**Appendix A.** Change in conditions of interest among Minimum Data Set 3.0 assessments showing 1-day antibiotic use, comparing 2012 vs. 2016,\*\* adjusted for seasonality (calendar month) and NH cluster standard errors.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | All *(regardless of cognitive status)* | All ADRD*(n=* *1,243,779)* | ADRD with ACI*(n=* *286,066)* | ADRD without ACI*(n=* *957,783)* |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | AOR | 95% CI | AOR | 95% CI | AOR | 95% CI | AOR | 95% CI |
| UTI | 0.56\* | 0.53 | 0.59 | 0.53\* | 0.48 | 0.59 | 0.58\* | 0.54 | 0.61 | 0.59\* | 0.55 | 0.63 |
| No Infection | 1.44\* | 1.37 | 1.50 | 1.07\* | 1.02 | 1.11 | 1.18\* | 1.15 | 1.21 | 1.15\* | 1.12 | 1.18 |
| Any Infection, Except UTI  | 0.99 | 0.92 | 1.06 | 0.89 | 0.79 | 1.00 | 0.98 | 0.91 | 1.06 | 1.01 | 0.92 | 1.09 |

Note: \*Statistically significant at alpha = .05; \*\*Represents a 10% random sample of CMS-certified U.S. NHs’ quarterly and annual assessments, 2012 includes April 1st 2012- December 31st 2012 and 2016 includes January 1st 2016 -November 30th 2016 as per consistently defined variables and data availability. AOR, Adjusted Odds Ratio; CI: Confidence Interval; “All” represents all quarterly and annual resident assessments; ADRD, Alzheimer's Disease or Related Dementia; ACI, advanced cognitive impairment; UTI, urinary tract infection.

**Appendix B.** Proportion of Minimum Data Set 3.0 assessments recording conditions of interest among those with 1-day antibiotic use, comparing 2012 vs. 2016,\* adjusted for seasonality (calendar month) and NH cluster standard errors.



Note: \*Represents a 10% random sample of CMS-certified U.S. NHs’ quarterly and annual assessments, 2012 includes April 1st 2012- December 31st 2012 and 2016 includes January 1st 2016 -November 30th 2016 as per consistently defined variables and data availability. UTI, urinary tract infection.