Small Area Data for Uncovering Hidden Health Disparities

March 24, 2016
Prevention Agenda Tracking Dashboard

• Data available on tracking indicators at:
  – State,
  – Regional,
  – County, and
  – **Sub-county levels**

that can be used for Community Health Assessment and Planning
How to Access the Dashboard

• Direct link: https://health.ny.gov/preventionagendadashboard


• Click on “Providers/Professionals” tab

• Click on “Health Initiatives” to access the Prevention Agenda homepage
Access the Prevention Agenda Homepage

From the NYS Health Initiatives, click on “Prevention Agenda 2013-2018: New York State's Health Improvement Plan” link.
Access the Dashboard

- From the Prevention Agenda Homepage, the Dashboard can be accessed from the two places as below:
Prevention Agenda Dashboard

Albany County - Prevention Agenda (PA) indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Data Views</th>
<th>Dial</th>
<th>PA 2017 Objective and Most Recent Data</th>
<th>Indicator Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 - Percentage of adults who are obese</td>
<td>25.7</td>
<td></td>
<td>NO SIGNIFICANT CHANGE</td>
<td></td>
</tr>
<tr>
<td>15 - Percentage of children and adolescents who are obese</td>
<td>17.0</td>
<td></td>
<td>IMPROVED#</td>
<td></td>
</tr>
<tr>
<td>16 - Percentage of cigarette smoking among adults</td>
<td>16.3</td>
<td></td>
<td>NO SIGNIFICANT CHANGE</td>
<td></td>
</tr>
<tr>
<td>17 - Percentage of adults who received a colorectal cancer screening based on the most recent guidelines - Aged 50-75 years</td>
<td>72.8</td>
<td></td>
<td>NO SIGNIFICANT CHANGE</td>
<td></td>
</tr>
<tr>
<td>18 - Asthma emergency department visit rate per 10,000 population</td>
<td>64.1</td>
<td></td>
<td>SIGNIFICANTLY WORSENED</td>
<td></td>
</tr>
<tr>
<td>19 - Asthma emergency department visit rate per 10,000 - Aged 0-4 years</td>
<td>184.3</td>
<td></td>
<td>NO SIGNIFICANT CHANGE</td>
<td></td>
</tr>
</tbody>
</table>

Data Source: 2013-2014 NYS Expanded Behavioral Risk Factor Surveillance System data as of September 2014

Sub-County Data under County Dashboard

New York State Prevention Agenda Dashboard - County Level: Orange County

State Dashboard  County Dashboard  About This Site  Prevention Agenda 2013-2018

County Dashboard Home  Data Table  County Comparison  Health Data NY

Select County Orange

Filter by County Status on:

PA 2018 Objective: Met  Not Met

Indicator Performance: Improved  No Change  Worsened

County’s Position: Lower Risk  Middle Risk  Higher Risk
Improve Health Status and Reduce Health Disparities

<table>
<thead>
<tr>
<th>Orange County - Prevention Agenda (PA) Indicators</th>
<th>Data Views</th>
<th>Dial</th>
<th>PA 2018 Objective and Most Recent Data</th>
<th>Indicator Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - Percentage of premature deaths (before age 65 years)</td>
<td><img src="image" alt="Sub-County Data" /></td>
<td>26.0</td>
<td></td>
<td><img src="image" alt="NO SIGNIFICANT CHANGE" /></td>
</tr>
<tr>
<td>1.1 - Premature deaths: Ratio of Black non-Hispanics to White non-Hispanics</td>
<td><img src="image" alt="Sub-County Data" /></td>
<td>2.00</td>
<td></td>
<td><img src="image" alt="WORSENED#" /></td>
</tr>
</tbody>
</table>
Percentage of premature deaths (before age 65 years), three year average, 2011-2013

Orange County Minor Civil Division Map

Deaths (before age 65 years)
Orange County - 26.2
New York State - 23.8
New York State (Excl NYC) - 21.0

Quartile (Q) Distribution (Excl NYC)
- < 23.8 : Q1 - Q2
- 23.8 < 29.6 : Q3
- 29.6+ : Q4

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County Health Rankings
Small Area Data Reports - Pilot Project
New York State Department of Health

March 24, 2016
Goal: Explore ways to enhance local data availability in order to aid communities in identifying and prioritizing opportunities and targeting resources for health improvement, within and across counties.
Background for New York Project

**Goal:** Develop and evaluate sub-county reports (62) for NYS that include data below county level for selected County Health Rankings measures (where data are available)

**Rationale:** Public health action is local; county level estimates of key indicators may not reflect needs of priority sub-populations or communities

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**Co-Investigators:** Ian Brissette, PhD; Sylvia Pirani, MPH, MS  
**Team:** Isaac Michaels, MPH; Mycroft Sowizral, PhD; Yunshu Li, MS; Anne McCarthy, MPH
Measures

Vital Statistics and SPARCS data:
- Premature death
- Low birthweight
- Teen pregnancies
- Preventable hospital stays
- Injury deaths

Expanded BRFSS 2013-2014 data
- Poor mental health
- Adult smoking
- Adult obesity
- Excessive drinking
- Food insecurity
- Housing insecurity

Sub-county levels

Vital Statistics and SPARCS data:
- Sub-county populations: by race/ethnicity, age group, Medicaid status, education (where data available)
- Sub-county geography: ZIP code

Expanded BRFSS 2013-2014 data
- Sub-county geography: Minor civil division (where data available)
# Approach

<table>
<thead>
<tr>
<th>Project Phase</th>
<th>Focus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analysis Phase</td>
<td>Developing methods &amp; standards to calculate sub-county estimates &amp; document stability of health indicator estimates</td>
</tr>
<tr>
<td>Design Phase</td>
<td>Establish consistent format for sharing data on health indicators by county, graphics and tabular information</td>
</tr>
<tr>
<td>Evaluation Phase</td>
<td>Solicit feedback from end users on reports to inform improvements &amp; track use of reports</td>
</tr>
</tbody>
</table>
Sample Report Format: Count Data

Percentage of live births with low birthweight (<2,500 grams) by maternal characteristics
2007-2013
County: Broome

Bar graphs covering race/ethnicity subgroups; county, NYS, NYS (exl. NYC)
Sample Report Format: Count Data

<table>
<thead>
<tr>
<th>County Sub-population</th>
<th>Low birthweight births</th>
<th>Live births</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Age Group</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;19</td>
<td>63</td>
<td>699</td>
<td>9.9</td>
</tr>
<tr>
<td>20 to 34</td>
<td>911</td>
<td>12,038</td>
<td>7.6</td>
</tr>
<tr>
<td>35+</td>
<td>187</td>
<td>1,802</td>
<td>10.4</td>
</tr>
<tr>
<td><strong>Education</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>52</td>
<td>583</td>
<td>8.9</td>
</tr>
<tr>
<td>13+</td>
<td>97</td>
<td>1,211</td>
<td>8.0</td>
</tr>
<tr>
<td>&lt;12</td>
<td>43</td>
<td>313</td>
<td>13.7</td>
</tr>
<tr>
<td><strong>Medicaid Status</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>880</td>
<td>11,056</td>
<td>8.0</td>
</tr>
<tr>
<td>Yes</td>
<td>271</td>
<td>3,319</td>
<td>8.2</td>
</tr>
<tr>
<td><strong>Race/Ethnicity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black Non-Hispanic</td>
<td>105</td>
<td>806</td>
<td>13.0</td>
</tr>
<tr>
<td>Hispanic</td>
<td>58</td>
<td>712</td>
<td>8.1</td>
</tr>
<tr>
<td>Other Non-Hispanic</td>
<td>86</td>
<td>979</td>
<td>8.8</td>
</tr>
<tr>
<td>White Non-Hispanic</td>
<td>912</td>
<td>11,983</td>
<td>7.6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broome County</td>
<td>1,161</td>
<td>14,480</td>
<td>8.0</td>
</tr>
<tr>
<td>New York State (excluding NYC)</td>
<td>66,331</td>
<td>864,456</td>
<td>7.7</td>
</tr>
<tr>
<td>New York State</td>
<td>138,178</td>
<td>1,704,380</td>
<td>8.1</td>
</tr>
</tbody>
</table>

Data Source: New York State Vital Records
Sample Report Format: Count Data

Map and corresponding data table for geographic sub-units (zip codes); shaded based on quartiles Q1-2; Q3; and Q4
Sub-county estimates 2013-14 NY e-BRFSS

Pilot calculating key indicators for 18 cities and towns in 17 counties;
Towns and cities represented at least 30% of county population;
Sample Report Format: Survey Data

Indicator, years, county

Estimates of prevalence and 95% CIs for town/city, county, NYS, and NYS (excl. NYC)
Sample Report Format: Count Data

<table>
<thead>
<tr>
<th>County Sub-population</th>
<th>Percentage</th>
<th>95% Confidence Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binghamton City</td>
<td>25.6</td>
<td>(17.3 - 33.9)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broome County</td>
<td>30.4</td>
<td>(25.3 - 35.5)</td>
</tr>
<tr>
<td>New York State (excluding NYC)</td>
<td>27.0</td>
<td>(25.8 - 28.2)</td>
</tr>
<tr>
<td>New York State</td>
<td>24.9</td>
<td>(22.9 - 26.8)</td>
</tr>
</tbody>
</table>

Description: Percentage of adults who are obese (i.e., body mass index greater than or equal to 30.0) based on self reported weight and height.
Data Source: New York State 2013-2014 Expanded Behavioral Risk Factor Surveillance Survey (eBRFSS)
2013-14 eBRFSS Data by Demographic Subgroups for Counties and DSRIP Regions


Point and click map with pdf reports including figures and data tables for 50 separate health indicators measured through eBRFSS 2013-14
Next Step – Focus Groups

Recruit 12 volunteers
  6 representing local health departments,
  3 hospitals, and 3 PHIPs

Finalize Focus Group Script

Schedule & Implement Focus Group by Web-ex
Questions?

Thank You!

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