**Appendix 2.** Intraoperative complications, implant survival and patient survival after metal-on-metal hip replacement revision surgery in the matched cohort when revisions performed for infection were excluded

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Matched cohort | Number of hips (%) | Intraoperative complications | 5-year all-cause implant survival (95% CI) | 5-year all-cause patient survival  (95% CI) |
| Overall | 2304 | 2.3% (n = 52) | 93.0%  (91%-94%) | 96.7%  (95%-98%) |
| ARMD | 1152 | 2.3% (n = 26) | 93.7%  (90%-96%) | 97.8%  (95%-99%) |
| Non-ARMD (aseptic only) | 1152 | 2.3% (n = 26) | 92.2%  (90%-94%) | 96.0%  (93%-98%) |
| Regression analysis (95% CI)\* |  | OR = 1.00  (0.58-1.72)  p = 1.00  Adjusted OR = 1.02 (0.57-1.82) p = 0.950 | HR = 0.59  (0.40-0.89)  **p = 0.011**  Adjusted HR = 0.65 (0.42-0.99) **p = 0.047** | HR = 0.69  (0.35-1.37)  p = 0.287  Adjusted HR = 0.70 (0.34-1.44) p = 0.332 |

\*Adjusted regression models were assessed to account for the residual imbalance of two covariates after matching (time from primary to revision and year of revision); these covariates both had a standardized mean difference of > 10% (> 0.100) in the matched cohort; statistically significant differences (p < 0.05) are highlighted in bold; odds and hazard ratios > 1 represent an increased risk of the specified endpoint in ARMD revisions; CI = confidence interval; ARMD = adverse reactions to metal debris; OR = odds ratio; HR = hazard ratio.