**Appendix Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Comparison | Rate difference (per 1000 inpatient days) | Lower 95% CI | Upper 95% CI | P-value |
| *Melatonin* |  |  |  |  |
| ICU vs. other | 31.7 | 30.6 | 32.7 | <0.001 |
| IM vs. other | 29.1 | 28.3 | 29.9 | <0.001 |
| ICU vs. IM | 2.6 | 1.3 | 3.8 | <0.001 |
| MSICU vs. CICU | 42.9 | 40.4 | 45.4 | <0.001 |
| CICU vs. CVICU | 6.2 | 3.8 | 8.6 | <0.001 |
| MSICU vs. CVICU | 49.1 | 47.1 | 51.1 | <0.001 |
| Hospital B vs. Hospital A | 20.8 | 20.2 | 21.4 | <0.001 |
| Hospital B IM vs. Hospital A IM | 32.1 | 30.7 | 33.7 | <0.001 |
| Year 2018 vs. 2013 | 71.3 | 70.3 | 72.3 | <0.001 |
| *Zopiclone* |  |  |  |  |
| ICU vs. other | 5.7 | 4.0 | 7.4 | <0.001 |
| IM vs. other | -55.2 | -56.2 | -54.2 | <0.001 |
| ICU vs. IM | 60.9 | 59.2 | 62.7 | <0.001 |
| MSICU vs. CICU | -74.2 | -79.8 | -68.6 | <0.001 |
| CICU vs. CVICU | 42.9 | 36.5 | 49.2 | <0.001 |
| MSICU vs. CVICU | -31.3 | -35.3 | -27.3 | <0.001 |
| Hospital B vs. Hospital A | -75.1 | -76.0 | -74.1 | <0.001 |
| IM Hospital B vs. IM Hospital A | -22.4 | -23.9 | -20.8 | <0.001 |
| Year 2018 vs. 2013 | -20.4 | -22.1 | -18.6 | <0.001 |
| *Lorazepam* |  |  |  |  |
| ICU vs. other | -35.3 | -36.7 | -33.9 | <0.001 |
| IM vs. other | -17.2 | -18.4 | -16.0 | <0.001 |
| ICU vs. IM | -18.1 | -19.7 | -16.6 | <0.001 |
| MSICU vs. CICU | -35.3 | -39.7 | -30.9 | <0.001 |
| CICU vs. CVICU | 64.7 | 60.1 | 69.3 | <0.001 |
| MSICU vs. CVICU | 29.4 | 26.8 | 32.0 | <0.001 |
| Hospital B vs. Hospital A | -32.5 | -33.5 | -31.6 | <0.001 |
| IM Hospital B vs. IM Hospital A | 0.9 | -1.0 | 2.9 | 0.34 |
| Year 2018 vs. 2013 | 3.5 | 1.7 | 5.3 | <0.001 |

Comparisons use all study data from January 2013 to December 2018, except where a specific year is specified.

Abbreviations: ICU = intensive care unit, IM = internal medicine, MSICU = Medical-Surgical Intensive care unit, CICU = Cardiac Intensive Care Unit, CVICU = Cardiovascular Surgery Intensive Care unit, CI = confidence interval.