Epidemiology Services: Meeting your Data Needs for Localized Studies

Tuesday, July 8, 2014

Keely Clary, MPH on behalf of the Office of Epidemiology
Epidemiology Role: Gathering Data

- Grant proposals, projects, programs, etc. often focus on a smaller area within Maricopa County
- Understanding the Demographics & Statistics
  - Data will vary by study area of focus
- Maximize your program/project impact
  - Recognize demographic differences
- Pin point area of interest
  - EPI can provide data that is specific to identified area when possible
SCNTHIA: Background

- South Central Neighborhoods Transit Health Impact Assessment (SCNTHIA)
  - Valley Metro conducting a planning study
    - transit improvements linking South Central Phoenix neighborhoods with downtown Phoenix
  - Collaborative analysis of potential public health impacts
    - Maricopa County Department of Public Health (MCDPH), Arizona Department of Health Services (ADHS), and Health in Policy & Practice (HIP²)
Understanding the population

- How could extending the light rail potentially affect their health & quality of life

- Data focus:
  - Demographics
  - Chronic Disease
  - Access to care
  - Access to healthy food
  - Access to Parks
## SCNTTHIA: Demographics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>2012 SCNTTHIA Study Area</th>
<th>2012 Maricopa County</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population</td>
<td>58,782</td>
<td>3,892,551</td>
</tr>
<tr>
<td>Households</td>
<td>18,183</td>
<td>1,439,672</td>
</tr>
<tr>
<td>Average Household Size</td>
<td>2.95</td>
<td>2.67</td>
</tr>
<tr>
<td>Owner Occupied Housing Units</td>
<td>37.5%</td>
<td>62.0%</td>
</tr>
<tr>
<td>Renter Occupied Housing Units</td>
<td>62.5%</td>
<td>38.0%</td>
</tr>
<tr>
<td>Median Age* (years)</td>
<td>28.7</td>
<td>34.6</td>
</tr>
</tbody>
</table>

Source: ESRI Business Analyst Online, Current Year Estimates, 2012
*2012 Maricopa County Median Age from the 2010 Census
2012 Population by Race/Ethnicity

Source: ESRI Business Analyst Online, Current Year Estimates, 2012
SCNTHIA Study Area

Education Level

Source: U.S. Census Bureau’s American Fact Finder, ESRI Business Analyst Online, Current Year Estimates, 2012
2012 Household Income

Source: ESRI Business Analyst Online, Current Year Estimates, 2012
Source: ESRI Business Analyst Online, Current Year Estimates, 2012
SCNTHIA: Chronic Disease Deaths

Leading Causes of Death: Three Year Age-Adjusted Death Rates (2009-2011)

<table>
<thead>
<tr>
<th>Cause</th>
<th>Rate per 100,000 Population</th>
<th>SCNTHIA Study Area</th>
<th>Maricopa County</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heart Disease</td>
<td>221</td>
<td>188</td>
<td>91</td>
</tr>
<tr>
<td>Cancer</td>
<td>188</td>
<td>221</td>
<td>91</td>
</tr>
<tr>
<td>Unintentional Injuries</td>
<td>91</td>
<td>49</td>
<td>46</td>
</tr>
<tr>
<td>Diabetes</td>
<td>49</td>
<td>46</td>
<td>46</td>
</tr>
<tr>
<td>Chronic Lower Respiratory</td>
<td>46</td>
<td>46</td>
<td>46</td>
</tr>
</tbody>
</table>

*Numbers shown are total deaths for SCNTHIA Study Area only

Source: ADHS, Death Certificates, Maricopa County Residents, 2009-2011
SCNTHIA: Access to Care

Insurance Status: Hospital Encounters

- AHCCCS (Medicaid): 59%
- Medicare: 12%
- Self-Pay: 11%
- Private: 15%
- Other: 2%

Source: ADHS, Hospital Discharge Data, Maricopa County Residents and Occurrence, 2009-2011
SCNTHIA: Access to Care

Insurance Status: Payment of Birth Delivery

- AHCCCS (Medicaid): 82.9%
- Private: 13.5%
- Self: 2.8%
- Indian Health Service: 0.4%
- Unknown: 0.4%

Source: ADHS, Birth Certificates, Maricopa County Residents, 2009-2011
SCNTHIA: Access to Care

Medical Facilities & Providers

Source: National Providers Index, City of Phoenix, Valley Metro
SCNTTHIA: Access to Healthy Food

Source: Environmental Services, WIC, City of Phoenix, Valley Metro

Public Food Establishments

*Map includes all Grocery Stores within a 0.5 mile radius of the study area.
SCNTHIA: Access to Parks

Public Parks

Source: Maricopa Association of Governments, City of Phoenix, Valley Metro
Next Steps

- Continually building partnerships with other agencies and departments
  - Gaining access to additional data sources
    - Partnership with Environmental services - food map
    - Women Infants & Children - registered WIC vendors

- Have a project or study in mind?
  - Utilize our services - make a data request
    - We are here to assist you with your data needs