Supplementary Online Content


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This supplementary material has been provided by the authors to give readers additional information about their work.
eAppendix

Case identification

Dementia diagnoses were identified using the following International Classification of Diseases, version 9, Clinical Modification (ICD-9-CM) codes [1, 2]:
290.0-290.9, 291.1, 291.2, 292.82, 292.83, 294.0, 294.1, 294.8, 294.9, 331.0, 331.1, 331.7, 331.9, 797, or 799.3


Linear regression

eTable 1. Data used to build the model

<table>
<thead>
<tr>
<th>Year</th>
<th>2000</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>85 years and older hospitalized with a dementia code</td>
<td>702,807</td>
<td>769,864</td>
<td>819,192</td>
<td>869,565</td>
<td>884,069</td>
<td>946,799</td>
<td>1,004,300</td>
<td>1,045,349</td>
<td>1,206,634</td>
</tr>
<tr>
<td>85 years and older US population</td>
<td>4,285,996</td>
<td>4,417,739</td>
<td>4,547,066</td>
<td>4,715,881</td>
<td>4,848,667</td>
<td>5,056,717</td>
<td>5,281,004</td>
<td>5,515,250</td>
<td>5,721,768</td>
</tr>
</tbody>
</table>

eTable 2. Regression model

Source | SS      | df | MS      | Number of obs = 9
-------|--------|----|--------|--------------------
Model  | 10946573.1 | 1  | 10946573.1 | Prob > F = 0.0006
Residual | 2149126.93 | 7  | 307018.133 | R-squared = 0.8359
Total   | 13095700     | 8  | 1636962.5  | Root MSE = 554.09

Incidences | Coef.  | Std. Err. | t     | P>|t| | [95% Conf. Interval]
------------|--------|-----------|------|-----|----------------|
Year       | 427.1333 | 71.53299  | 5.97 | 0.001 | 257.9847 | 596.282 |
_cons      | 16768.8  | 340.5652  | 49.24 | 0.000 | 15963.49 | 17574.11|

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## eTable 3. Projected future volumes, by 5-year increments

<table>
<thead>
<tr>
<th>Year</th>
<th>2010</th>
<th>2015</th>
<th>2020</th>
<th>2025</th>
<th>2030</th>
<th>2035</th>
<th>2040</th>
<th>2045</th>
<th>2050</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static Using 2000 incidence</td>
<td>943,035</td>
<td>1,031,746</td>
<td>1,081,759</td>
<td>1,187,033</td>
<td>1,433,983</td>
<td>1,877,542</td>
<td>2,328,152</td>
<td>2,785,158</td>
<td>3,122,295</td>
</tr>
<tr>
<td>Using 2008 incidence</td>
<td>1,212,798</td>
<td>1,326,887</td>
<td>1,391,207</td>
<td>1,526,595</td>
<td>1,844,187</td>
<td>2,414,631</td>
<td>2,994,142</td>
<td>3,581,878</td>
<td>4,015,457</td>
</tr>
<tr>
<td>Dynamic Point estimate</td>
<td>1,210,018</td>
<td>1,458,221</td>
<td>1,669,797</td>
<td>1,986,898</td>
<td>2,587,016</td>
<td>3,631,764</td>
<td>4,806,610</td>
<td>6,112,867</td>
<td>7,259,470</td>
</tr>
<tr>
<td>Lower 95% bound</td>
<td>1,066,427</td>
<td>1,247,909</td>
<td>1,393,496</td>
<td>1,622,485</td>
<td>2,072,830</td>
<td>2,861,693</td>
<td>3,731,643</td>
<td>4,683,240</td>
<td>5,495,751</td>
</tr>
<tr>
<td>Upper 95% bound</td>
<td>1,353,609</td>
<td>1,668,534</td>
<td>1,946,099</td>
<td>2,351,311</td>
<td>3,101,202</td>
<td>4,401,836</td>
<td>5,881,577</td>
<td>7,542,495</td>
<td>9,023,189</td>
</tr>
</tbody>
</table>