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Appendix 1. Revision risk according to Cox regression model (Post May 2014 data, adjusted for diagnosis, femoral head size, operated side, operation year group, fixation of the femoral stem, approach, ASA, BMI, and stratified by gender and age group) for any reason of revision. HR=hazard ratio. CI=confidence interval. NA= not available, no events in the reference group.

Group	HR	95 % CI		p
Revision for any reason				
Reference group	1			
Tritanium group	1.11	0.88	1.42	0.381
<i>Adjusting variables</i>				
Left vs. Right side	1.03	0.87	1.23	0.721
Cemented vs. Cementless stem	0.81	0.63	1.04	0.102
Diagnosis: Other vs. Rheumatoid arthritis	0.81	0.41	1.58	0.534
Diagnosis: Primary osteoarthritis vs. Rheumatoid arthritis	0.73	0.39	1.38	0.333
Head size: 28 vs. 36	1.73	0.64	4.68	0.283
Head size: 32 vs. 36	1.36	1.09	1.70	0.008
Approach: Posterior vs. Anterior (Smith-Peterson)	0.53	0.27	1.02	0.058
Approach: Anterolateral (modified Hardinge) vs. Anterior (Smith-Peterson)	0.49	0.25	0.98	0.043
ASA	1.37	1.19	1.58	< 0.001
BMI: < 20 vs. ≥ 30	1.04	0.60	1.81	0.880

BMI: 20-25 vs. ≥ 30	0.77	0.61	0.98	0.030
BMI: 25-30 vs. ≥ 30	0.69	0.56	0.84	< 0.001

Stratified by gender and age group. No events in Approach = Anterior (Watson-Jones) and Approach = trochanteric osteotomy