Stroke Designation Update

Public Health and Health Planning Council
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NYS has the lowest Stroke Mortality Rate in the US
- Stroke is the fourth leading cause of death in the US
- #1 cause of disability
- 119 Hospitals are Designated Stroke Centers including Rural counties
Stroke Designation is a quality initiative which represents a coordinated system of care to expedite treatment.

- Designation Requirements for Stroke Center
  - Stroke team
  - Education
  - 24/7 capabilities
  - Quality assurance/data/registry
## Table 4. Sensitivity Analysis: 30-Day Mortality at Designated Stroke Centers and Nondesignated Hospitals

<table>
<thead>
<tr>
<th>Location</th>
<th>Designated Stroke Center</th>
<th>Nondesignated Hospital</th>
<th>Adjusted Mortality Difference (95% CI)</th>
<th>P Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metropolitan NY</td>
<td>1034/11120 (9.3)</td>
<td>715/6881 (10.4)</td>
<td>-2.0 (−3.4 to −0.5)</td>
<td>.01</td>
</tr>
<tr>
<td>Upstate NY</td>
<td>509/4177 (12.2)</td>
<td>1236/8769 (14.1)</td>
<td>-2.0 (−3.8 to −0.3)</td>
<td>.02</td>
</tr>
<tr>
<td>Race/ethnicity</td>
<td></td>
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</tr>
<tr>
<td>Non-Hispanic white</td>
<td>1091/8865 (12.3)</td>
<td>1635/11649 (14.0)</td>
<td>-2.5 (−3.9 to −1.1)</td>
<td>&lt;.001</td>
</tr>
<tr>
<td>Non-Hispanic black</td>
<td>204/3337 (6.1)</td>
<td>148/2303 (6.4)</td>
<td>-2.4 (−4.8 to −0.0)</td>
<td>.05</td>
</tr>
<tr>
<td>Hispanic</td>
<td>117/1507 (7.8)</td>
<td>73/784 (9.3)</td>
<td>−5.2 (−9.4 to −0.9)</td>
<td>.02</td>
</tr>
<tr>
<td>Other</td>
<td>131/1588 (8.3)</td>
<td>95/914 (10.4)</td>
<td>-3.2 (−7.3 to 0.9)</td>
<td>.12</td>
</tr>
</tbody>
</table>

Abbreviation: CI, confidence interval.

a Negative values indicate lower mortality at designated stroke center vs nondesignated hospital.

b Stratified by location.

c Stratified by race/ethnicity group.
Acute Treatment and Care: Percentage of Stroke Discharges Resulting in In-Hospital Mortality, SPARCS NY 2003-2011

Data Source: Statewide Planning and Research Cooperative System (SPARCS) 2003-2011; Acute Stroke defined as ICD-9-CM of 430-436
In-Hospital mortality defined as disposition 20
Percentage of Hospital Discharges for Ischemic Stroke (ICD-9-CM 433-434) in which tPA was administered, SPARCS NY 2003-2011

Data Source: SPARCS 2003-2011
Ischemic Stroke as defined by principal diagnosis of ICD-9-CM 433-434
tPA defined as any procedure code of ICD-9-CM 99.10 or AP DRG of 880 or Federal DRG of 061 or 062 or 063 in 2008 to 2011 or Federal DRG of 559 in 2006 or 2007