### Appendix 3 - Primary Adjusted Model

|                          | Odds Ratio | Lower confidence limit | Upper confidence limit | P Value  |
|--------------------------|------------|------------------------|------------------------|----------|
| Inuit vs Non-Inuit       | 1.245      | 1.03                   | 1.51                   | 0.03     |
| 66-74 vs. 18-65 age group | 1.713      | 1.63                   | 1.80                   | <0.0001  |
| 74+ vs. 18-65 age group  | 2.534      | 2.42                   | 2.65                   | <0.0001  |
| Male vs. Female          | 1.103      | 1.06                   | 1.15                   | <0.0001  |
| Dental Surgery vs. Orthopedic Surgery | 0.367      | 0.26                   | 0.51                   | <0.0001  |
| Otolaryngology vs. Orthopedic Surgery | 0.858      | 0.77                   | 0.96                   | 0.01     |
| General Surgery vs. Orthopedic Surgery | 1.820      | 1.73                   | 1.92                   | <0.0001  |
| Gyne Oncology vs. Orthopedic Surgery | 1.612      | 1.44                   | 1.80                   | <0.0001  |
| Gynecology vs. Orthopedic Surgery | 0.604      | 0.54                   | 0.67                   | <0.0001  |
| Neurosurgery vs. Orthopedic Surgery | 1.009      | 0.94                   | 1.09                   | 0.81     |
| Plastic Surgery vs. Orthopedic Surgery | 1.260      | 1.05                   | 1.51                   | 0.01     |
| Thoracic Surgery vs. Orthopedic Surgery | 1.923      | 1.76                   | 2.10                   | <0.0001  |
| Urology vs. Orthopedic Surgery | 0.835      | 0.78                   | 0.90                   | <0.0001  |
| Vascular Surgery vs. Orthopedic Surgery | 2.042      | 1.90                   | 2.19                   | <0.0001  |
| sims_category 2 vs. 1   | 1.077      | 1.03                   | 1.13                   | 0.00     |
| sims_category 3 vs. 1   | 1.396      | 1.29                   | 1.51                   | <0.0001  |
| sims_category 4 vs. 1   | 2.176      | 1.98                   | 2.39                   | <0.0001  |
| increase in PIMR score by 1 | 1.380      | 1.36                   | 1.40                   | <0.0001  |

SIMS: surgical information management system; PIMR: procedural index for mortality risk