The Mapping Medicare Disparities Tool: Facilitating Health Disparities Research

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Produced by the CMS Office of Minority Health in collaboration with NORC at the University of Chicago and KPMG
Mapping Medicare Disparities (MMD) Tool

<table>
<thead>
<tr>
<th>Year</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geography</td>
<td>County</td>
</tr>
<tr>
<td>Measure</td>
<td>Prevalence</td>
</tr>
<tr>
<td>Adjustment</td>
<td>Actual</td>
</tr>
<tr>
<td>Analysis</td>
<td>Base Measure</td>
</tr>
<tr>
<td>Condition</td>
<td>Acute Myocardial Infarct</td>
</tr>
<tr>
<td>Sex</td>
<td>All</td>
</tr>
<tr>
<td>Age</td>
<td>All</td>
</tr>
<tr>
<td>Dual Eligible</td>
<td>Dual &amp; Non-Dual</td>
</tr>
<tr>
<td>Race and Ethnicity</td>
<td>All</td>
</tr>
</tbody>
</table>

To zoom in on a region, move your cursor over the region of interest and scroll your mouse wheel (scroll-up). To zoom back out, scroll-down. Chrome is recommended.

**Prevalence (%) per year**
- < 4
- 4 to 5
- 5 to 6
- 6 to 7
- 7+

Creating the Tool: Software & Technology Employed

Creation of Public Data Files from Medicare Claims data

Hosting of the Public Files

The Visualization

Datasets containing measures and other information which drive the tool were created using:

- SAS
- STATA
- SQL

Data files are hosted by CMS’ cloud-based solution provider.

Datasets hosted are queried by the Tool live, as users make selections (minimizing data transfer and corresponding load time)

Entirely client-side, the visualization itself is composed of:

- HTML, Javascript
- D3.js (Data-Driven Documents)

Additional Javascript frameworks provide core functionality

The MMD Tool:

- Is maintained on an ongoing basis, being updated with new measures and data; and
- Allows for downloading of the underlying data for direct manipulation by researchers.
A Geographic Visualization

The MMD Tool:

• Fits with CMS OMH’s nationwide focus
• Provides a variable level of detail, allowing users to “zoom in” on precise areas of interest
• Provides a set of pre-computed analyses which can be used to assess disparities in numerous ways
• Engages the general public and highlights healthcare disparities, especially for non-technical analysts
Thank you!

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For more information, or to view the MMD Tool, visit: https://data.cms.gov/mapping-medicare-disparities

With follow up questions, or suggestions on ways we can make this tool more useful, email us at: mapping-medicare-disparities@norc.org