Supplement 1: Pneumonia incidence in nursing home residents with dementia calculated with data from three different studies

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| --- | --- | --- | --- | --- | --- |
| **Study** | **Year** | **Number of pneumonia events** | **Number of beds/year** | **Incidence/**  **1000 beds/year** | **95% CI** |
| National surveillance | 2009\*\* | 632 | 3352.4 | 188.5 | 174.4-203.8 |
| 2010 | 588 | 3050.5 | 192.8 | 177.8-209.0 |
| 2011 | 393 | 2629.7 | 149.4 | 135.4-165.0 |
| 2012 | 388 | 2104.9 | 184.3 | 166.9-203.6 |
| 2013 | 452 | 2334.2 | 193.6 | 176.6-212.3 |
|  | 2014 | 721 | 3036.1 | 237.5 | 220.8-255.5 |
|  | 2015\*\* | 543 | 2707.6 | 200.5 | 184.4-218.1 |
| National surveillance corrected for proportion of psychogeriatric beds\* | 2009\*\* | 113.7 | 1224.0 | 92.9 | 77.3-111.6 |
| 2010 | 188.5 | 1609.5 | 117.1 | 101.5-135.1 |
| 2011 | 146.2 | 1853.8 | 78.9 | 67.1-92.7 |
| 2012 | 171.9 | 1747.5 | 98.4 | 84.7-114.2 |
| 2013 | 218.4 | 2275.3 | 96.0 | 84.1-109.6 |
| 2014 | 353.5 | 3036.1 | 116.4 | 104.9-129.2 |
| 2015\*\* | 252.0 | 2707.6 | 93.1 | 82.3-105.3 |
| PneuMonitor trial\* | 2012 | 89 | 1136.0 | 78.3 | 63.6-96.4 |
| 2013 | 233 | 2471.7 | 94.3 | 82.9-107.2 |
| 2014 | 213 | 2707 | 78.7 | 68.8-90.0 |
| 2015 | 63 | 887.3 | 71.0 | 55.5-90.9 |
| DEOLD study\* | 2007 | 13 | 48.6 | 267.3 | 155.2-460.3 |
| 2008 | 70 | 192.7 | 363.2 | 287.3-459.1 |
|  | 2009 | 55 | 203.7 | 270.0 | 207.3-351.7 |
|  | 2010 | 26 | 81.1 | 320.5 | 218.2-470.7 |

\*For national surveillance corrected for the proportion of psychogeriatric beds, the PneuMonitor trial and the DEOLD study this concerns only psychogeriatric wards participating in the studies

\*\*53 weeks, for the other years calculated with 52 weeks

CI, confidence interval