**Appendix F: Unbalanced Panel Data Analysis with Adjustment for Response Rate and 6-month Mortality Rate (FY 2010/11 and FY 2011/12)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **EQ-5D** | **EQ-VAS** | **Oxford Hip Score** | **Oxford Knee Score** |
| **Variable** |
| **30-day readmission rate following hip replacement** | 0.004**\*\*\*** | 0.38**\*\*\*** | 0.21**\*\*\*** | **-** |
| Coefficient (95% CI) | (0.002 to 0.006) | (-0.08 to 0.57) | (0.15 to 0.27) | **-** |
| **Response rate following hip replacement**  Coefficient (95% CI)  **6-month mortality rate following hip replacement**  Coefficient (95% CI) | 0.00  (-0.00 to 0.00)  0.002  (-0.003 to 0.008) | -0.00  (-0.03 to 0.02)  0.22  (-0.17 to 0.62) | -0.003  (-0.01 to 0.00)  0.14  (-0.04 to 0.34) | **-**  **-**  **-**  **-** |
| **30-day readmission rate following knee replacement** | 0.002**\*\*\*** | 0.15**\*\*** | **-** | 0.13**\*\*\*** |
| Coefficient (95% CI) | (-0.000 to 0.004) | (-0.03 to 0.27) | **-** | (-0.07 to 0.19) |
|  |  |  |  |  |
| **Response rate**  Coefficient (95% CI)  **6-month mortality rate following knee replacement**  Coefficient (95% CI) | -0.00  (-0.00 to 0.00)  -0.23  (-0.70 to 0.24) | -0.04**\*\*\***  (-0.06 to 0.02)  -27.29**\***  (-58.85 to 4.26) | **-**  **-**  **-**  **-** | 0.005  (-0.001 to 0.013)  -13.63**\***  (-29.39 to 2.11) |

*Appendix note: 1\*\*\* indicates that the variable has robust impact on dependent variable at 1% significance level, \*\* for 5%, and \* for 10%; 2 The Hausman test was used to determine the preferred model effect; 3 Direction of coefficients has been inverted to represent effect of a 1% reduction in the independent on the dependent variable.*