The Quantitative Data Story

Presented to: The Atlanta Regional Collaborative for Health Improvement
The Davidson Framework: A Way to Think about Improving the Safety Net

- Individual Factors
- Community Factors
- Access and Outcomes

Individual Factors

• Measures like:
  – Age
  – Race
  – Federal Poverty Level (FPL)
  – Uninsured
  – Foreign born
  – Income
  – Graduation rates
Percent Low Birth Weight 2008-2010

Map Created: Aug 28, 2012
Note: This is a color map.
Data Classification Method: Quantiles.
Percent of Population Age <5, 2010
Percent of Population Age 65+, 2010
Percent of Population White, 2010
Percent of Population Black, 2010
Percent of Population Hispanic, 2010
Rate of Students Passing 3rd Grade Reading CRCT - 2011
Rate of Students Passing 8th Grade Math CRCT - 2011
Percent of Population without a High School Diploma, 2010
Percent of Population Unemployed, 2012
Percent of Population Below 100% Federal Poverty Level, 2010
Percent of Population Below 200% Federal Poverty Level, 2010
## Individual Factors

<table>
<thead>
<tr>
<th></th>
<th>DeKalb</th>
<th>Fulton</th>
<th>Georgia</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Uninsured (nonelderly)</td>
<td>23%</td>
<td>23%</td>
<td>21%</td>
</tr>
<tr>
<td>% &lt;250% FPL, nonelderly, uninsured</td>
<td>37%</td>
<td>39%</td>
<td>33%</td>
</tr>
<tr>
<td>% foreign born</td>
<td>16%</td>
<td>13%</td>
<td>10%</td>
</tr>
<tr>
<td>Per capita income</td>
<td>$28,412</td>
<td>$37,211</td>
<td>$28,134</td>
</tr>
<tr>
<td>Household income</td>
<td>$51,349</td>
<td>$56,709</td>
<td>$49,347</td>
</tr>
<tr>
<td>% population with bachelor's degree</td>
<td>39%</td>
<td>48%</td>
<td>27%</td>
</tr>
</tbody>
</table>
Community-level Factors

• Measures like:
  – AIDS Incidence
  – Medicaid payments
  – Federally Qualified Health Center (FQHC) expenditures
  – Disproportionate Share Hospital (DSH) payments
  – Physicians per population
  – Hospital beds
  – Outpatient visits
## Community-level Factors

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</thead>
<tbody>
<tr>
<td>AIDS incidence per 100,000</td>
<td>598.2</td>
<td>798.7</td>
<td>242.1</td>
</tr>
<tr>
<td>Medicaid payments per enrollee</td>
<td>$5,136</td>
<td>$5,136</td>
<td>$4,986</td>
</tr>
<tr>
<td>FQHC expenditures per 1,000 &lt; 125% FPL</td>
<td>$15,419</td>
<td>$89,329</td>
<td>$19,681</td>
</tr>
<tr>
<td>FQHCs per 1,000(&lt;200% FPL)</td>
<td>0.013</td>
<td>0.012</td>
<td>0.006</td>
</tr>
<tr>
<td>DSH payments</td>
<td>$15,088,700</td>
<td>$159,502,298</td>
<td>$269,036,230</td>
</tr>
<tr>
<td>Physicians per 1,000 population</td>
<td>3.18</td>
<td>3.88</td>
<td>1.81</td>
</tr>
<tr>
<td>Hospital beds per 1,000</td>
<td>2.4</td>
<td>4.7</td>
<td>2.6</td>
</tr>
<tr>
<td>% outpatient Grady visits</td>
<td>35%</td>
<td>54%</td>
<td></td>
</tr>
<tr>
<td>% outpatient teaching hospital visits</td>
<td>27%</td>
<td>35%</td>
<td></td>
</tr>
</tbody>
</table>
Access and Outcomes

• Measures like:
  – Uninsured discharges
  – Medicaid discharges
  – Ambulatory Care Sensitive Conditions (ACSC) discharges
  – Mortality
  – Premature death
ER Visits, 2008-2010

Number of ER Visits by Census Tract, DeKalb County, Fulton County, 2008-2010

Map Created: Aug 21, 2012
Note: This is a color map.
Data Classification Method: Quantiles.
Uninsured ER Visits, 2008-2010

Number of ER Visits, Self-Pay by Census Tract, DeKalb County, Fulton County, 2008-2010

Map Created: Aug 21, 2012
Note: This is a color map.
Data Classification Method: Quantiles.

Georgia Department of Public Health
OASIS Mapping Tool http://oasis.state.ga.us
Office of Health Indicators for Planning (CHIP)
Medicaid ER Visits, 2008-2010

Number of ER Visits, Medicaid by Census Tract, DeKalb County, Fulton County, 2008-2010

Map Created: Aug 21, 2012
Note: This is a color map.
Data Classification Method: Quantiles.

Georgia Department of Public Health
OASIS Mapping Tool http://oasis.state.ga.us
Office of Health Indicators for Planning (OHIP)
Uninsured Discharges, 2008-2010

Number of Discharges, Self-Pay by Census Tract, DeKalb County, Fulton County, 2008-2010

Map Created: Aug 21, 2012
Note: This is a color map.
Data Classification Method: Quantiles.
Medicaid Discharges, 2008-2010

Number of Discharges, Medicaid by Census Tract, DeKalb County, Fulton County, 2008-2010

Map Created: Aug 21, 2012
Note: This is a color map.
Data Classification Method: Quantiles.

Georgia Department of Public Health
OASIS Mapping Tool http://oasis.state.ga.us
Office of Health Indicators for Planning (OHIP)
Percent of ACSC Discharges, 2008-2010

Percent of Discharges by ACS Condition by Census Tract, DeKalb County, Fulton County, 2008-2010

Percentage
- 5.5 - 13.5
- 13.6 - 18.1
- 16.2 - 18.9
- 19.0 - 21.7
- 21.8 - 27.7

Map Created: Aug 9, 2012
Note: This is a color map.
Data Classification Method: Quantiles.

Georgia Department of Public Health
OASIS Mapping Tool http://oasis.state.ga.us
Office of Health Indicators for Planning (CHIP)
Percent of ACSC Discharges – Acute, 2008-2010

Percent of Discharges by ACS Condition, Any Acute Condition by Census Tract, DeKalb County, Fulton County, 2008-2010

Percentage
- 2.7 - 6.5
- 6.6 - 7.4
- 7.5 - 8.1
- 8.2 - 9.1
- 9.2 - 13.5
- Not Reportable

Map Created: Aug 9, 2012
Note: This is a color map.
Data Classification Method: Quantiles.
Percent of ACSC Discharges – Avoidable, 2008-2010

Percent of Discharges by ACS Condition, Any Avoidable Illness by Census Tract, DeKalb County, Fulton County, 2008-2010

Map Created: Aug 9, 2012
Note: This is a color map.
Data Classification Method: Quantiles.
Percent of ACSC Discharges – Chronic, 2008-2010

Percent of Discharges by ACS Condition, Any Chronic Condition by Census Tract, DeKalb County, Fulton County, 2008-2010

Map Created: Aug 5, 2012.
Note: This is a color map.
Data Classification Method: Quantiles.

Georgia Department of Public Health
OASIS Mapping Tool http://oasis.state.ga.us
Office of Health Indicators for Planning (OHIP)
Percent ACSC Uninsured Discharges, 2009-2010

Map Created: Aug 21, 2012
Note: This is a color map.
Data Classification Method: Quantiles.
Percent ACSC Medicaid Discharges, 2008-2010

Percent of Discharges by ACS Condition, Medicaid by Census Tract, DeKalb County, Fulton County, 2008-2010

Map Created: Aug 21, 2012
Note: This is a color map.
Data Classification Method: Quantiles.

Georgia Department of Public Health
OASIS Mapping Tool http://oasis.state.ga.us
Office of Health Indicators for Planning (OHIP)
Age Adjusted Mortality Rank

- **DeKalb**
  - Malignant neoplasms
  - Diseases of heart
  - Cerebrovascular disease
  - Unintentional injuries
  - Chronic lower respiratory disease
  - Nephritis
  - Alzheimer’s disease
  - Septicemia
  - Diabetes
  - Influenza

- **Fulton**
  - Diseases of heart
  - Malignant neoplasms
  - Cerebrovascular disease
  - Unintentional injuries
  - Chronic lower respiratory disease
  - Nephritis
  - Alzheimer’s disease
  - Septicemia
  - Influenza
  - Diabetes

Source: http://oasis.state.ga.us
Leading Causes of Premature Death

• DeKalb
  – Malignant neoplasms
  – Diseases of heart
  – Unintentional injuries
  – Assault
  – Conditions in the perinatal period
  – HIV
  – Suicide
  – Cerebrovascular disease
  – Congenital malformations
  – Diabetes

• Fulton
  – Malignant neoplasms
  – Diseases of heart
  – Unintentional injuries
  – HIV
  – Assault
  – Conditions in the perinatal period
  – Suicide
  – Cerebrovascular disease
  – Nephritis
  – Septicemia

Source: http://oasis.state.ga.us

Percent of Deaths by Cause, All Cancers by Census Tract, DeKalb County, Fulton County, 2007-2008, 2010

Map Created: Aug 9, 2012
Note: This is a color map.
Data Classification Method: Quantiles.

Georgia Department of Public Health
OASIS Mapping Tool http://oasis.state.ga.us
Office of Health Indicators for Planning (OHIP)
Percent of Deaths Caused by Cardiovascular Disease, 2007-2008, 2010

Percent of Deaths by Cause, All Major Cardiovascular Diseases by Census Tract, DeKalb County, Fulton County, 2007-2008, 2010

Percentage
- 15.6 - 24.8
- 25.0 - 28.0
- 28.2 - 31.0
- 31.1 - 34.7
- 34.8 - 100.0
- Not Reportable

Map Created: Aug 9, 2012
Note: This is a color map.
Data Classification Method: Quantiles.

Percent of Deaths by Cause, Stroke by Census Tract, DeKalb County, Fulton County, 2007-2008, 2010

Note: This is a color map.
Data Classification Method: Quantiles.
Percent of Deaths Caused by External Causes, 2007-2008, 2010

Percent of Deaths by Cause, All External Causes by Census Tract, DeKalb County, Fulton County, 2007-2008, 2010

Map Created: Aug 9, 2012
Note: This is a color map. Data Classification Method: Quantiles.
Percent of Deaths Caused by Respiratory Diseases, 2007-2008, 2010

Percent of Deaths by Cause, All Respiratory Diseases by Census Tract, DeKalb County, Fulton County, 2007-2008, 2010

Map Created: Aug 10, 2012
Note: This is a color map.
Data Classification Method: Quantiles
Percent of Deaths Caused by Kidney Disease, 2007-2008, 2010

Percent of Deaths by Cause, Kidney Diseases by Census Tract, DeKalb County, Fulton County, 2007-2008, 2010

Percentage
- 0.0
- 1.8 - 3.1
- 3.2 - 3.9
- 4.0 - 4.7
- 4.8 - 11.5
- Not Reportable

Map Created: Aug 10, 2012
Note: This is a color map.
Data Classification Method: Quantiles.
Percent of Deaths Caused by Diabetes, 2007-2008, 2010

Percent of Deaths by Cause, Diabetes by Census Tract, DeKalb County, Fulton County, 2007-2008, 2010

Map Created: Aug 9, 2012
Note: This is a color map.
Data Classification Method: Quantiles.
# Access and Outcomes

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<th>Fulton</th>
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<tbody>
<tr>
<td>% uninsured</td>
<td>23%</td>
<td>23%</td>
<td>21%</td>
</tr>
<tr>
<td>% ACSC discharges</td>
<td>17.2</td>
<td>18.1</td>
<td>19.1</td>
</tr>
<tr>
<td>% ACSC 0-19</td>
<td>7.8</td>
<td>6.6</td>
<td>8.5</td>
</tr>
<tr>
<td>% ACSC 20-59</td>
<td>15.1</td>
<td>15.9</td>
<td>16.1</td>
</tr>
<tr>
<td>% ACSC 60+</td>
<td>27.2</td>
<td>28.2</td>
<td>28.2</td>
</tr>
<tr>
<td>Uninsured discharges per 100,000</td>
<td>4085.2</td>
<td>3755.2</td>
<td>3858.7</td>
</tr>
<tr>
<td>Medicaid discharges per 100,000</td>
<td>2815.5</td>
<td>2449.2</td>
<td>2449.6</td>
</tr>
</tbody>
</table>
County Health Rankings
County Health Rankings
Health Outcomes