

Supplementary data

Table 4. 6-year survival estimates with re-revision for aseptic loosening as the endpoint, by methods: Kaplan-Meier (KM), Kaplan-Meier with data censored at 7 years, and cumulative incidence function (CIF). Values are percentages

	6-year survival estimates for re-revision for aseptic loosening		
	KM	KM censored at 7 years	CIF
TM	97.0 (93.7–100)	97.0 (93.7–100)	97.3 (92.9–99.3)
MARR	95.7 (91.6–99.9)	95.7 (91.6–99.9)	95.8 (90.4–98.6)

Table 5. 6-year survival estimates with re-revision for any reason as the endpoint, by methods: Kaplan-Meier (KM), Kaplan-Meier with data censored at 7 years, and cumulative incidence function (CIF). Values are percentages

	6-year survival estimates for re-revision for aseptic loosening		
	KM	KM censored at 7 years	CIF
TM	87.2 (81.2–93.7)	87.2 (81.2–93.7)	90.1 (83.7–94.8)
MARR	94.6 (90.1–99.3)	94.6 (90.1–99.3)	99.0 (94.9–100)

Table 6. Hazard ratios (HRs) for re-revision due to aseptic loosening as calculated by competing risk regression and Cox regression with references: TM cup as reference for MARR, age group 60–75 for age, male sex for female sex, Paprosky I for Paprosky and presence of bone graft for no bone graft

	Competing risk regression			Cox regression		
	HR	95% CI	p-value	HR	95% CI	p-value
MARR	1.81	0.44–7.44	0.4	1.47	0.33–6.55	0.2
Age < 50	0.56	0.06–5.55	0.6	0.61	0.07–5.02	0.2
Age 50–59	0.34	0.04–2.64	0.3	0.35	0.04–2.78	0.8
Age > 75	0.17	0.02–1.26	0.08	0.20	0.02–1.63	0.1
Female	1.40	0.40–4.93	0.6	1.63	0.47–5.59	0.5
Paprosky II	1.77	0.40–7.9	0.5	1.56	0.32–7.58	0.8
Paprosky III	0.77	0.13–4.46	0.8	0.64	0.09–4.58	0.5
No bone graft				0.19	0.02–1.56	0.02

Table 7. Hazard ratios (HRs) for re-revision for any reason as calculated by competing risk regression and Cox regression with references: TM cup as reference for MARR, age group 60–75 for age, male sex for female sex, Paprosky I for Paprosky and presence of bone graft for no bone graft

	Competing risk regression			Cox regression		
	HR	95% CI	p-value	HR	95% CI	p-value
MARR	0.10	0.01–0.74	0.03	0.40	0.14–1.10	0.05
Age < 50	1.51	0.17–13.5	0.7	0.90	0.20–4.07	0.6
Age 50–59	2.84	0.67–12.1	0.2	1.02	0.33–3.18	0.6
Age > 75	1.19	0.31–4.62	0.8	0.59	0.21–1.68	0.2
Female	1.48	0.48–4.58	0.5	1.40	0.61–3.25	0.5
Paprosky II	2.91	0.37–22.8	0.3	2.20	0.64–7.69	0.3
Paprosky III	1.48	0.16–13.5	0.7	1.00	0.24–4.19	0.7
No bone graft				1.33	0.54–3.27	0.5