**Appendix E: Unbalanced Panel Data Analysis with Adjustment for Response Rate**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **EQ-5D** | **EQ-VAS** | **Oxford Hip Score** | **Oxford Knee Score** |
| **Variable** |
| **30-day readmission rate following hip replacement** | 0.004**\*\*\*** | 0.38**\*\*\*** | 0.20**\*\*\*** | - |
| Coefficient (95% CI) | (0.003 to 0.006) | (0.25 to 0.51) | (0.15 to 0.26) | - |
| **Response rate**Coefficient (95% CI) | -0.000(-0.000 to 0.000)  | -0.001(-0.019 to 0.041) | -0.002(-0.008 to 0.013) | -- |
| **30-day readmission rate following knee replacement** | 0.003**\*\*\***  | 0.21**\*\*\*** | - | 0.13**\*\*\*** |
| Coefficient (95% CI) | (0.001 to 0.004) | (0.12 to 0.30) | - | (0.09 to 0.19) |
|  |  |  |  |  |
| **Response rate**Coefficient (95% CI) | -0.000(-0.000 to 0.000) | -0.001(-0.017 to 0.003) | -- | -0.006(-0.145 to 0.000) |

 *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.*