

2010 STATE OF THE REGION REPORT: HEALTH

the Ochs Center for metropolitan studies
August 2010



State of the Region Report



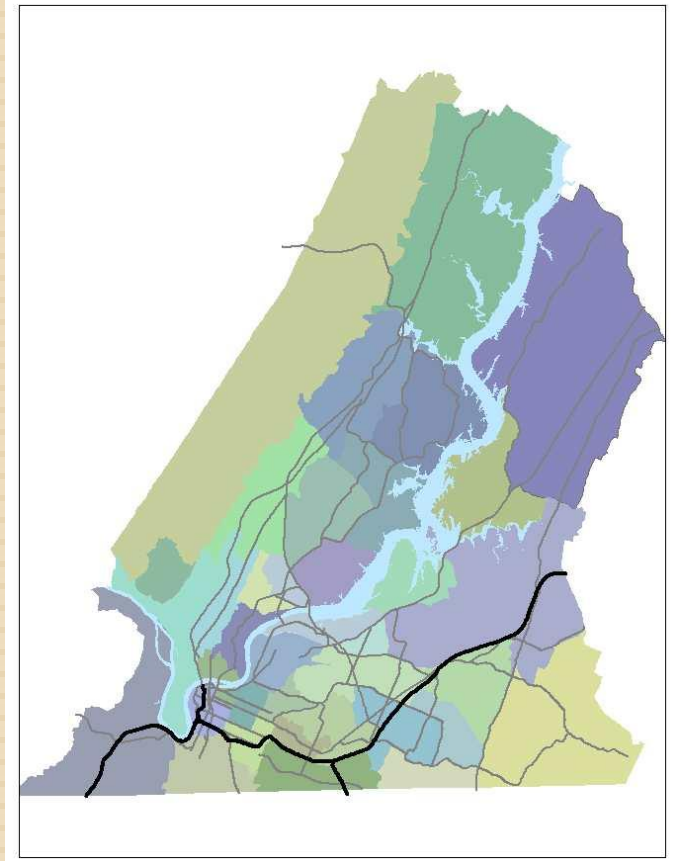
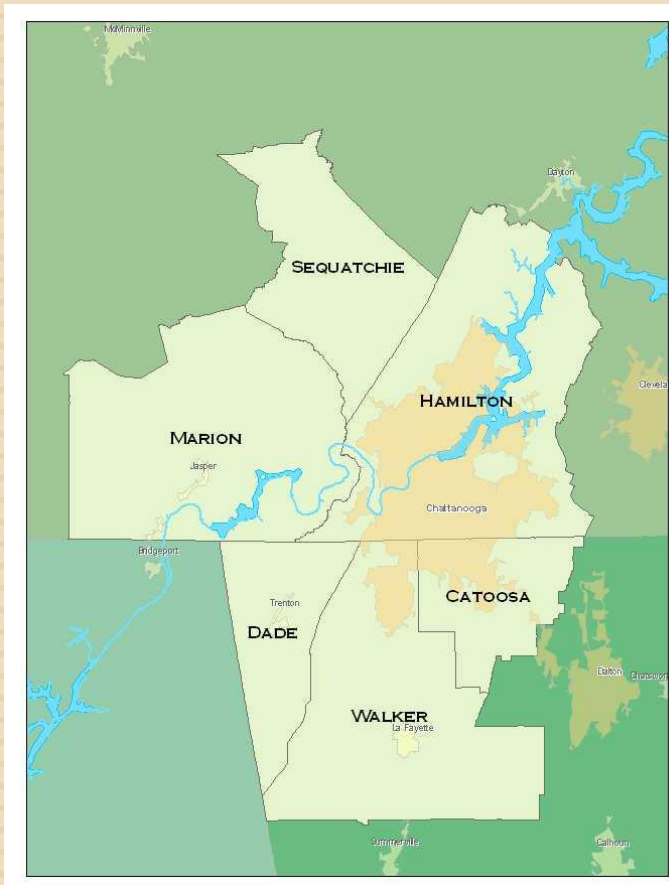
Purpose

To provide reliable information and indicators on a wide range of issues in the Chattanooga Region for elected officials, government agencies, nonprofits, community leaders and residents.

State of the Region Report

- Bi-Annual: 2006, 2008, 2010

- Six Reports:
 - Public Safety
 - Education
 - Health
 - Economy
 - Housing
 - Demographics



State of Chattanooga Region Report

Analysis at MSA, Hamilton County and Neighborhood levels

Ochs Center Hamilton County Survey

	Very Important 2010	Very Important 2008	Very Important 2006
Safety from crime	91%	90%	87%
Quality health care and hospitals	90%	89%	86%
Quality schools	83%	83%	79%
Availability of jobs that pay a livable wage	83%	81%	77%
Clean air	82%	83%	78%
Clean streets and neighborhoods	80%	80%	76%
Affordability of housing	75%	74%	72%
A place where people of all backgrounds are welcome	70%	72%	66%
A strong religious community	63%	63%	58%
A strong sense of community	61%	64%	63%
Parks and other outdoor recreational opportunities	59%	61%	56%
Short commuting time	44%	52%	47%
Arts and cultural opportunities	42%	46%	38%

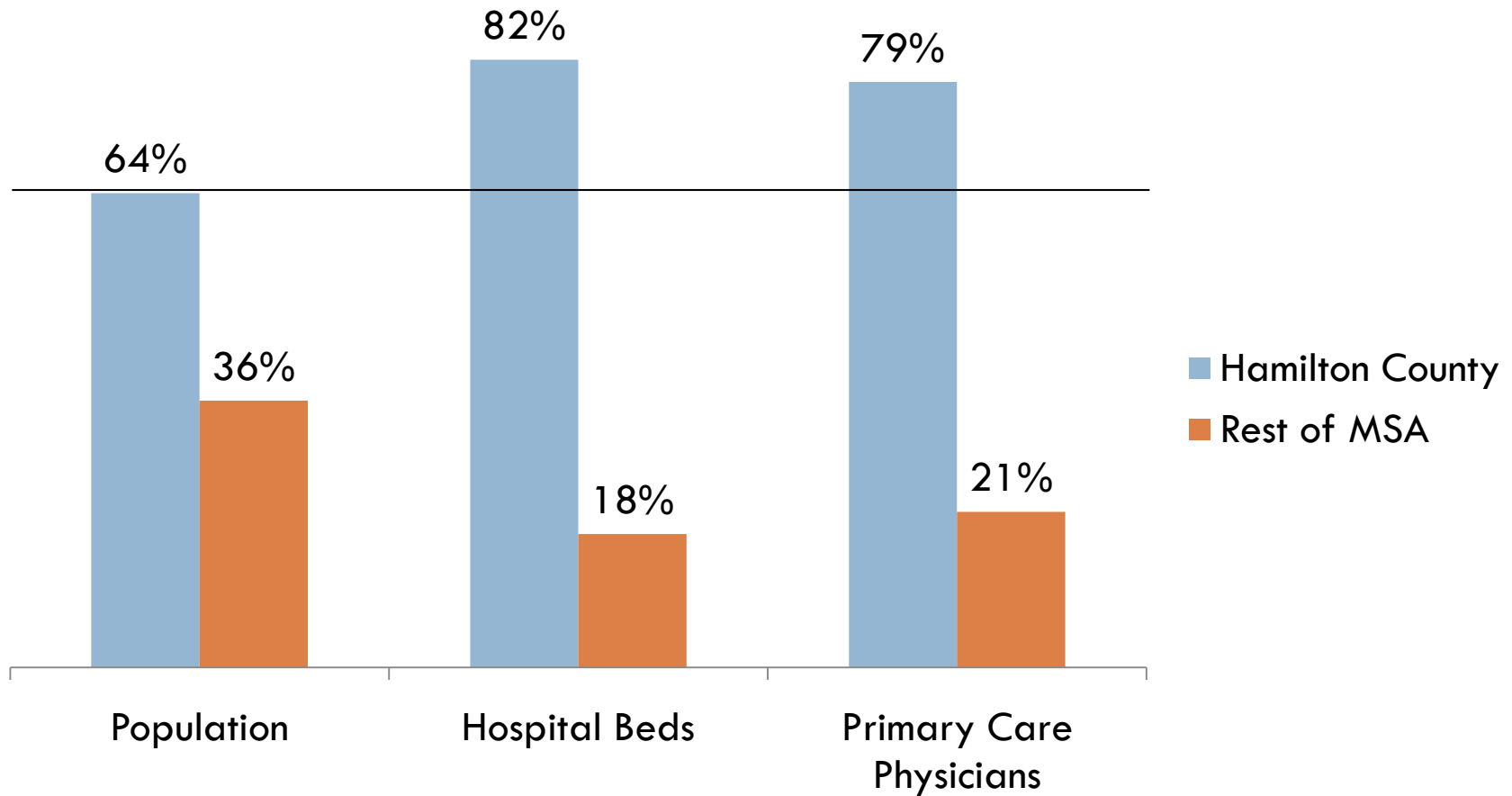
Health Data Sources

- Ochs Center Surveys of Hamilton County Residents
- State Departments of Health
 - Tennessee
 - Georgia
 - Benchmark county states
- Centers of Disease Control
 - For national comparative data
 - Behavioral Factor Surveillance System
 - National Center for Health Statistics
- Health Resources and Services Administration (HRSA)
 - Medicare enrollment
 - Benchmark medical workforce data
- United States Census
 - Population data
 - Benchmark uninsured data
- 2010 County Health Rankings

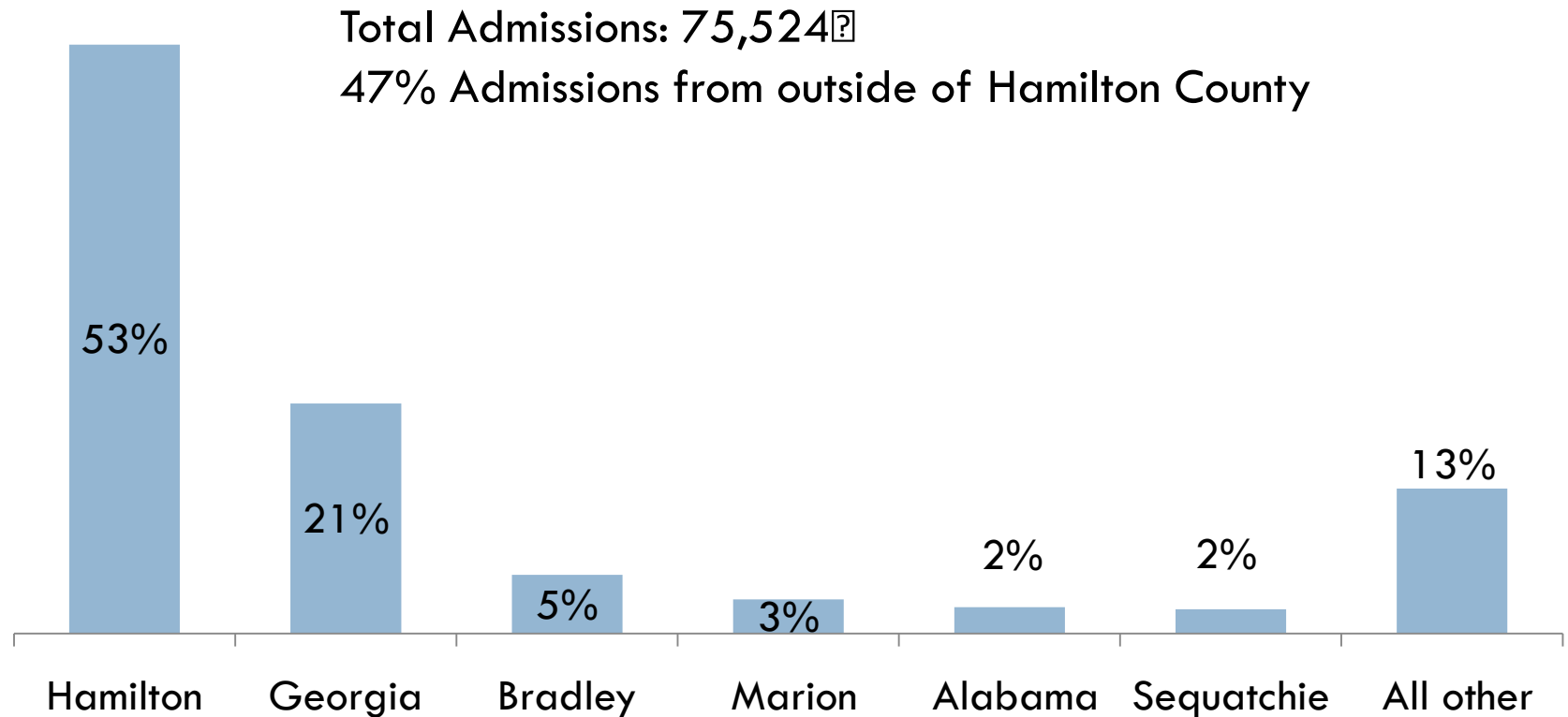
Hamilton County is the Center for Health Care in the Region



Hamilton County's Share of Hospital Beds and Primary Care Physicians



2008 Hamilton County Hospital Admissions by Patient Residence



¹ 12 of 13 hospitals reporting

Cumberland Hall did not report admissions by residence

Source: 2008 TN Joint Annual Report of Hospitals

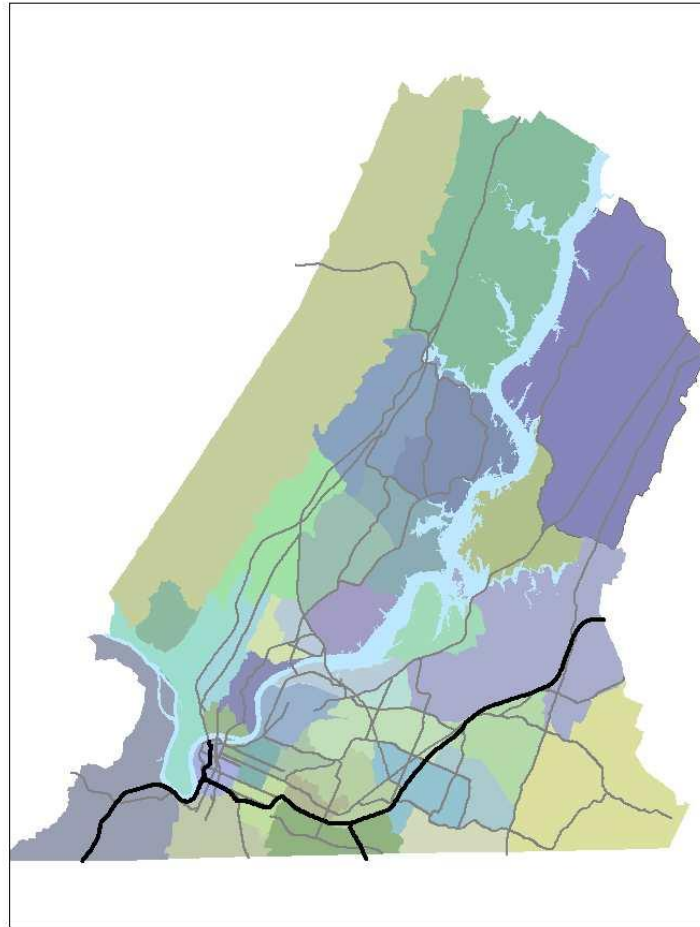
MSA: Health Indicators

	Mortality Rate*	Low Birthweight %	Smoking 11.6%	Obesity %
Hamilton TN	871	11.0%	20%	29%
Marion TN	1081	14.4%	29%	31%
Sequatchie TN	991	9.9%	N/A	31%
Catoosa GA	808	10.7%	30%	30%
Dade GA	912	10.4%	N/A	27%
Walker GA	1061	11.6%	28%	29%

* Mortality rate: 3-year age adjusted

Sources: TN and GA Departments of Health; 2010 Community Health Rankings

Health in Hamilton County



Hamilton County: Self Reported Excellent or Very Good Health Higher than the Nation

Yet, local health indicators show poorer health

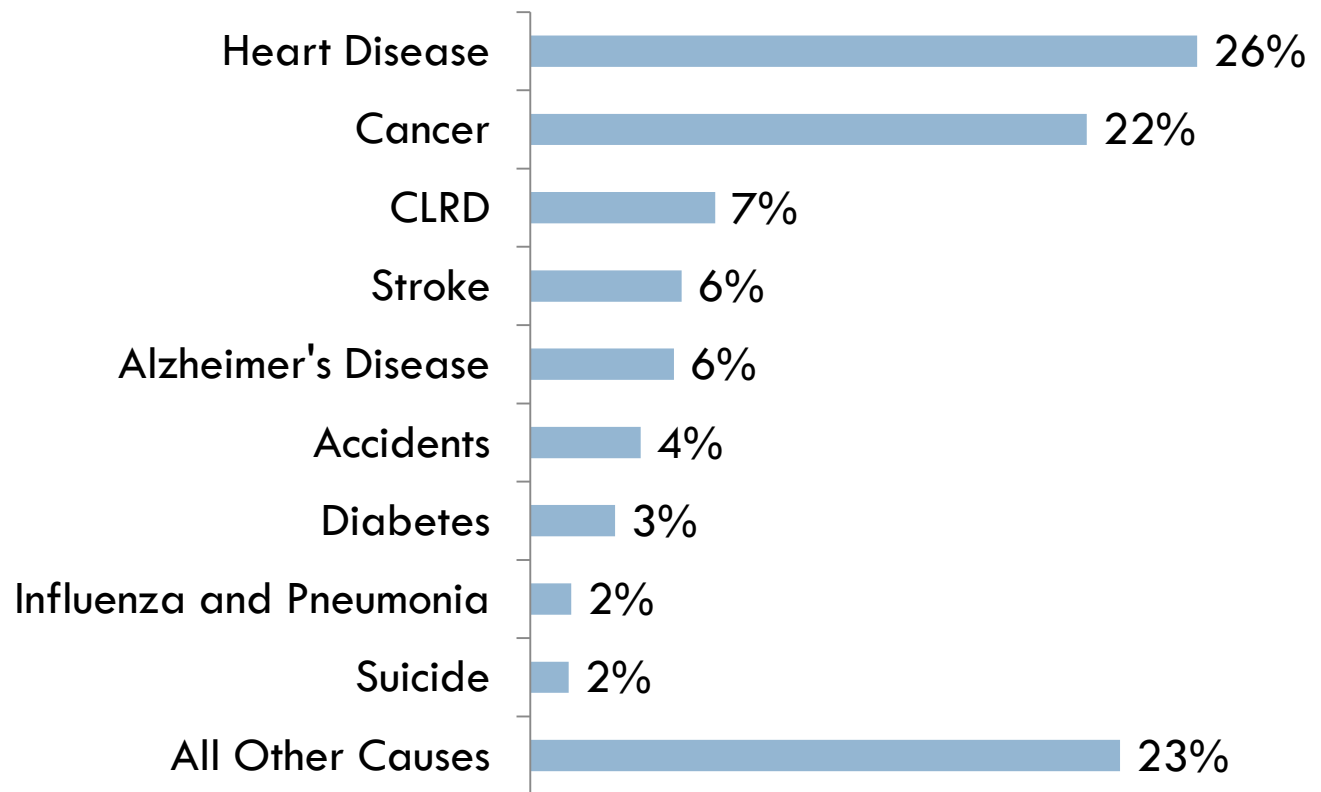
	Hamilton County	United States
Excellent or Very Good Health	62%	56%
Mortality Rate (age-adjusted)	848.4	803.6
Infant Mortality Rate	10.2	6.9
Smoking	25%	18%
STI Rate (chlamydia and gonorrhea)	790.2	489.1

Sources: Ochs Center Survey, Tennessee Department of Health, CDC/NCHS

Hamilton County: Leading Causes of Death in 2008

Heart disease and cancer responsible for almost half of all deaths

3,239 Total Deaths



Hamilton County: Age-adjusted Mortality Rates Compared to U.S.

	Hamilton County 2006-08	United States 2007	% Difference
Heart Disease	213.6	204.3	+ 4.6%
Cancer	188.3	186.6	+ 0.9%
Stroke	53.0	45.1	+ 17.5%
CLRD	53.2	42.4	+ 25.5%
Alzheimer's Disease	48.0	24.7	+ 94.3%
Accidents	39.5	41.0	- 3.7%
Diabetes	25.9	23.7	+ 9.3%
Pneumonia and Influenza	15.3	17.5	- 12.6%
Suicide	12.7	11.5	+ 10.4%

Sources: TN Department of Health, CDC/NCHS

Alzheimer's Disease Mortality

Tennessee

2 in US (2006)

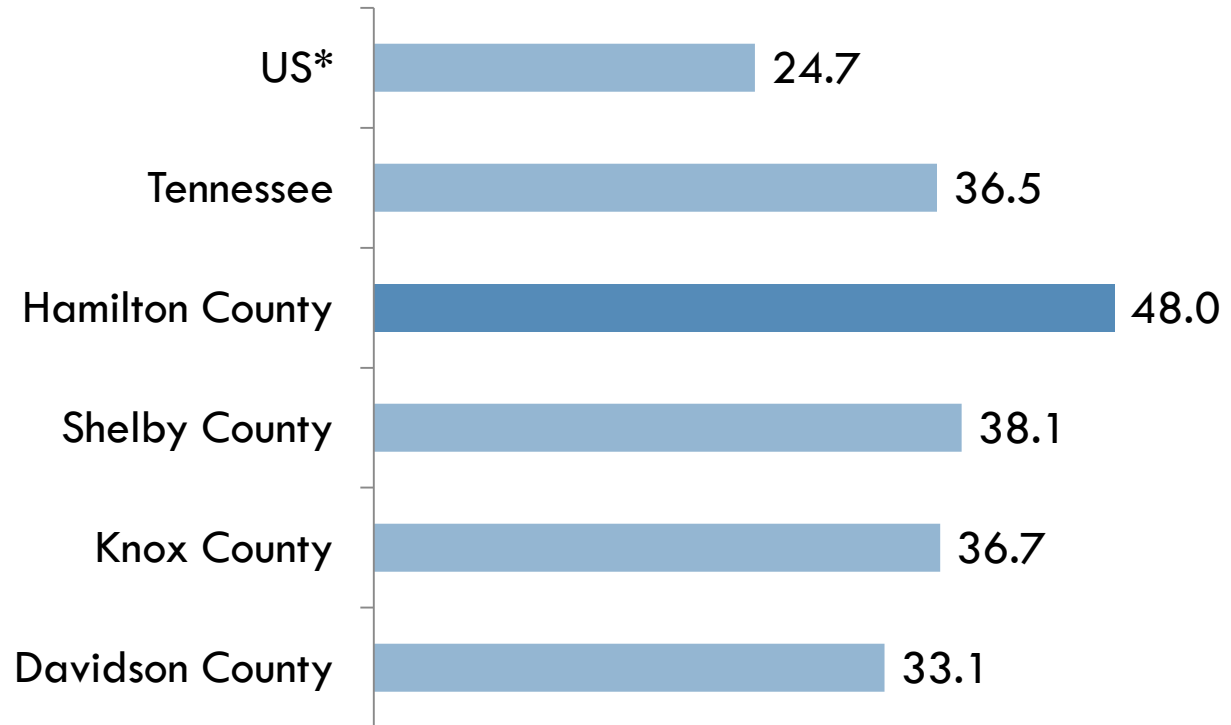
Hamilton County:

59% > Tennessee

97% > US

Highest mortality
among 4 largest
counties in state

2006-2008 Age-adjusted Death Rates: Alzheimer's Disease



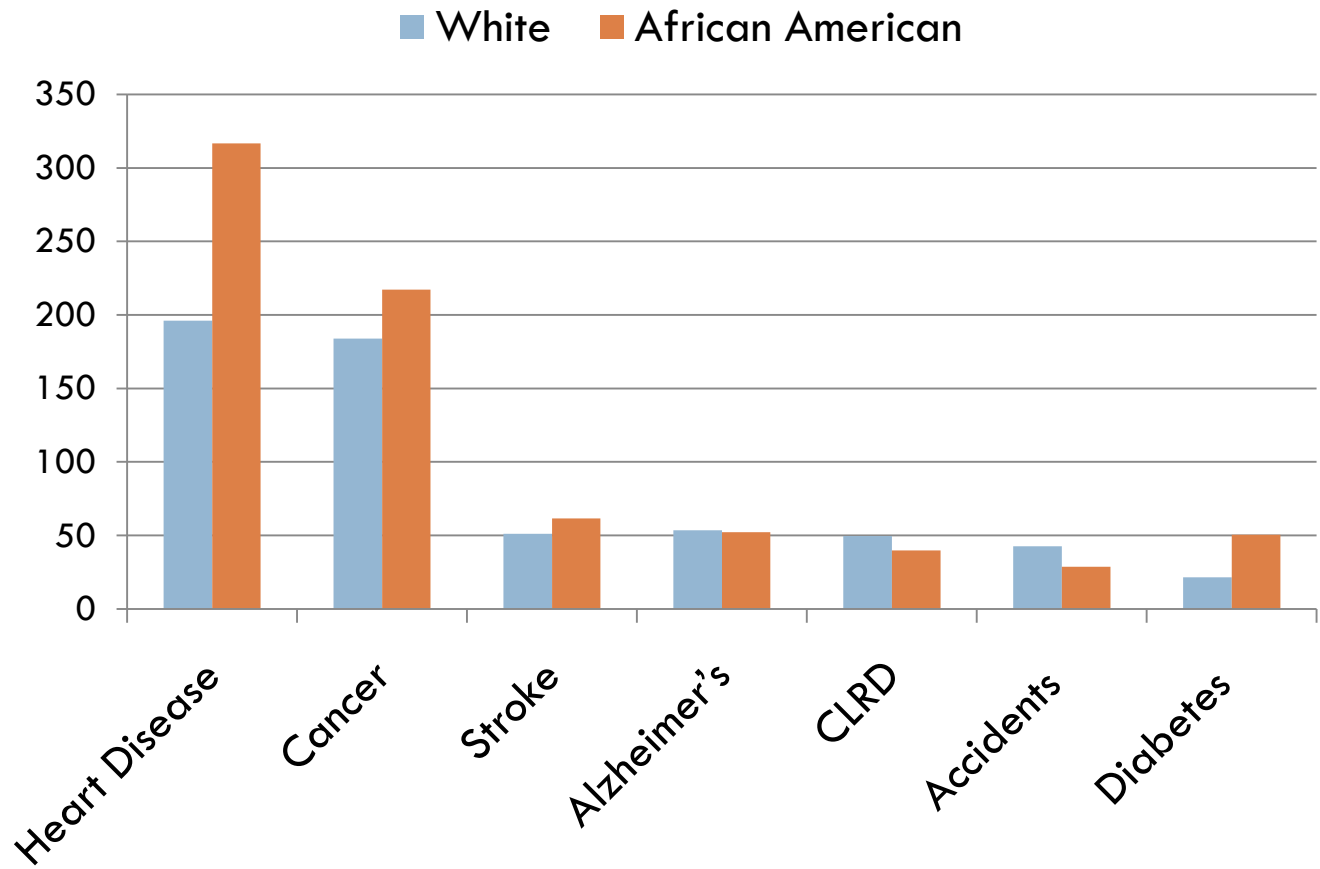
*US 2007 only

Sources: TN Department of Health; CDC/NCHS

Hamilton County Racial Disparities: Causes of Death

(2006-2008 age-adjusted deaths per 100,000)

% Difference (AA to White)	
Heart	+ 61%
Cancer	+18%
Stroke	+ 20%
Alzheimer's	0%
CLRD	- 20%
Accidents	- 32%
Diabetes	+ 134%



Hamilton County Racial Disparities: Infant Mortality Rates 2001-2008

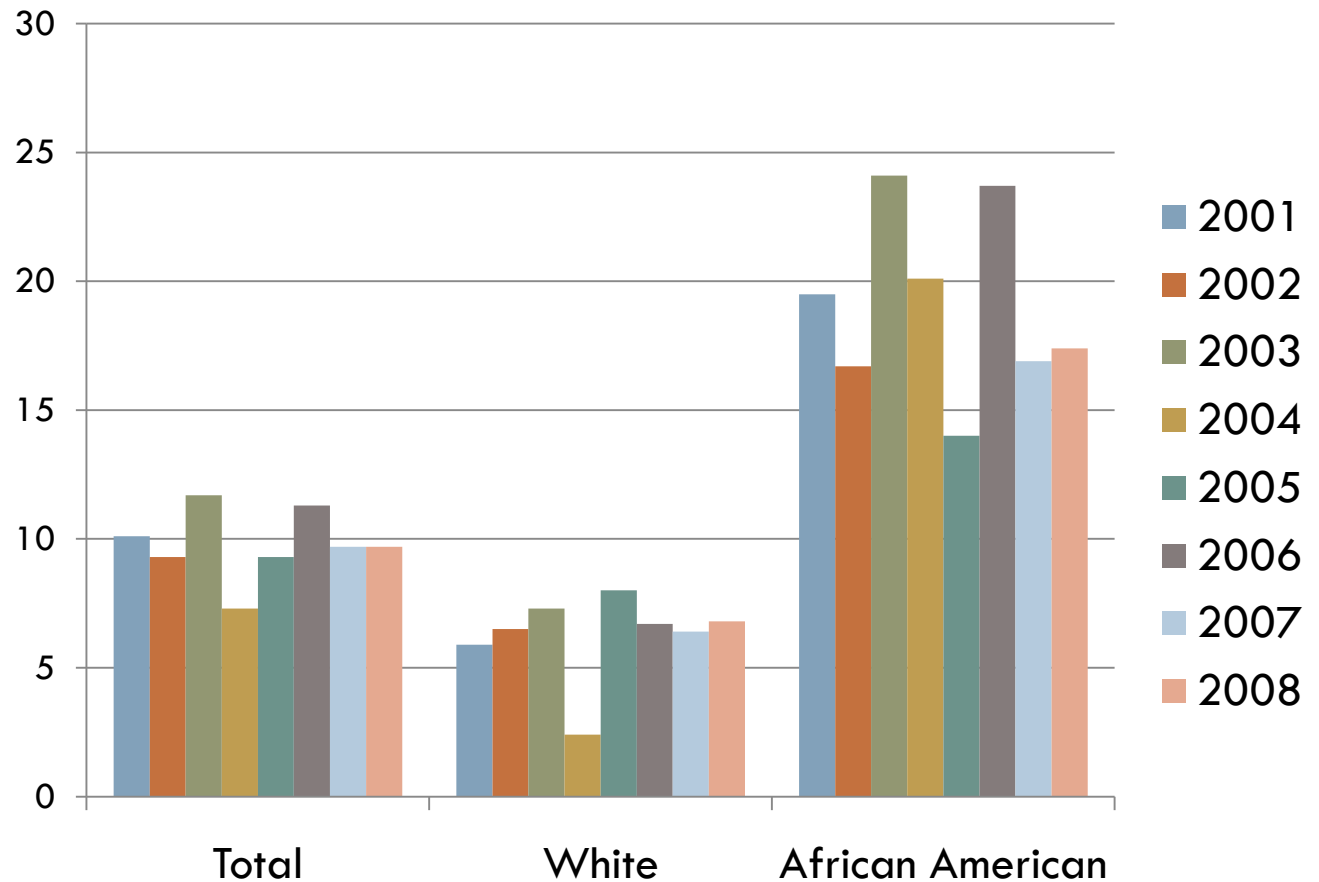
2008 Infant Mortality Rates

County: 9.7

White: 6.8

AA: 17.4

Infant Mortality Rate:
Number infant deaths
(under 1 yr of age) per
1,000 live births

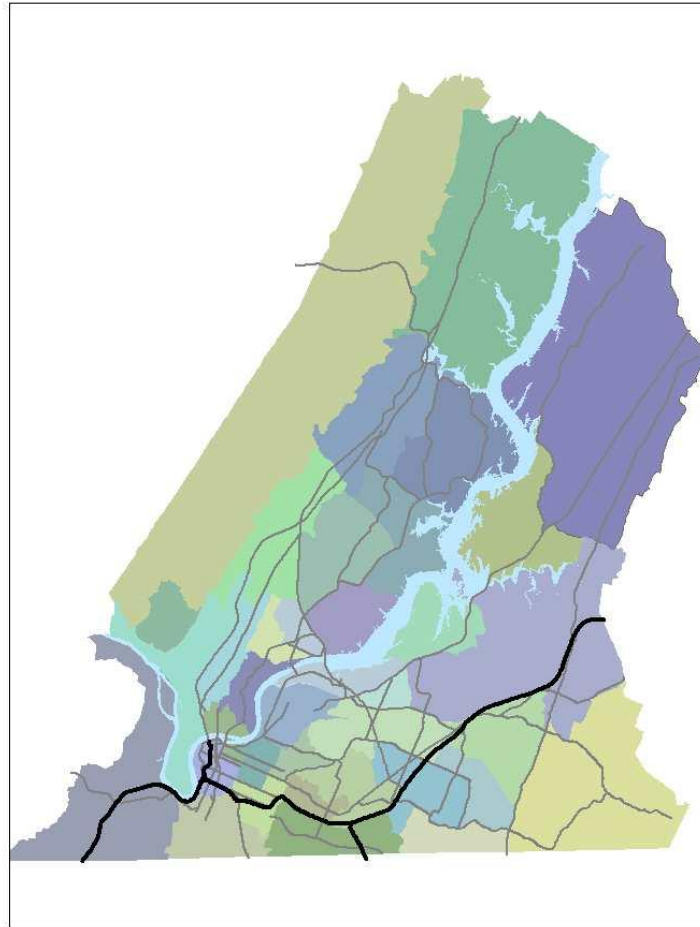


Other Racial Disparities

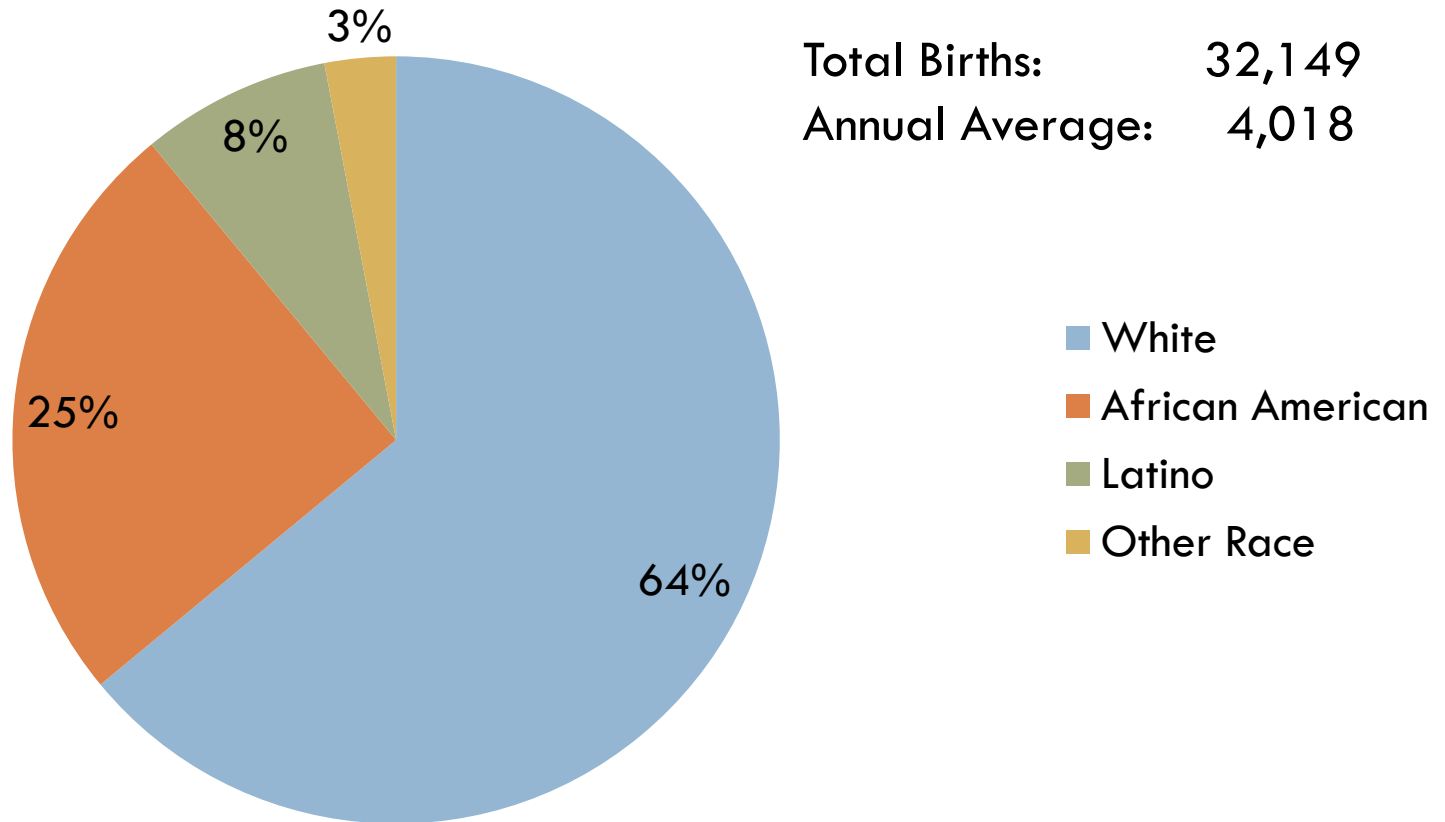
Hamilton County Adults	Total	White	African American
Fair or Poor Health	15%	12%	26%
Overweight or Obese (BMI 25 +)	64%	61%	76%
Uninsured	16%	13%	25%

Source: 2010 Ochs Center survey of Hamilton County residents

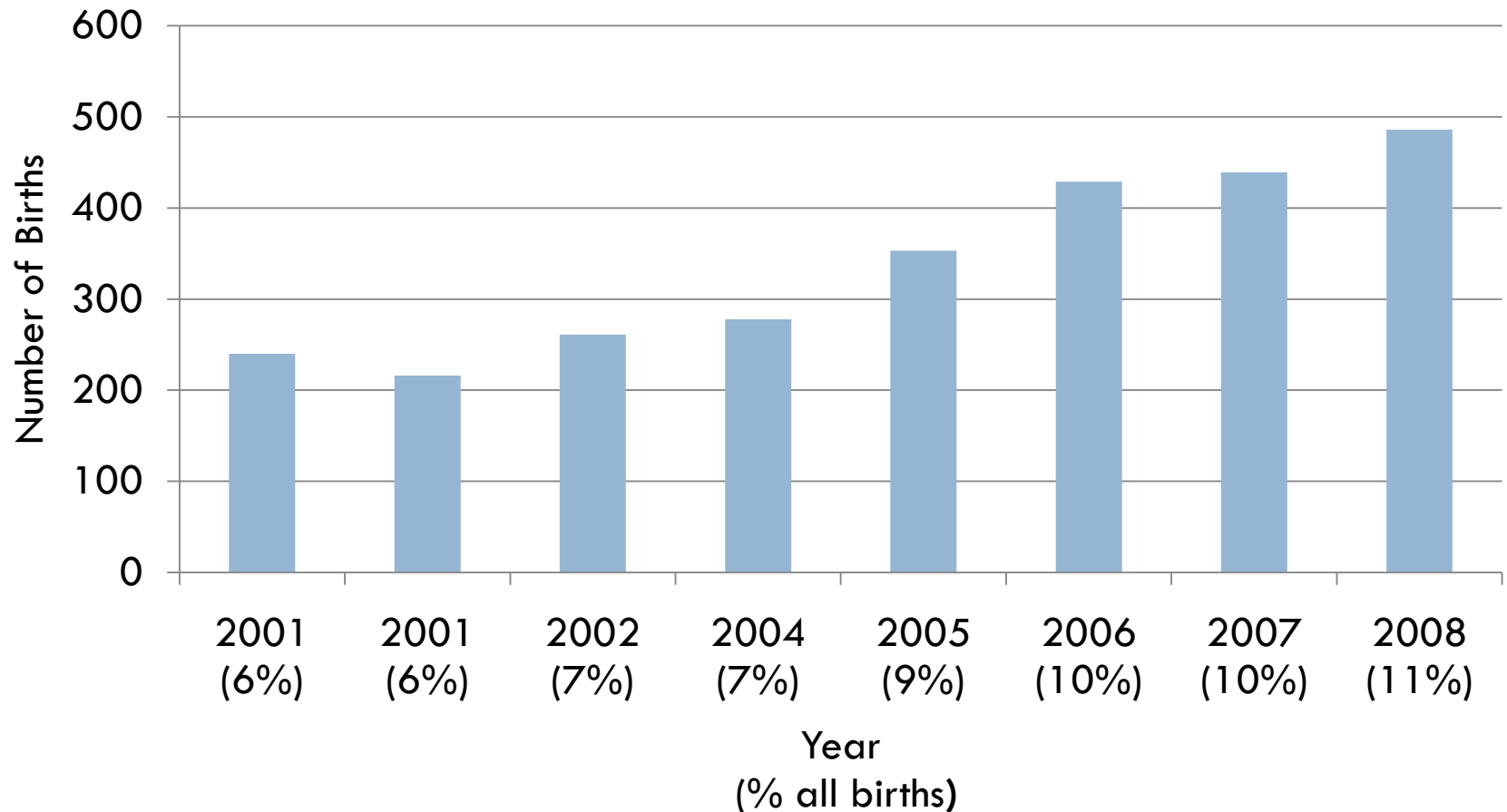
Hamilton County Birth Trends



Hamilton County: 2001-2008 Births by Race/Ethnicity



Hamilton County: Growing Number of Latino Births 2001-2008



Hamilton County: 2008 Infant and Maternal Health Summary by Race/Ethnicity

	All Births	White	African American	Latino
BIRTH OUTCOMES				
Preterm	13.9%	11.9%	21.0%	10.3%
Low Birthweight	10.3%	7.1%	19.7%	7.0%
MATERNAL FACTORS				
Delayed/No PNC	36.6%	29.6%	42.1%	62.6%
Unmarried	45.4%	29.3%	81.7%	55.1%
Teen (10-19)	12.5%	8.6%	23.0%	11.5%
Non HS Grad	24.7%	13.2%	29.9%	77.6%

Source: TN Department of Health

Hamilton County: Low Birthweight by Race/Ethnicity 2001-2008

2008 Hamilton County:

All Births 10.3%

White 7.1%

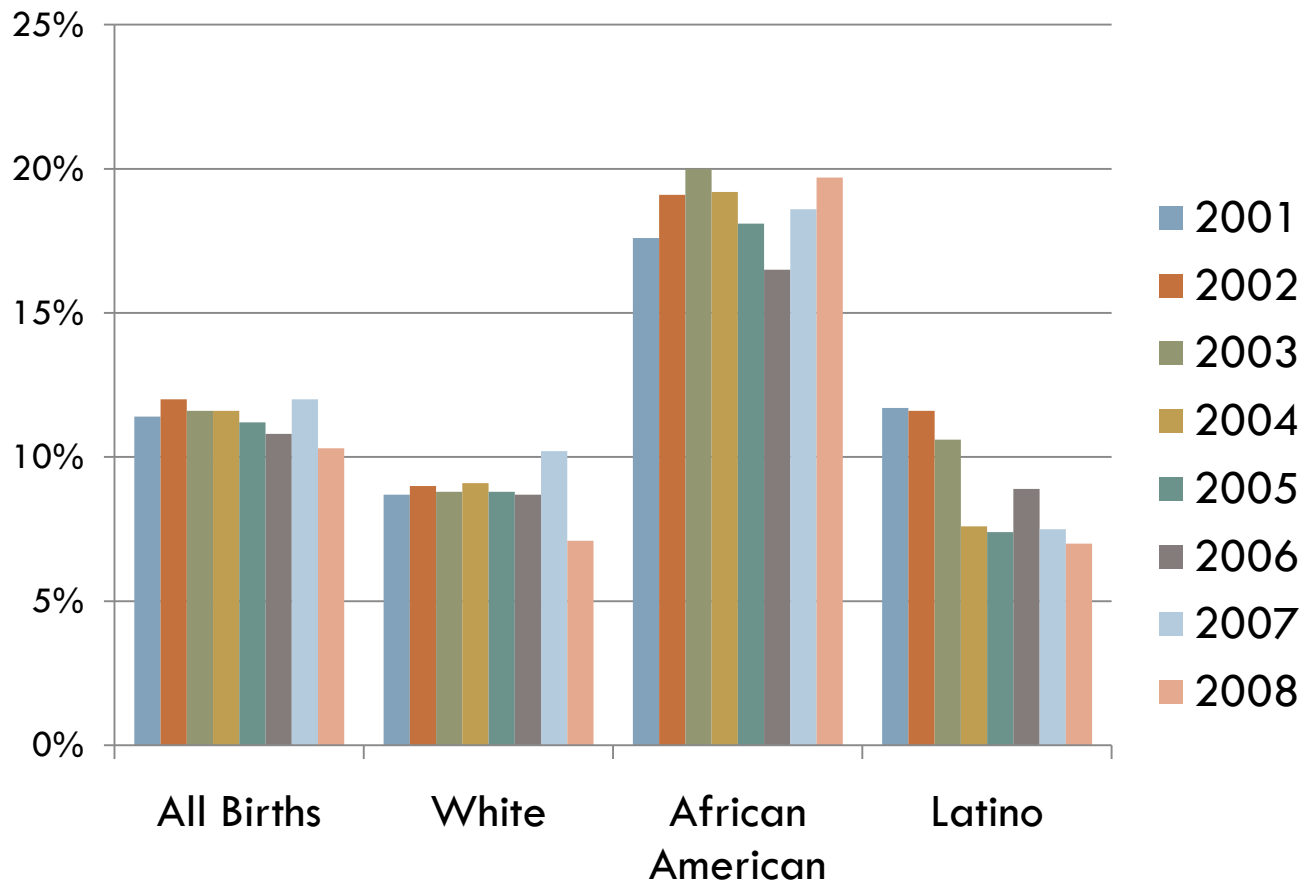
AA 19.3%

Latino 7.0%

Comparison:

TN 9.2% (2008)

US 8.3% (2006)



Hamilton County: Preterm Births by Race/Ethnicity 2001-2008

2008 Hamilton County:

All Births 13.9%

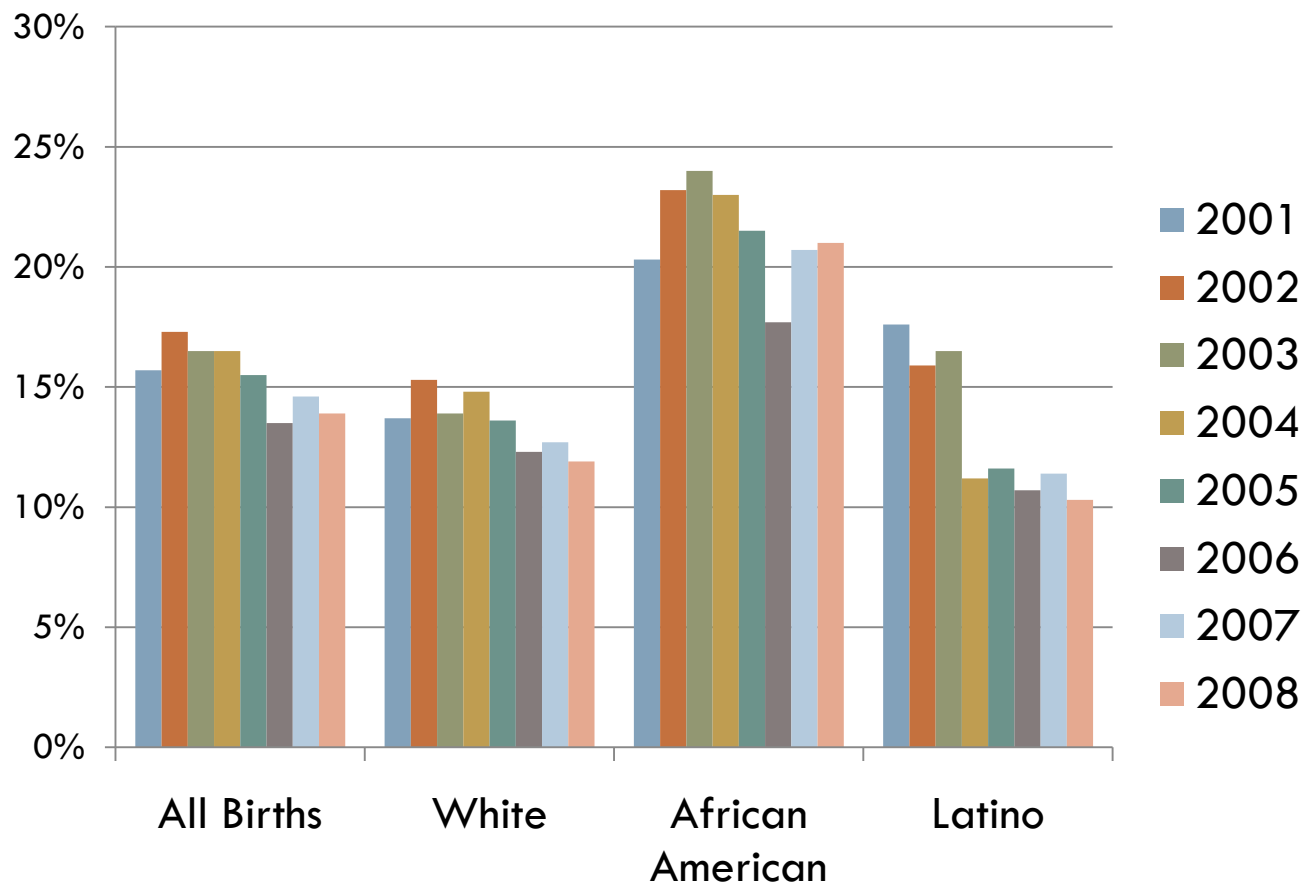
White 11.9%

AA 21.0%

Latino 10.3%

Comparison:

US 13.0% (2006)



Hamilton County: Delayed or No Prenatal Care 2004-2008

2008 Hamilton County:

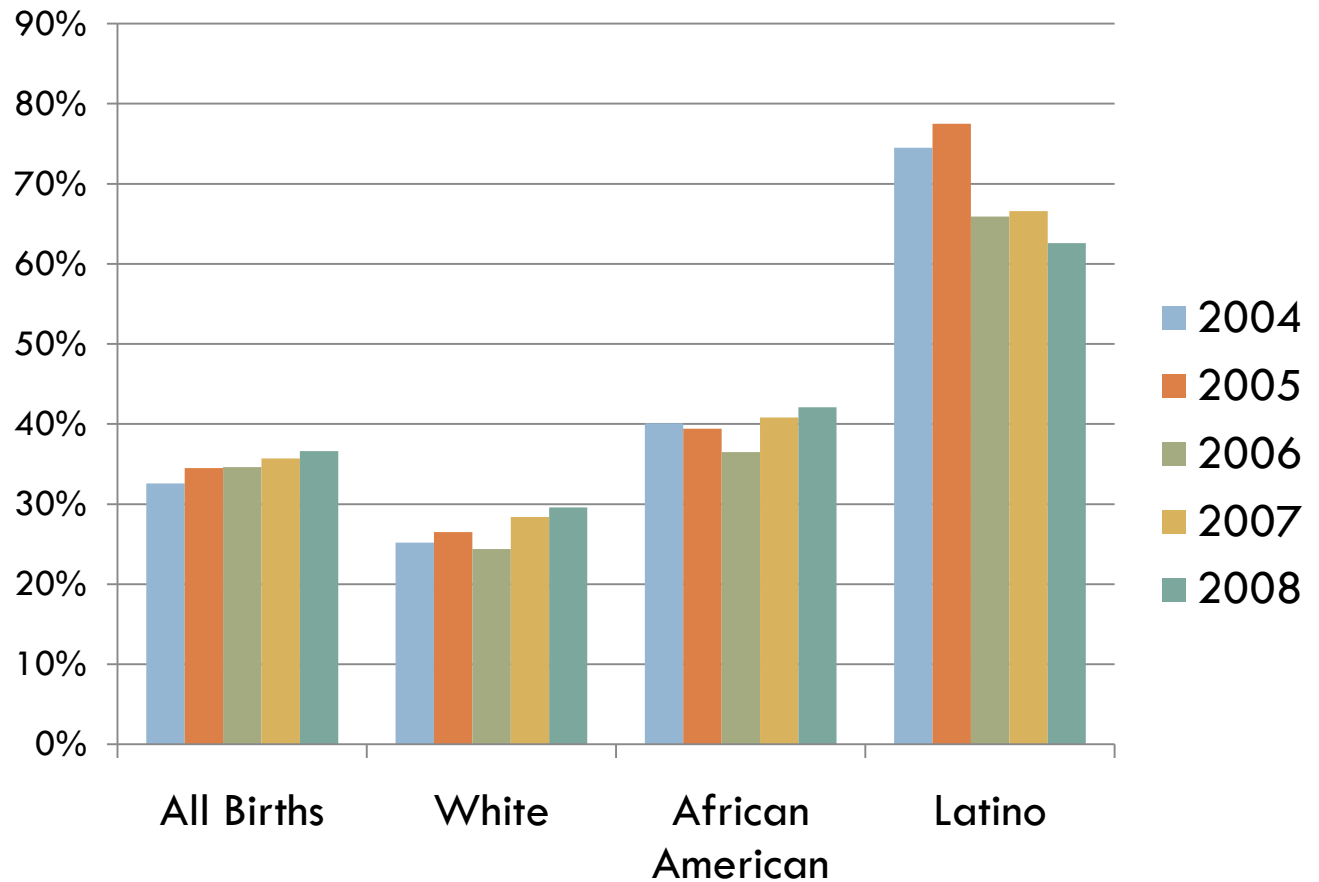
All Births 36.6%

White 29.6%

AA 42.1%

Latino 62.6%

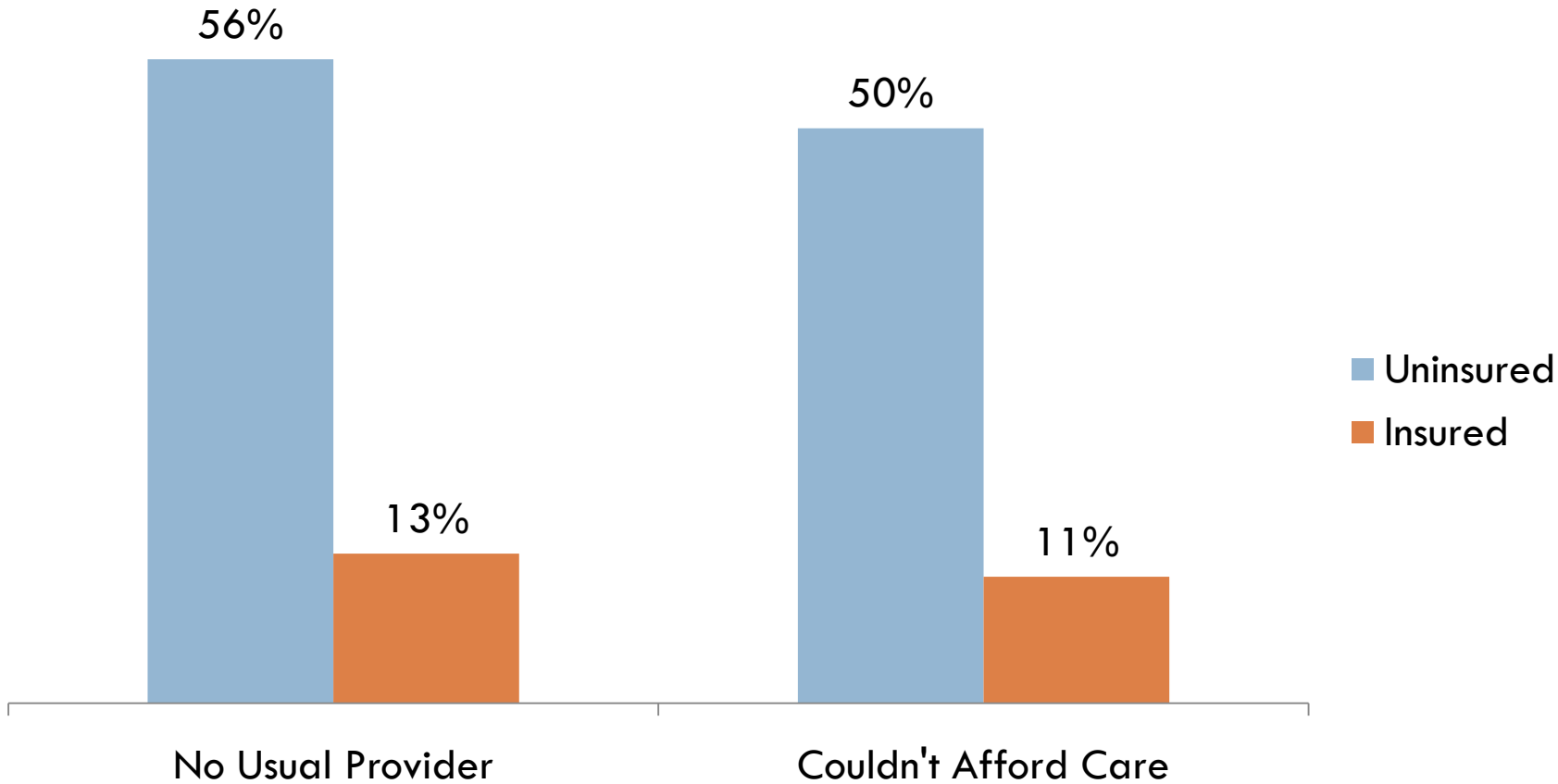
TN 32.4% (2006)





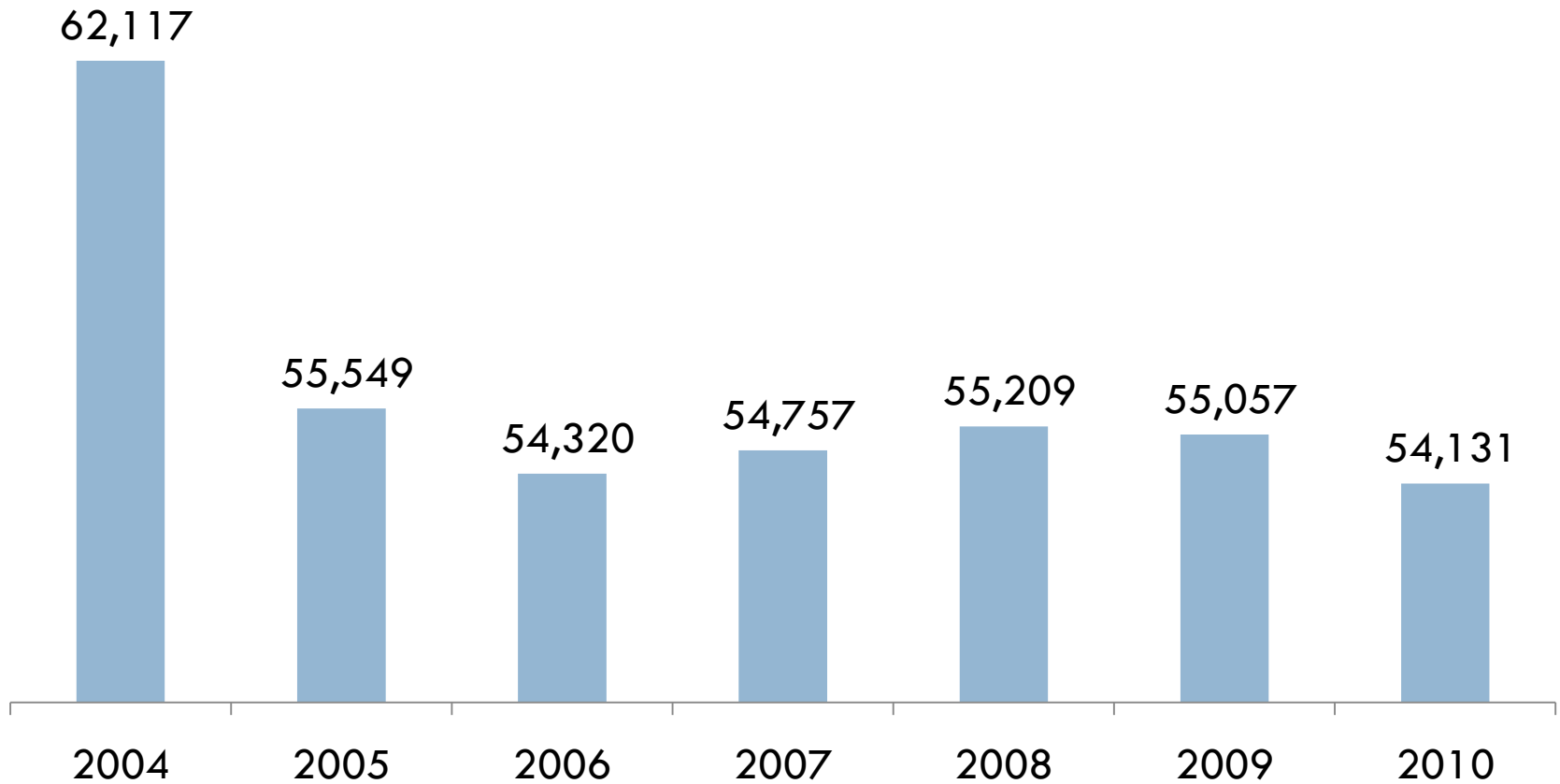
Uninsured in Hamilton County

16% Adults Uninsured Adults in Hamilton County – up from 13% in 2008



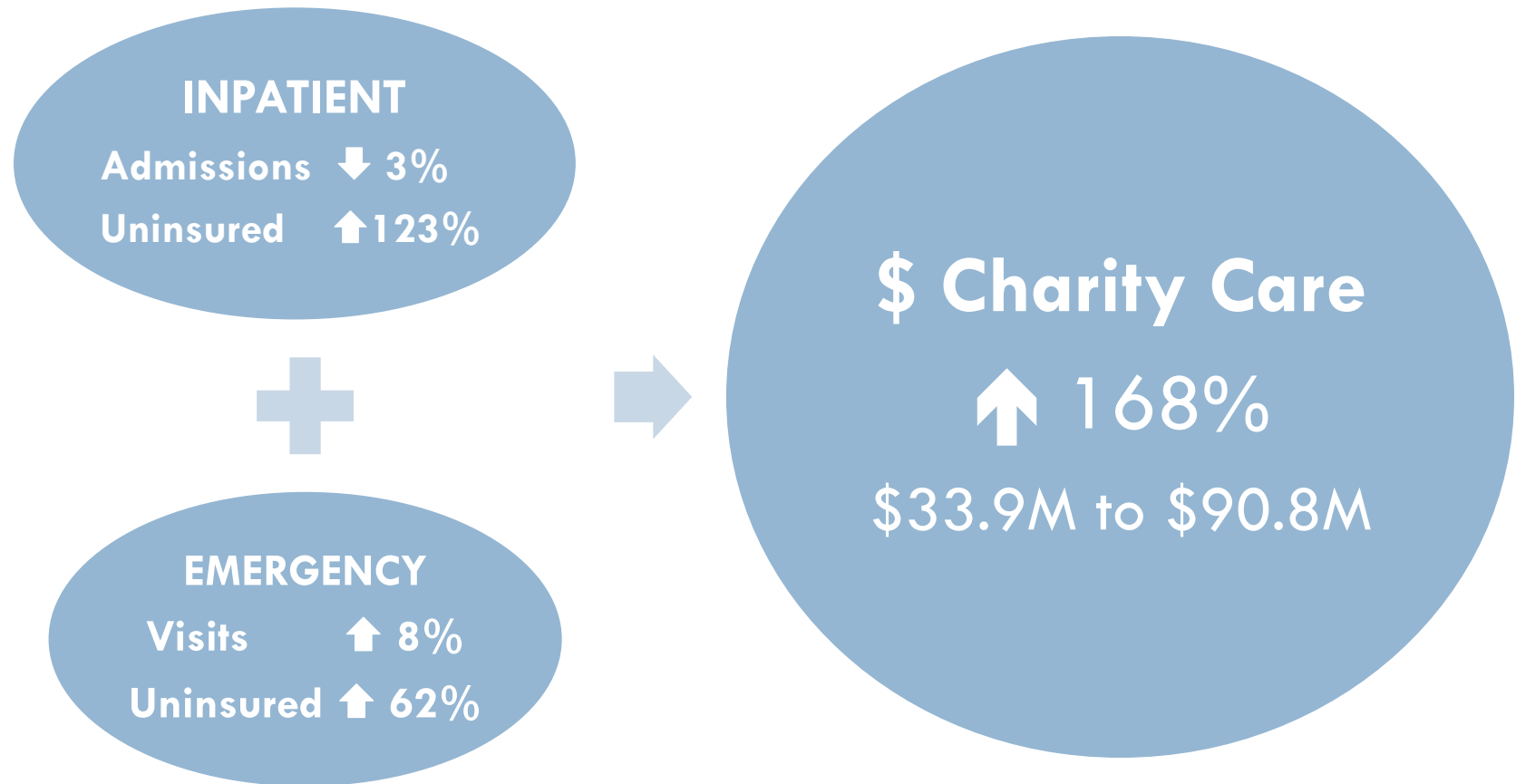
Source: Ochs Center survey of Hamilton County adults

Hamilton County: 12% Drop in TennCare Enrollment after 2005 Reform



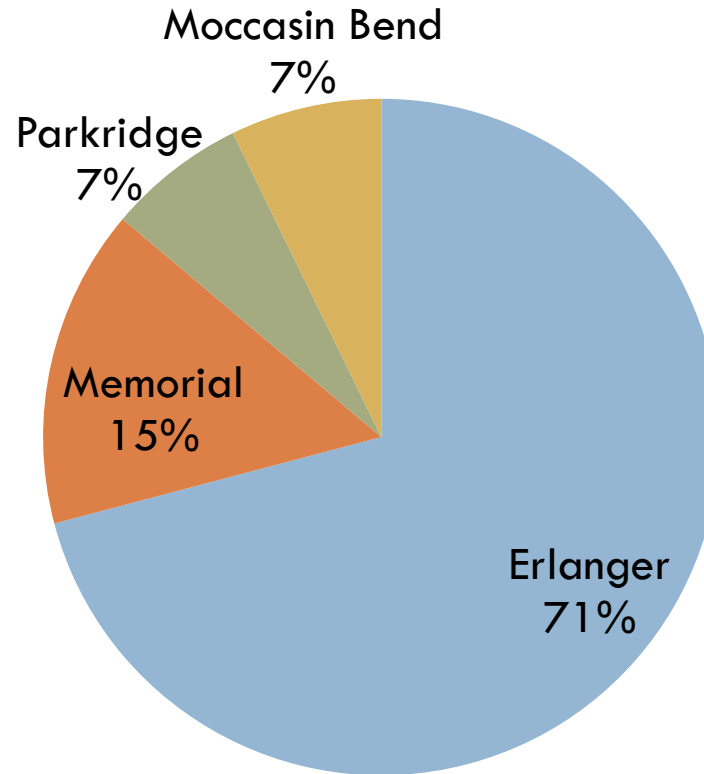
Source: Bureau of TennCare

Impact on Hamilton County Hospitals Between 2004 and 2008:



Charity Care: Charges classified as charity or medically indigent on JAR

Hamilton County Hospitals: \$90.8 Million Charity Care in 2008



Erlanger, Memorial and Parkridge include all Hamilton County hospitals operated by each.
0.4% of charity care provided by other local hospitals.

Source: 2008 Tennessee JAR of Hospitals



How does Hamilton County Compare to Benchmark Counties?

Health Outcomes: Benchmark Counties

	Premature Death (YPLL)	Fair or Poor Health
Shelby TN (Memphis)	10,646	16%
Davidson TN (Nashville)	8,978	16%
Richland SC (Columbia)	8,705	15%
Hamilton TN (Chattanooga)	8,534	17%
Knox TN (Knoxville)	8,110	16%
Madison AL (Huntsville)	8,064	14%
Forsyth NC (Winston-Salem)	7,852	13%
Allen IN (Fort Wayne)	7,159	13%
Marion OR (Salem)	6,792	16%
Lehigh PA (Allentown)	6,391	12%
Ada ID (Boise)	5,531	11%

Hamilton County:

- 4th Highest: Premature death rate
- Highest % Fair or poor health

Source: 2010 County Health Rankings

Birth Risk Factors: Benchmark Counties

	% Low Birthweight	Teen Births (10-19)	1 st Trimester PNC
Richland SC	12.0%	10.7%	71.8%
Shelby TN	11.0%	15.6%	55.2%
Forsyth NC	10.4%	11.7%	87.3%
Hamilton TN	10.3%	12.7%	64.5%
Knox TN	8.9%	10.4%	70.6%
Davidson TN	8.7%	10.3%	52.2%
Allen IN*	8.6%	10.0%	71.8%
Lehigh PA	7.9%	11.3%	66.1%
Ada ID	6.3%	6.0%	74.4%
Madison AL	6.1%	10.7%	83.2%
Marion OR *	5.5%	11.7%	87.2%

Hamilton County:

- 4th Highest LBW
- 2nd Highest teen births
- 3rd Lowest PNC

* 2007; All other 2008

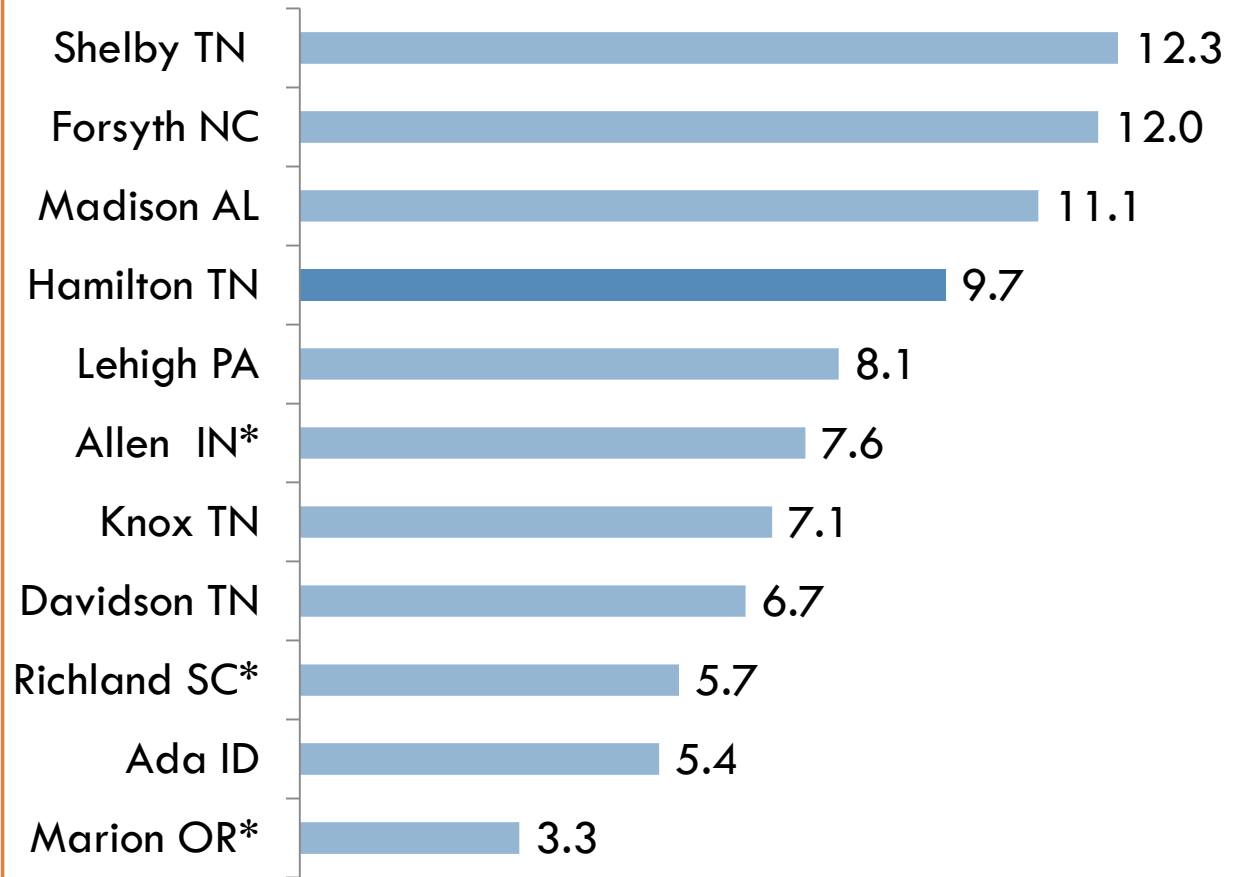
Sources: State DOH

Infant Mortality Rates: Benchmark Counties

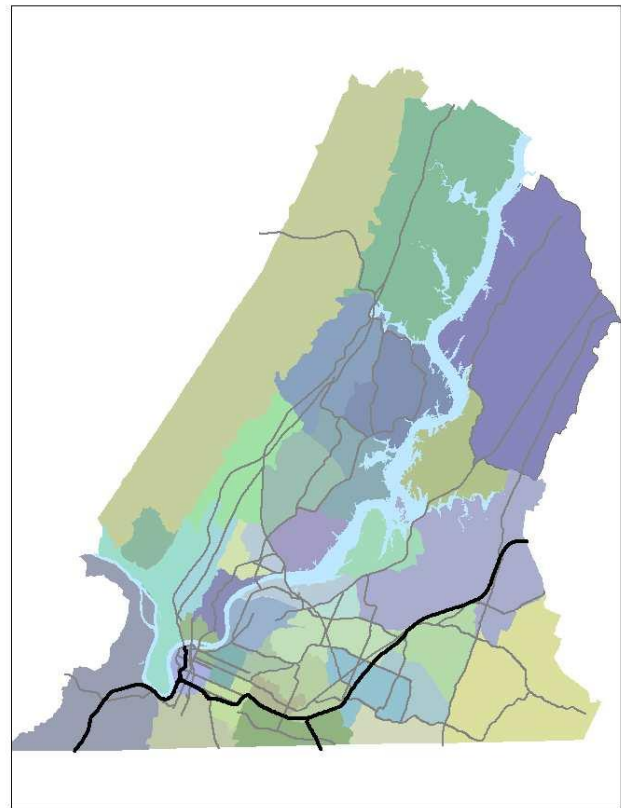
Hamilton County:

4th Highest IMR

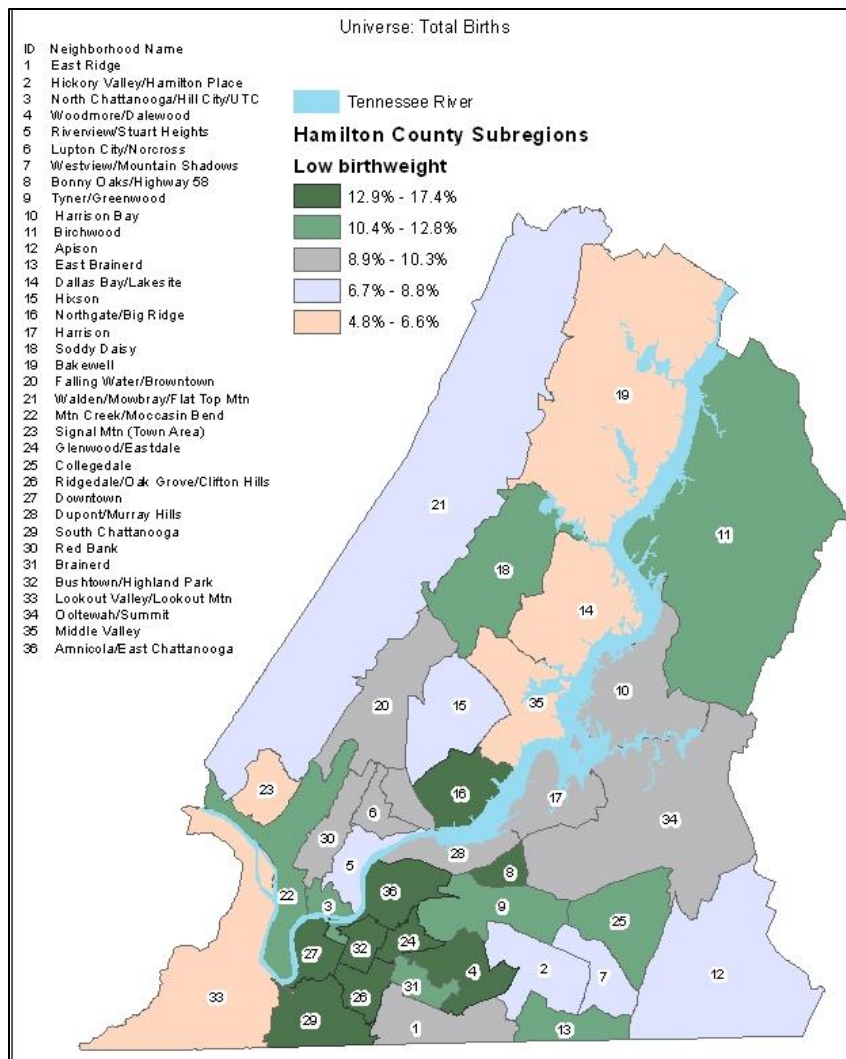
2007 data
All other 2008



Hamilton County Subregion Analysis: Infant and Maternal Factors



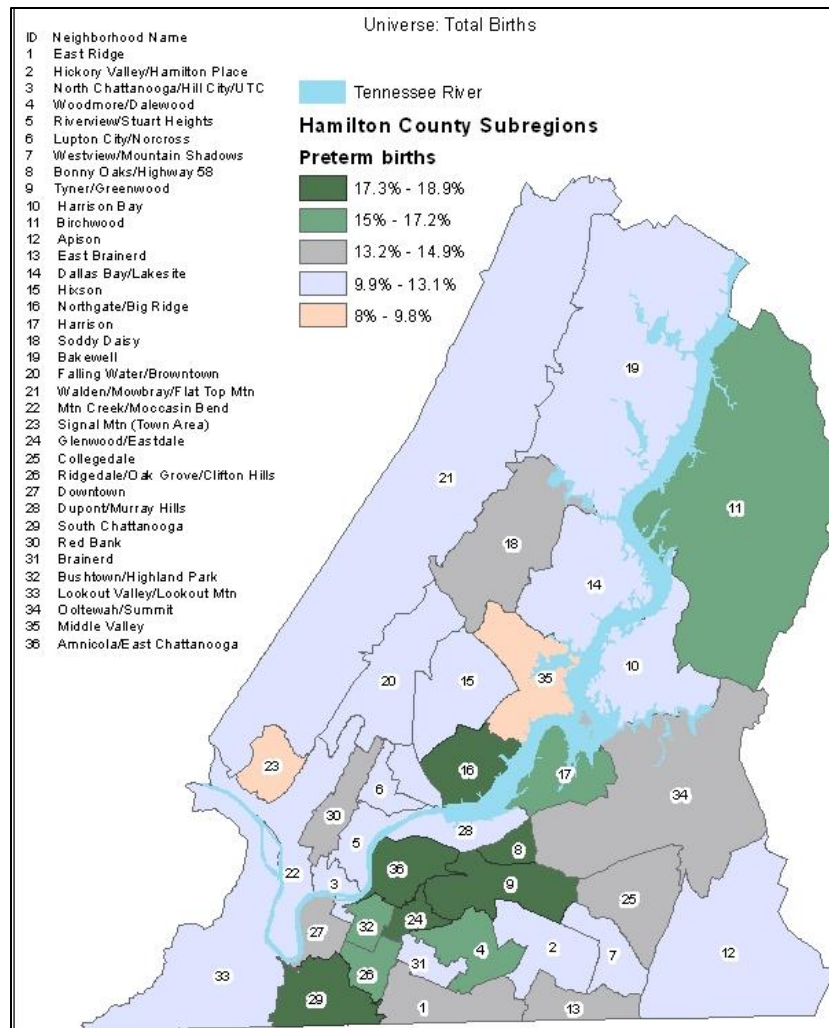
Hamilton County Subregions: Low Birthweight 2005-2008



Highest Concentrations LBW:

Amnicola/E. Chattanooga	17.4%
Glenwood/Eastdale	17.1%
Downtown	15.9%
Bonny Oaks Hwy 58	15.5%
South Chattanooga	14.9%
Northgate/Big Ridge	14.6%
Woodmore/Dalewood	14.6%
Ridgedale/Oak Grove/ Clifton Hills	14.4%
Bushtown/Highland Park	14.1%

Hamilton County Subregions: Preterm Births 2005-2008



Highest Concentrations Preterm:

Glenwood/Eastdale 18.9%

Northgate/Big Ridge 18.6%

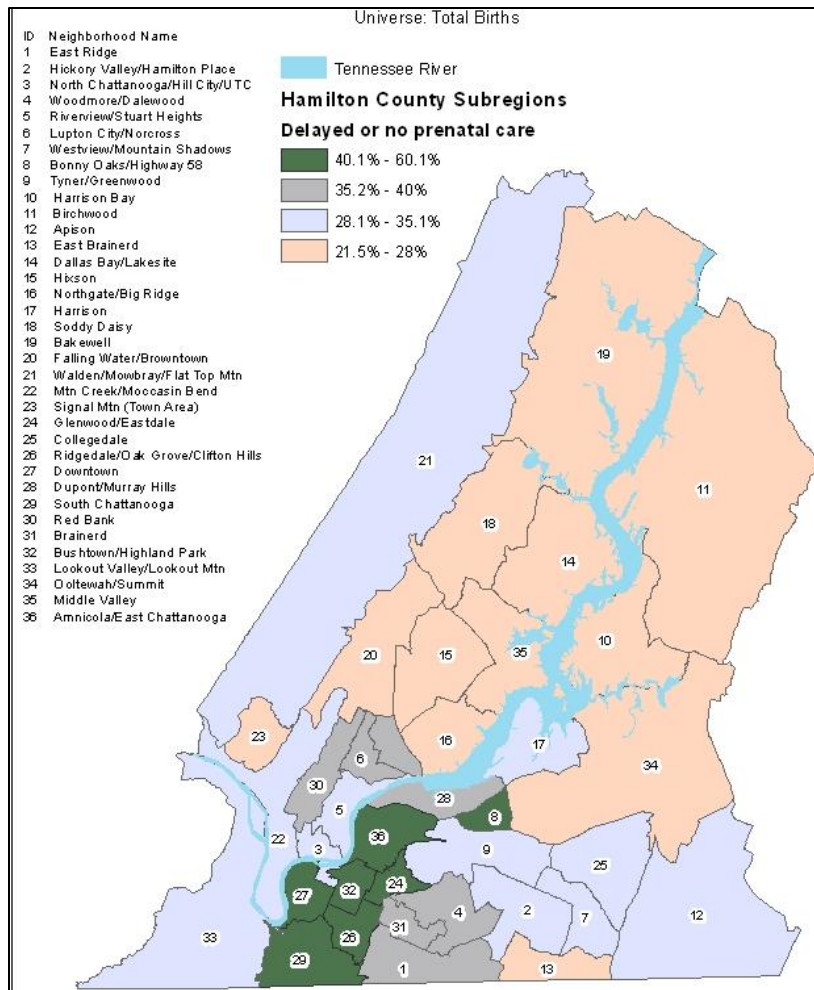
Amnicola/E. Chattanooga 18.5%

Bonny Oaks Hwy 58 18.4%

Tyner/Greenwood 17.9%

South Chattanooga 17.7%

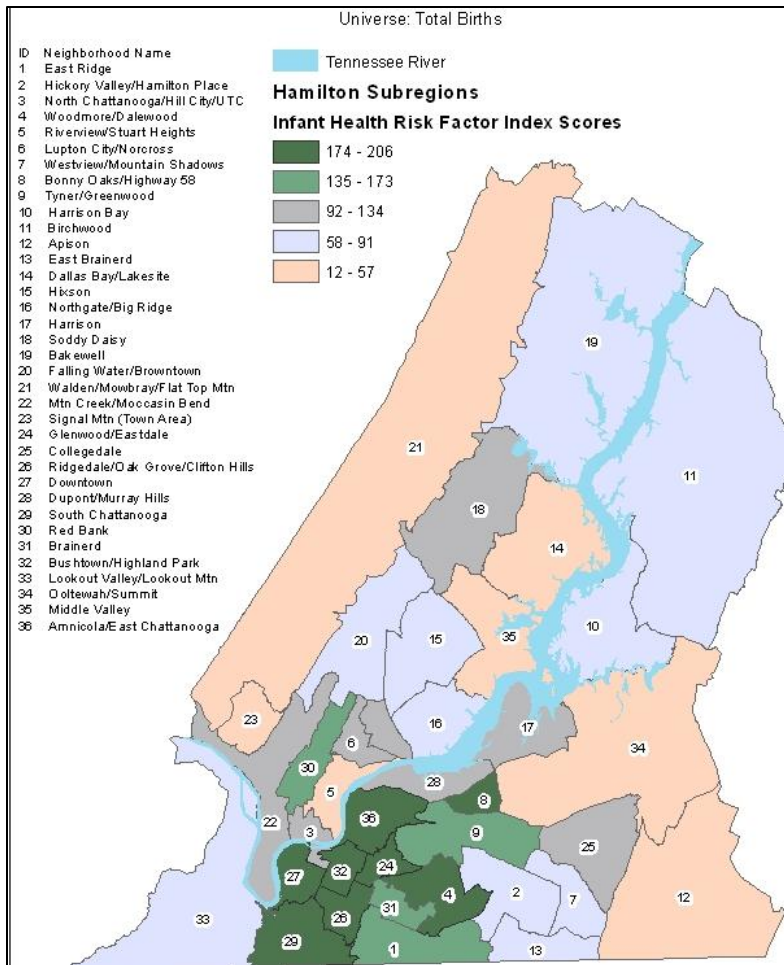
Hamilton County Subregions: Delayed or No Prenatal Care 2005-2008



Highest Concentrations Delayed/No PNC

Ridgedale/Oak Grove/ Clifton Hills	60.1%
Bushtown/Highland Park	54.2%
South Chattanooga	51.0%
Bonny Oaks Hwy 58	46.2%
Amnicola/East Chattanooga	44.0%
Glenwood/Eastdale	43.1%
Downtown	40.3%

Hamilton County Subregions: Infant Health Risk Factor Index 2005-2008



Highest Risk	Index Score
Amnicola/East Chattanooga	206
Glenwood/Eastdale	200
South Chattanooga	195
Bushtown/Highland Park	194
Ridgedale/Oak Grove/ Clifton Hills	192
Downtown	192
Bonny Oaks Hwy 58	182
Woodmore/Dalewood	174

Possible Index Score Range:
 Low -- 6 (best ranking on all 6 indicators)
 High -- 216 (worst ranking on all 6 indicators)

Subregions with Highest Concentrations of Latino Births

- Ridgedale Oak Grove/Clifton Hills (42%)
- Bushtown/Highland Park (28%)
- South Chattanooga (25%)
- These neighborhoods also had the highest concentrations of
 - No high school education
 - Delayed or no prenatal care

