/4	0.04 (0.06)	0.01 (0.06)	1.03 (0.05)	1.02 (0.05)
Diagnosis (osteoarthritis)				
Osteonecrosis	-0.07 (0.25)	-0.08 (0.25)	0.45 (0.15)	0.45 (0.16)
Rheumatoid/inflammatory arthritis	-0.20 (0.13)	-0.20 (0.13)	0.20 (0.09)	0.21 (0.09)
Posttraumatic arthritis	0.28 (0.11)	0.28 (0.11)	0.00 (0.12)	0.00 (0.12)