**Epidemiology and Infection**

**Incidence of Pneumonia in Nursing Home Residents in Germany: Results of a Claims Data Analysis**

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**Supplementary Material**

**Supplementary Table S2. Incidence of pneumonia in NH by comorbid conditions**

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| --- | --- | --- | --- |
|  | **No. of pneumonia cases** | **Person-time** **in 100 PY** | **Incidence rate (per 100 PY)****[with 95% CI]** |
| **Total** | 19183 | 162062.9 | 11.8 | [11.7 – 12.0] |
| **Hypertension uncomplicated** |
| Yes  | 16267 | 135457.7 | 12.0 | [11.8 – 12.2] |
| No | 2916 | 26605.2 | 11.0 | [10.6 – 11.4] |
| **Fluid and electrolyte disorders** |
| Yes | 10130 | 72738.1 | 13.9 | [13.7 – 14.2] |
| No | 9053 | 89324.7 | 10.1 | [9.9 – 10.3] |
| **Congestive heart failure** |
| Yes | 9156 | 65661.1 | 13.9 | [13.7 – 14.2] |
| No | 10027 | 96401.8 | 10.4 | [10.2 – 10.6] |
| **Cardiac Arrhythmia** |
| Yes | 8730 | 61951.5 | 14.1 | [13.8 – 14.4] |
| No | 10453 | 100111.4 | 10.4 | [10.2 – 10.6] |
| **Depression** |
| Yes | 7541 | 66102.3 | 11.4 | [11.2 – 11.7] |
| No | 11642 | 95960.6 | 12.1 | [11.9 – 12.4] |
| **Diabetes Uncomplicated** |
| Yes | 6536 | 50025.4 | 13.1 | [12.8 – 13.4] |
| No | 12647 | 112037.5 | 11.3 | [11.1 – 11.5] |
| **Renal Failure** |
| Yes | 6518 | 44276.6 | 14.7 | [14.4 – 10.9] |
| No | 12665 | 117786.3 | 10.8 | [10.6 – 10.9] |
| **Chronic Pulmonary Disease** |
| Yes | 5610 | 34947.4 | 16.1 | [15.6 – 16.5] |
| No | 13573 | 127115.4 | 10.7 | [10.5 – 10.9] |
| **Other Neurological Disorders** |
| Yes | 5605 | 38198.5 | 14.7 | [14.3 – 15.1] |
| No | 13578 | 123864.4 | 11.0 | [10.8 – 11.1] |
| **Peripheral Vascular Disorders** |
| Yes | 4932 | 34833.8 | 14.2 | [13.8 – 14.6] |
| No | 14251 | 127229.1 | 11.2 | [11.0 – 11.4] |
| **Hypertension Complicated** |
| Yes | 4389 | 31294.7 | 14.0 | [13.6 – 14.4] |
| No | 14794 | 130768.2 | 11.3 | [11.1 – 11.5] |
| **Valvular Disease** |
| Yes | 3795 | 27897.1 | 13.6 | [13.2 – 14.0] |
| No | 15388 | 134165.8 | 11.5 | [11.3 – 11.7] |
| **Paralysis** |
| Yes | 3573 | 23411.7 | 15.3 | [14.8 – 15.8] |
| No | 15610 | 138651.2 | 11.3 | [11.1 – 11.4] |
| **Diabetes Complicated** |
| Yes | 3536 | 25610.9 | 13.8 | [13.4 – 14.3] |
| No | 15647 | 136452.0 | 11.5 | [11.3 – 11.6] |
| **Hypothyroidism** |
| Yes | 3260 | 27342.1 | 11.9 | [11.5 – 12.3] |
| No | 15923 | 134720.8 | 11.8 | [11.6 – 12.0] |
| **Solid Tumor without Metastasis** |
| Yes | 2964 | 140689.5 | 13.9 | [13.4 – 14.4] |
| No | 16219 | 21373.4 | 11.5 | [11.4 – 11.7] |
| **Obesity** |
| Yes | 2415 | 19939.2 | 12.1 | [11.6 – 12.6] |
| No | 16768 | 142123.7 | 11.8 | [11.6 – 12.0] |
| **Deficiency Anemia** |
| Yes | 2295 | 16749.7 | 13.7 | [13.1 – 14.3] |
| No | 16888 | 145313.2 | 11.6 | [11.4 – 11.8] |
| **Liver disease** |
| Yes | 2273 | 18657.2 | 12.2 | [11.7 – 12.7] |
| No | 16910 | 143405.7 | 11.8 | [11.6 – 12.0] |
| **Coagulopathy** |
| Yes | 2147 | 14271.3 | 15.0 | [14.4 – 15.7] |
| No | 17036 | 147791.6 | 11.5 | [11.4 – 11.7] |
| **Weight loss** |
| Yes | 1955 | 12899.8 | 15.2 | [14.5 – 15.8] |
| No | 17228 | 149163.1 | 11.5 | [11.4 – 11.7] |
| **Rheumatoid arthritis / collagen** |
| Yes | 1838 | 14907.2 | 12.3 | [11.8 – 12.9] |
| No | 17345 | 147155.7 | 11.8 | [11.6 – 12.0] |
| **Pulmonary Circulation Disorders** |
| Yes | 1395 | 8772.0 | 15.9 | [15.1 – 16.8] |
| No | 17788 | 153290.9 | 11.6 | [11.4 – 11.8] |
| **Psychoses** |
| Yes | 1174 | 10293.5 | 11.4 | [10.8 – 12.1] |
| No | 18009 | 151769.4 | 11.9 | [11.7 – 12.0] |
| **Alcohol abuse** |
| Yes | 911 | 7584.8 | 12.0 | [11.2 – 12.8] |
| No | 18272 | 154478.1 | 11.8 | [11.7 – 12.0] |
| **Metastatic Cancer** |
| Yes | 723 | 4653.6 | 15.5 | [14.4 – 16.7] |
| No | 18460 | 157409.2 | 11.7 | [11.6 – 11.9] |
| **Peptic Ulcer Disease excluding bleeding** |
| Yes | 504 | 3784.1 | 13.3 | [12.2 – 14.5] |
| No | 18679 | 158278.7 | 11.8 | [11.6 – 12.0] |
| **Drug abuse** |
| Yes | 494 | 4541.5 | 10.9 | [9.9 – 11.9] |
| No | 18689 | 157521.4 | 11.9 | [11.7 – 12.0] |
| **Blood Loss Anemia** |
| Yes | 435 | 3431.7 | 12.7 | [11.5 – 13.9] |
| No | 18748 | 158631.2 | 11.8 | [11.7 – 12.0] |
| **Lymphoma** |
| Yes | 270 | 1655.0 | 16.3 | [14.4 – 18.4] |
| No | 18913 | 160407.8 | 11.8 | [11.6 – 12.0] |
| **HIV / AIDS** |
| Yes | 9 | 27.74 | 32.4 | [14.8 – 61.6] |
| No | 19174 | 162035.1 | 11.8 | [11.7 – 12.0] |