**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.*