**Appendix C: Strictly Balanced Panel Data Model**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **EQ-5D** | | **EQ-VAS** | | **Oxford Hip Score** | | **Oxford Knee Score** |
| **Variable**  **(strictly balanced panel)** |
| **30-day readmission rate** **following hip replacement** | 0.004**\*\*\*** | | 0.38**\*\*\*** | | 0.21**\*\*\*** | | - |
| Coefficient (95% CI) | (0.003 to 0.006) | | (0.25 to 0.51) | | (0.15 to 0.27) | | - |
| Average number of Trusts per year | 125 | | 125 | | 125 | | - |
| **30-day readmission rate** **following knee replacement** | 0.003**\*\*\*** | | 0.26**\*\*\*** | | - | | 0.15**\*\*\*** |
| Coefficient (95% CI) | (0.001 to 0.005) | | (0.14 to 0.38) | | - | | (0.09 to 0.21) |
| Average number of Trusts per year | 120 | | 129 | | - | | 120 |
| **(unbalanced panel)** |  | |  | |  | |  |
| **30-day readmission rate following hip replacement** | 0.004**\*\*\*** | 0.39**\*\*\*** | | 0.21**\*\*\*** | | - | |
| Coefficient (95% CI) | (0.002 to 0.006) | (0.26 to 0.52) | | (0.15 to 0.27) | | - | |
| Average number of Trusts per year | 130 | 130 | | 130 | |  | |
| **30-day readmission rate following knee replacement** | 0.003**\*\*\*** | 0.21**\*\*\*** | | - | | 0.14**\*\*\*** | |
| Coefficient (95% CI) | (0.001 to 0.004) | (0.12 to 0.30) | | - | | (0.09 to 0.20) | |
| Average number of Trusts per year | 124 | | 124 | | - | | 124 |

*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; 3Direction of coefficients has been inverted to represent effect of a 1% reduction in the readmission rate on the dependent variable.*