**Supplementary Table 1. Univariate Regression Analysis for predicting intraoperative nerve insults**

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| **Covariate** | **OR (95% CI)** | **p-value** |
| Reverse TSA | 0.5 (00.06-4.15) | 0.52 |
| Age | 0.96 (0.88- 1.04) | 0.32 |
| Female | 1.5 (0.20- 11.5) | 0.70 |
| Body weight | 0.99 (0.95- 1.03) | 0.66 |
| BMI | 1.00 (0.89- 1.12) | 0.99 |
| Pre-existing peripheral neuropathy | 3.75 (0.19- 74.1) | 0.39 |
| Pre-existing cervical spine disease | 1.75 (0.12- 24.7) | 0.68 |
| Pre-existing motor deficit of the operative arm | 0.92 (0.74- 11.5) | 0.95 |
| Osteoarthritis | 0.86 (0.11- 6.62) | 0.88 |
| Diabetes | 3.75 (0.19- 74.1) | 0.39 |

Abbreviation: TSA: Total shoulder arthroplasty; OR: Odds ratio