

Supplementary data

Table 4. Femoral head penetration rate (SD) (mm/year) per head size during the 1–2-year follow-up

Head size	Vitamin E HXLPE ^a	UHMWPE ^b
28 mm	0.033 (0.02)	0.067 (0.05)
32 mm	0.053 (0.03)	0.054 (0.04)
36 mm	0.043 (0.03)	

^a Vitamin E diffused highly cross-linked polyethylene.

^b UHMWPE: ultra-high molecular weight polyethylene.

No significant differences in wear between head sizes of same cup type.

Table 6. Numeric Rating Scale (NRS) and Harris Hip Score (HHS) preoperatively. Values are mean (SD)

Score	Total	Vitamin E HXLPE ^a	UHMWPE ^b
NRS rest pain	3.8 (2)	3.9 (3)	3.7 (3)
NRS load pain	6.4 (2)	6.3 (2)	6.4 (2)
NRS satisfaction	3.6 (2)	3.5 (2)	3.7 (1)
HHS	62 (17)	63 (19)	60 (15)

^{a, b} See Table 4.

Table 9. Postoperative complications during the 2-year follow-up

Complication	Total n = 199	Vitamin E HXLPE ^a n = 102	UHMWPE ^b n = 97
Cup malpositioning	1	1	
Pulmonary embolism	1	1	
Deep venous thrombosis	1	1	
Neurological damage	2		2
Superficial wound infection	2	1	1
Deep infection	1	1	
Leg length discrepancy	1	1	
Dislocation	4	1	3
Total	13 (7%)	7 (7%)	6 (6%)

^{a, b} See Table 4.

Table 7. Numeric Rating Scale (NRS) and Harris Hip Score (HHS) at 3 months' follow-up. Values are mean (SD)

Score	Total	Vitamin E HXLPE ^a	UHMWPE ^b
NRS rest pain	0.4 (1)	0.3 (1)	0.6 (1)
NRS load pain	1.0 (2)	0.8 (2)	1.2 (2)
NRS satisfaction	8.5 (2)	8.6 (2)	8.4 (1)
HHS	91 (10)	92 (9)	91 (11)

^{a, b} See Table 4.

Table 8. Numeric Rating Scale (NRS) and Harris Hip Score (HHS) at the 1-year follow-up. Values are mean (SD)

Score	Total	Vitamin E HXLPE ^a	UHMWPE ^b
NRS rest pain	0.4 (1)	0.4 (1)	0.3 (1)
NRS load pain	0.6 (2)	0.7 (2)	0.5 (2)
NRS satisfaction	8.7 (1)	8.8 (1)	8.6 (1)
HHS	94 (9)	94 (9)	94 (10)

^{a, b} See Table 4.