

Meridian Area Community Health Needs Assessment

2015



Table of Contents

Introduction	9
Project Goals	10
Community Defined	10
Methods and Process	11
Secondary Data	12
Demographics.....	12
Health Indicators*	15
Demographics.....	15
Total Population	15
Total Population by Gender.....	16
Total Population by Age Groups, Total.....	17
Total Population by Age Groups, Percent	18
Total Population by Race Alone, Total	19
Total Population by Race Alone, Percent	19
Population with Any Disability	20
Population with Any Disability by Gender.....	21
Population with Any Disability by Age Group, Percent	22
Population with Any Disability by Age Group, Total	22
Population with Any Disability by Race Alone, Percent	23
Population with Any Disability by Race Alone, Total.....	24
Social & Economic Factors	25
Poverty and “Quality Adjusted Life Years” lost:	26
Community Map: Poverty and Lack of Education by Census Tract.....	28
Children in Poverty	29
On-Time High School Graduation Rate (NCES).....	30
Income Per Capita.....	31
Lack of Social or Emotional Support.....	32
Population in Poverty - 100% FPL.....	33

Population in Poverty - 200% FPL.....	34
Population Receiving Medicaid	35
Population Receiving SNAP Benefits	36
Population with No High School Diploma	37
Teen Births.....	38
Unemployment Rate	39
Uninsured Population - Total.....	40
Health Behaviors	41
Alcohol Consumption	41
Fruit/Vegetable Consumption	42
Physical Inactivity	43
Adults with No Leisure-Time Physical Activity by Gender.....	44
Percent Adults Physically Inactive by Year, 2004 through 2011	45
Tobacco Usage - Current Smokers	46
Clinical Care.....	47
Access to Primary Care	47
Access to Primary Care, Rate (Per 100,000 Pop.) by Year, 2002 through 2011.....	48
Cancer Screening - Mammogram.....	49
Breast Cancer Screening by Year, 2008 through 2012	50
Cancer Screening - Pap Test	51
Cancer Screening - Sigmoidoscopy or Colonoscopy.....	52
Dental Care Utilization.....	53
Adults Without Recent Dental Exam by Gender	54
Adults Without Recent Dental Exam by Race / Ethnicity, Percent	55
Diabetes Management - Hemoglobin A1c Test.....	56
Diabetes Management by Year, 2008 through 2012	57
High Blood Pressure Management.....	58
Adults Not Taking Medicine for High Blood Pressure by Race / Ethnicity, Percent.....	59
Lack of a Consistent Source of Primary Care.....	60

Adults Without a Consistent Source of Primary Care by Race / Ethnicity, Percent	61
Health Outcomes.....	62
Asthma Prevalence	63
Adults Ever Diagnosed with Asthma by Race / Ethnicity, Percent	64
Cancer Incidence - Breast	65
Population by Race / Ethnicity, Breast Cancer Incidence Rate (Per 100,000)	66
Population by Race / Ethnicity, New Breast Cancer Incidence (Count)	67
Cancer Incidence - Cervical.....	68
Population by Race / Ethnicity, Cervical Cancer Incidence Rate (Per 100,000)	69
Population by Race / Ethnicity, New Cervical Cancer Incidence (Count).....	70
Cancer Incidence - Colon and Rectum.....	70
Population by Race / Ethnicity, Colon and Rectum Cancer Incidence Rate (Per 100,000)	71
Population by Race / Ethnicity, New Colon and Rectum Cancer Incidence (Count).....	72
Cancer Incidence - Lung.....	73
Population by Race / Ethnicity, New Lung Cancer Incidence (Count).....	75
Cancer Incidence - Prostate.....	76
Population by Race / Ethnicity, Prostate Cancer Incidence Rate (Per 100,000)	77
Population by Race / Ethnicity, New Prostate Cancer Incidence (Count).....	78
Chlamydia Incidence.....	79
Chlamydia Incidence Rate (Per 100,000 Pop.) by Race / Ethnicity	80
Chlamydia Incidence Rate (Per 100,000 Pop.) by Year, 2003 through 2011	80
Diabetes (Adult).....	81
Adults with Diagnosed Diabetes by Gender	82
Percent Adults with Diagnosed Diabetes by Year, 2004 through 2011	83
Diabetes (Medicare Population).....	84
Gonorrhea Incidence	85
Gonorrhea Incidence Rate (Per 100,000 Pop.) by Race / Ethnicity.....	86
Gonorrhea Incidence Rate (Per 100,000 Pop.) by Year, 2003 through 2011.....	86
Heart Disease (Adult)	88

Adults Ever Diagnosed with Heart Disease by Race / Ethnicity, Percent	89
Heart Disease (Medicare Population)	90
High Blood Pressure (Adult)	90
High Blood Pressure (Medicare Population)	91
High Cholesterol (Adult)	92
Adults Ever Diagnosed with High Cholesterol by Race / Ethnicity, Percent	93
High Cholesterol (Medicare Population)	94
HIV Prevalence.....	95
HIV Prevalence Rate by Race / Ethnicity	96
HIV Prevalence Rate (Per 100,000 Pop.) by Year, 2008 through 2011	97
Infant Mortality	98
Low Birth Weight.....	100
Babies Born with Low Birth Weight, Percent by Race / Ethnicity	101
Babies Born with Low Birth Weight, Percent by Time Period, 2002-2008 through 2006-2012	102
Mortality - Cancer.....	103
Population by Gender, Cancer Mortality, Age-Adjusted Rate (Per 100,000 Pop.)	104
Population by Race / Ethnicity, Cancer Mortality, Age-Adjusted Rate (Per 100,000 Pop.)	105
Cancer Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011.....	106
Mortality - Heart Disease.....	107
Population by Gender, Heart Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.)	108
Population by Race / Ethnicity, Heart Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.).....	109
Heart Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011.....	110
Mortality - Homicide.....	111
Population by Race / Ethnicity, Homicide Mortality, Age-Adjusted Rate (Per 100,000 Pop.)	112
Mortality - Ischaemic Heart Disease.....	113
Population by Gender, Coronary Heart Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.)	114
Population by Race / Ethnicity, Coronary Heart Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.)	115
Ischaemic Heart Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011.	116

Mortality - Lung Disease	117
Population by Gender, Lung Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.)	118
Population by Race / Ethnicity, Lung Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.)	119
Lung Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011	120
Mortality - Motor Vehicle Accident.....	121
Population by Gender, Motor Vehicle Crash Mortality, Age-Adjusted Rate (Per 100,000 Pop.)	122
Population by Race / Ethnicity, Motor Vehicle Crash Mortality, Age-Adjusted Rate (Per 100,000 Pop.) ..	122
Motor Vehicle Accident Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011 ..	124
Mortality - Stroke.....	125
Population by Gender, Stroke Mortality, Age-Adjusted Rate (Per 100,000 Pop.)	126
Population by Race / Ethnicity, Stroke Mortality, Age-Adjusted Rate (Per 100,000 Pop.).....	127
Stroke Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011.....	128
Mortality - Suicide	129
Population by Gender, Suicide Mortality, Age-Adjusted Rate (Per 100,000 Pop.).....	130
Population by Race / Ethnicity, Suicide Mortality, Age-Adjusted Rate (Per 100,000 Pop.).....	131
Suicide Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011	132
Mortality - Unintentional Injury	133
Population by Gender, Accident Mortality, Age-Adjusted Rate (Per 100,000 Pop.)	134
Population by Race / Ethnicity, Accident Mortality, Age-Adjusted Rate (Per 100,000 Pop.)	134
Accident Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011	135
Obesity.....	137
Adults Obese (BMI > 30.0) by Gender	138
Percent Adults Obese (BMI > 30.0) by Year, 2004 through 2011	139
Overweight	140
Adults Overweight by Race / Ethnicity, Percent.....	140
Poor Dental Health	142
Adults with Poor Dental Health (6 Teeth Removed) by Race / Ethnicity, Percent	143
Poor General Health	144
Health needs identified in the population data.	145

Qualitative Studies 146

 Key Informant Interviews 146

 Method 146

 Results 148

 Greatest Health Issues: 148

 Potential Root Causes: 149

 Barriers: 150

 Proposed Solutions/Programs: 150

Summary of Focus Groups 152

 Method/Process 152

 Participants of Focus Group #1, held January 21, 2015: 152

 Participants of Focus Group #2, held February 4, 2015: 152

 Strengths and Weaknesses 155

 Groups more adversely affected by health issues 156

 Children: 156

 Low income: 156

 Elderly: 156

 Minority: 157

 Possible solutions to health problems 157

 Recommendations/Priorities of the Focus Groups 158

Conclusions from Interviews and Focus Group 158

Resources 159

Information Gaps 159

Brief Paper Survey 159

 Participant Data: 159

 Survey Table 1: Residency (County) 159

 Survey Table 2: Residency (City) 159

 Survey Table 3: Male/Female 160

 Survey Table 4: Children living in household 160

Survey Table 5: Educational Level	160
Survey Table 6: Familiarity with at-risk populations	161
Community Health	162
Survey Figure 1: Level of Satisfaction with healthcare services.....	162
Survey Figure 2: Top health problems.....	162
Survey Figure 3: Unhealthy behaviors of highest concern.....	163
Survey Figure 4: Services difficult to obtain.	164
Survey Table 7: Barriers to Health Care	165
Conclusion.....	166
Priorities	167
Appendix A	168
Appendix B: Community Healthcare Resource List for Lauderdale County	169
Licensed Hospitals	169
Nursing Homes	170
Psychiatric Residential Treatment Facilities	171
Licensed Personal Care Homes.....	171
State Department of Health Home Health Agencies	172
Hospital Based Health Home Health Agencies.....	172
Private Freestanding Home Health Agencies	172
Hospice Facilities	173
Rural Health Facilities	174
Appendix C Footnotes to Health Indicators Report	175

Introduction

The Patient Protection and Affordable Care Act of 2010 (PPACA), requires all *not-for-profit* hospitals to conduct a Community Health Needs Assessment (CHNA) to fully assess the current health needs of their community. A CHNA is the starting point of an on-going process designed to improve community health through a more tailored mechanism of community benefit planning. Although the process of conducting a CHNA is flexible, there are some requirements. According to the IRS, the CHNA must include input from citizens representing the broad interests of the community served by the hospital, including, for example, community leaders, representatives or members of medically underserved populations—including low income and minority populations, as well as populations with chronic disease needs. The CHNA must also include information from experts in public health, such as state health department officials. For this CHNA, we enlisted the help of 29 residents of Lauderdale County to serve as key informants or focus group participants.

The results of a CHNA are to be used to develop an “Implementation Strategy” in which the hospital plans programs to target identified health needs. The resulting community programs are then to be carried out during the program implementation period, outcomes evaluated, and programs adjusted yearly, with repeated needs assessments, every third year.

To achieve the goals related to this assessment with an emphasis on objectivity, Snodgrass Research Group (SRG), an independent consulting firm, was contracted to conduct all aspects of the formal assessment process, including survey, analysis, and report writing. See Appendix A for further background and Qualifications.

Project Goals

The primary goal of this project was to establish an ongoing, evidence-based process of identifying and prioritizing local community healthcare needs. The results of this assessment will establish the basis for planning appropriate community benefit programs to address these identified needs. Additionally, this information will be made widely available so as to better inform community leaders and citizens of the health-related challenges faced by this community.

Community Health Needs Assessments tend to vary substantially in their methods, scope, and depth. Guidelines stated in the Patient Protection and Affordable Care Act of 2010 and subsequent guidance issued by the IRS, require that the assessment include “input from persons who represent the broad interests of the community served by the hospital facility, including those with special knowledge of or expertise in public health.” Best practices in health needs assessments generally include healthcare providers, patients/consumers, business leaders, as well as state and/or local health experts. To meet these guidelines, we employed several methods, both qualitative and quantitative.

- A secondary analysis of existing federal and state data (quantitative)
- Interviews with key informants representing the broad interests of the community, including experts in public health (qualitative)
- Two focus groups comprising individuals representing the most underserved and/or vulnerable population groups in this community (qualitative)
- A brief paper-based health needs survey specifically targeted at the underserved population (quantitative/qualitative)

Community Defined

When assessing health needs of a community, the “community” must first be defined. Some hospitals may define their community in terms of groups of people or demographic categories served. A Women’s hospital, for instance would be primarily concerned with health issues facing women, and would thus focus a needs assessment accordingly. Community is more typically defined as a geographic service area for which, in most cases, the greatest concentration of patients served is in the county in which the hospital is located.

Anderson Regional Medical Center (ARMC) is located in Meridian, the largest municipality in Lauderdale County, MS. For the purposes of this needs assessment, *Lauderdale County* will be considered the geographic “community” of focus. Meridian and Lauderdale County play host to a multitude of other healthcare service agencies (see Appendix B for listing), including two inpatient psychiatric hospitals, one Federally Qualified Community Health Center, one Community Mental Health Center, as well as several nursing homes, specialty clinics, and outpatient facilities. In fact, approximately 15% of the workforce in Lauderdale County is

employed in the Health and Social Services sector, making Healthcare Services a very important economic engine for the region.

ARMC is a regional hospital that not only serves the county of Lauderdale but also several neighboring counties. These counties surrounding Lauderdale County have a range of healthcare service providers as well, including hospitals, clinics, etc. In most cases, these rural hospitals are conducting their own respective needs assessments and community benefit programs, thereby adding to the rationale for our focus on Lauderdale County as the primary “community” for ARMC.

Methods and Process

As noted in the Project Goals, this assessment employed a multi-method approach that included a review of existing population health data (*secondary data analysis*) paired with interview and survey data from the community (*primary data analysis*). The initial step in this community based participatory research was to conduct “Key Informant” Interviews. Key informants are individuals who are heavily involved with and knowledgeable about the community of focus. This includes community leaders in the public and private sector, as well as individuals with special expertise in healthcare. Information gathered through these interviews, paired with public health information, vital statistics, and economic data provide a very good snapshot of the community’s health needs. To further augment our understanding of the needs of the underserved, two focus groups were held for the specific purpose of gathering ideas about how to better serve those with the greatest health risk: low-income, elderly, minority, disabled, and children/youth populations. Additional primary data collection was conducted using a brief health needs survey given to every participant.

Secondary Data

Secondary data is existing information gathered from reliable sources such as the Centers for Disease Control, Mississippi Department of Health, US Census Bureau, etc. Data gathered directly from the community as part of this study is considered “primary data” and is presented later in this report.

Demographics

A demographic snapshot of Lauderdale County is presented below.

People QuickFacts	Lauderdale County	Mississippi
Population, 2014 estimate	NA	2,994,079
Population, 2013 estimate	80,254	2,992,206
Population, 2010 (April 1) estimates base	80,261	2,968,103
Population, percent change - April 1, 2010 to July 1, 2014	NA	0.9%
Population, percent change - April 1, 2010 to July 1, 2013	Z	0.8%
Population, 2010	80,261	2,967,297
Persons under 5 years, percent, 2013	6.4%	6.6%
Persons under 18 years, percent, 2013	24.2%	24.7%
Persons 65 years and over, percent, 2013	14.8%	13.9%
Female persons, percent, 2013	51.5%	51.4%
White alone, percent, 2013 (a)	55.0%	59.8%
Black or African American alone, percent, 2013 (a)	42.9%	37.4%
American Indian and Alaska Native alone, percent, 2013 (a)	0.3%	0.6%
Asian alone, percent, 2013 (a)	0.9%	1.0%
Native Hawaiian and Other Pacific Islander alone, percent, 2013 (a)	0.1%	0.1%
Two or More Races, percent, 2013	0.9%	1.1%
Hispanic or Latino, percent, 2013 (b)	2.0%	2.9%
White alone, not Hispanic or Latino, percent, 2013	53.5%	57.5%

Living in same house 1 year & over, percent, 2009-2013	85.0%	85.8%
Foreign born persons, percent, 2009-2013	1.8%	2.2%
Language other than English spoken at home, pct age 5+, 2009-2013	3.1%	3.9%
High school graduate or higher, percent of persons age 25+, 2009-2013	84.1%	81.5%
Bachelor's degree or higher, percent of persons age 25+, 2009-2013	18.9%	20.1%
Veterans, 2009-2013	6,565	200,748
Mean travel time to work (minutes), workers age 16+, 2009-2013	20.6	23.9
Housing units, 2013	34,726	1,283,165
Homeownership rate, 2009-2013	66.1%	69.4%
Housing units in multi-unit structures, percent, 2009-2013	17.7%	13.9%
Median value of owner-occupied housing units, 2009-2013	\$87,400	\$99,900
Households, 2009-2013	29,809	1,088,073
Persons per household, 2009-2013	2.56	2.65
Per capita money income in past 12 months (2013 dollars), 2009-2013	\$21,346	\$20,618
Median household income, 2009-2013	\$36,203	\$39,031
Persons below poverty level, percent, 2009-2013	24.1%	22.7%
Business QuickFacts	Lauderdale County	Mississippi
Private nonfarm establishments, 2012	1,975	58,644
Private nonfarm employment, 2012	30,438	895,804
Private nonfarm employment, percent change, 2011-2012	0.4%	0.9%
Nonemployer establishments, 2012	4,691	199,777
Total number of firms, 2007	6,323	225,977
Black-owned firms, percent, 2007	19.0%	18.0%

American Indian- and Alaska Native-owned firms, percent, 2007	F	0.3%
Asian-owned firms, percent, 2007	S	1.8%
Native Hawaiian and Other Pacific Islander-owned firms, percent, 2007	F	0.0%
Hispanic-owned firms, percent, 2007	F	0.8%
Women-owned firms, percent, 2007	26.2%	26.9%
Manufacturers' shipments, 2007 (\$1000)	750,921	59,869,456
Merchant wholesaler sales, 2007 (\$1000)	1,127,560	23,003,585
Retail sales, 2007 (\$1000)	1,320,584	33,751,407
Retail sales per capita, 2007	\$16,936	\$11,552
Accommodation and food services sales, 2007 (\$1000)	135,846	7,045,097
Building permits, 2013	118	6,799
Geography QuickFacts	Lauderdale County	Mississippi
Land area in square miles, 2010	703.63	46,923.27
Persons per square mile, 2010	114.1	63.2
FIPS Code	75	28
Metropolitan or Micropolitan Statistical Area	Meridian, MS	Micro Area
Notes		
(a) Includes persons reporting only one race.		
(b) Hispanics may be of any race, so also are included in applicable race categories.		
FN: Footnote on this item for this area in place of data		
NA: Not available		
D: Suppressed to avoid disclosure of confidential information		
X: Not applicable		
S: Suppressed; does not meet publication standards		
Z: Value greater than zero but less than half unit of measure shown		

Health Indicators*

Includes health related Demographic, Social & Economic Factors, Clinical Care factors, Health Behaviors, and Health Outcomes for Lauderdale County.

Demographics

Current population demographics and changes in demographic composition over time play a determining role in the types of health and social services needed by communities.

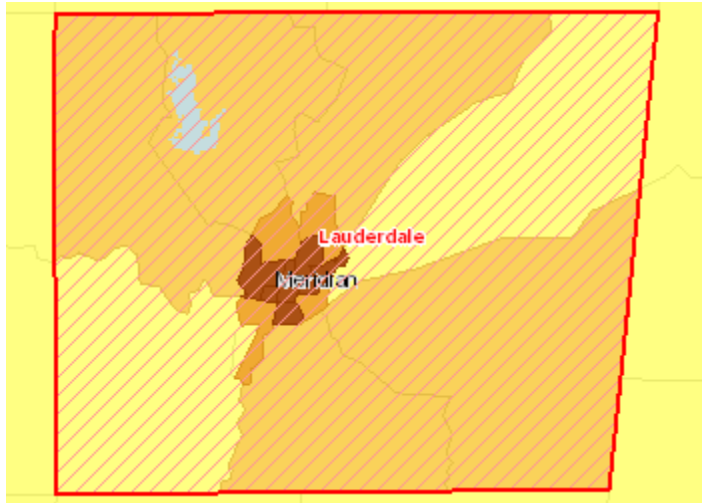
Total Population

A total of 80,204 people live in the 703.45 square mile report area defined for this assessment according to the U.S. Census Bureau American Community Survey 2008-12 5-year estimates. The population density for this area, estimated at 114.02 persons per square mile, is greater than the national average population density of 87.55 persons per square mile.

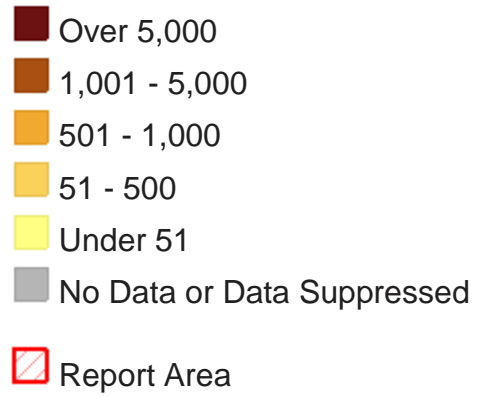
Report Area	Total Population	Total Land Area (Square Miles)	Population Density (Per Square Mile)
Lauderdale County, MS	80,204	703.45	114.02
Mississippi	2,967,620	46,910.9	63.26
United States	309,138,709	3,530,997.6	87.55

Data Source: US Census Bureau, [American Community Survey](#).2008-2012 Source geography: Tract

* Courtesy: Community Commons, <http://www.communitycommons.org>

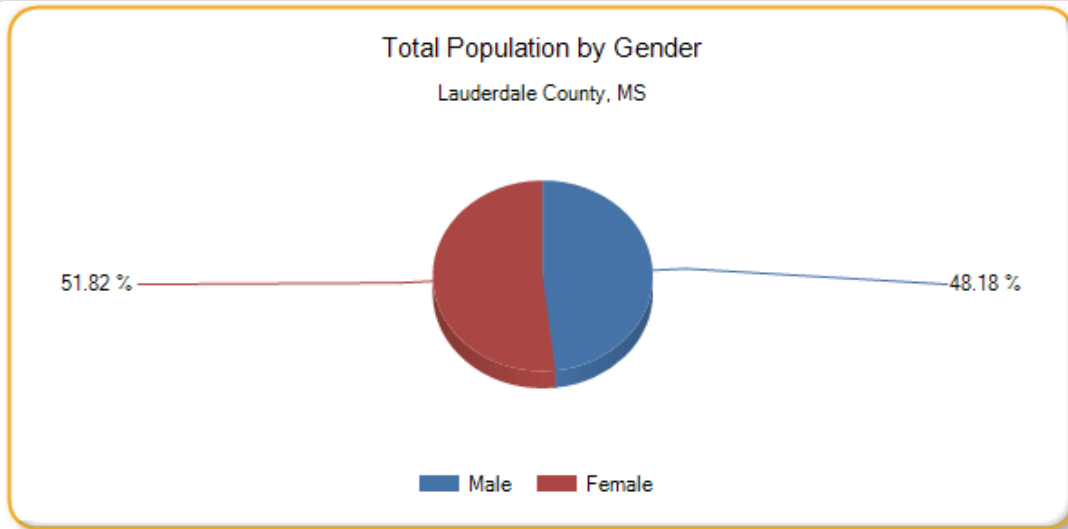


Population, Density (Persons per Sq Mile) by Tract, ACS 2008-12



Total Population by Gender

Report Area	Male	Female	Percent Male	Percent Female
Lauderdale County, MS	38,646	41,558	48.18%	51.82%
Mississippi	1,439,787	1,527,833	48.52%	51.48%
United States	152,018,800	157,119,904	49.17%	50.83%

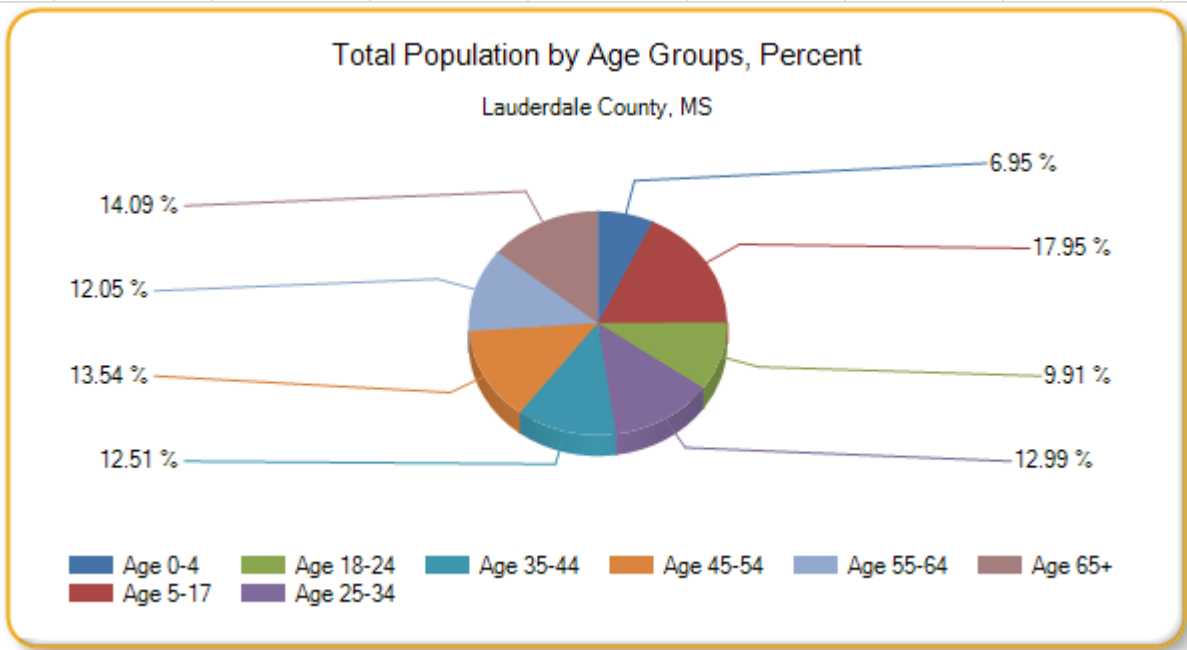


Total Population by Age Groups, Total

Report Area	Age 0-4	Age 5-17	Age 18-24	Age 25-34	Age 35-44	Age 45-54	Age 55-64	Age 65
Lauderdale County, MS	5,572	14,400	7,950	10,418	10,035	10,858	9,667	11,304
Mississippi	208,315	545,155	309,301	383,389	376,644	412,142	348,833	383,841
United States	20,137,884	53,841,976	30,822,834	41,184,288	41,227,504	44,646,976	36,605,800	40,671,440

Total Population by Age Groups, Percent

Report Area	Age 0-4	Age 5-17	Age 18-24	Age 25-34	Age 35-44	Age 45-54	Age 55-64	Age 65
Lauderdale County, MS	6.95%	17.95%	9.91%	12.99%	12.51%	13.54%	12.05%	14.09%
Mississippi	7.02%	18.37%	10.42%	12.92%	12.69%	13.89%	11.75%	12.93%
United States	6.51%	17.42%	9.97%	13.32%	13.34%	14.44%	11.84%	13.16%

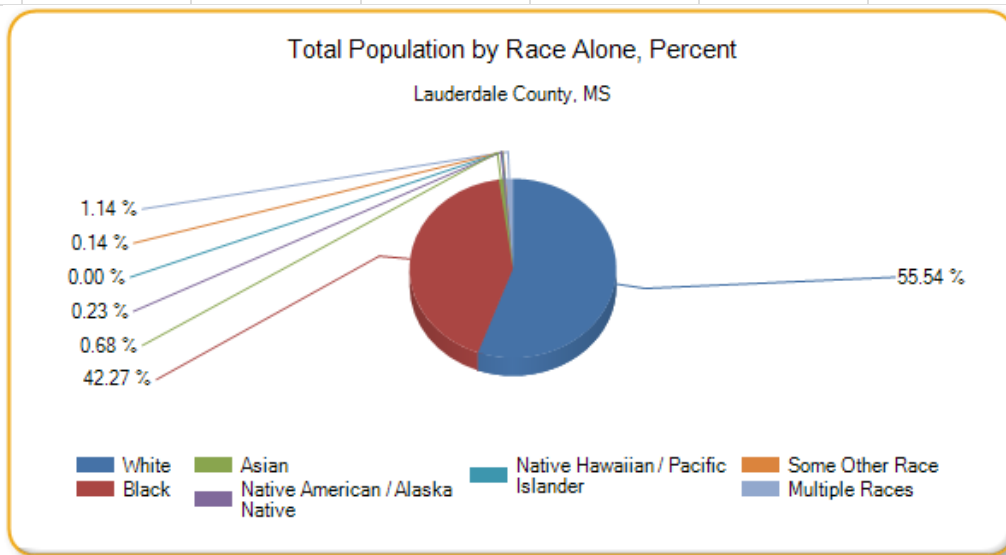


Total Population by Race Alone, Total

Report Area	White	Black	Asian	Native American / Alaska Native	Native Hawaiian / Pacific Islander	Some Other Race	Multiple Races
Lauderdale County, MS	44,540	33,906	543	186	0	111	918
Mississippi	1,768,530	1,101,849	26,403	13,344	345	23,653	33,496
United States	229,298,912	38,825,848	14,859,795	2,529,100	514,402	14,814,369	8,296,291

Total Population by Race Alone, Percent

Report Area	White	Black	Asian	Native American / Alaska Native	Native Hawaiian / Pacific Islander	Some Other Race	Multiple Races
Lauderdale County, MS	55.53%	42.27%	0.68%	0.23%	0%	0.14%	1.14%
Mississippi	59.59%	37.13%	0.89%	0.45%	0.01%	0.8%	1.13%
United States	74.17%	12.56%	4.81%	0.82%	0.17%	4.79%	2.68%



Population with Any Disability

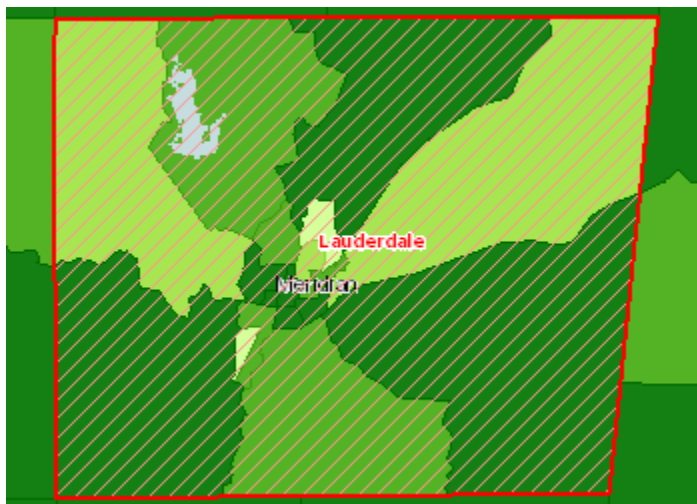
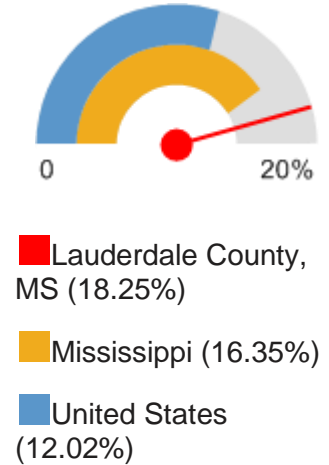
This indicator reports the percentage of the total civilian noninstitutionalized population with a disability. This indicator is relevant because disabled individuals comprise a vulnerable population that requires targeted services and outreach by providers.

Report Area	Total Population (For Whom Disability Status Is Determined)	Total Population with a Disability	Percent Population with a Disability
Lauderdale County, MS	76,187	13,904	18.25%
Mississippi	2,898,487	473,844	16.35%
United States	303,984,256	36,551,036	12.02%

Note: This indicator is compared with the state average.

Data Source: US Census Bureau, [American Community Survey](#). Source geography: Tract

Percent Population with a Disability

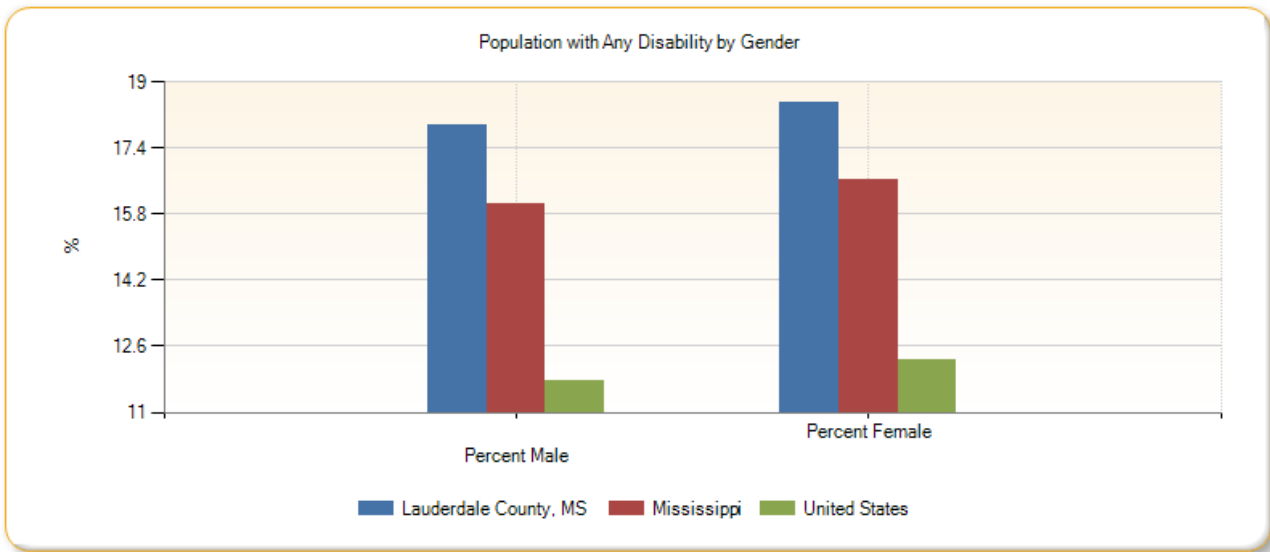


Disabled Population, Percent by Tract, ACS 2008-12



Population with Any Disability by Gender

Report Area	Total Male	Total Female	Percent Male	Percent Female
Lauderdale County, MS	6,357	7,547	17.96%	18.5%
Mississippi	222,531	251,313	16.04%	16.63%
United States	17,460,136	19,090,904	11.77%	12.26%

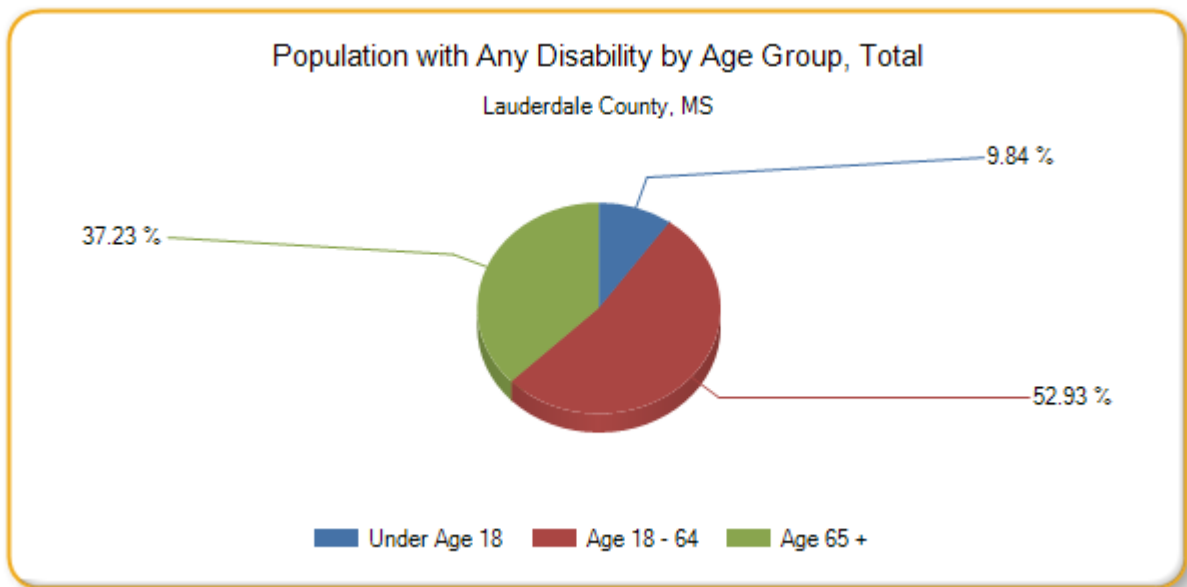


Population with Any Disability by Age Group, Percent

Report Area	Under Age 18	Age 18 - 64	Age 65
Lauderdale County, MS	6.86%	16.17%	48.23%
Mississippi	4.87%	15%	46.13%
United States	4%	10.03%	36.76%

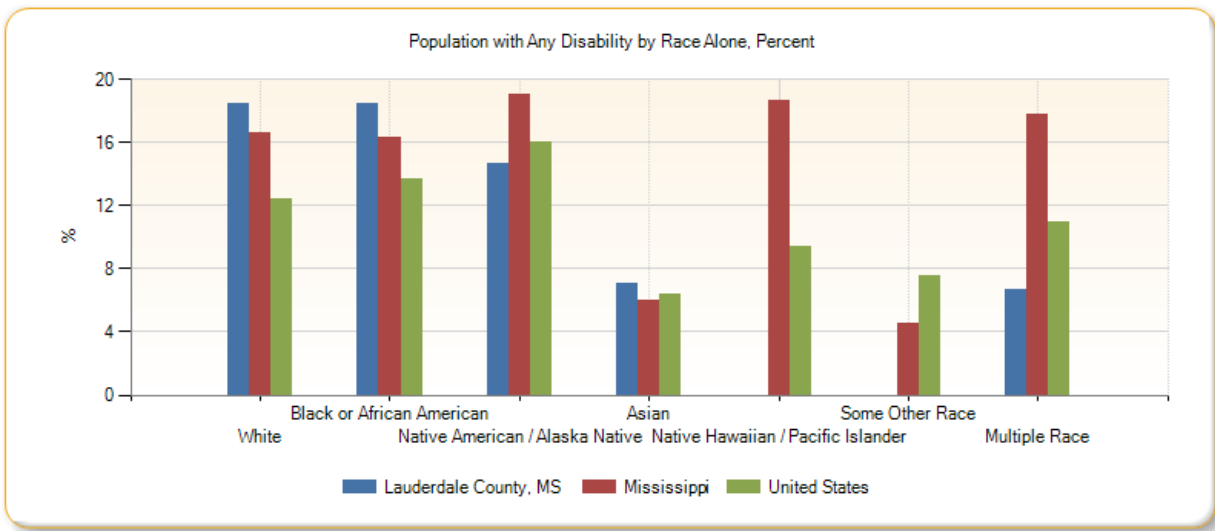
Population with Any Disability by Age Group, Total

Report Area	Under Age 18	Age 18 - 64	Age 65
Lauderdale County, MS	1,368	7,360	5,176
Mississippi	36,554	266,582	170,708
United States	2,952,899	19,128,854	14,469,285



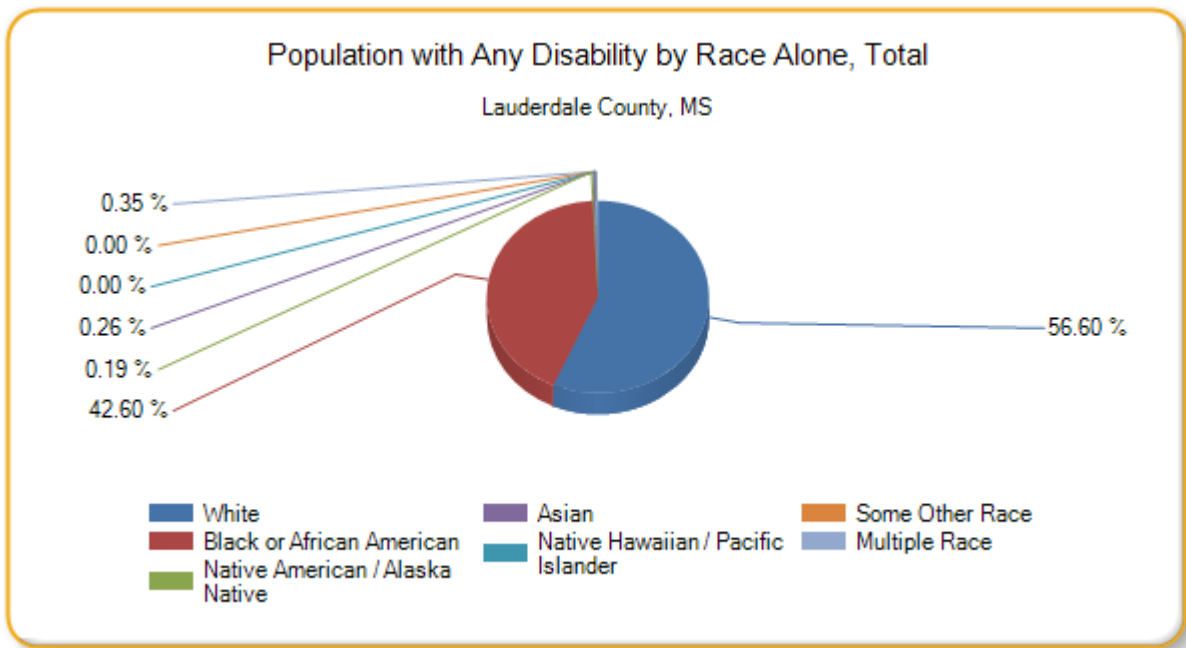
Population with Any Disability by Race Alone, Percent

Report Area	White	Black or African American	Native American / Alaska Native	Asian	Native Hawaiian / Pacific Islander	Some Other Race	Multiple Race
Lauderdale County, MS	18.5%	18.43%	14.67%	7.09%	no data	0%	6.72%
Mississippi	16.65%	16.28%	19.02%	5.95%	18.62%	4.52%	17.78%
United States	12.4%	13.73%	16.01%	6.36%	9.37%	7.56%	10.98%



Population with Any Disability by Race Alone, Total

Report Area	White	Black or African American	Native American / Alaska Native	Asian	Native Hawaiian / Pacific Islander	Some Other Race	Multiple Race
Lauderdale County, MS	7,869	5,923	27	36	0	0	49
Mississippi	288,555	174,431	2,487	1,536	62	990	5,783
United States	28,023,170	5,147,406	394,800	939,425	46,921	1,104,178	895,138



Social & Economic Factors

Economic and social insecurity often are associated with poor health. Poverty, unemployment, and lack of educational achievement affect access to care and a community's ability to engage in healthy behaviors. Without a network of support and a safe community, families cannot thrive. Ensuring access to social and economic resources provides a foundation for a healthy community.

Social & Economic Factors- Data Preview

- Children in Poverty – 37%
- On time High School Graduation Rate – 65%
- Income Per Capita - \$21,261
- Lack of Social or Emotional Support – 22.5%
- Population in Poverty - 100% FPL 23.4%
- Population in Poverty - 200% FPL 45.75%
- Population Receiving Medicaid - 29%
- Population Receiving SNAP Benefits – 18%
- Population with No High School Diploma – 17%
- Teen Births - 58/1000 pop
- Unemployment Rate – 7.2%
- Uninsured Population – Total - 14%

Poverty and “Quality Adjusted Life Years” lost:

Beyond mortality rates, researchers also use lowered quality of life due to health problems as a factor to consider when prioritizing need. “Quality Adjusted Life Years” are the number of years lived with no significantly debilitating health problems. When data show individuals suffering from debilitation across a number of dimensions such as “problems walking about,” “persistent pain,” or “inability to care for self” each year of life is reduced statistically to account for the level of debilitation. Thus, a year living with no health problems is considered numerically as 1, a year with mild debilitation may be calculated as .7, moderate debilitation, .5, severe debilitation .3, and so on. Death is considered 0. Overall averages are computed for the population, with the most severe cases receiving negative scores (e.g., a patient who is completely bed ridden, in severe pain, and mental distress). In the final analysis, the resulting Quality of Life Years lost are statistically accounted for by a number a factors, including Weight, Smoking, Income, and Disease.

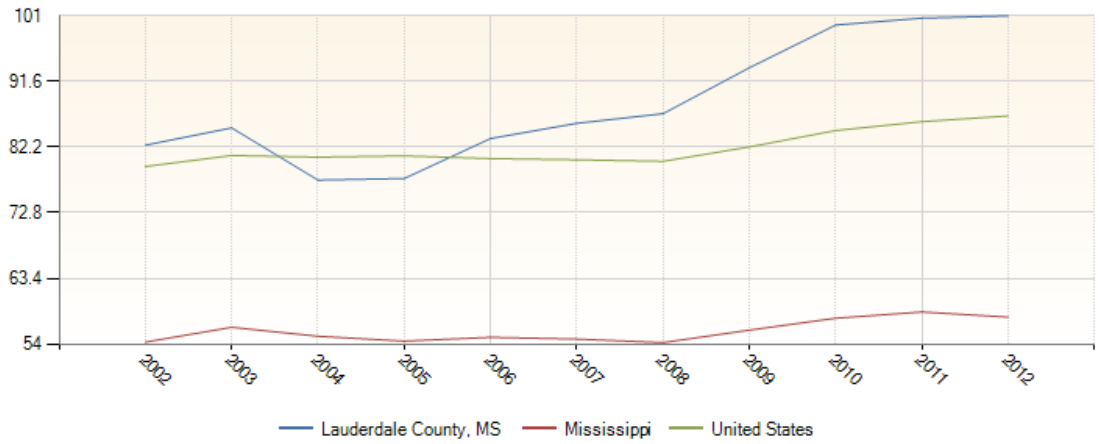
In Mississippi, according to Jia and Lubetkin (2009), *Income* was found to be the most significant contributor of lowered quality of life due to poor health. While poverty itself does not directly cause poor health, it is perhaps the most important mediating variable affecting personal health related behaviors as well as access to care.

	Percent of explainable “Quality Adjusted Life Years” lost: attributed to			
	Weight	Smoking	Income	Diseases (asthma, diabetes, hypertension, heart disease, or stroke)
USA	10.6	8.5	29.6	15.2
Mississippi	10.4	8.7	34.6	21.7

Source: Jia, H. and Lubetkin, E. (2009) The statewide burden of obesity, smoking, low income and chronic diseases in the United States. *Journal of Public Health 31 (4): 496-505.*

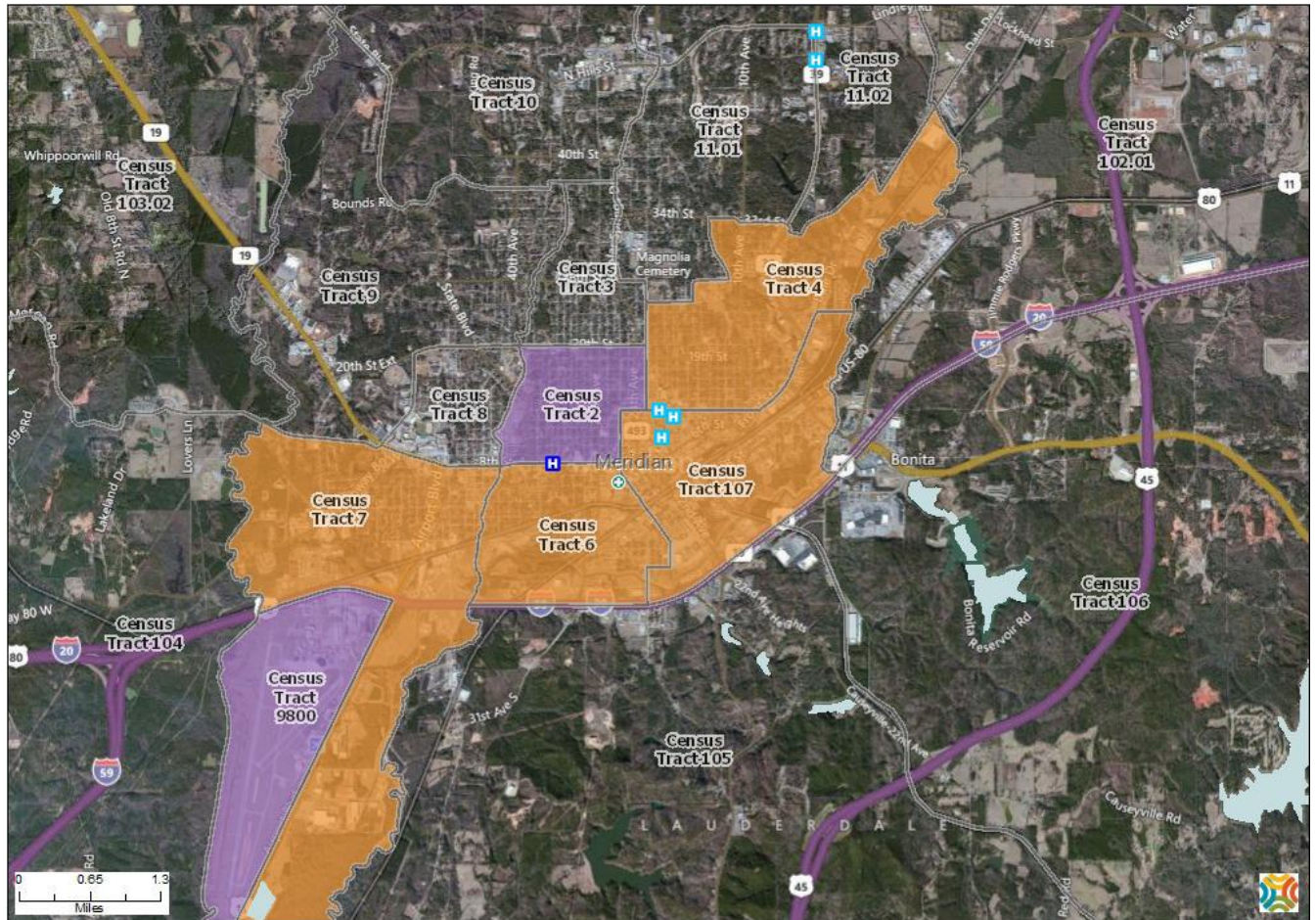
In terms of number of primary care providers available, access to primary care in Lauderdale County is above average (see chart below), yet it is likely that a substantial portion of those lacking financial resources remain underserved.

Access to Primary Care, Rate (Per 100,000 Pop.) by Year, 2002 through 2011



Community Map: Poverty and Lack of Education by Census Tract

Given the importance of Poverty as a recognized determinant of health, we have mapped, by census tract, the most impoverished areas in Lauderdale County. These areas are recognized as priority target zones for community benefit programs. The map below indicates areas of the community where the population is considered most vulnerable to health problems.



Vulnerable Populations, Data Source: [American Community Survey](#) 2008-2012

- 35% or greater below poverty level
- 35% or more with less than High School degree

Source: *Community Commons*

Children in Poverty

This indicator reports the percentage of children aged 0-17 living in households with income below the Federal Poverty Level (FPL). This indicator is relevant because poverty creates barriers to access including health services, healthy food, and other necessities that contribute to poor health status.

Report Area	Total Population	Population Under Age 18	Population Under Age 18 in Poverty	Percent Population Under Age 18 in Poverty
Lauderdale County, MS	76,072	19,649	7,243	36.86%
Mississippi	2,872,106	741,450	236,967	31.96%
United States	301,333,408	72,869,120	15,188,844	20.84%

Percent Population Under Age 18 in Poverty

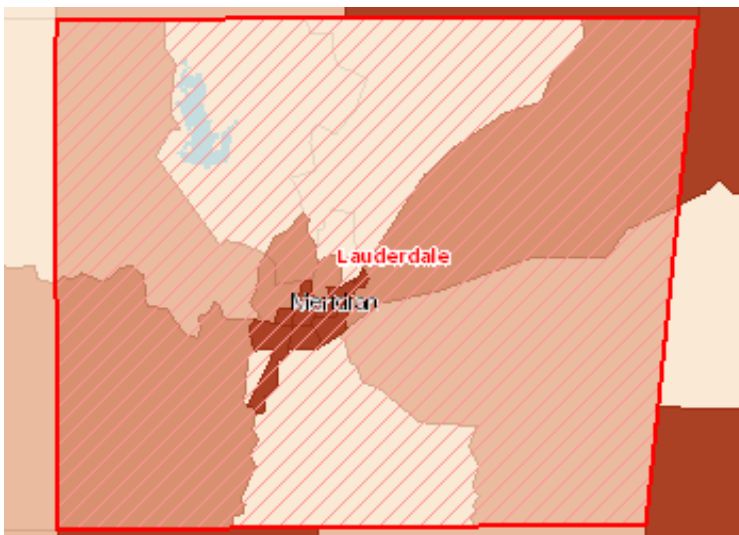


■ Lauderdale County, MS (36.86%)

■ Mississippi (31.96%)

■ United States (20.84%)

Note: This indicator is compared with the state average. Data Source: US Census Bureau, [American Community Survey](#). 2008-2012 Source geography: Tract



Population Below the Poverty Level, Children (Age 0-17), Percent by Tract, ACS 2008-12

- Over 30.0%
- 22.6 - 30.0%
- 15.1 - 22.5%
- Under 15.1%
- No Population Age 0-17

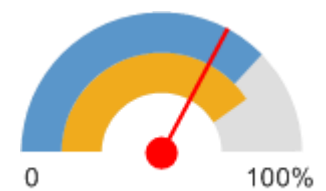
On-Time High School Graduation Rate (NCES)

In Lauderdale County, 65.5% of students are receiving their high school diploma within four years. Although this is slightly higher than the overall rate for Mississippi (62%), it is less than US graduation rate of 75.5% and the Healthy People 2020 target of 82.4%. This indicator is relevant because research suggests education is one the strongest predictors of health.

Ref: Freudenberg N., Ruglis J. (2007) Reframing school dropout as a public health issue. Preventing Chronic Disease;4(4). http://www.cdc.gov/pcd/issues/2007/oct/07_0063.htm. Accessed [Jan, 2015].

Report Area	Average Freshman Base Enrollment	Estimated Number of Diplomas Issued	On-Time Graduation Rate
Lauderdale County, MS	985	645	65.5%
Mississippi	39,536	24,505	62%
United States	4,024,345	3,039,015	75.5%
HP 2020 Target			>=82.4%

On-Time Graduation Rate



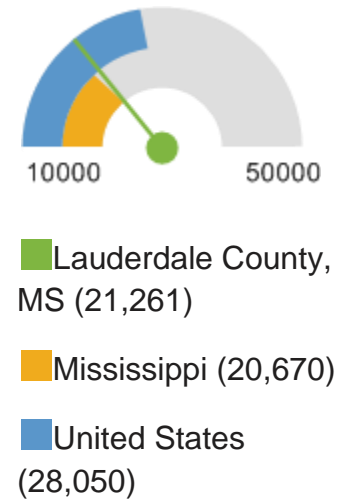
- Lauderdale Co, MS (65.5%)
- HP 2020 Target (82.4%)
- United States (75.5%)

Note: This indicator is compared with the Healthy People 2020 Target. Data Source: National Center for Education Statistics, [NCES - Common Core of Data](#). Source geography: County

Income Per Capita

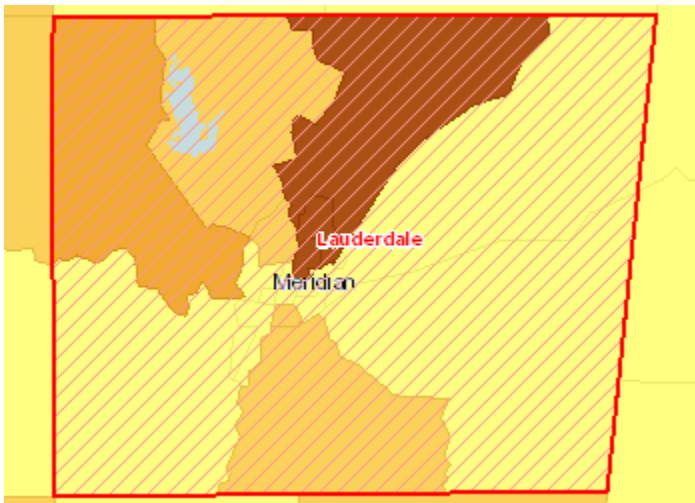
The per capita income for the report area is \$21,261. This includes all reported income from wages and salaries as well as income from self-employment, interest or dividends, public assistance, retirement, and other sources. The per capita income in this report area is the average (mean) income computed for every man, woman, and child in the specified area.

Per Capita Income (\$)



Report Area	Total Population	Total Income (\$)	Per Capita Income (\$)
Lauderdale County, MS	80,204	\$1,705,266,048	\$21,261
Mississippi	2,967,620	\$61,341,868,032	\$20,670
United States	309,138,720	\$8,671,497,551,872	\$28,050

Note: This indicator is compared with the state average. Data Source: US Census Bureau, [American Community Survey](#). 2008-2012 Source geography: Tract



Per Capita Income by Tract, ACS 2008-12

- Over 30,000
- 25,001 - 30,000
- 20,001 - 25,000
- Under 20,001
- No Data or Data Suppressed
- Report Area

Lack of Social or Emotional Support

This indicator reports the percentage of adults aged 18 and older who self-report that they receive insufficient social and emotional support all or most of the time. This indicator is relevant because social and emotional support is critical for navigating the challenges of daily life as well as for good mental health. Social and emotional support is also linked to educational achievement and economic stability.

Report Area	Total Population Age 18+	Estimated Population Without Adequate Social / Emotional Support	Crude Percentage	Age-Adjusted Percentage
Lauderdale County, MS	59,832	13,402	22.4%	22.5%
Mississippi	2,199,741	536,737	24.4%	24.4%
United States	232,556,016	48,104,656	20.69%	20.68%

Percent Adults Without Adequate Social / Emotional Support (Age-Adjusted)



- Lauderdale County, MS (22.5%)
- Mississippi (24.4%)
- United States (20.68%)

Note: This indicator is compared with the state average.

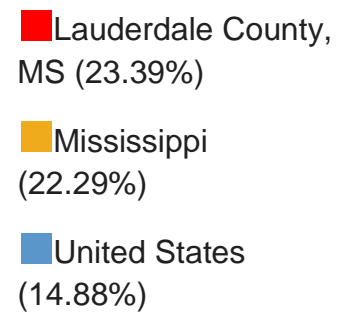
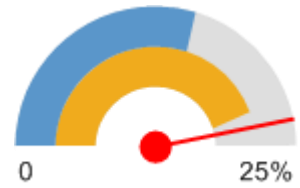
Data Source: Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#). Accessed via the [Health Indicators Warehouse](#). US Department of Health & Human Services, [Health Indicators Warehouse](#). Source geography: County

Population in Poverty - 100% FPL

Poverty is considered a *key driver* of health status.

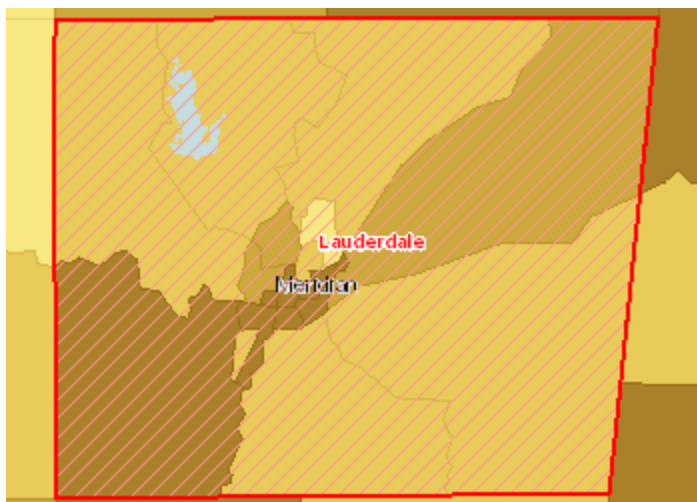
Within the report area 23.39% or 17,797 individuals are living in households with income below the Federal Poverty Level (FPL). This indicator is relevant because poverty creates barriers to access including health services, healthy food, and other necessities that contribute to poor health status.

Percent Population in Poverty



Report Area	Total Population	Population in Poverty	Percent Population in Poverty
Lauderdale County, MS	76,072	17,797	23.39%
Mississippi	2,872,106	640,132	22.29%
United States	301,333,408	44,852,528	14.88%

Note: This indicator is compared with the state average. Data Source: US Census Bureau, [American Community Survey](#).2008-2012 Source geography: Tract



Population Below the Poverty Level, Percent by Tract, ACS 2008-12

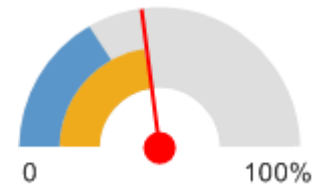


Population in Poverty - 200% FPL

In the report area 45.75% or 34,803 individuals are living in households with income below 200% of the Federal Poverty Level (FPL). This indicator is relevant because poverty creates barriers to access including health services, healthy food, and other necessities that contribute to poor health status.

Report Area	Total Population	Population with Income at or Below 200% FPL	Percent Population with Income at or Below 200% FPL
Lauderdale County, MS	76,072	34,803	45.75%
Mississippi	2,872,106	1,306,843	45.5%
United States	301,333,408	101,133,072	33.56%

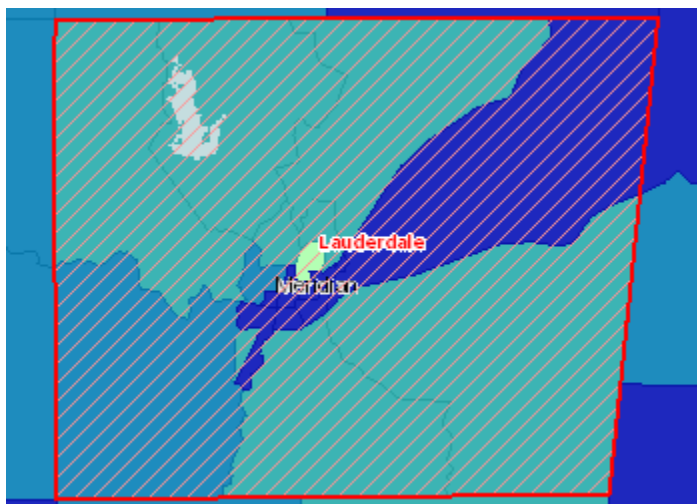
Percent Population with Income at or Below 200% FPL



- Lauderdale County, MS (45.75%)
- Mississippi (45.5%)
- United States (33.56%)

Note: This indicator is compared with the state average.

Data Source: US Census Bureau, [American Community Survey](#). Source geography: Tract



Population Below 200% Poverty Level, Percent by Tract, ACS 2008-12

- Over 50.0%
- 38.1 - 50.0%
- 26.1 - 38.0%
- Under 26.1%
- No Data or Data Suppressed
- Report Area

Population Receiving Medicaid

This indicator reports the percentage of the population with insurance enrolled in Medicaid (or other means-tested public health insurance). This indicator is relevant because it assesses vulnerable populations which are more likely to have multiple health access, health status, and social support needs; when combined with poverty data, providers can use this measure to identify gaps in eligibility and enrollment.

Report Area	Total Population (For Whom Insurance Status is Determined)	Population with Any Health Insurance	Population Receiving Medicaid	Percent of Insured Population Receiving Medicaid
Lauderdale County, MS	76,187	65,506	19,112	29.18%
Mississippi	2,898,487	2,392,262	665,518	27.82%
United States	303,984,256	258,778,080	50,682,900	19.59%

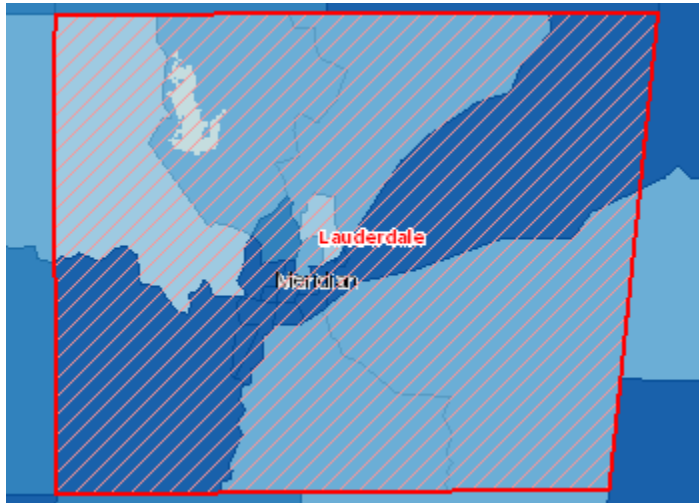
Percent of Insured Population Receiving Medicaid



- Lauderdale County, MS (29.18%)
- Mississippi (27.82%)
- United States (19.59%)

Note: This indicator is compared with the state average.

Data Source: US Census Bureau, [American Community Survey](#). Source geography: Tract



Insured, Medicaid / Means-Tested Coverage, Percent by Tract, ACS 2008-12

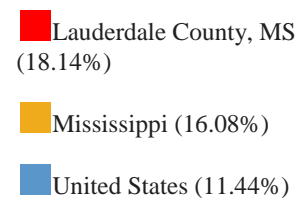
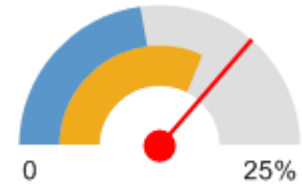


Population Receiving SNAP Benefits

This indicator reports the estimated percentage of households receiving the Supplemental Nutrition Assistance Program (SNAP) benefits. This indicator is relevant because it assesses vulnerable populations which are more likely to have multiple health access, health status, and social support needs; when combined with poverty data, providers can use this measure to identify gaps in eligibility and enrolment.

Report Area	Total Households	Households Receiving SNAP Benefits	Percent Households Receiving SNAP Benefits
Lauderdale County, MS	29,715	5,390	18.14%
Mississippi	1,087,791	174,893	16.08%
United States	115,226,800	13,180,710	11.44%

Percent Households Receiving SNAP Benefits



Note: This indicator is compared with the state average.

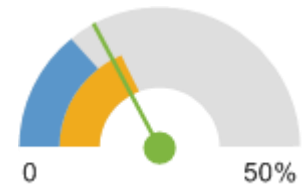
Data Source: US Census Bureau, [American Community Survey](#), 2008-2012 Source geography: Tract

Population with No High School Diploma

Within the report area there are 8,940 persons aged 25 and older without a high school diploma (or equivalency) or higher. This represents 17.1% of the total population aged 25 and older. This indicator is relevant because educational attainment is linked to positive health outcomes ([Freudenberg & Ruglis, 2007](#)).

Report Area	Total Population Age 25+	Population Age 25+ with No High School Diploma	Percent Population Age 25+ with No High School Diploma
Lauderdale County, MS	52,282	8,940	17.1%
Mississippi	1,904,849	361,500	18.98%
United States	204,336,016	29,179,820	14.28%

Percent Population Age 25 with No High School Diploma

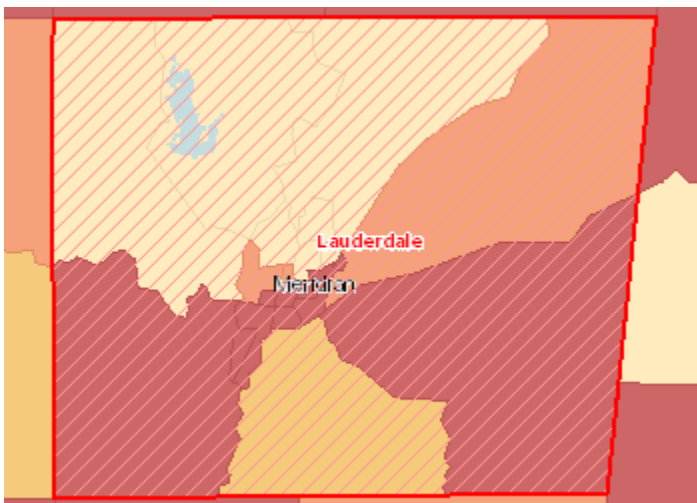


- Lauderdale County, MS (17.1%)
- Mississippi (18.98%)
- United States (14.28%)

Note: This indicator is compared with the state average.

Data Source: US Census Bureau, [American Community Survey](#).

Source geography: Tract



Population with No High School Diploma (Age 25), Percent by Tract, ACS 2008-12

- Over 21.0%
- 16.1 - 21.0%
- 11.1 - 16.0%
- Under 11.1%
- No Data or Data Suppressed
- Report Area

Teen Births

This indicator reports the rate of total births to women age of 15 - 19 per 1,000 female population age 15 - 19. This indicator is relevant because in many cases, teen parents have unique social, economic, and health support services. Additionally, high rates of teen pregnancy may indicate the prevalence of unsafe sex practices.

Report Area	Female Population Age 15 - 19	Births to Mothers Age 15 - 19	Teen Birth Rate (Per 1,000 Population)
Lauderdale County, MS	2,975	173	58
Mississippi	110,474	6,562	59.4
United States	10,736,677	392,962	36.6

Teen Birth Rate (Per 1,000 Population)



- Lauderdale County, MS (58)
- Mississippi (59.4)
- United States (36.6)

Note: This indicator is compared with the state average.

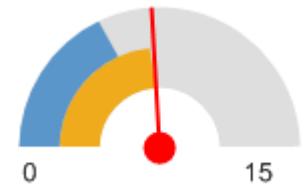
Data Source: US Department of Health & Human Services, [Health Indicators Warehouse](#). 2006-2012 Centers for Disease Control and Prevention, [National Vital Statistics System](#). Accessed via [CDC WONDER](#). Source geography: County

Unemployment Rate

Total unemployment in the report area for December, 2014 was 2,505, or 7.2% of the civilian non-institutionalized population age 16 and older (non-seasonally adjusted). This indicator is relevant because unemployment creates financial instability and barriers to access, (including insurance coverage, health services, healthy food, and other necessities) that contribute to poor health status.

Report Area	Labor Force	Number Employed	Number Unemployed	Unemployment Rate
Lauderdale County, MS	34,972	32,467	2,505	7.2
Mississippi	1,247,125	1,158,990	88,135	7.1
United States	156,669,187	148,199,073	8,470,114	5.4

Unemployment Rate



- Lauderdale County, MS (7.2)
- Mississippi (7.1)
- United States (5.4)

Note: This indicator is compared with the state average.

Data Source: US Department of Labor, [Bureau of Labor Statistics](#). December 2014 Source geography: County

Uninsured Population - Total

The lack of health insurance is considered a *key driver* of health status.

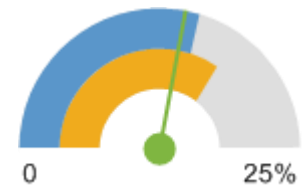
This indicator reports the percentage of the total civilian non-institutionalized population without health insurance coverage. This indicator is relevant because lack of insurance is a primary barrier to healthcare access including regular primary care, specialty care, and other health services that contributes to poor health status.

Report Area	Total Population (For Whom Insurance Status is Determined)	Total Uninsured Population	Percent Uninsured Population
Lauderdale County, MS	76,187	10,681	14.02%
Mississippi	2,898,487	506,225	17.47%
United States	303,984,256	45,206,152	14.87%

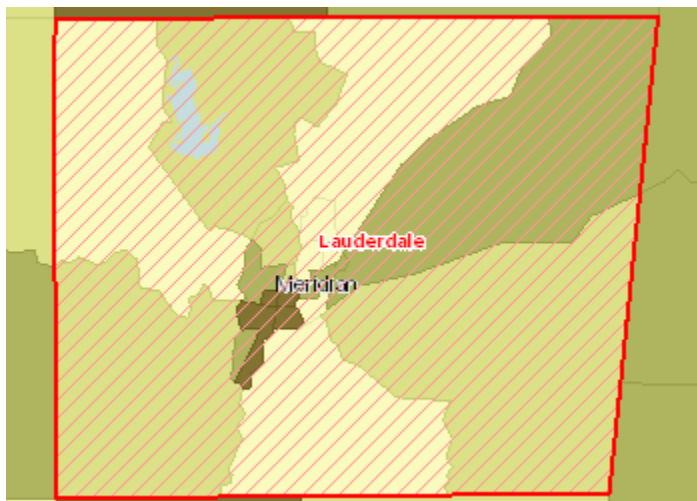
Note: This indicator is compared with the state average.

Data Source: US Census Bureau, [American Community Survey](#). Source geography: Tract

Percent Uninsured Population



- Lauderdale County, MS (14.02%)
- Mississippi (17.47%)
- United States (14.87%)



Uninsured Population, Percent by Tract, ACS 2008-12

- Over 20.0%
- 15.1 - 20.0%
- 10.1 - 15.0%
- Under 10.1%
- No Data or Data Suppressed
- Report Area

Health Behaviors

Health behaviors such as poor diet, a lack of exercise, and substance abuse contribute to poor health status.

Health Behaviors Data Preview

Alcohol Consumption

Fruit/Vegetable Consumption

Physical Inactivity

Tobacco Expenditures

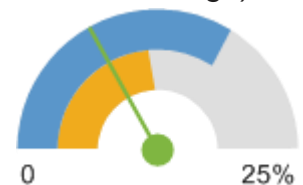
Tobacco Usage - Current Smokers

Alcohol Consumption

This indicator reports the percentage of adults aged 18 and older who self-report heavy alcohol consumption (defined as more than two drinks per day on average for men and one drink per day on average for women). This indicator is relevant because current behaviors are determinants of future health and this indicator may illustrate a cause of significant health issues, such as cirrhosis, cancers, and untreated mental and behavioral health needs.

Report Area	Total Population Age 18+	Estimated Adults Drinking Excessively	Estimated Adults Drinking Excessively (Crude Percentage)	Estimated Adults Drinking Excessively (Age-Adjusted Percentage)
Lauderdale County, MS	59,832	4,966	8.3%	8.5%
Mississippi	2,199,741	252,970	11.5%	11.9%
United States	232,556,016	38,248,349	16.45%	16.94%

Estimated Adults Drinking Excessively (Age-Adjusted Percentage)



■ Lauderdale County, MS (8.5%)

■ Mississippi (11.9%)

■ United States (16.94%)

Note: This indicator is compared with the state average. Data breakout by demographic groups are not available. Data Source: Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#). 2006-2012 Accessed via the [Health Indicators Warehouse](#). Source geography: County

Fruit/Vegetable Consumption

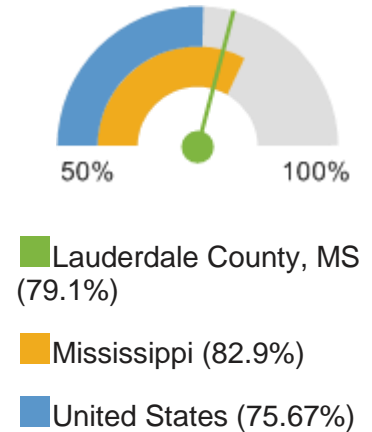
In the report area an estimated 45,854, or 79.1% of adults over the age of 18 are consuming less than 5 servings of fruits and vegetables each day. This indicator is relevant because current behaviors are determinants of future health, and because unhealthy eating habits may cause of significant health issues, such as obesity and diabetes.

Report Area	Total Population (Age 18+)	Total Adults with Inadequate Fruit / Vegetable Consumption	Percent Adults with Inadequate Fruit / Vegetable Consumption
Lauderdale County, MS	57,970	45,854	79.1%
Mississippi	2,158,108	1,789,072	82.9%
United States	227,279,010	171,972,118	75.67%

Note: This indicator is compared with the state average. Data breakout by demographic groups are not available.

*Data Source: Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#).2005-2009 Accessed via the [Health Indicators Warehouse](#).
Source geography: County*

Percent Adults with Inadequate Fruit / Vegetable Consumption



Physical Inactivity

Within the report area, 18,755 or 31.6% of adults aged 20 and older self-report no leisure time for activity, based on the question: "During the past month, other than your regular job, did you participate in any physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise?". This indicator is relevant because current behaviors are determinants of future health and this indicator may illustrate a cause of significant health issues, such as obesity and poor cardiovascular health.

Report Area	Total Population Age 20+	Population with no Leisure Time Physical Activity	Percent Population with no Leisure Time Physical Activity
Lauderdale County, MS	58,245	18,755	31.6%
Mississippi	2,137,908	694,528	32%
United States	228,772,311	52,318,681	22.47%

Percent Population with no Leisure Time Physical Activity



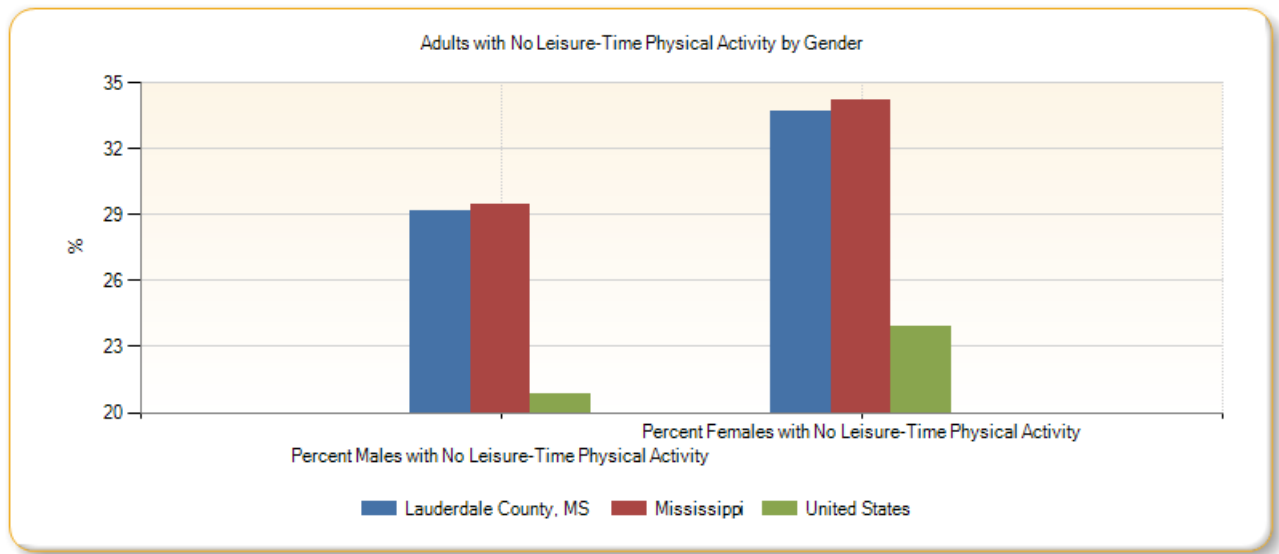
- Lauderdale County, MS (31.6%)
- Mississippi (32%)
- United States (22.47%)

Note: This indicator is compared with the state average.

Data Source: Centers for Disease Control and Prevention, [National Center for Chronic Disease Prevention and Health Promotion](#). 2011 Source geography: County

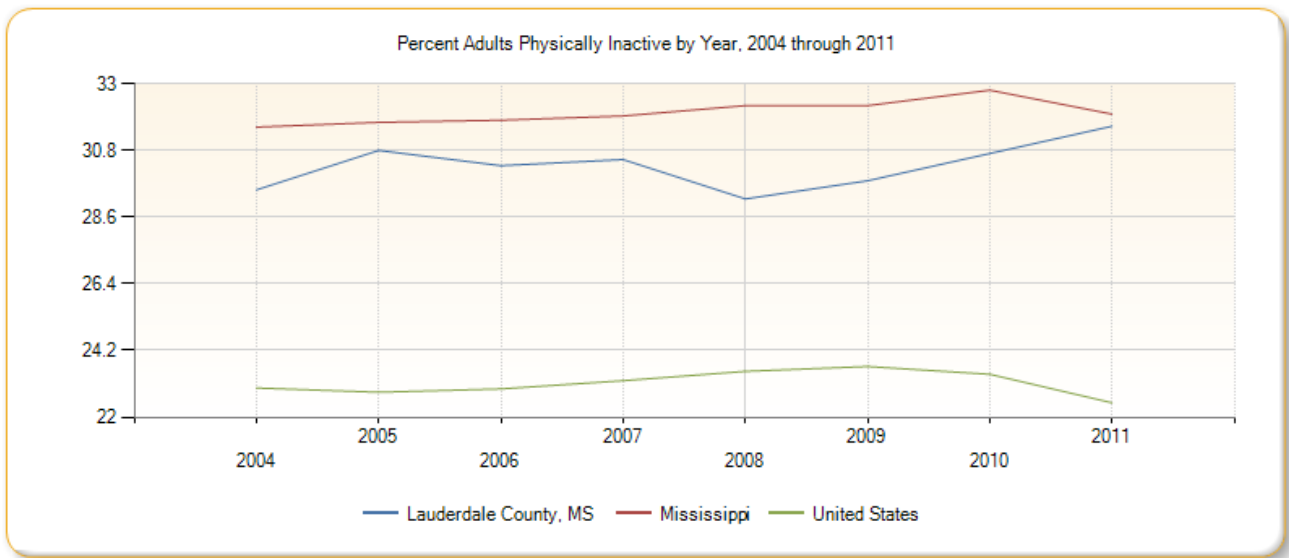
Adults with No Leisure-Time Physical Activity by Gender

Report Area	Total Males with No Leisure-Time Physical Activity	Percent Males with No Leisure-Time Physical Activity	Total Females with No Leisure-Time Physical Activity	Percent Females with No Leisure-Time Physical Activity
Lauderdale County, MS	8,177	29.2%	10,579	33.7%
Mississippi	303,466	29.45%	391,057	34.21%
United States	23,332,443	20.82%	28,986,230	23.93%



Percent Adults Physically Inactive by Year, 2004 through 2011

Report Area	2004	2005	2006	2007	2008	2009	2010	2011
Lauderdale County, MS	29.5%	30.8%	30.3%	30.5%	29.2%	29.8%	30.7%	31.6%
Mississippi	31.57%	31.73%	31.8%	31.94%	32.28%	32.28%	32.79%	32%
United States	22.96%	22.82%	22.93%	23.2%	23.51%	23.67%	23.41%	22.47%



Tobacco Usage - Current Smokers

In the report area an estimated 13,343, or 22.3% of adults age 18 or older self-report currently smoking cigarettes some days or every day. This indicator is relevant because tobacco use is linked to leading causes of death such as cancer and cardiovascular disease.

Report Area	Total Population Age 18+	Total Adults Regularly Smoking Cigarettes	Percent Population Smoking Cigarettes (Crude)	Percent Population Smoking Cigarettes (Age-Adjusted)
Lauderdale County, MS	59,832	13,343	22.3%	22.3%
Mississippi	2,199,741	510,340	23.2%	23.4%
United States	232,556,016	41,491,223	17.84%	18.08%

Percent Population Smoking Cigarettes (Age-Adjusted)



- Lauderdale County, MS (22.3%)
- Mississippi (23.4%)
- United States (18.08%)

Note: This indicator is compared with the state average. Data breakout by demographic groups are not available.

Data Source: Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#). Accessed via the [Health Indicators Warehouse](#). Source geography: County

Clinical Care

A lack of access to care presents barriers to good health. The supply and accessibility of facilities and physicians, the rate of uninsurance, financial hardship, transportation barriers, cultural competency, and coverage limitations affect access.

Rates of morbidity, mortality, and emergency hospitalizations can be reduced if community residents access services such as health screenings, routine tests, and vaccinations. Prevention indicators can call attention to a lack of access or knowledge regarding one or more health issues and can inform program interventions.

Data Indicators: Clinical Care

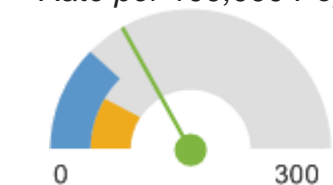
Access to Primary Care	Cancer Screening - Sigmoidoscopy or Colonoscopy	High Blood Pressure Management
Cancer Screening - Mammogram	Dental Care Utilization	Lack of a Consistent Source of Primary Care
Cancer Screening - Pap Test	Diabetes Management - Hemoglobin A1c Test	Lack of Prenatal Care

Access to Primary Care

This indicator reports the number of primary care physicians per 100,000 population. Doctors classified as "primary care physicians" by the AMA include: General Family Medicine MDs and DOs, General Practice MDs and DOs, General Internal Medicine MDs and General Pediatrics MDs. Physicians age 75 and over and physicians practicing sub-specialties within the listed specialties are excluded. This indicator is relevant because a shortage of health professionals contributes to access and health status issues.

Report Area	Total Population, 2012	Primary Care Physicians, 2012	Primary Care Physicians, Rate per 100,000 Pop.
Lauderdale County, MS	80,220	81	100.97
Mississippi	2,984,926	1,570	52.6
United States	313,914,040	233,862	74.5

Primary Care Physicians, Rate per 100,000 Pop.



■ Lauderdale County, MS (100.97)

■ Mississippi (52.6)

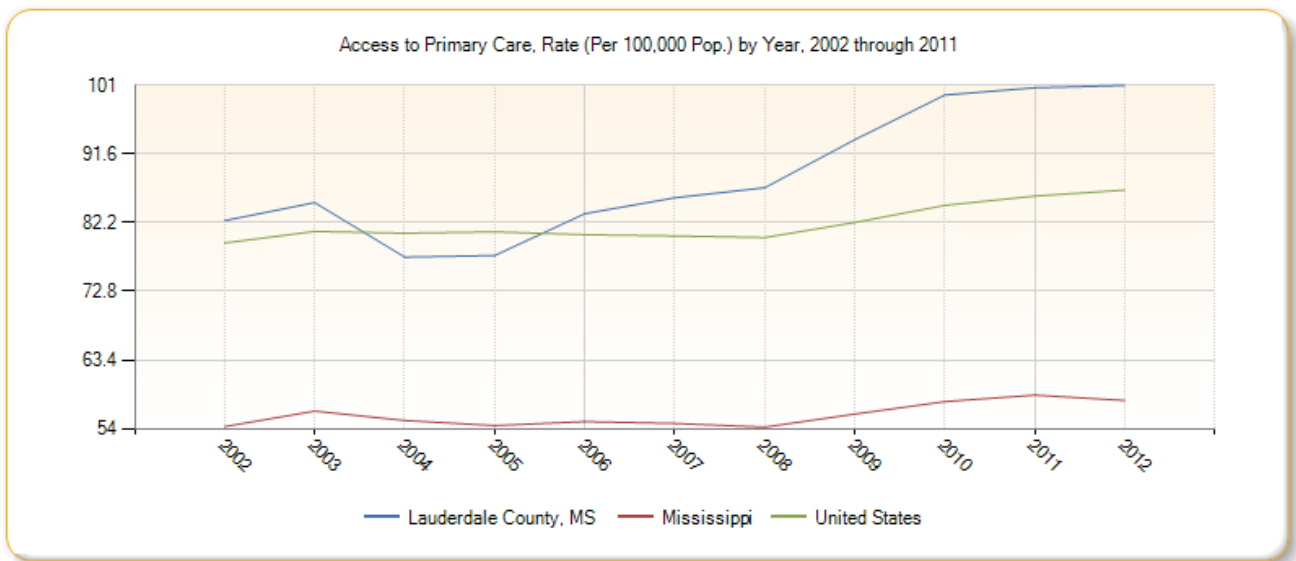
■ United States (74.5)

Note: indicator is compared with the state average. Data Source: US Department of Health & Human Services, HRSA, [Area Health Resource File](#). 2012 Source geography: County

Access to Primary Care, Rate (Per 100,000 Pop.) by Year, 2002 through 2011

This indicator reports the rate of primary care physicians per 100,000 population by year. This figure represents all primary care physicians practicing patient care, including hospital residents. In counties with teaching hospitals, this figure may differ from the rate reported above.

Report Area	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Lauderdale County, MS	82.47	84.94	77.47	77.7	83.42	85.6	86.98	93.55	99.67	100.65	100.97
Mississippi	54.29	56.4	55.12	54.43	54.97	54.71	54.21	56	57.7	58.59	57.86
United States	79.41	80.99	80.76	80.94	80.54	80.38	80.16	82.22	84.57	85.83	86.66



Cancer Screening - Mammogram

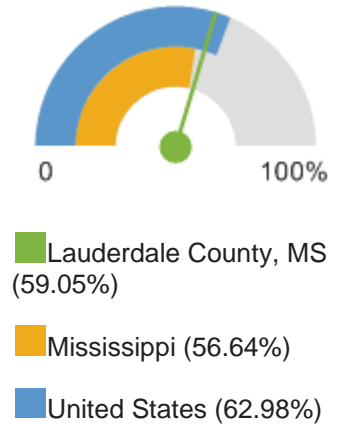
This indicator reports the percentage of female Medicare enrollees, age 67-69 or older, who have received one or more mammograms in the past two years. This indicator is relevant because engaging in preventive behaviors allows for early detection and treatment of health problems. This indicator can also highlight a lack of access to preventive care, a lack of health knowledge, insufficient provider outreach, and/or social barriers preventing utilization of services.

Report Area	Total Medicare Enrollees	Female Medicare Enrollees Age 67-69	Female Medicare Enrollees with Mammogram in Past 2 Years	Percent Female Medicare Enrollees with Mammogram in Past 2 Year
Lauderdale County, MS	9,730	840	495	59.05% ^s
Mississippi	321,469	29,096	16,478	56.64% ^s
United States	53,131,712	4,402,782	2,772,990	62.98% ^s

Note: This indicator is compared with the state average.

Data Source: Dartmouth College Institute for Health Policy & Clinical Practice, [Dartmouth Atlas of Health Care](#). Mammogram (Past 2 Years), Percent of Female Medicare Enrollees, Age 67-69 by County, DA 2012 Source geography: County

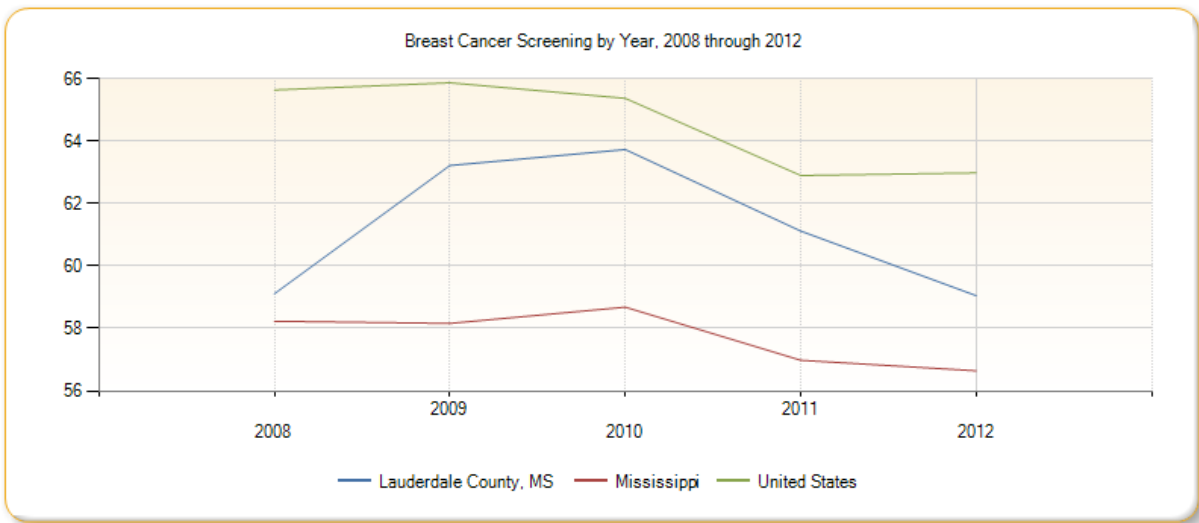
Percent Female Medicare Enrollees with Mammogram in Past 2 Year



Breast Cancer Screening by Year, 2008 through 2012

Percent of Female Medicare Beneficiaries Age 67-69 with Mammogram in Past 2 Years

Report Area	2008	2009	2010	2011	2012
Lauderdale County, MS	59.11	63.22	63.73	61.12	59.05
Mississippi	58.23	58.16	58.68	56.98	56.64
United States	65.64	65.87	65.37	62.9	62.98

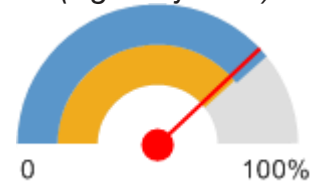


Cancer Screening - Pap Test

This indicator reports the percentage of women aged 18 and older who self-report that they have had a Pap test in the past three years. This indicator is relevant because engaging in preventive behaviors allows for early detection and treatment of health problems. This indicator can also highlight a lack of access to preventive care, a lack of health knowledge, insufficient provider outreach, and/or social barriers preventing utilization of services.

Report Area	Female Population Age 18+	Estimated Number with Regular Pap Test	Crude Percentage	Age-Adjusted Percentage
Lauderdale County, MS	35,455	26,662	75.2%	76.1%
Mississippi	1,376,159	1,056,890	76.8%	78.1%
United States	176,847,182	137,191,142	77.58%	78.48%

Percent Adults Females Age 18 with Regular Pap Test (Age-Adjusted)



- Lauderdale County, MS (76.1%)
- Mississippi (78.1%)
- United States (78.48%)

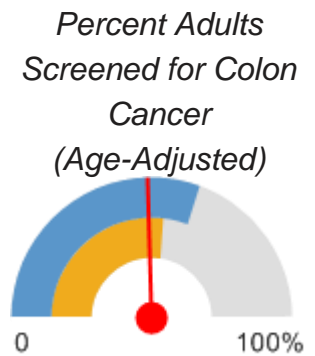
Note: This indicator is compared with the state average. Data breakout by demographic groups are not available.

Data Source: Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#). 2006-2012 Accessed via the [Health Indicators Warehouse](#). Source geography: County

Cancer Screening - Sigmoidoscopy or Colonoscopy

This indicator reports the percentage of adults 50 and older who self-report that they have ever had a sigmoidoscopy or colonoscopy. This indicator is relevant because engaging in preventive behaviors allows for early detection and treatment of health problems. This indicator can also highlight a lack of access to preventive care, a lack of health knowledge, insufficient provider outreach, and/or social barriers preventing utilization of services.

Report Area	Total Population Age 50+	Estimated Population Ever Screened for Colon Cancer	Crude Percentage	Age-Adjusted Percentage
Lauderdale County, MS	20,616	11,174	54.2%	49.3%
Mississippi	715,991	406,683	56.8%	54%
United States	75,116,406	48,549,269	64.63%	61.34%



- Lauderdale County, MS (49.3%)
- Mississippi (54%)
- United States (61.34%)

Note: This indicator is compared with the state average. Data breakout by demographic groups are not available.

Data Source: Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#). 2006-2012 Accessed via the [Health Indicators Warehouse](#). Source geography: County

Dental Care Utilization

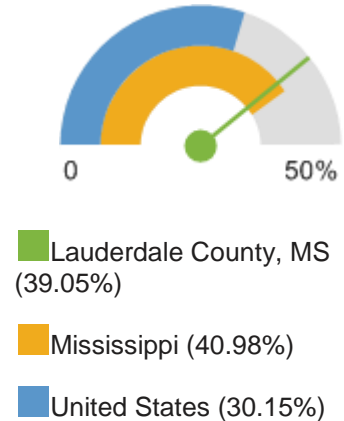
This indicator reports the percentage of adults aged 18 and older who self-report that they have not visited a dentist, dental hygienist or dental clinic within the past year. This indicator is relevant because engaging in preventive behaviors decreases the likelihood of developing future health problems. This indicator can also highlight a lack of access to preventive care, a lack of health knowledge, insufficient provider outreach, and/or social barriers preventing utilization of services.

Report Area	Total Population (Age 18+)	Total Adults Without Recent Dental Exam	Percent Adults with No Dental Exam
Lauderdale County, MS	59,442	23,211	39.05%
Mississippi	2,199,741	901,562	40.98%
United States	235,375,690	70,965,788	30.15%

Note: This indicator is compared with the state average.

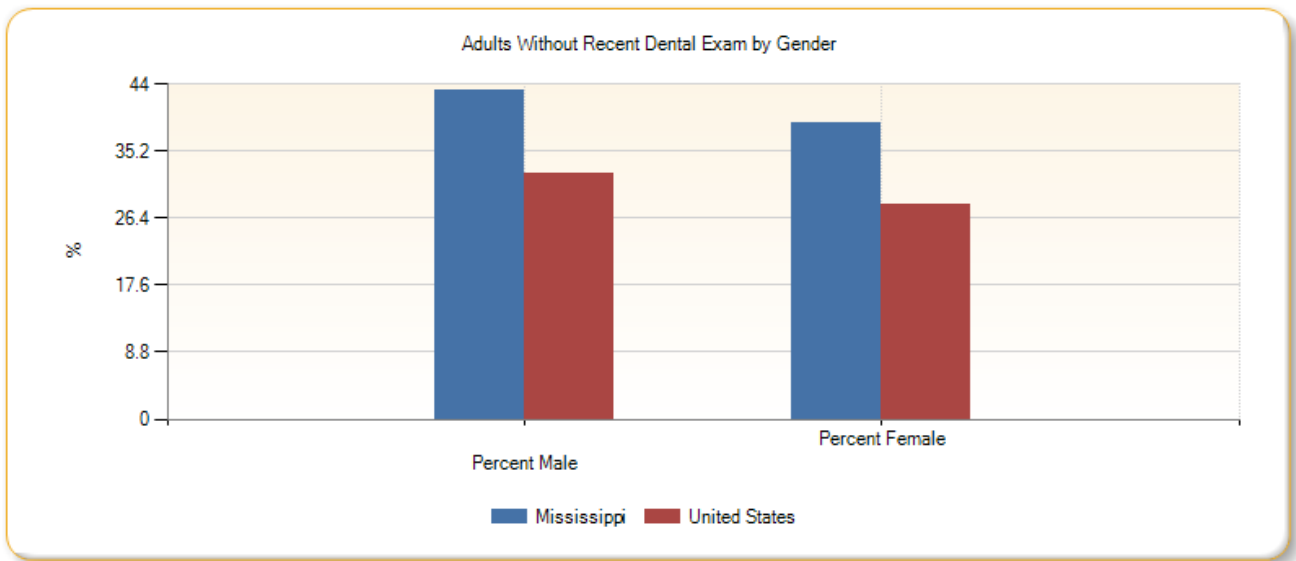
Data Source: Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#) . 2006-2010 Additional data analysis by [CARES](#). Source geography: County

Percent Adults Without Recent Dental Exam



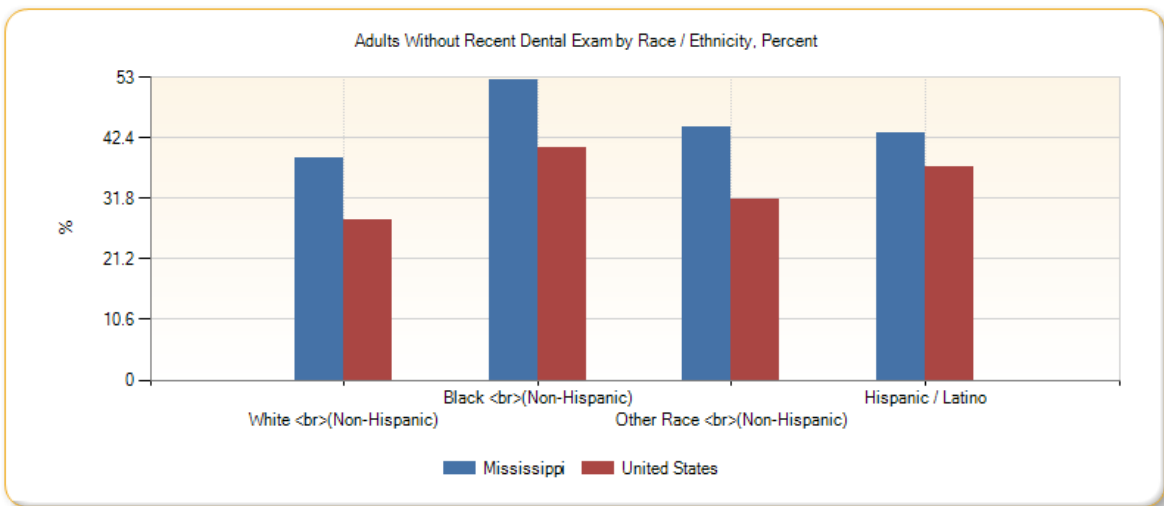
Adults Without Recent Dental Exam by Gender

Report Area	Total Male	Total Female	Percent Male	Percent Female
Mississippi	447,603	448,715	43.16%	39%
United States	36,311,042	34,083,921	32.3%	28.12%



Adults Without Recent Dental Exam by Race / Ethnicity, Percent

Report Area	White (Non-Hispanic)	Black (Non-Hispanic)	Other Race (Non-Hispanic)	Hispanic / Latino
Mississippi	38.77%	52.55%	44.21%	43.13%
United States	28.08%	40.65%	31.75%	37.39%

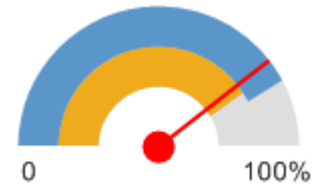


Diabetes Management - Hemoglobin A1c Test

This indicator reports the percentage of diabetic Medicare patients who have had a hemoglobin A1c (hA1c) test, a blood test which measures blood sugar levels, administered by a health care professional in the past year. In the report area, 1,068 Medicare enrollees with diabetes have had an annual exam out of 1,351 Medicare enrollees in the report area with diabetes, or 79.05%. This indicator is relevant because engaging in preventive behaviors allows for early detection and treatment of health problems. This indicator can also highlight a lack of access to preventive care, a lack of health knowledge, insufficient provider outreach, and/or social barriers preventing utilization of services.

Report Area	Total Medicare Enrollees	Medicare Enrollees with Diabetes	Medicare Enrollees with Diabetes with Annual Exam	Percent Medicare Enrollees with Diabetes with Annual Exam
Lauderdale County, MS	9,730	1,351	1,068	79.05%
Mississippi	321,469	48,371	39,770	82.22%
United States	53,131,712	6,517,150	5,511,632	84.57%

Percent Medicare Enrollees with Diabetes with Annual Exam



- Lauderdale County, MS (79.05%)
- Mississippi (82.22%)
- United States (84.57%)

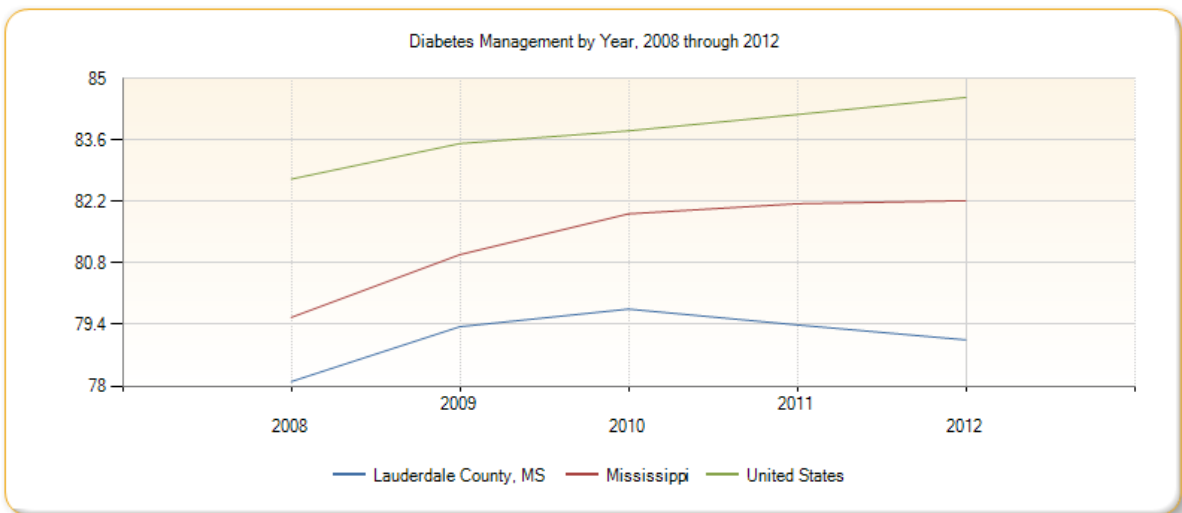
Note: This indicator is compared with the state average.

Data Source: Dartmouth College Institute for Health Policy & Clinical Practice, [Dartmouth Atlas of Health Care](#).2012. Source geography: County

Diabetes Management by Year, 2008 through 2012

Percent of Medicare Beneficiaries with Diabetes with Annual Hemoglobin A1c Test

Report Area	2008	2009	2010	2011	2012
Lauderdale County, MS	78.1	79.35	79.75	79.39	79.05
Mississippi	79.56	80.99	81.92	82.15	82.22
United States	82.71	83.52	83.81	84.18	84.57

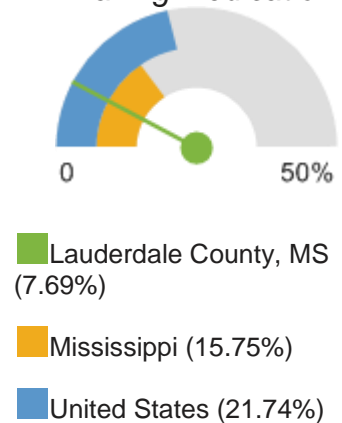


High Blood Pressure Management

In the report area, 7.69% of adults, or 4,573, self-reported that they are not taking medication for their high blood pressure according to the CDC's Behavioural Risk Factor Surveillance System (2006-2010). This indicator is relevant because engaging in preventive behaviors decreases the likelihood of developing future health problems. When considered with other indicators of poor health, this indicator can also highlight a lack of access to preventive care, a lack of health knowledge, insufficient provider outreach, and/or social barriers preventing utilization of services.

Report Area	Total Population (Age 18+)	Total Adults Not Taking Blood Pressure Medication (When Needed)	Percent Adults Not Taking Medication
Lauderdale County, MS	59,442	4,573	7.69%
Mississippi	2,199,741	346,512	15.75%
United States	235,375,690	51,175,402	21.74%

Percent Adults with High Blood Pressure Not Taking Medication

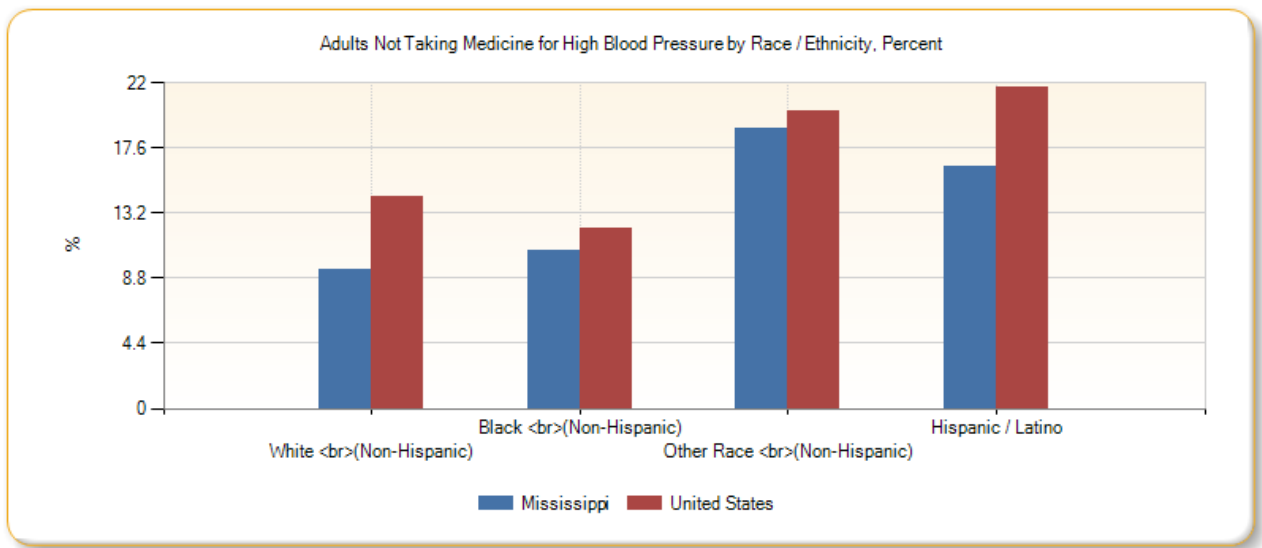


Note: This indicator is compared with the state average.

Data Source: Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#).2006-2010 Additional data analysis by [CARES](#). Source geography: County

Adults Not Taking Medicine for High Blood Pressure by Race / Ethnicity, Percent

Report Area	White (Non-Hispanic)	Black (Non-Hispanic)	Other Race (Non-Hispanic)	Hispanic / Latino
Mississippi	9.33%	10.69%	18.89%	16.33%
United States	14.31%	12.19%	20.1%	21.72%



Lack of a Consistent Source of Primary Care

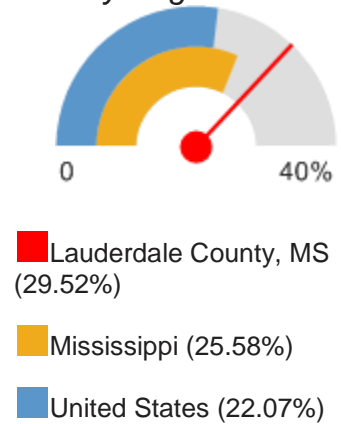
This indicator reports the percentage of adults aged 18 and older who self-report that they do not have at least one person who they think of as their personal doctor or health care provider. This indicator is relevant because access to regular primary care is important to preventing major health issues and emergency department visits.

Report Area	Survey Population (Adults Age 18+)	Total Adults Without Any Regular Doctor	Percent Adults Without Any Regular Doctor
Lauderdale County, MS	52,114	15,387	29.52%
Mississippi	2,206,813	564,473	25.58%
United States	236,884,668	52,290,932	22.07%

Note: This indicator is compared with the state average.

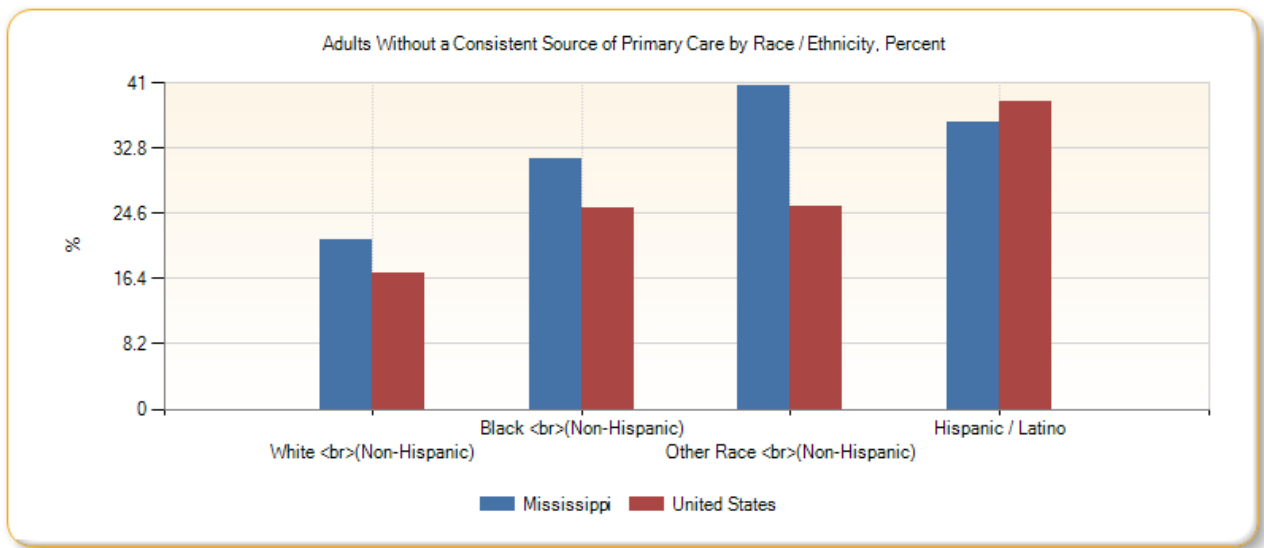
Data Source: Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#) 2011-2012 Additional data analysis by [CARES](#). Source geography: County

Percent Adults Without Any Regular Doctor



Adults Without a Consistent Source of Primary Care by Race / Ethnicity, Percent

Report Area	White (Non-Hispanic)	Black (Non-Hispanic)	Other Race (Non-Hispanic)	Hispanic / Latino
Mississippi	21.3%	31.38%	40.73%	36.05%
United States	17.15%	25.28%	25.47%	38.58%



Health Outcomes

Measuring morbidity and mortality rates allows assessing linkages between social determinants of health and outcomes. By comparing, for example, the prevalence of certain chronic diseases to indicators in other categories (e.g., poor diet and exercise) with outcomes (e.g., high rates of obesity and diabetes), various causal relationships may emerge, allowing a better understanding of how certain community health needs may be addressed.

Data Indicators: Health Outcomes

Asthma Prevalence	Heart Disease (Medicare Population)	Mortality - Ischaemic Heart Disease
Cancer Incidence - Breast	High Blood Pressure (Adult)	Mortality - Lung Disease
Cancer Incidence - Cervical	High Blood Pressure (Medicare Population)	Mortality - Motor Vehicle Accident
Cancer Incidence - Colon and Rectum	High Cholesterol (Adult)	Mortality - Stroke
Cancer Incidence - Lung	High Cholesterol (Medicare Population)	Mortality - Suicide
Cancer Incidence - Prostate	HIV Prevalence	Mortality - Unintentional Injury
Chlamydia Incidence	Infant Mortality	Obesity
Diabetes (Adult)	Low Birth Weight	Overweight
Diabetes (Medicare Population)	Mortality - Cancer	Poor Dental Health
Gonorrhoea Incidence	Mortality - Heart Disease	Poor General Health
Heart Disease (Adult)	Mortality - Homicide	

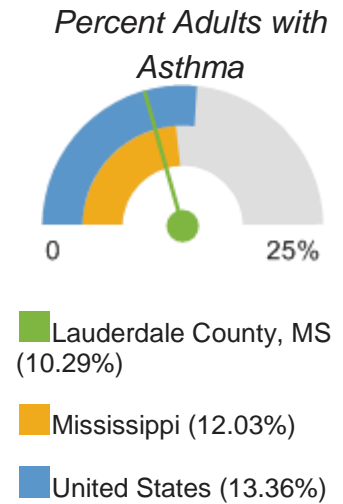
Asthma Prevalence

This indicator reports the percentage of adults aged 18 and older who self-report that they have ever been told by a doctor, nurse, or other health professional that they had asthma. This indicator is relevant because asthma is a prevalent problem in the U.S. that is often exacerbated by poor environmental conditions.

Report Area	Survey Population (Adults Age 18+)	Total Adults with Asthma	Percent Adults with Asthma
Lauderdale County, MS	51,439	5,294	10.29%
Mississippi	2,201,928	264,933	12.03%
United States	237,197,465	31,697,608	13.36%

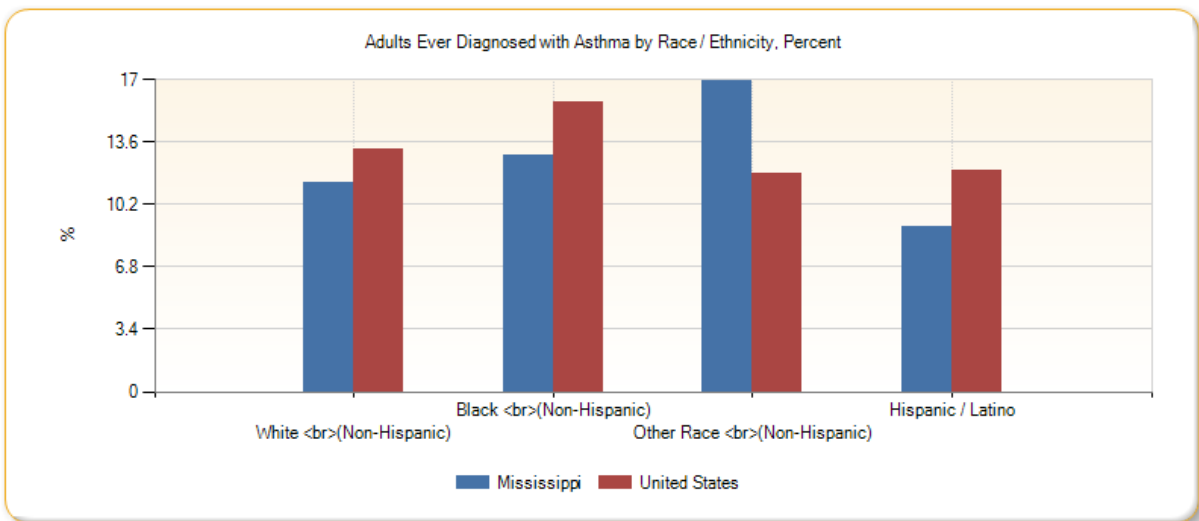
Note: This indicator is compared with the state average.

Data Source: Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#). Additional data analysis by [CARES](#). Source geography: County



Adults Ever Diagnosed with Asthma by Race / Ethnicity, Percent

Report Area	White (Non-Hispanic)	Black (Non-Hispanic)	Other Race (Non-Hispanic)	Hispanic / Latino
Mississippi	11.41%	12.87%	16.93%	8.98%
United States	13.19%	15.75%	11.9%	12.02%

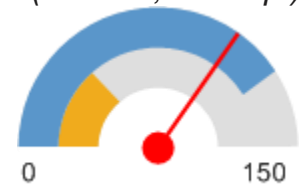


Cancer Incidence - Breast

This indicator reports the age adjusted incidence rate (cases per 100,000 population per year) of females with breast cancer adjusted to 2000 U.S. standard population age groups (Under Age 1, 1-4, 5-9, ..., 80-84, 85 and older). This indicator is relevant because cancer is a leading cause of death and it is important to identify cancers separately to better target interventions.

Report Area	Female Population	Average New Cases per Year	Annual Incidence Rate (Per 100,000 Pop.)
Lauderdale County, MS	41,437	50	104.3
Mississippi	1,522,128	1,953	116
United States	155,863,552	216,052	122.7
HP 2020 Target			<= 40.9

Annual Breast Cancer Incidence Rate (Per 100,000 Pop.)



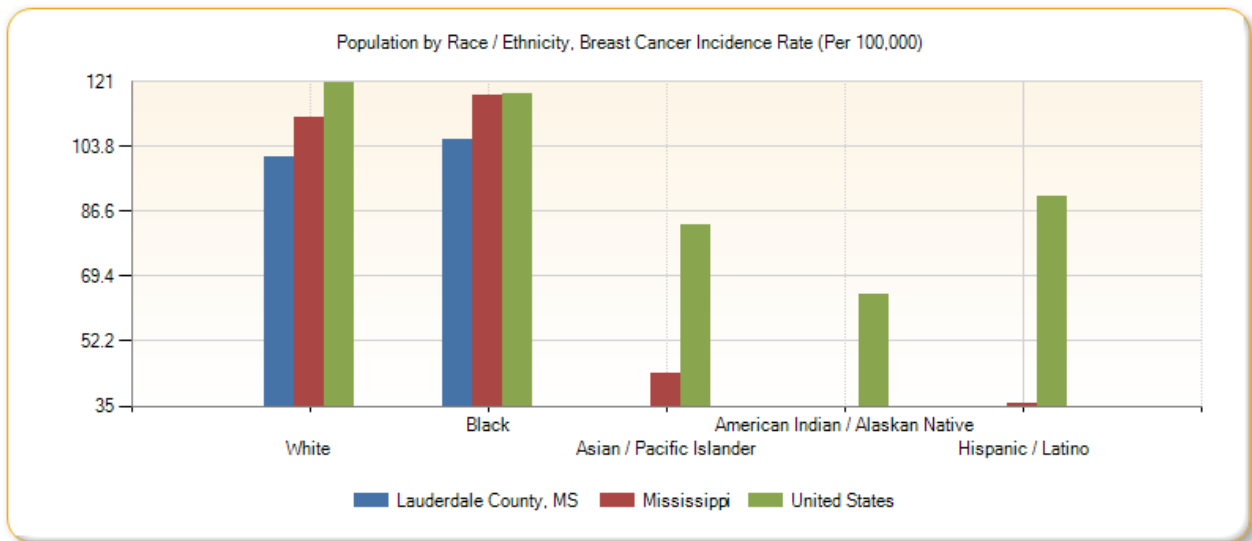
- Lauderdale County, MS (104.3)
- HP 2020 Target (40.9)
- United States (122.7)

Note: This indicator is compared with the Healthy People 2020 Target.

Data Source: National Institutes of Health, National Cancer Institute, [Surveillance, Epidemiology, and End Results Program](#). STCANPRO 2011 [State Cancer Profiles](#). Source geography: County

Population by Race / Ethnicity, Breast Cancer Incidence Rate (Per 100,000)

Report Area	White	Black	Asian / Pacific Islander	American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	101.1	105.7	suppressed	suppressed	no data
Mississippi	111.5	117.3	43.6	no data	35.1
United States	120.7	117.9	83	64.4	90.5



Population by Race / Ethnicity, New Breast Cancer Incidence (Count)

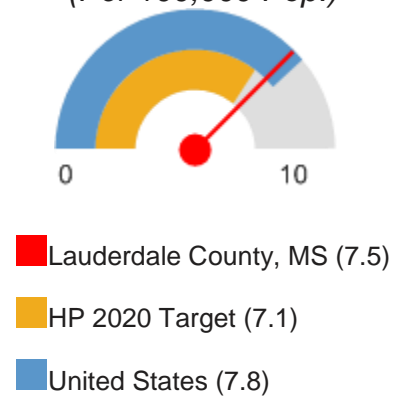
Report Area	White	Black	Asian / Pacific Islander	American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	32	17	no data	no data	no data
Mississippi	1,271	610	6	no data	7
United States	174,757	22,918	6,607	949	14,396

Cancer Incidence - Cervical

This indicator reports the age adjusted incidence rate (cases per 100,000 population per year) of females with cervical cancer adjusted to 2000 U.S. standard population age groups (Under age 1, 1-4, 5-9, ..., 80-84, 85 and older). This indicator is relevant because cancer is a leading cause of death and it is important to identify cancers separately to better target interventions.

Report Area	Female Population	Average New Cases per Year	Annual Incidence Rate (Per 100,000 Pop.)
Lauderdale County, MS	41,437	3	7.5
Mississippi	1,522,128	149	9.7
United States	155,863,552	12,530	7.8
HP 2020 Target			<= 7.1

Annual Cervical Cancer Incidence Rate (Per 100,000 Pop.)

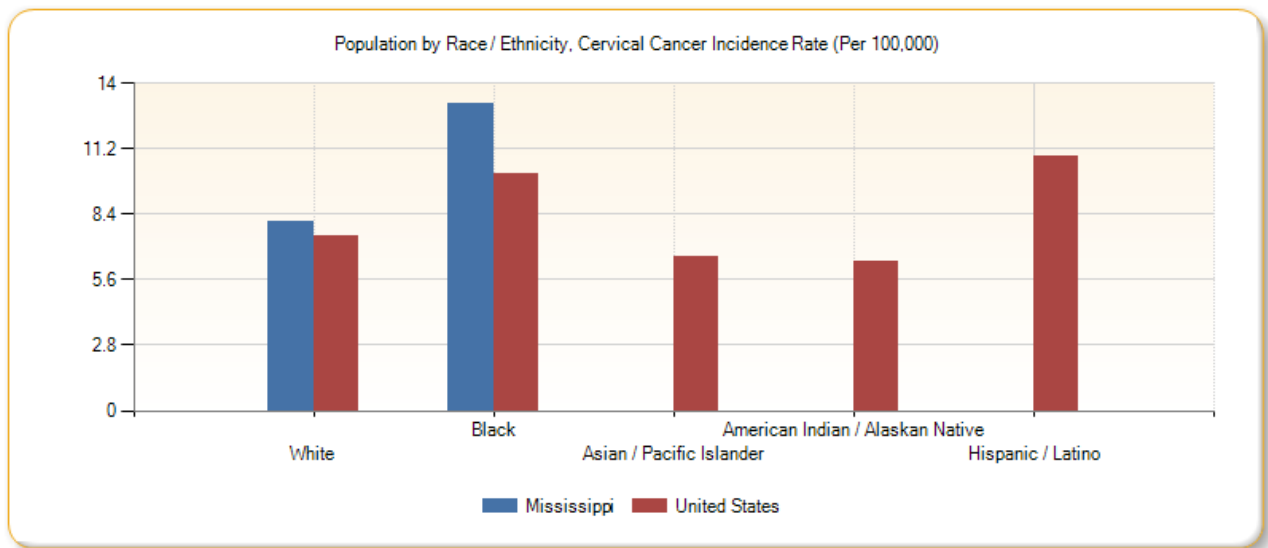


Note: This indicator is compared with the Healthy People 2020 Target.

Data Source: National Institutes of Health, National Cancer Institute, [Surveillance, Epidemiology, and End Results Program](#). [State Cancer Profiles](#). Source geography: County

Population by Race / Ethnicity, Cervical Cancer Incidence Rate (Per 100,000)

Report Area	White	Black	Asian / Pacific Islander	American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	no data	no data	suppressed	suppressed	no data
Mississippi	8.1	13.1	no data	no data	no data
United States	7.5	10.1	6.6	6.4	10.9



Population by Race / Ethnicity, New Cervical Cancer Incidence (Count)

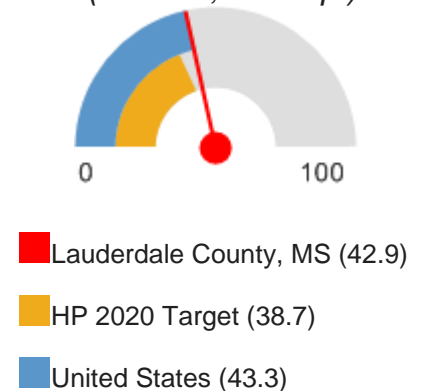
Report Area	White	Black	Asian / Pacific Islander	American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	no data	no data	no data	no data	no data
Mississippi	78	68	no data	no data	no data
United States	9,522	1,998	538	108	2,006

Cancer Incidence - Colon and Rectum

This indicator reports the age adjusted incidence rate (cases per 100,000 population per year) of colon and rectum cancer adjusted to 2000 U.S. standard population age groups (Under age 1, 1-4, 5-9, ..., 80-84, 85 and older). This indicator is relevant because cancer is a leading cause of death and it is important to identify cancers separately to better target interventions.

Report Area	Total Population	Average New Cases per Year	Annual Incidence Rate (Per 100,000 Pop.)
Lauderdale County, MS	79,882	39	42.9
Mississippi	2,956,700	1,593	51.2
United States	306,603,776	142,173	43.3
HP 2020 Target			<= 38.7

Annual Colon and Rectum Cancer Incidence Rate (Per 100,000 Pop.)

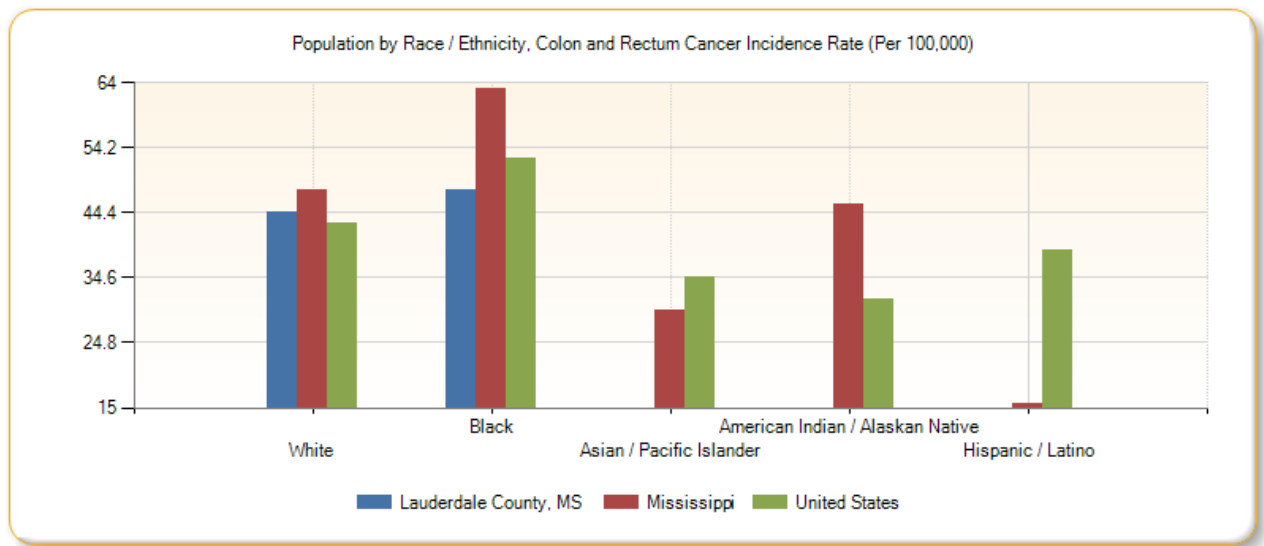


Note: This indicator is compared with the Healthy People 2020 Target.

Data Source: National Institutes of Health, National Cancer Institute, [Surveillance, Epidemiology, and End Results Program](#). [State Cancer Profiles](#). Source geography: County

Population by Race / Ethnicity, Colon and Rectum Cancer Incidence Rate (Per 100,000)

Report Area	White	Black	Asian / Pacific Islander	American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	44.5	47.8	suppressed	suppressed	no data
Mississippi	47.7	63.1	29.6	45.7	15.6
United States	42.7	52.5	34.7	31.3	38.7



Population by Race / Ethnicity, New Colon and Rectum Cancer Incidence (Count)

Report Area	White	Black	Asian / Pacific Islander	American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	28	13	no data	no data	no data
Mississippi	1,035	540	6	6	4
United States	117,775	16,767	4,406	754	9,768

Cancer Incidence - Lung

This indicator reports the age adjusted incidence rate (cases per 100,000 population per year) of colon and rectum cancer adjusted to 2000 U.S. standard population age groups (Under age 1, 1-4, 5-9, ..., 80-84, 85 and older). This indicator is relevant because cancer is a leading cause of death and it is important to identify cancers separately to better target interventions.

Report Area	Total Population	Average New Cases per Year	Annual Incidence Rate (Per 100,000 Pop.)
Lauderdale County, MS	79,882	66	73.8
Mississippi	2,956,700	2,491	79.4
United States	306,603,776	212,768	64.9

Note: This indicator is compared with the state average.

Data Source: National Institutes of Health, National Cancer Institute, [Surveillance](#).

[Epidemiology, and End Results Program](#). [State Cancer Profiles](#). Source geography: County

Annual Lung Cancer Incidence Rate (Per 100,000 Pop.)



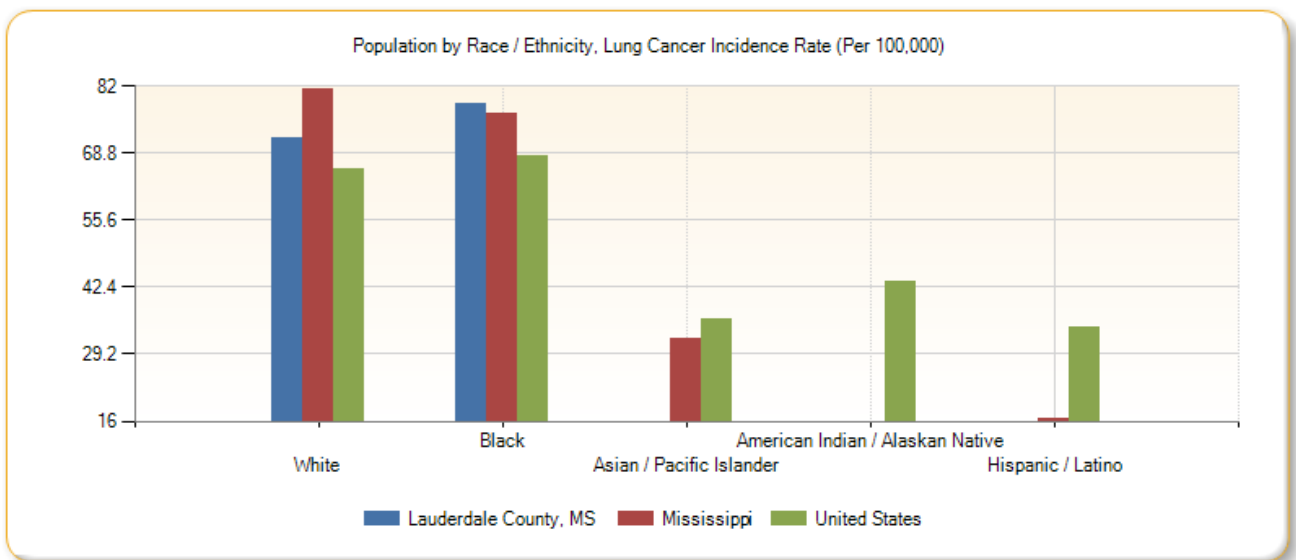
■ Lauderdale County, MS (73.8)

■ Mississippi (79.4)

■ United States (64.9)

Population by Race / Ethnicity, Lung Cancer Incidence Rate (Per 100,000)

Report Area	White	Black	Asian / Pacific Islander	American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	71.7	78.6	suppressed	suppressed	no data
Mississippi	81.3	76.6	32.1	no data	16.5
United States	65.6	68.2	36.2	43.4	34.6



Population by Race / Ethnicity, New Lung Cancer Incidence (Count)

Report Area	White	Black	Asian / Pacific Islander	American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	44	21	no data	no data	no data
Mississippi	1,803	653	5	no data	5
United States	180,739	21,506	4,336	964	7,983

Cancer Incidence - Prostate

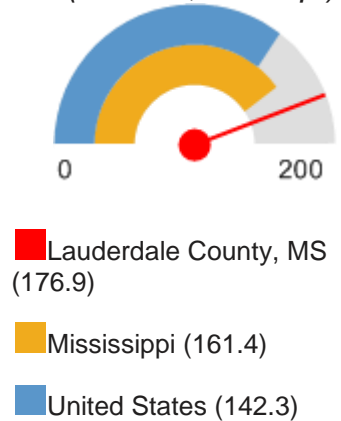
This indicator reports the age adjusted incidence rate (cases per 100,000 population per year) of males with prostate cancer adjusted to 2000 U.S. standard population age groups (Under age 1, 1-4, 5-9, ..., 80-84, 85 and older). This indicator is relevant because cancer is a leading cause of death and it is important to identify cancers separately to better target interventions.

Report Area	Male Population	Average New Cases per Year	Annual Incidence Rate (Per 100,000 Pop.)
Lauderdale County, MS	38,445	73	176.9
Mississippi	1,434,572	2,335	161.4
United States	150,740,224	220,000	142.3

Note: This indicator is compared with the state average.

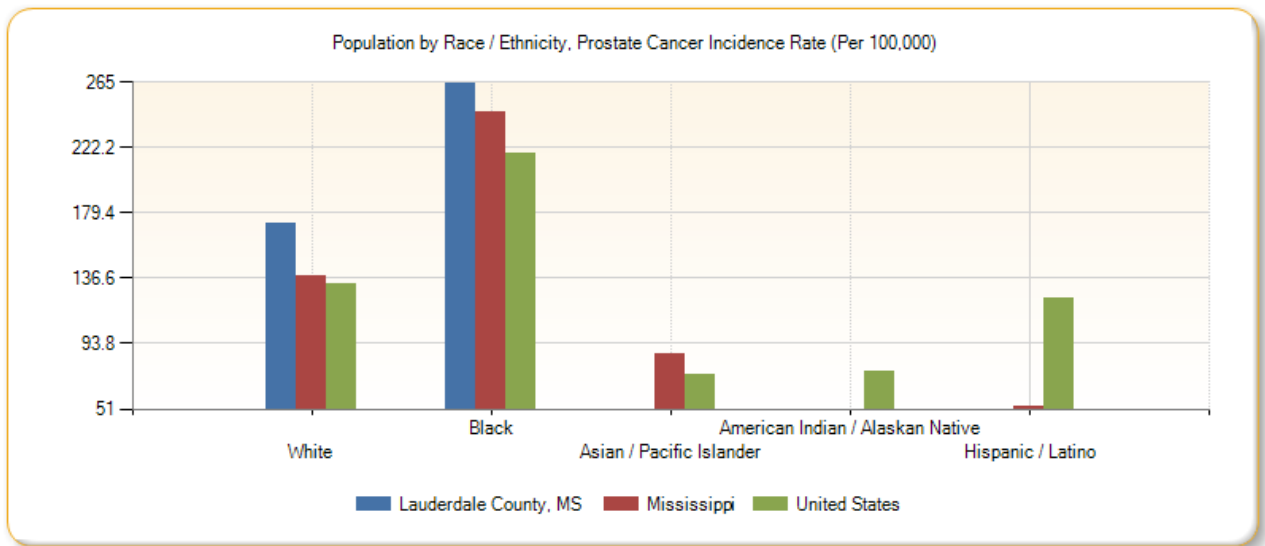
Data Source: National Institutes of Health, National Cancer Institute, [Surveillance, Epidemiology, and End Results Program](#). [State Cancer Profiles](#). Source geography: County

Annual Prostate Cancer Incidence Rate (Per 100,000 Pop.)



Population by Race / Ethnicity, Prostate Cancer Incidence Rate (Per 100,000)

Report Area	White	Black	Asian / Pacific Islander	American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	172.7	264.2	suppressed	suppressed	no data
Mississippi	137.6	245.5	86.8	no data	51.5
United States	133.3	217.9	73.8	75.8	123.6



Population by Race / Ethnicity, New Prostate Cancer Incidence (Count)

Report Area	White	Black	Asian / Pacific Islander	American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	49	29	no data	no data	no data
Mississippi	1,422	886	5	no data	7
United States	171,991	30,367	4,018	778	13,248

Chlamydia Incidence

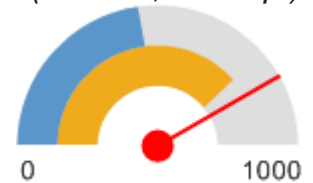
This indicator reports incidence rate of chlamydia cases per 100,000 population. This indicator is relevant because it is a measure of poor health status and indicates the prevalence of unsafe sex practices.

Report Area	Total Population	Total Chlamydia Infections	Chlamydia Infection Rate (Per 100,000 Pop.)
Lauderdale County, MS	80,475	671	833.8
Mississippi	2,978,512	23,054	774.01
United States	311,577,841	1,422,976	456.7

Note: This indicator is compared with the state average.

Data Source: Centers for Disease Control and Prevention, [National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention](#). Source geography: County

Chlamydia Infection Rate
(Per 100,000 Pop.)



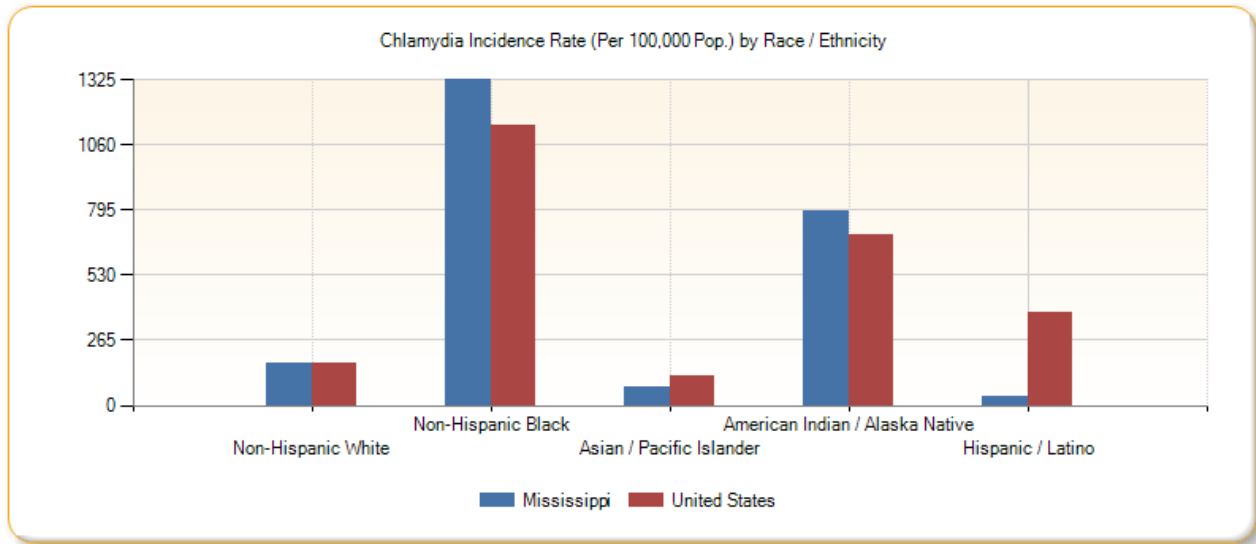
■ Lauderdale County, MS (833.8)

■ Mississippi (774.01)

■ United States (456.7)

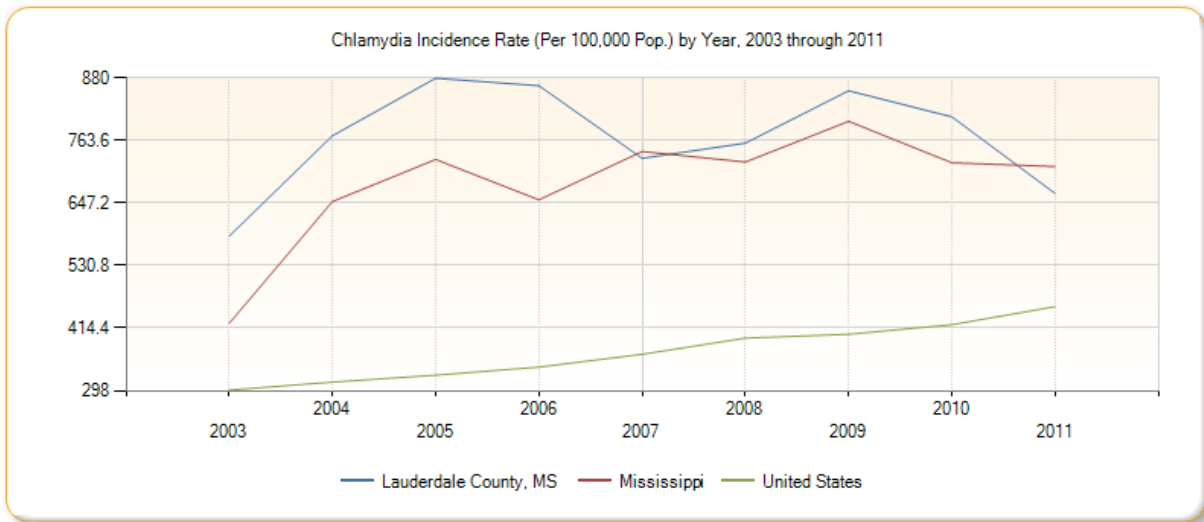
Chlamydia Incidence Rate (Per 100,000 Pop.) by Race / Ethnicity

Report Area	Non-Hispanic White	Non-Hispanic Black	Asian / Pacific Islander	American Indian / Alaska Native	Hispanic / Latino
Mississippi	168.95	1,324.59	72.95	792.41	37.37
United States	171.72	1,140.79	118.8	696.2	377.52



Chlamydia Incidence Rate (Per 100,000 Pop.) by Year, 2003 through 2011

Report Area	2003	2004	2005	2006	2007	2008	2009	2010	2011
Lauderdale County, MS	585.5	772.1	879.3	865.4	730.2	758.5	855.9	807.4	664.8
Mississippi	423.18	649.78	728.08	652.87	742.98	723.23	799.09	721.77	714.99
United States	298.78	313.66	326.59	341.74	365.5	395.54	402.72	420.56	454.12

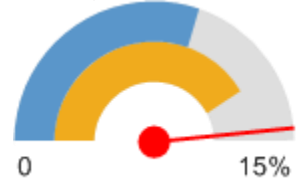


Diabetes (Adult)

This indicator reports the percentage of adults aged 20 and older who have ever been told by a doctor that they have diabetes. This indicator is relevant because diabetes is a prevalent problem in the U.S.; it may indicate an unhealthy lifestyle and puts individuals at risk for further health issues.

Report Area	Total Population Age 20+	Population with Diagnosed Diabetes	Population with Diagnosed Diabetes, Crude Rate	Population with Diagnosed Diabetes, Age-Adjusted Rate
Lauderdale County, MS	58,063	9,232	15.9	14.5
Mississippi	2,138,502	288,397	13.49	12.52
United States	231,492,313	22,563,124	9.75	9.09

Percent Adults with Diagnosed Diabetes (Age-Adjusted)



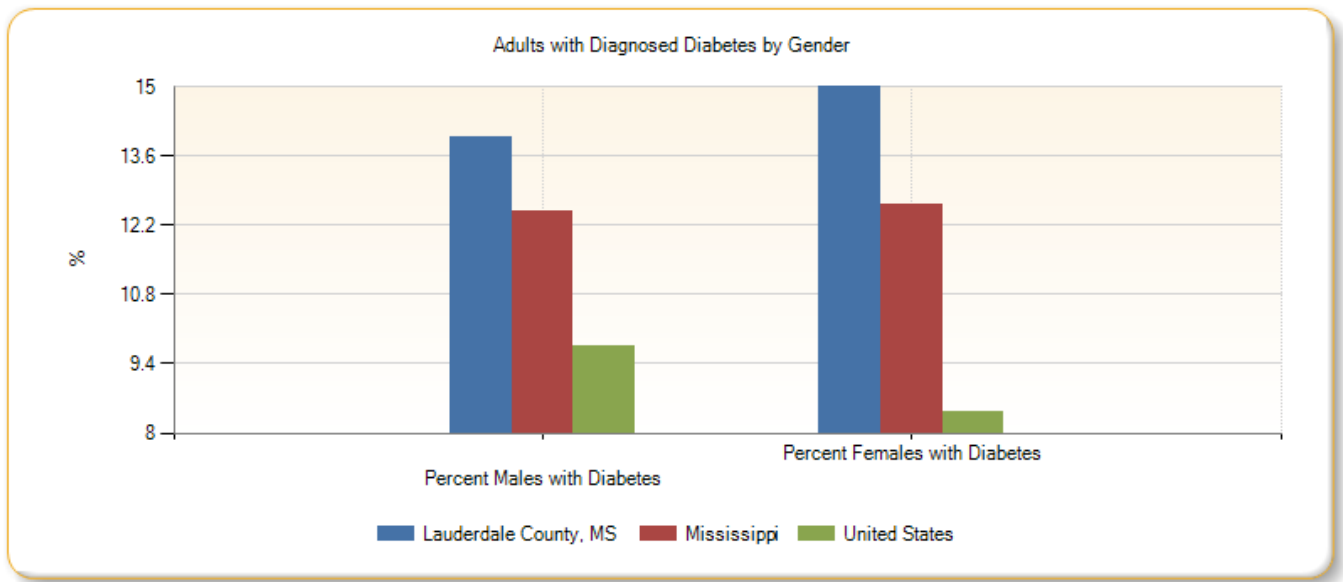
- Lauderdale County, MS (14.5%)
- Mississippi (12.52%)
- United States (9.09%)

Note: This indicator is compared with the state average.

Data Source: Centers for Disease Control and Prevention, [National Center for Chronic Disease Prevention and Health Promotion](#). Source geography: County

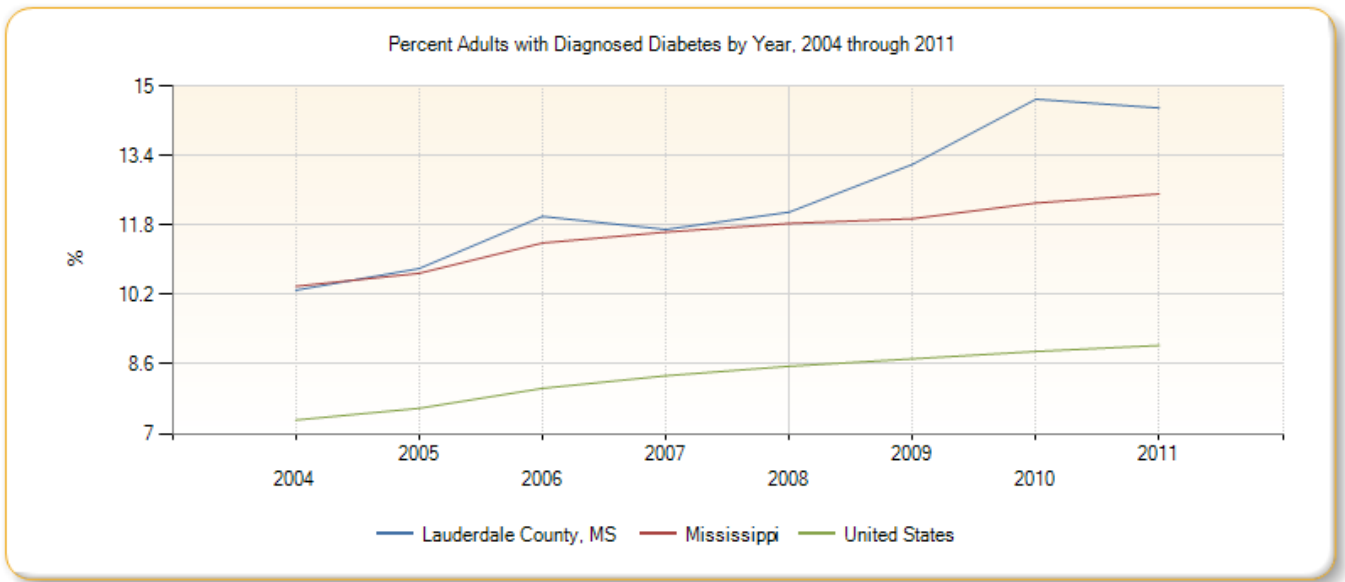
Adults with Diagnosed Diabetes by Gender

Report Area	Total Males with Diabetes	Percent Males with Diabetes	Total Females with Diabetes	Percent Females with Diabetes
Lauderdale County, MS	4,097	14%	5,135	15%
Mississippi	133,873	12.47%	154,528	12.63%
United States	11,236,989	9.75%	10,910,588	8.42%



Percent Adults with Diagnosed Diabetes by Year, 2004 through 2011

Report Area	2004	2005	2006	2007	2008	2009	2010	2011
Lauderdale County, MS	10.3%	10.8%	12%	11.7%	12.1%	13.2%	14.7%	14.5%
Mississippi	10.39%	10.69%	11.39%	11.64%	11.84%	11.95%	12.31%	12.52%
United States	7.31%	7.58%	8.04%	8.33%	8.55%	8.72%	8.89%	9.03%

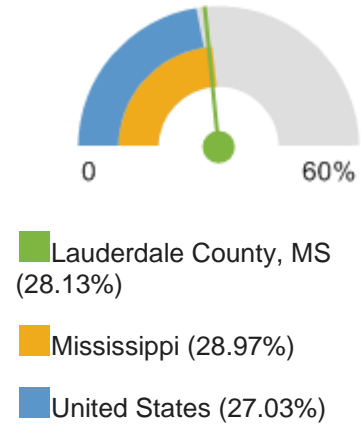


Diabetes (Medicare Population)

This indicator reports the percentage of the Medicare fee-for-service population with diabetes.

Report Area	Total Medicare Beneficiaries	Beneficiaries with Diabetes	Percent with Diabetes
Lauderdale County, MS	13,347	3,755	28.13%
Mississippi	450,177	130,416	28.97%
United States	34,126,305	9,224,278	27.03%

Percent Medicare Beneficiaries with Diabetes



Note: This indicator is compared with the state average. Data breakout by demographic groups are not available.

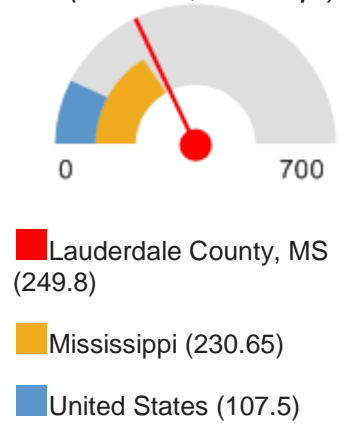
Data Source: [Centers for Medicare and Medicaid Services](#) . Source geography: County

Gonorrhea Incidence

This indicator reports incidence rate of Gonorrhea cases per 100,000 population. This indicator is relevant because it is a measure of poor health status and indicates the prevalence of unsafe sex practices.

Report Area	Total Population	Total Gonorrhea Infections	Gonorrhea Infection Rate (Per 100,000 Pop.)
Lauderdale County, MS	80,475	201	249.8
Mississippi	2,978,512	6,870	230.65
United States	311,466,046	334,826	107.5

Gonorrhea Infection Rate (Per 100,000 Pop.)

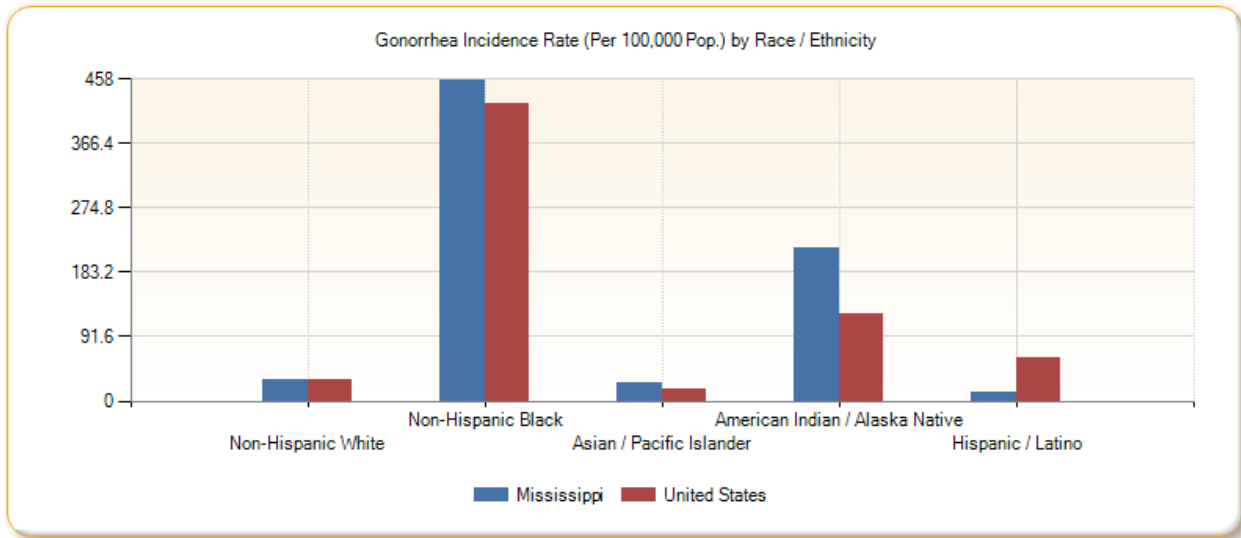


Note: This indicator is compared with the state average.

Data Source: Centers for Disease Control and Prevention, [National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention](#). Source geography: County

Gonorrhea Incidence Rate (Per 100,000 Pop.) by Race / Ethnicity

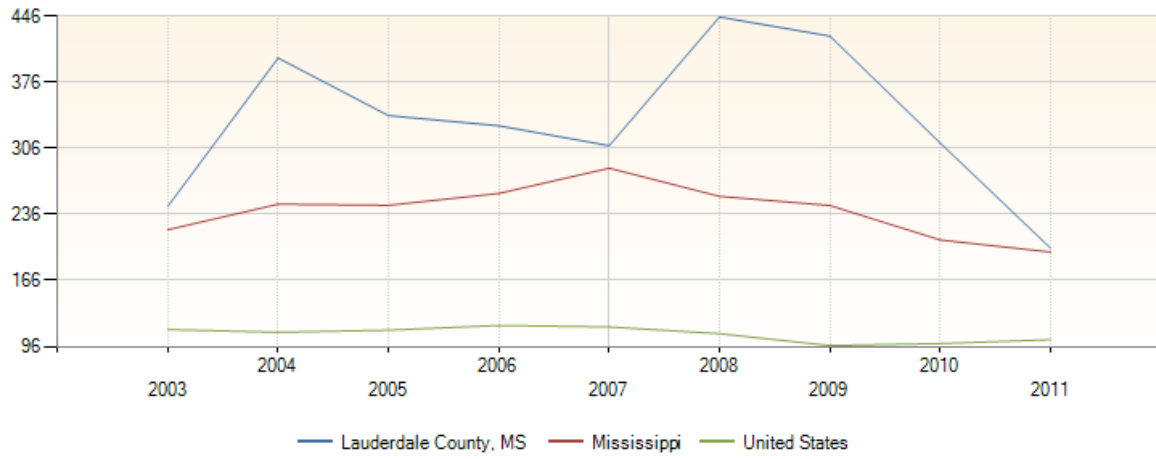
Report Area	Non-Hispanic White	Non-Hispanic Black	Asian / Pacific Islander	American Indian / Alaska Native	Hispanic / Latino
Mississippi	30.06	457.26	26.53	216.73	11.68
United States	29.7	422.05	17.82	124.21	60.7



Gonorrhea Incidence Rate (Per 100,000 Pop.) by Year, 2003 through 2011

Report Area	2003	2004	2005	2006	2007	2008	2009	2010	2011
Lauderdale County, MS	244.5	401.6	340.6	329.8	308.7	445.1	424.8	311.5	200.1
Mississippi	219.62	246.75	245.49	258.06	284.84	255.02	245.29	208.78	195.94
United States	113.82	111.02	113.17	118.23	116.63	109.46	96.96	99.08	103.09

Gonorrhea Incidence Rate (Per 100,000 Pop.) by Year, 2003 through 2011

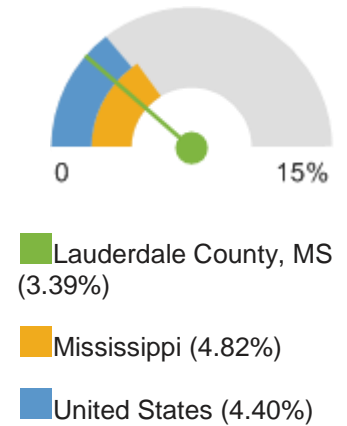


Heart Disease (Adult)

1,726, or 3.39% of adults aged 18 and older have ever been told by a doctor that they have coronary heart disease or angina. This indicator is relevant because coronary heart disease is a leading cause of death in the U.S. and is also related to high blood pressure, high cholesterol, and heart attacks.

Report Area	Survey Population (Adults Age 18+)	Total Adults with Heart Disease	Percent Adults with Heart Disease
Lauderdale County, MS	50,933	1,726	3.39%
Mississippi	2,188,588	105,597	4.82%
United States	236,406,904	10,407,185	4.40%

Percent Adults with Heart Disease

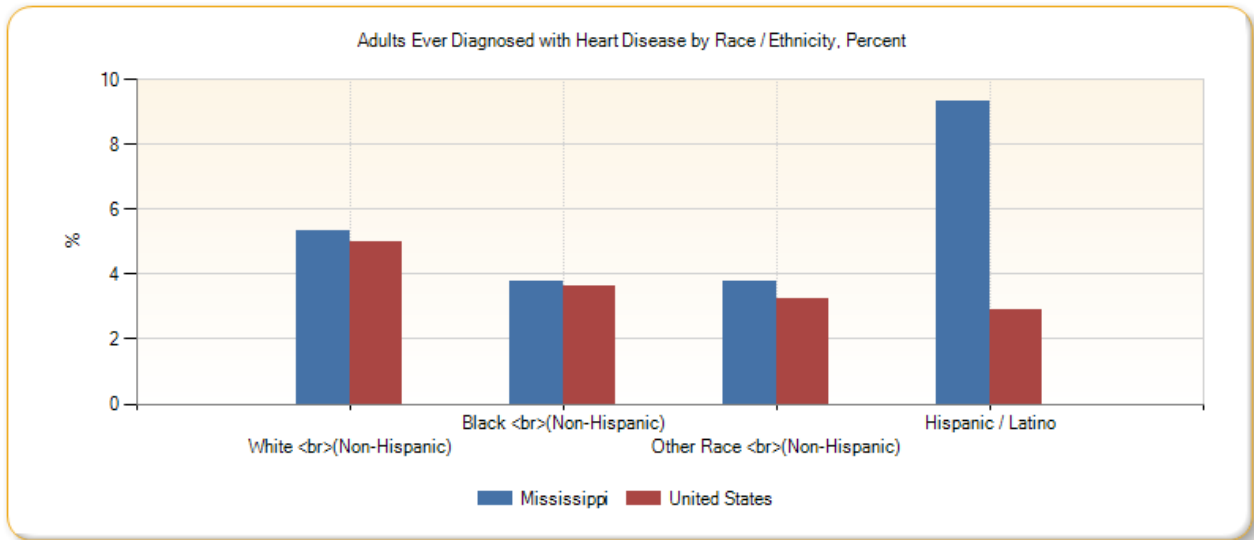


Note: This indicator is compared with the state average.

Data Source: Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#). Additional data analysis by [CARES](#). Source geography: County

Adults Ever Diagnosed with Heart Disease by Race / Ethnicity, Percent

Report Area	White (Non-Hispanic)	Black (Non-Hispanic)	Other Race (Non-Hispanic)	Hispanic / Latino
Mississippi	5.35%	3.79%	3.77%	9.31%
United States	4.99%	3.63%	3.23%	2.92%



Heart Disease (Medicare Population)

This indicator reports the percentage of the Medicare fee-for-service population with ischaemic heart disease.

Report Area	Total Medicare Beneficiaries	Beneficiaries with Heart Disease	Percent with Heart Disease
Lauderdale County, MS	13,347	3,288	24.63%
Mississippi	450,177	124,546	27.67%
United States	34,126,305	9,744,058	28.55%

Percent Medicare Beneficiaries with Heart Disease



■ Lauderdale County, MS (24.63%)

■ Mississippi (27.67%)

■ United States (28.55%)

Note: This indicator is compared with the state average. Data breakout by demographic groups are not available.

Data Source: [Centers for Medicare and Medicaid Services](#), 2012 Source geography: County

High Blood Pressure (Adult)

20,343, or 34% of adults aged 18 and older have ever been told by a doctor that they have high blood pressure or hypertension.

Report Area	Total Population (Age 18+)	Total Adults with High Blood Pressure	Percent Adults with High Blood Pressure
Lauderdale County, MS	59,832	20,343	34%
Mississippi	2,199,741	789,707	35.9%
United States	232,556,016	65,476,522	28.16%

Percent Adults with High Blood Pressure



■ Lauderdale County, MS (34%)

■ Mississippi (35.9%)

■ United States (28.16%)

Note: This indicator is compared with the state average. Data break out by demographic groups are not available.

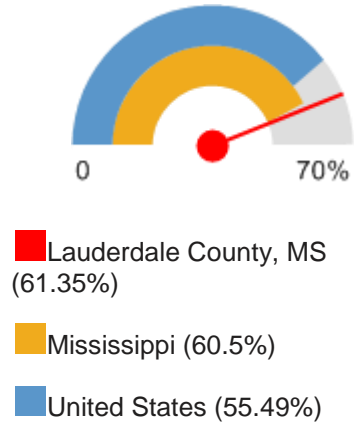
Data Source: Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#). 2006-2012 Additional data analysis by [CARES](#). Source geography: County

High Blood Pressure (Medicare Population)

This indicator reports the percentage of the Medicare fee-for-service population with hypertension (high blood pressure).

Report Area	Total Medicare Beneficiaries	Beneficiaries with High Blood Pressure	Percent with High Blood Pressure
Lauderdale County, MS	13,347	8,189	61.35%
Mississippi	450,177	272,376	60.5%
United States	34,126,305	18,936,118	55.49%

Percent Medicare Beneficiaries with High Blood Pressure



Note: This indicator is compared with the state average. Data breakout by demographic groups are not available.

Data Source: [Centers for Medicare and Medicaid Services](#), 2012 Source geography: County

High Cholesterol (Adult)

This indicator reports the percentage of adults aged 18 and older who self-report that they have ever been told by a doctor, nurse, or other health professional that they had high blood cholesterol.

Report Area	Survey Population (Adults Age 18+)	Total Adults with High Cholesterol	Percent Adults with High Cholesterol
Lauderdale County, MS	37,174	17,746	47.73%
Mississippi	1,565,255	660,021	42.17%
United States	180,861,326	69,662,357	38.52%

Percent Adults with High Cholesterol



■ Lauderdale County, MS (47.73%)

■ Mississippi (42.17%)

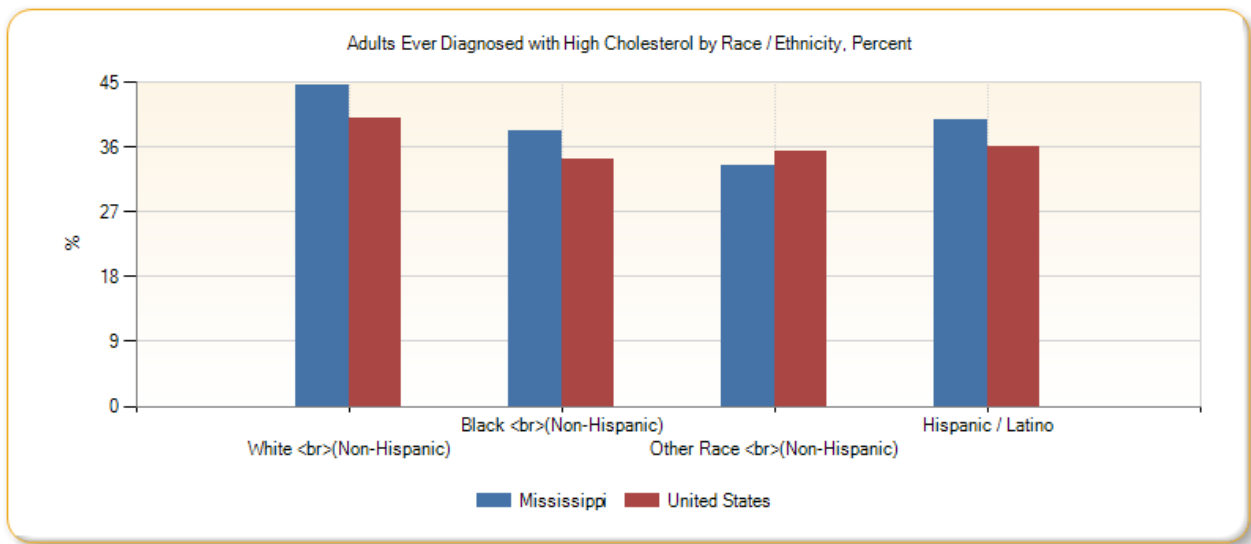
■ United States (38.52%)

Note: This indicator is compared with the state average.

Data Source: Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#). 2011-2012 Additional data analysis by [CARES](#). Source geography: County

Adults Ever Diagnosed with High Cholesterol by Race / Ethnicity, Percent

Report Area	White (Non-Hispanic)	Black (Non-Hispanic)	Other Race (Non-Hispanic)	Hispanic / Latino
Mississippi	44.66%	38.24%	33.33%	39.75%
United States	39.95%	34.28%	35.42%	35.97%

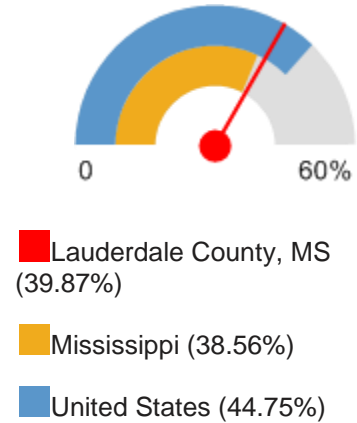


High Cholesterol (Medicare Population)

This indicator reports the percentage of the Medicare fee-for-service population with hyperlipidemia, which is typically associated with high cholesterol.

Report Area	Total Medicare Beneficiaries	Beneficiaries with High Cholesterol	Percent with High Cholesterol
Lauderdale County, MS	13,347	5,322	39.87%
Mississippi	450,177	173,568	38.56%
United States	34,126,305	15,273,052	44.75%

Percent Medicare Beneficiaries with High Cholesterol



Note: This indicator is compared with the state average. Data breakout by demographic groups are not available.

Data Source: [Centers for Medicare and Medicaid Services](#) .2012 Source geography: County

HIV Prevalence

This indicator reports prevalence rate of HIV per 100,000 population. This indicator is relevant because HIV is a life-threatening communicable disease that disproportionately affects minority populations and may also indicate the prevalence of unsafe sex practices.

Report Area	Total Population	Population with HIV / AIDS	Population with HIV / AIDS, Rate (Per 100,000 Pop.)
Lauderdale County, MS	65,779	249	379.2
Mississippi	2,428,088	8,213	338.25
United States	509,288,471	1,733,459	340.37

Note: This indicator is compared with the state average.

Data Source: Centers for Disease Control and Prevention, [National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention](#). 2010 Source geography: County

Population with HIV / AIDS, Rate (Per 100,000 Pop.)



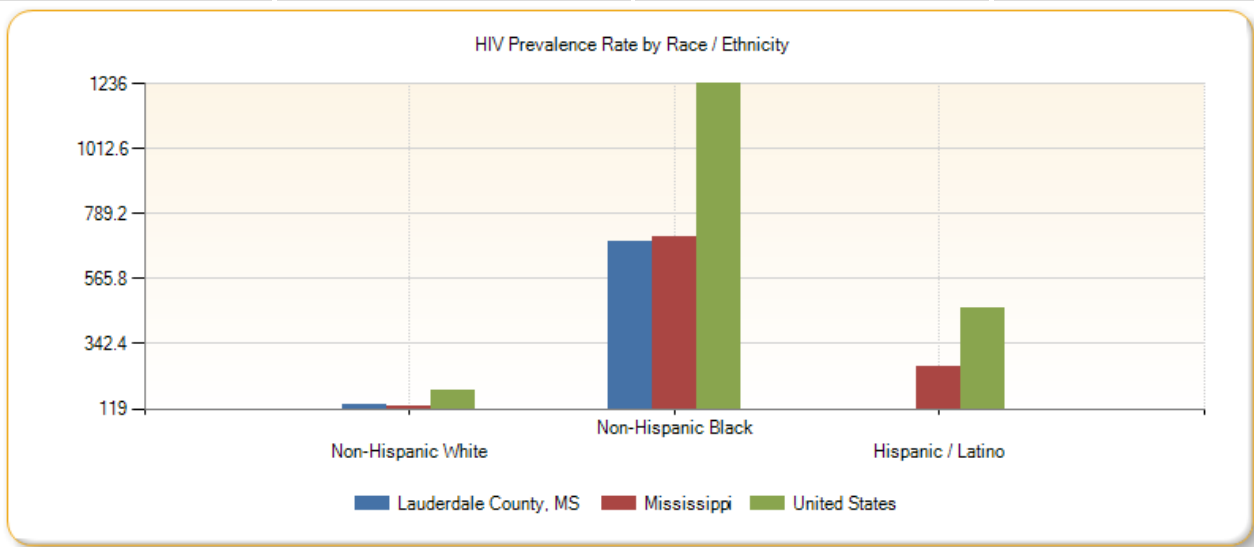
■ Lauderdale County, MS (379.2)

■ Mississippi (338.25)

■ United States (340.37)

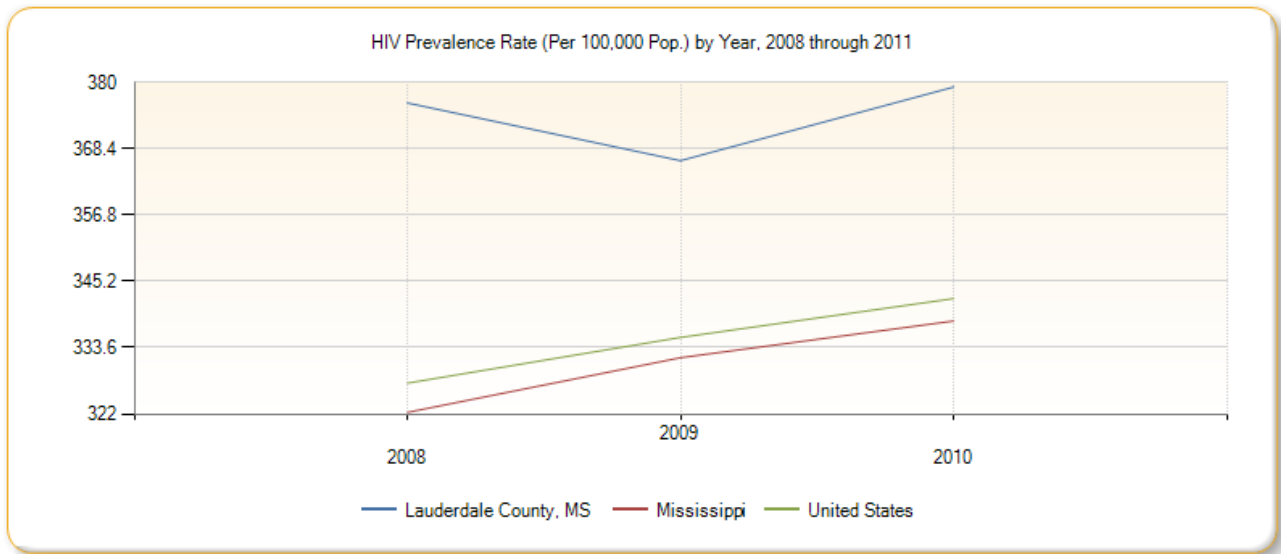
HIV Prevalence Rate by Race / Ethnicity

Report Area	Non-Hispanic White	Non-Hispanic Black	Hispanic / Latino
Lauderdale County, MS	131.4	691.4	no data
Mississippi	119.89	709.04	264.01
United States	180.16	1,235.54	464.11



HIV Prevalence Rate (Per 100,000 Pop.) by Year, 2008 through 2011

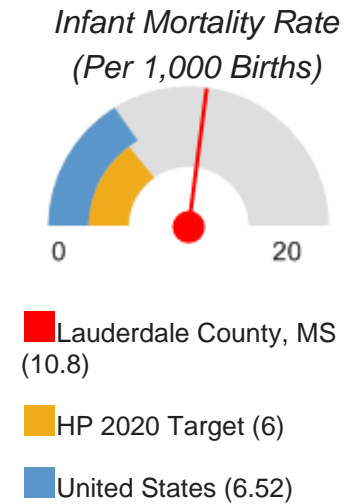
Report Area	2008	2009	2010
Lauderdale County, MS	376.4	366.3	379.2
Mississippi	322.26	331.83	338.25
United States	327.37	335.38	342.17



Infant Mortality

This indicator reports the rate of deaths to infants less than one year of age per 1,000 births. This indicator is relevant because high rates of infant mortality indicate the existence of broader issues pertaining to access to care and maternal and child health.

Report Area	Total Births	Total Infant Deaths	Infant Mortality Rate (Per 1,000 Births)
Lauderdale County, MS	5,860	63	10.8
Mississippi	216,795	2,190	10.1
United States	20,913,535	136,369	6.52
HP 2020 Target			<= 6.0



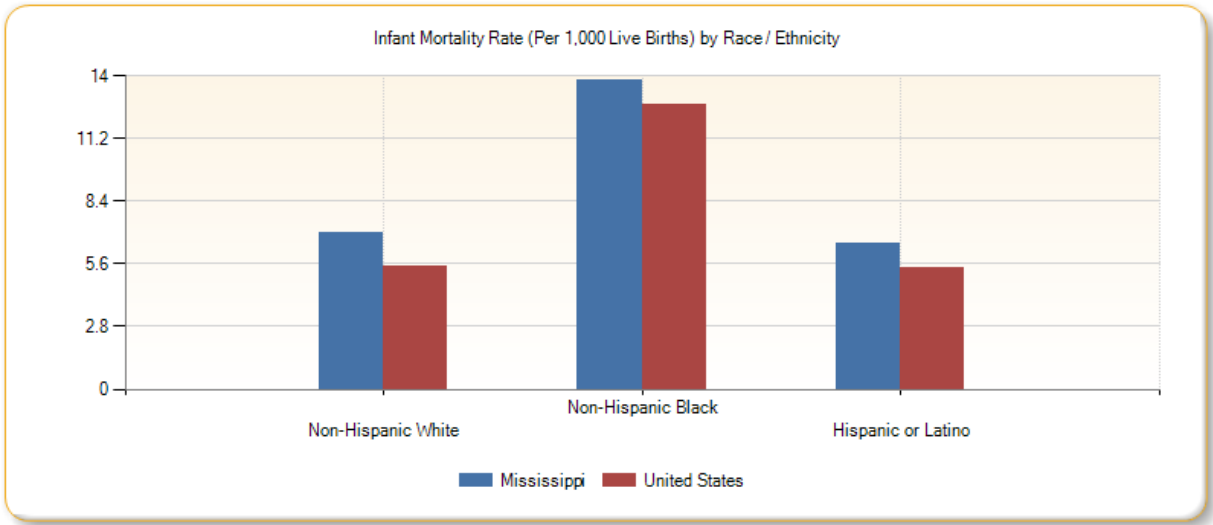
Note: This indicator is compared with the Healthy People 2020 Target.

Data Source: Centers for Disease Control and Prevention, [National Vital Statistics System](#).

Accessed via [CDC WONDER](#). Centers for Disease Control and Prevention, [Wide-Ranging Online Data for Epidemiologic Research](#). 2006-2010 Source geography: County

Infant Mortality Rate (Per 1,000 Live Births) by Race / Ethnicity

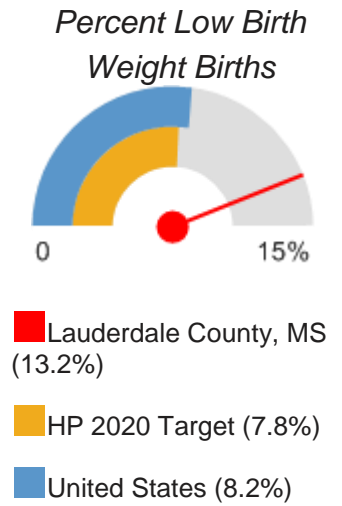
Report Area	Non-Hispanic White	Non-Hispanic Black	Hispanic or Latino
Lauderdale County, MS	no data	no data	no data
Mississippi	7	13.8	6.5
United States	5.5	12.7	5.4



Low Birth Weight

This indicator reports the percentage of total births that are low birth weight (Under 2500g). This indicator is relevant because low birth weight infants are at high risk for health problems. This indicator can also highlight the existence of health disparities.

Report Area	Total Live Births	Low Weight Births (Under 2500g)	Low Weight Births, Percent of Total
Lauderdale County, MS	8,393	1,108	13.2%
Mississippi	308,000	37,268	12.1%
United States	29,300,495	2,402,641	8.2%
HP 2020 Target			<=7.8%



Note: This indicator is compared with the Healthy People 2020 Target.

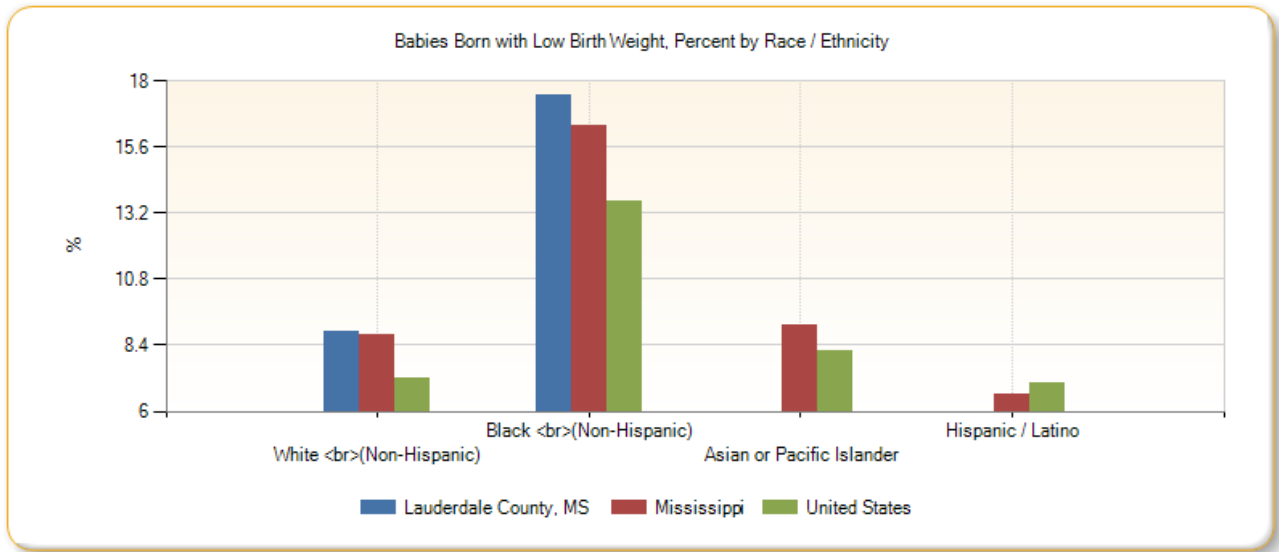
Data Source: US Department of Health & Human Services, [Health Indicators Warehouse](#).

Centers for Disease Control and Prevention, [National Vital Statistics System](#). 2006-2012

Accessed via [CDC WONDER](#). Source geography: County

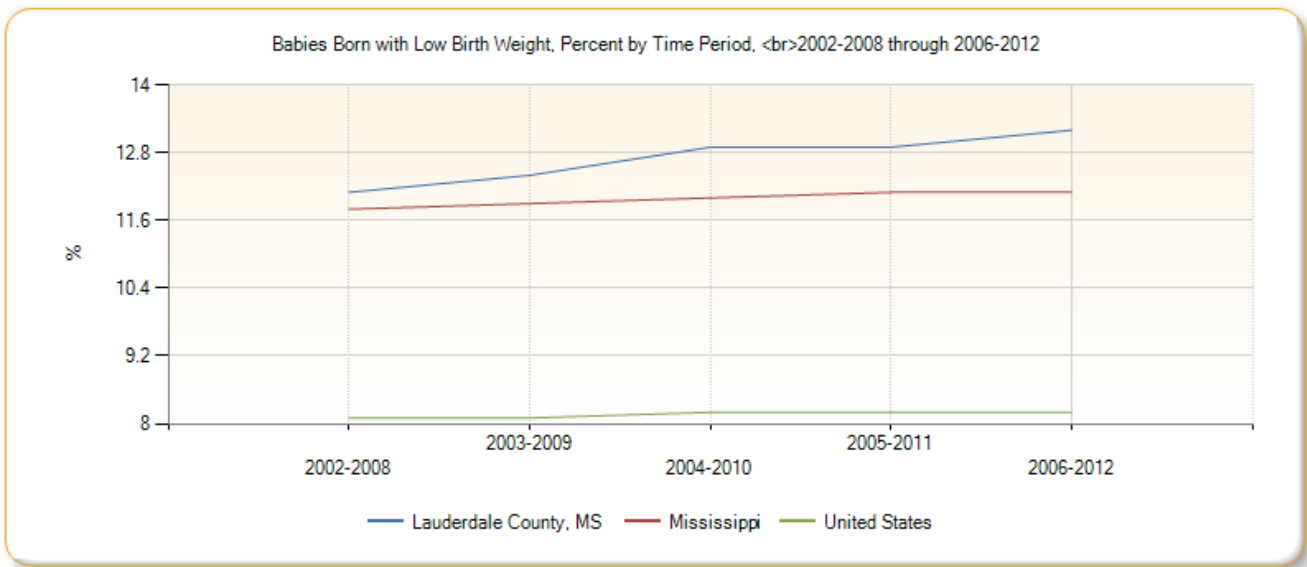
Babies Born with Low Birth Weight, Percent by Race / Ethnicity

Report Area	White (Non-Hispanic)	Black (Non-Hispanic)	Asian or Pacific Islander	Hispanic / Latino
Lauderdale County, MS	8.9%	17.5%	no data	no data
Mississippi	8.8%	16.4%	9.1%	6.6%
United States	7.2%	13.6%	8.2%	7%



**Babies Born with Low Birth Weight, Percent by Time Period,
2002-2008 through 2006-2012**

Report Area	2002-2008	2003-2009	2004-2010	2005-2011	2006-2012
Lauderdale County, MS	12.1%	12.4%	12.9%	12.9%	13.2%
Mississippi	11.8%	11.9%	12%	12.1%	12.1%
United States	8.1%	8.1%	8.2%	8.2%	8.2%

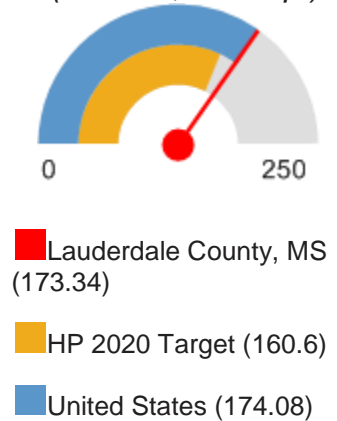


Mortality - Cancer

This indicator reports the rate of death due to malignant neoplasm (cancer) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for report areas from county level data, only where data is available. This indicator is relevant because cancer is a leading cause of death in the United States.

Report Area	Total Population	Average Annual Deaths, 2007-2011	Crude Death Rate (Per 100,000 Pop.)	Age-Adjusted Death Rate (Per 100,000 Pop.)
Lauderdale County, MS	79,894	157	196.01	173.34
Mississippi	2,956,148	6,170	208.7	200.61
United States	306,486,831	569,481	185.81	174.08
HP 2020 Target				<= 160.6

Cancer Mortality, Age-Adjusted Death Rate (Per 100,000 Pop.)

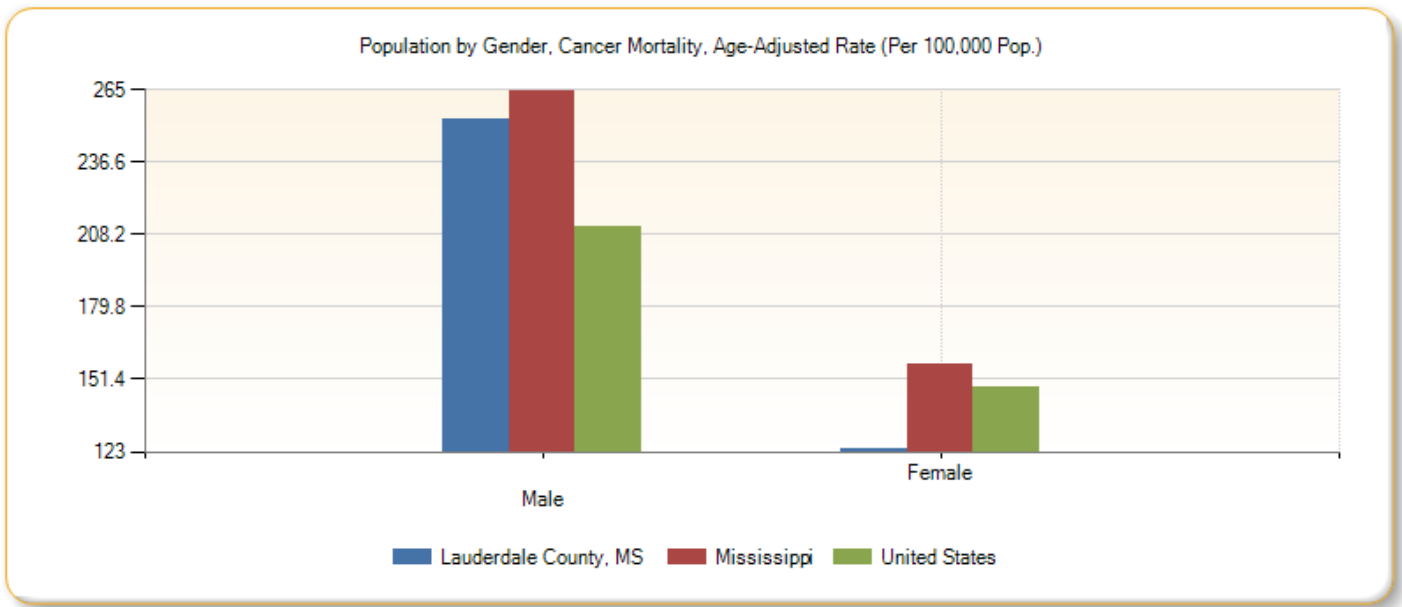


Note: This indicator is compared with the Healthy People 2020 Target.

Data Source: Centers for Disease Control and Prevention, [National Vital Statistics System](#). 2007-2011 Accessed via [CDC WONDER](#). Centers for Disease Control and Prevention, [Wide-Ranging Online Data for Epidemiologic Research](#). Source geography: County

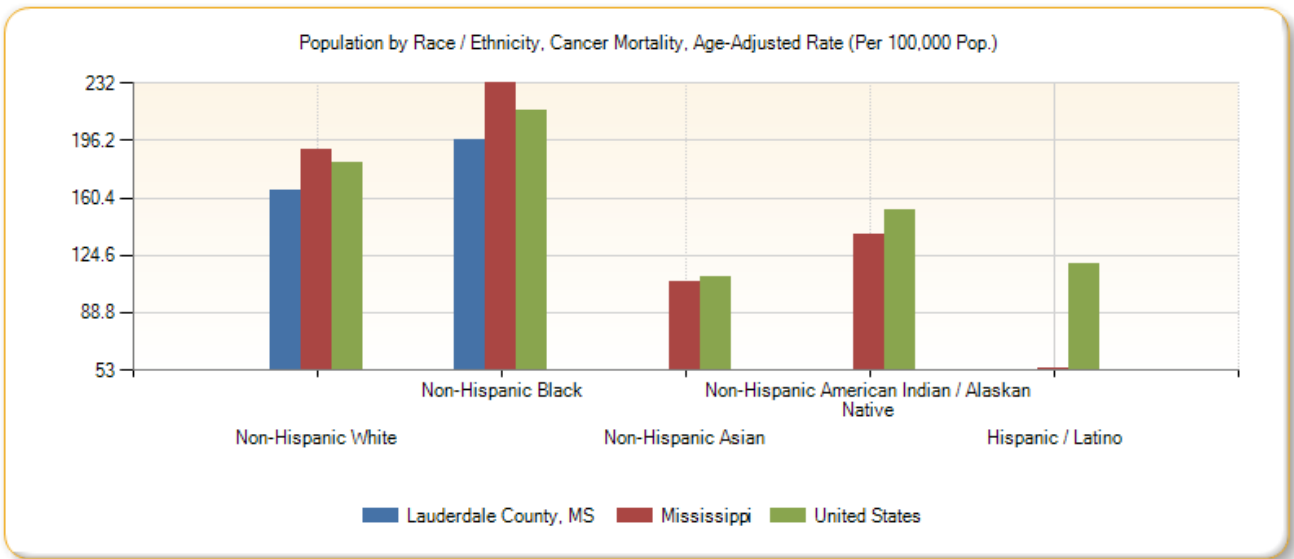
Population by Gender, Cancer Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

Report Area	Male	Female
Lauderdale County, MS	253.17	123.41
Mississippi	264.69	157.37
United States	211.52	147.92



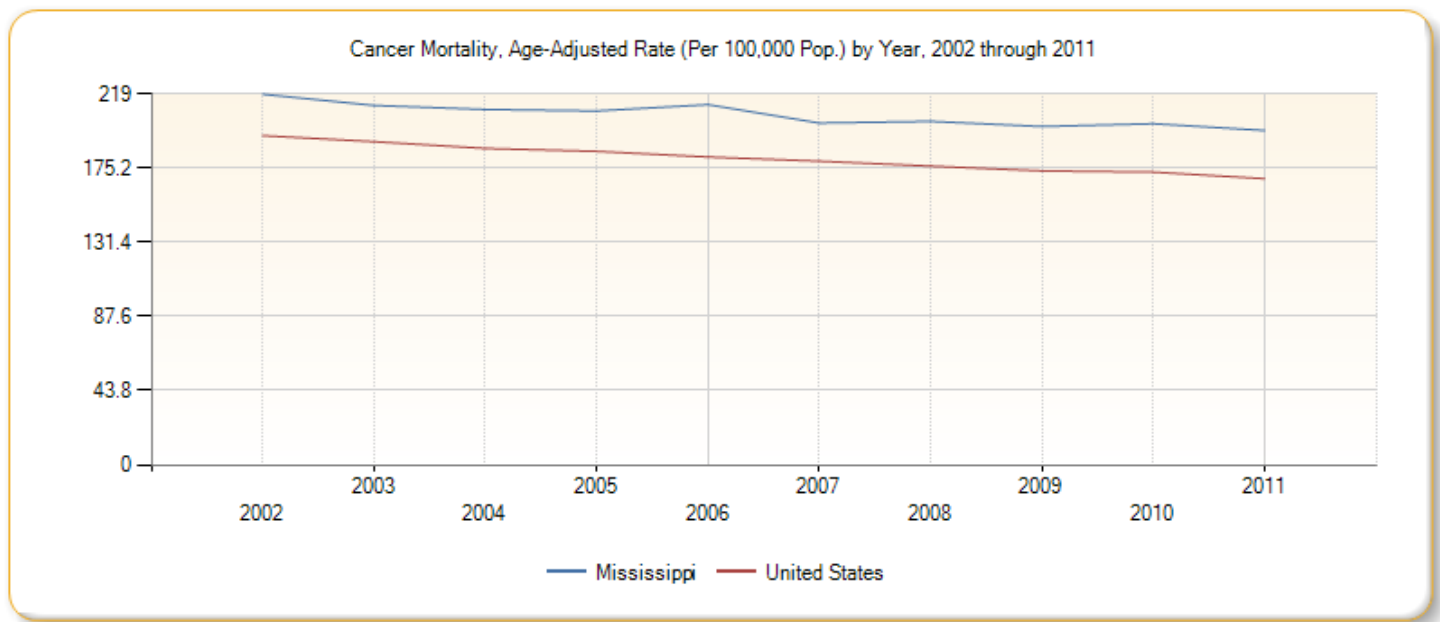
Population by Race / Ethnicity, Cancer Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

Report Area	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic Asian	Non-Hispanic American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	165.4	197.05	no data	no data	no data
Mississippi	190.13	231.75	108.05	137.54	53.58
United States	182.58	214.88	111.57	152.74	119.74



Cancer Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011

Report Area	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Mississippi	218.84	212.23	209.83	208.92	212.66	201.8	202.85	199.77	201.42	197.43
United States	194.34	190.85	186.79	185.09	181.78	179.26	176.37	173.53	172.79	168.96



Mortality - Heart Disease

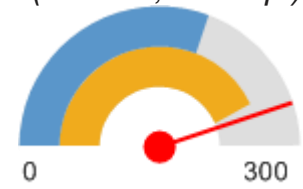
Within the report area the rate of death due to coronary heart disease per 100,000 population is 269.25. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for report areas from county level data, only where data is available. This indicator is relevant because heart disease is a leading cause of death in the United States.

Report Area	Total Population	Average Annual Deaths, 2007-2011	Crude Death Rate (Per 100,000 Pop.)	Age-Adjusted Death Rate (Per 100,000 Pop.)
Lauderdale County, MS	79,894	245	307.16	269.25
Mississippi	2,956,148	7,688	260.07	259.04
United States	306,486,831	605,315	197.5	184.55

Note: This indicator is compared with the state average.

Data Source: Centers for Disease Control and Prevention, [National Vital Statistics System](#). 2007-2011 Accessed via [CDC WONDER](#). Centers for Disease Control and Prevention, [Wide-Ranging Online Data for Epidemiologic Research](#). Source geography: County

Heart Disease Mortality, Age-Adjusted Death Rate (Per 100,000 Pop.)



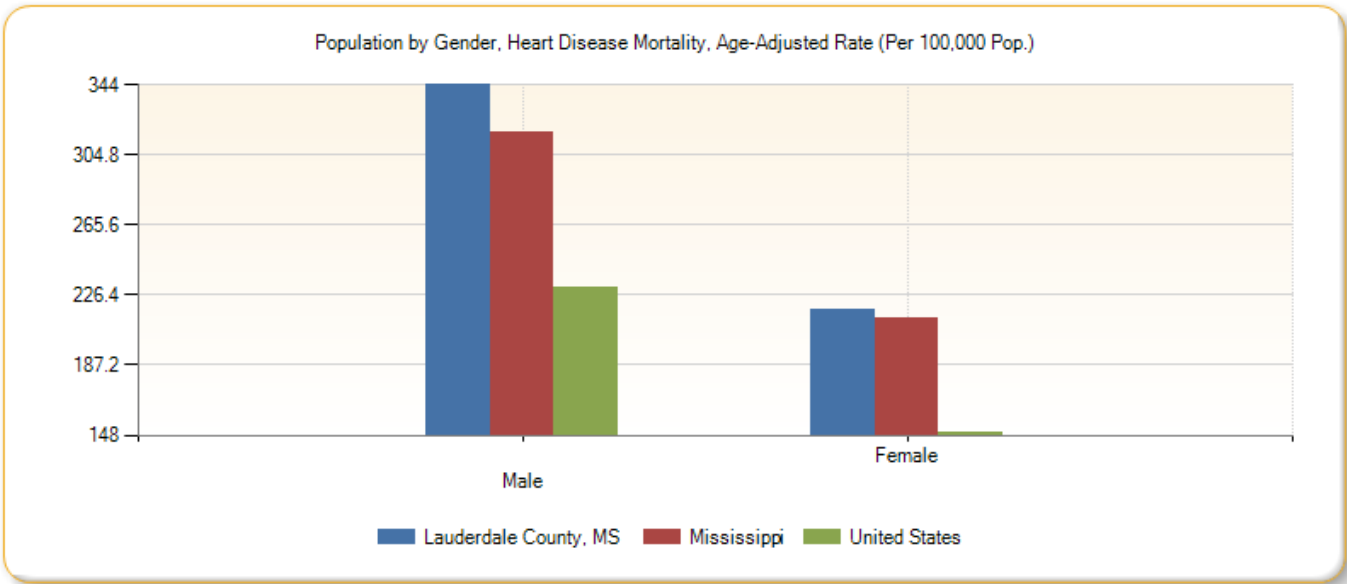
■ Lauderdale County, MS (269.25)

■ Mississippi (259.04)

■ United States (184.55)

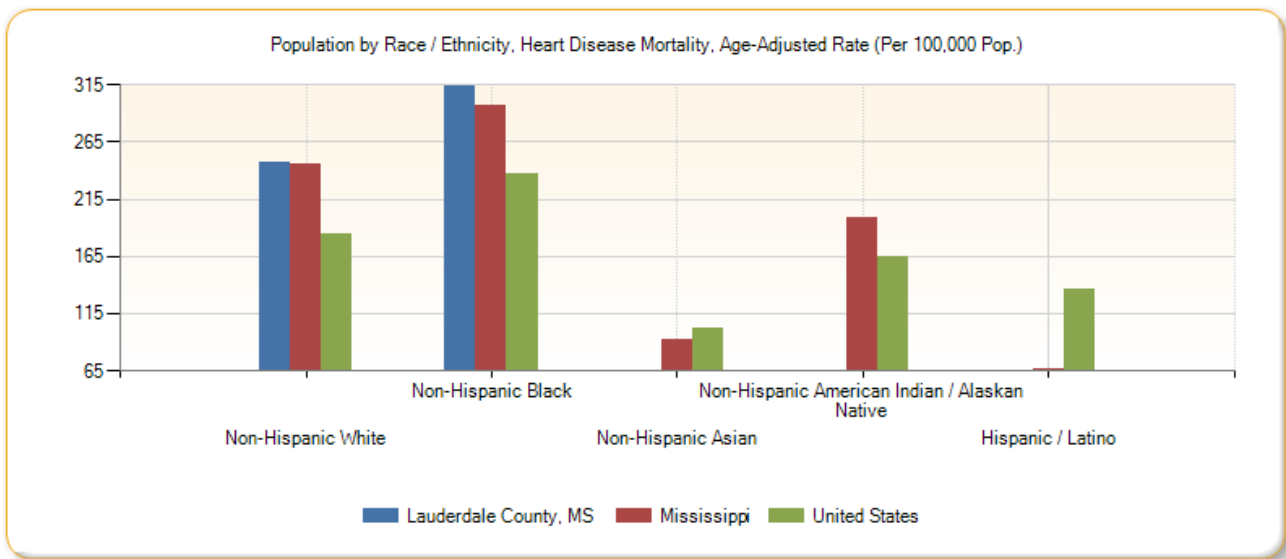
Population by Gender, Heart Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

Report Area	Male	Female
Lauderdale County, MS	343.71	218.47
Mississippi	317.79	213.45
United States	230.61	148.54



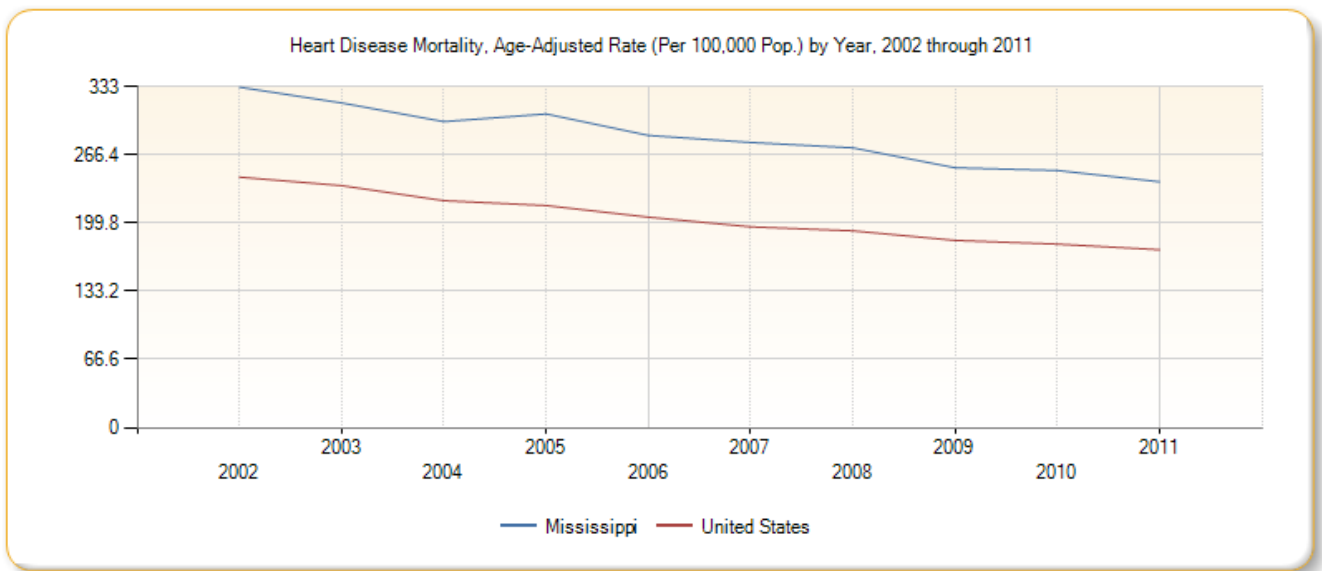
Population by Race / Ethnicity, Heart Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

Report Area	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic Asian	Non-Hispanic American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	246.57	314.38	no data	no data	no data
Mississippi	245.6	296.53	92.52	198.86	65.1
United States	185.11	237.6	102.64	164.23	135.98



Heart Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011

Report Area	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Mississippi	332.56	317.13	298.84	306.42	285.41	278.47	273.19	253.8	251.08	240.12
United States	244.64	236.31	221.63	216.85	205.47	196.09	192.12	182.82	179.14	173.74

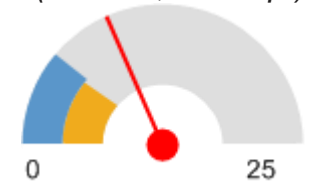


Mortality - Homicide

This indicator reports the rate of death due to assault (homicide) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for report areas from county level data, only where data is available. This indicator is relevant because homicide rate is a measure of poor community safety and is a leading cause of premature death.

Report Area	Total Population	Average Annual Deaths, 2007-2011	Crude Death Rate (Per 100,000 Pop.)	Age-Adjusted Death Rate (Per 100,000 Pop.)
Lauderdale County, MS	79,894	7	9.01	9.21
Mississippi	2,956,148	297	10.06	10.23
United States	306,486,831	17,097	5.58	5.63
HP 2020 Target				<= 5.5

Homicide, Age-Adjusted Death Rate (Per 100,000 Pop.)



■ Lauderdale County, MS (9.21)

■ HP 2020 Target (5.5)

■ United States (5.63)

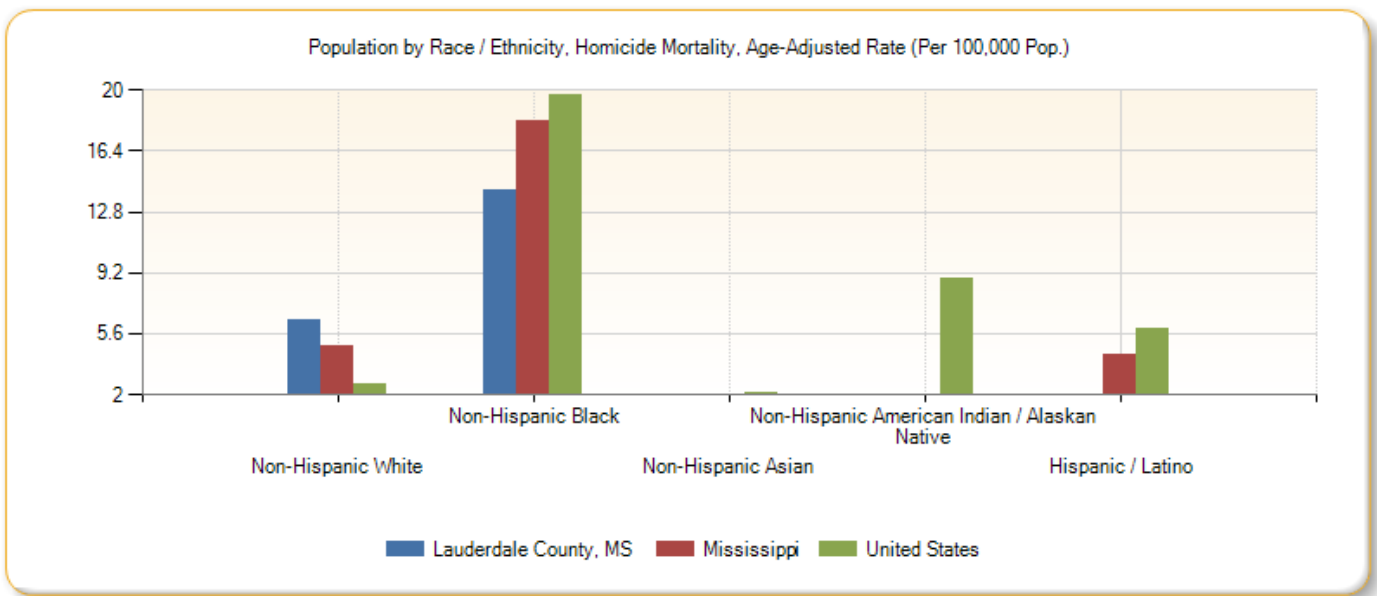
Note: This indicator is compared with the Healthy People 2020 Target.

Data Source: Centers for Disease Control and Prevention, [National Vital Statistics System](#).

2007-2011 Accessed via [CDC WONDER](#). Centers for Disease Control and Prevention, [Wide-Ranging Online Data for Epidemiologic Research](#). Source geography: County

Population by Race / Ethnicity, Homicide Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

Report Area	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic Asian	Non-Hispanic American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	6.41	14.05	no data	no data	no data
Mississippi	4.93	18.19	no data	no data	4.38
United States	2.68	19.67	2.04	8.84	5.9

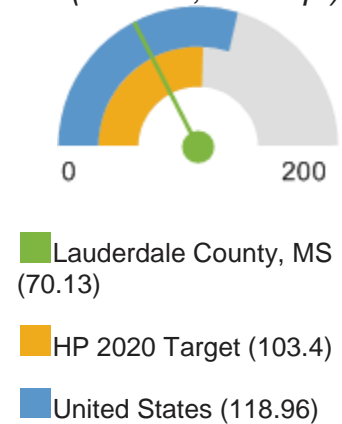


Mortality - Ischaemic Heart Disease

Within the report area the rate of death due to coronary heart disease per 100,000 population is 70.13. This rate is less than the Healthy People 2020 target of less than or equal to 103.4. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for report areas from county level data, only where data is available. This indicator is relevant because heart disease is a leading cause of death in the United States.

Report Area	Total Population	Average Annual Deaths, 2007-2011	Crude Death Rate (Per 100,000 Pop.)	Age-Adjusted Death Rate (Per 100,000 Pop.)
Lauderdale County, MS	79,894	64	80.11	70.13
Mississippi	2,956,148	3,928	132.89	131.05
United States	306,486,831	390,568	127.43	118.96
HP 2020 Target				<= 103.4

Ischaemic Heart Disease Mortality, Age-Adjusted Death Rate (Per 100,000 Pop.)



Note: This indicator is compared with the Healthy People 2020 Target.

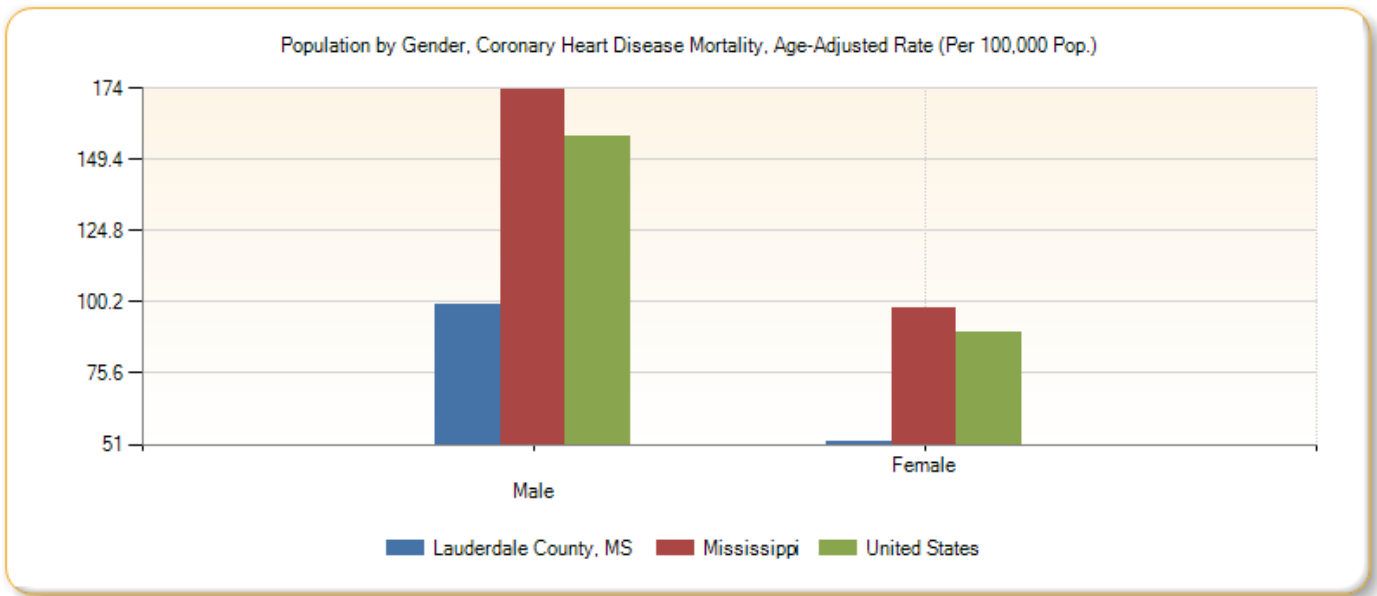
Data Source: Centers for Disease Control and Prevention, [National Vital Statistics System](#).

2007-2011 Accessed via [CDC WONDER](#). Centers for Disease Control and Prevention,

[Wide-Ranging Online Data for Epidemiologic Research](#). Source geography: County

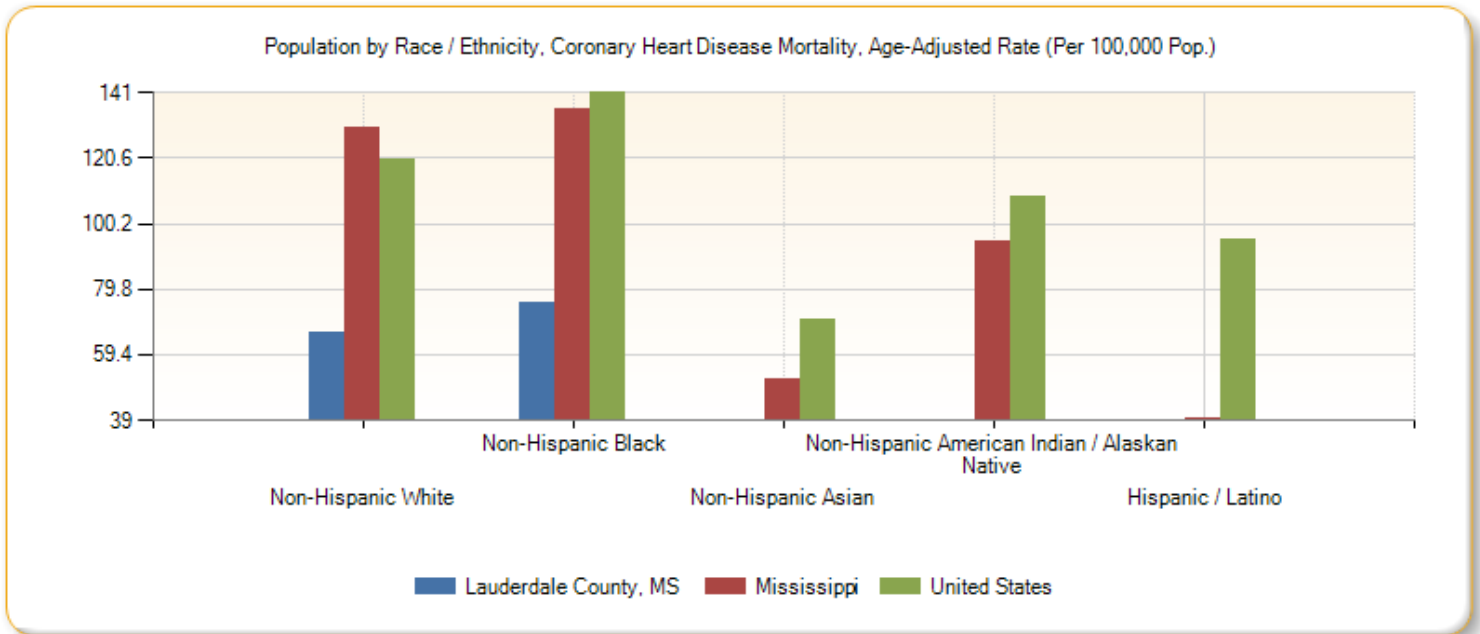
Population by Gender, Coronary Heart Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

Report Area	Male	Female
Lauderdale County, MS	99.11	51.27
Mississippi	173.75	98.25
United States	157.16	89.72



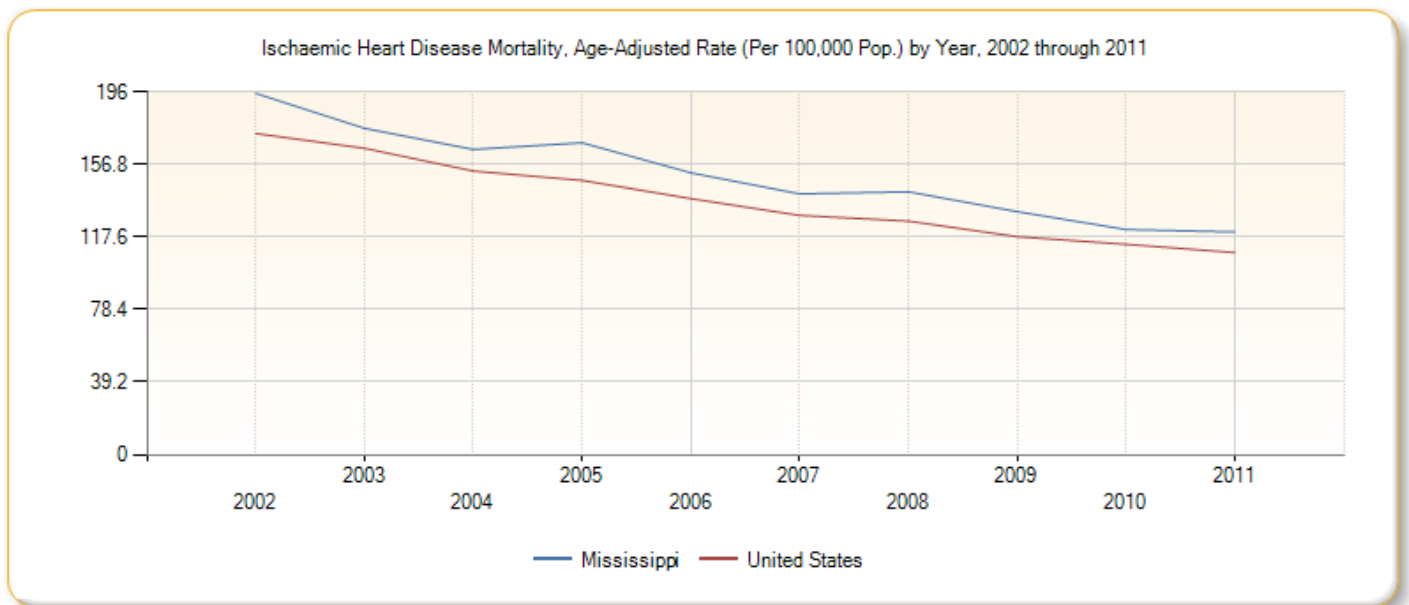
Population by Race / Ethnicity, Coronary Heart Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

Report Area	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic Asian	Non-Hispanic American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	66.28	75.61	no data	no data	no data
Mississippi	129.84	135.61	52.13	94.5	39.96
United States	120.31	141	70.65	108.56	95.22



Ischaemic Heart Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011

Report Area	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Mississippi	195.27	176.34	164.96	168.54	152.27	140.91	142.05	131.31	121.61	120.31
United States	173.5	165.55	153.24	148.15	138.33	129.24	126.14	117.72	113.65	109.18



Mortality - Lung Disease

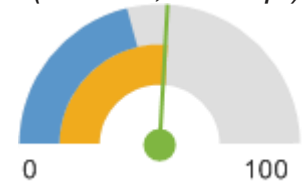
This indicator reports the rate of death due to chronic lower respiratory disease per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for report areas from county level data, only where data is available. This indicator is relevant because lung disease is a leading cause of death in the United States.

Report Area	Total Population	Average Annual Deaths, 2007-2011	Crude Death Rate (Per 100,000 Pop.)	Age-Adjusted Death Rate (Per 100,000 Pop.)
Lauderdale County, MS	79,894	47	59.33	52.02
Mississippi	2,956,148	1,568	53.04	52.67
United States	306,486,831	137,478	44.86	42.67

Note: This indicator is compared with the state average.

Data Source: Centers for Disease Control and Prevention, [National Vital Statistics System](#). 2007-2011. Accessed via [CDC WONDER](#). Centers for Disease Control and Prevention, [Wide-Ranging Online Data for Epidemiologic Research](#). Source geography: County

Lung Disease Mortality, Age-Adjusted Death Rate (Per 100,000 Pop.)



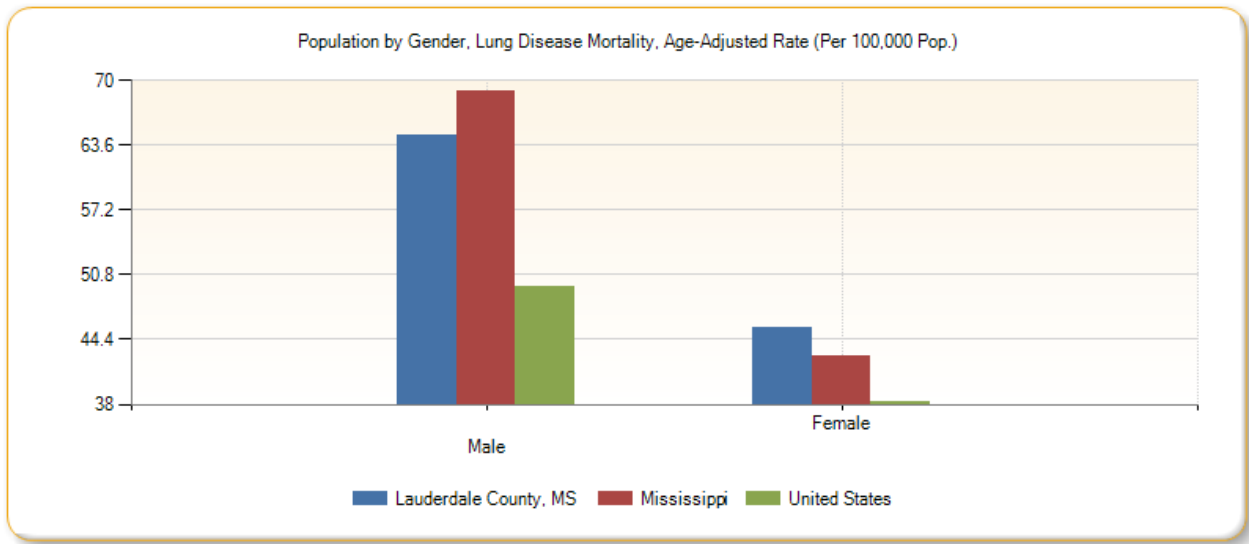
■ Lauderdale County, MS (52.02)

■ Mississippi (52.67)

■ United States (42.67)

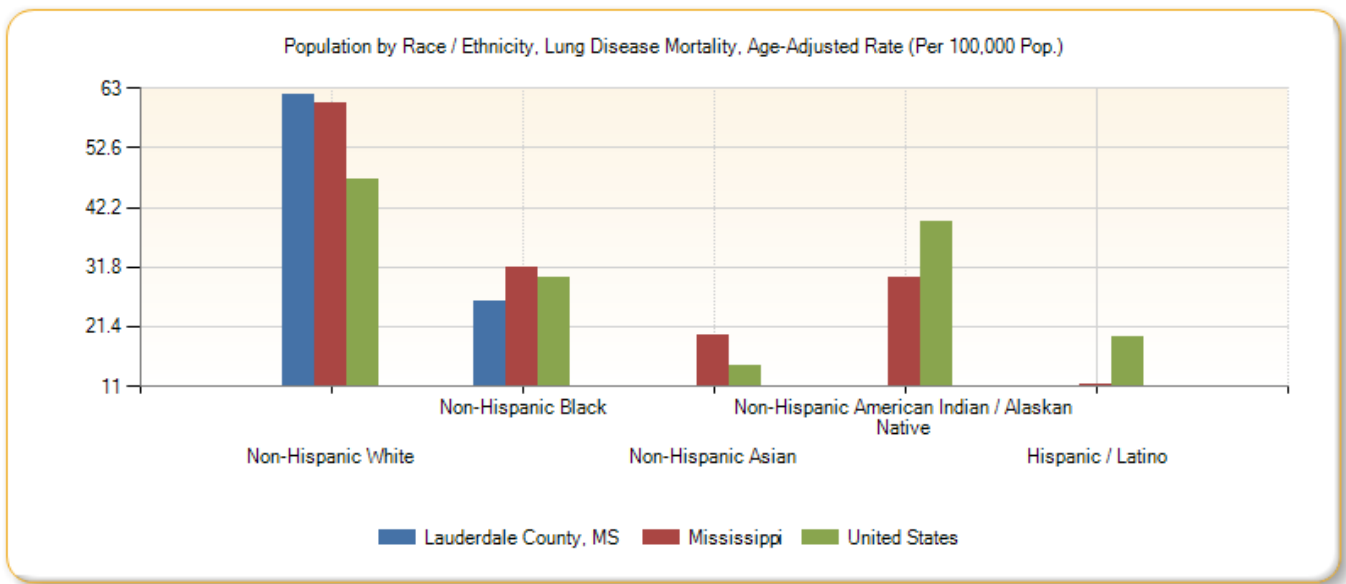
Population by Gender, Lung Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

Report Area	Male	Female
Lauderdale County, MS	64.53	45.59
Mississippi	69.01	42.77
United States	49.57	38.24



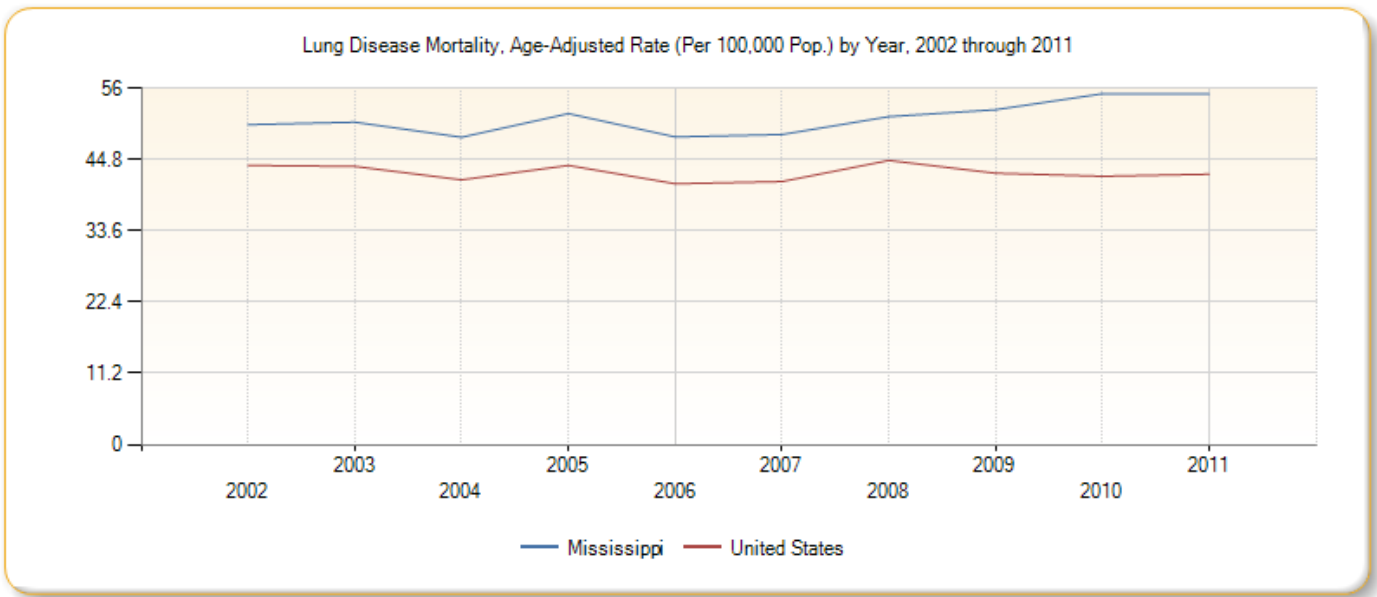
Population by Race / Ethnicity, Lung Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

Report Area	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic Asian	Non-Hispanic American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	62.01	25.71	no data	no data	no data
Mississippi	60.42	31.62	19.81	29.91	11.28
United States	47.07	29.93	14.54	39.61	19.62



Lung Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011

Report Area	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Mississippi	50.3	50.69	48.31	52.04	48.36	48.74	51.56	52.65	55.15	55.1
United States	43.88	43.74	41.61	43.89	41.01	41.35	44.67	42.65	42.18	42.51



Mortality - Motor Vehicle Accident

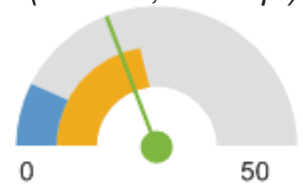
This indicator reports the rate of death due to motor vehicle crashes per 100,000 population, which include collisions with another motor vehicle, a nonmotorist, a fixed object, and a non-fixed object, an overturn, and any other non-collision. This indicator is relevant because motor vehicle crash deaths are preventable and they are a cause of premature death.

Report Area	Total Population	Average Annual Deaths, 2007-2011	Crude Death Rate (Per 100,000 Pop.)	Age-Adjusted Death Rate (Per 100,000 Pop.)
Lauderdale County, MS	79,894	15	19.03	19.16
Mississippi	2,956,148	667	22.57	22.62
United States	306,486,831	23,559	7.69	7.55

Note: This indicator is compared with the state average.

Data Source: Centers for Disease Control and Prevention, [National Vital Statistics System](#).2007-2011. Accessed via [CDC WONDER](#). Centers for Disease Control and Prevention, [Wide-Ranging Online Data for Epidemiologic Research](#). Source geography: County

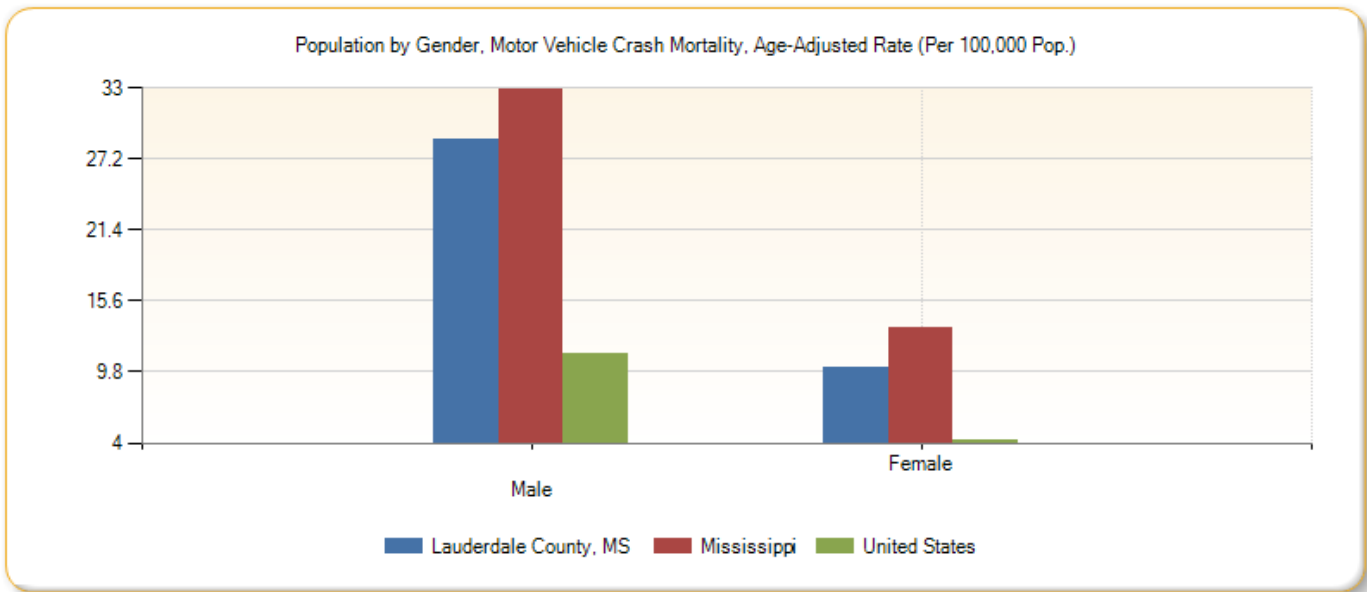
Motor Vehicle Crash Death, Age-Adjusted Death Rate (Per 100,000 Pop.)



- Lauderdale County, MS (19.16)
- Mississippi (22.62)
- United States (7.55)

Population by Gender, Motor Vehicle Crash Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

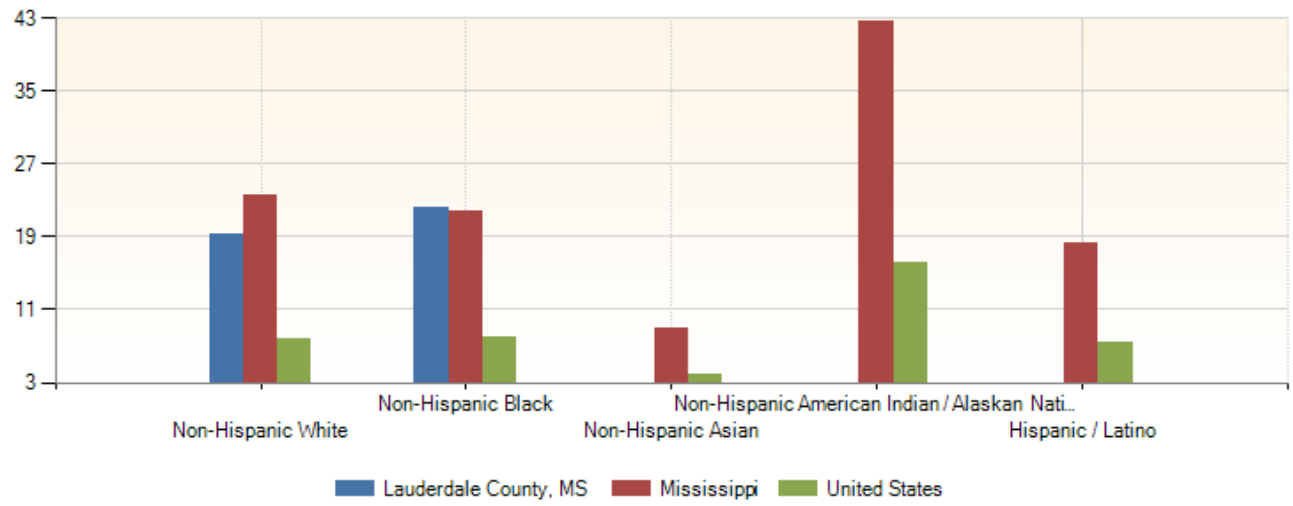
Report Area	Male	Female
Lauderdale County, MS	28.82	10.11
Mississippi	32.9	13.33
United States	11.3	4.02



Population by Race / Ethnicity, Motor Vehicle Crash Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

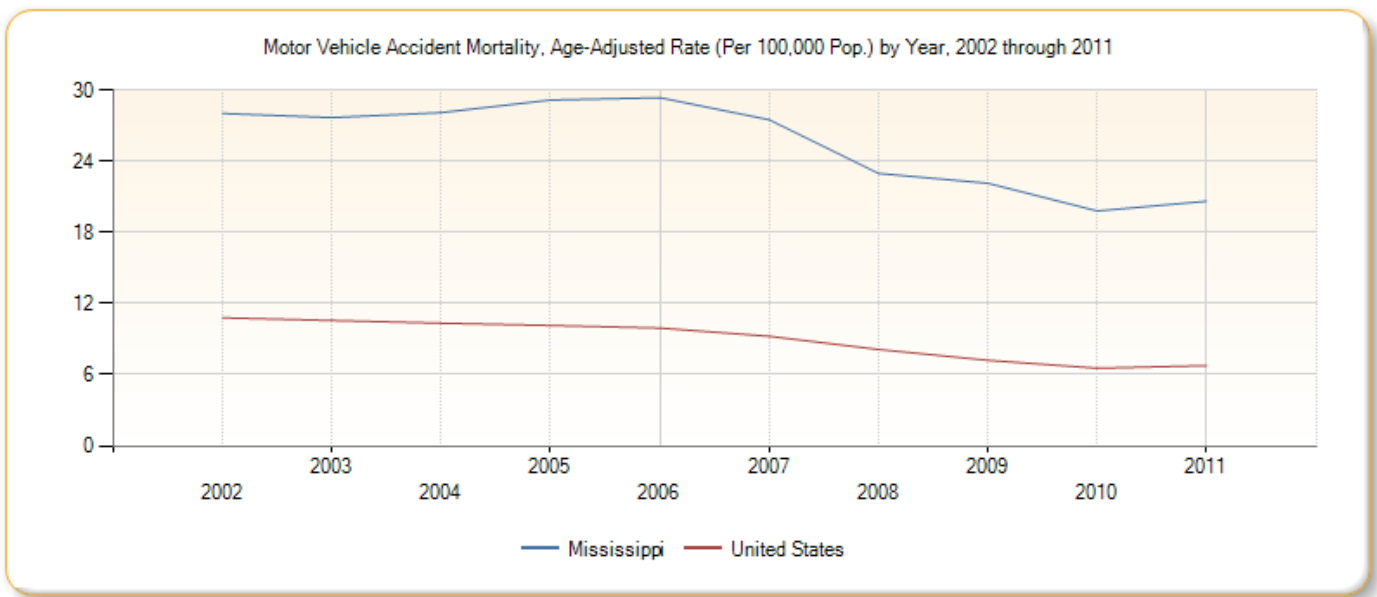
Report Area	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic Asian	Non-Hispanic American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	19.28	22.11	no data	no data	no data
Mississippi	23.59	21.71	9.04	42.64	18.36
United States	7.77	7.96	3.82	16.08	7.34

Population by Race / Ethnicity, Motor Vehicle Crash Mortality, Age-Adjusted Rate (Per 100,000 Pop.)



Motor Vehicle Accident Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011

Report Area	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Mississippi	28.04	27.69	28.11	29.17	29.37	27.51	22.98	22.15	19.81	20.63
United States	10.8	10.57	10.34	10.15	9.93	9.24	8.12	7.21	6.54	6.76

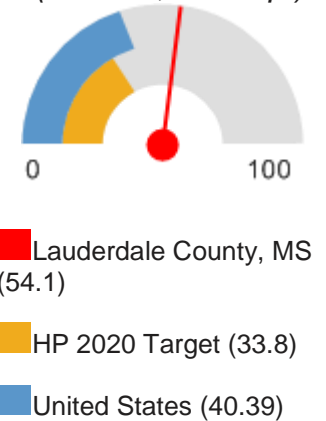


Mortality - Stroke

Within the report area there are an estimated 54.1 deaths due to cerebrovascular disease (stroke) per 100,000 population. This is greater than than the Healthy People 2020 target of less than or equal to 33.8. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for report areas from county level data, only where data is available. This indicator is relevant because stroke is a leading cause of death in the United States.

Report Area	Total Population	Average Annual Deaths, 2007-2011	Crude Death Rate (Per 100,000 Pop.)	Age-Adjusted Death Rate (Per 100,000 Pop.)
Lauderdale County, MS	79,894	49	61.08	54.1
Mississippi	2,956,148	1,533	51.84	52.15
United States	306,486,831	131,470	42.9	40.39
HP 2020 Target				<= 33.8

Stroke Mortality, Age-Adjusted Death Rate (Per 100,000 Pop.)

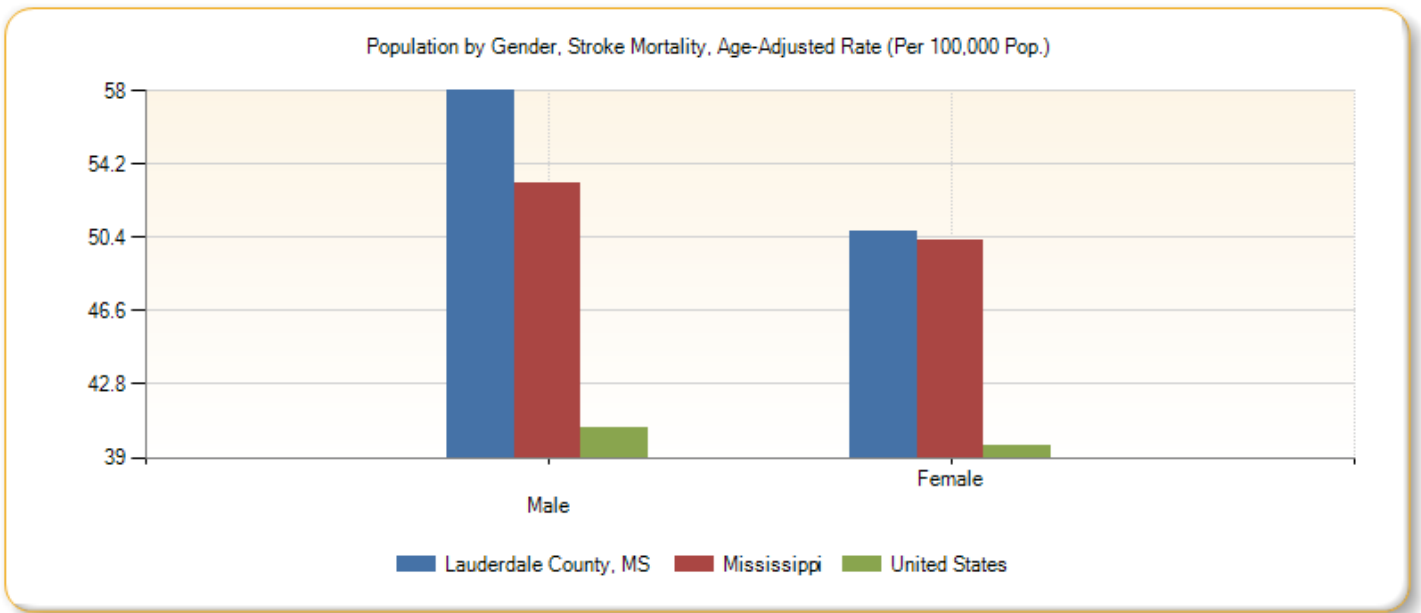


Note: This indicator is compared with the Healthy People 2020 Target.

Data Source: Centers for Disease Control and Prevention, [National Vital Statistics System](#). 2007-2011 Accessed via [CDC WONDER](#). Centers for Disease Control and Prevention, [Wide-Ranging Online Data for Epidemiologic Research](#). Source geography: County

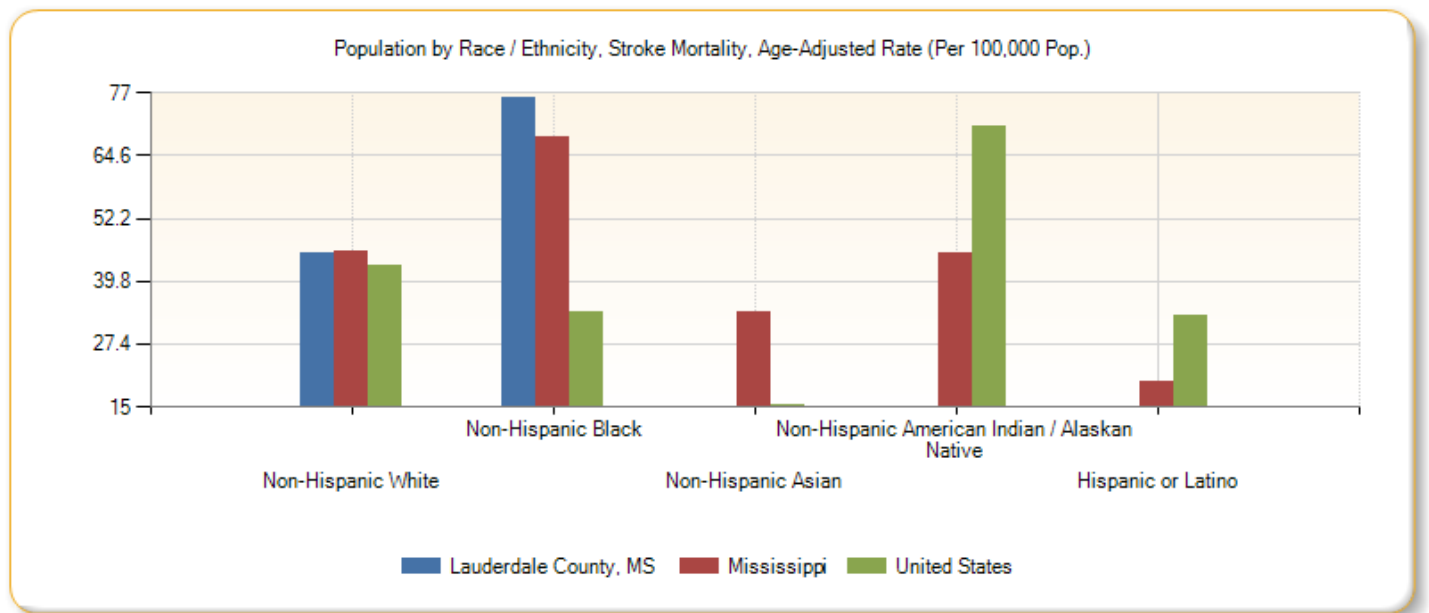
Population by Gender, Stroke Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

Report Area	Male	Female
Lauderdale County, MS	57.98	50.69
Mississippi	53.19	50.2
United States	40.51	39.62



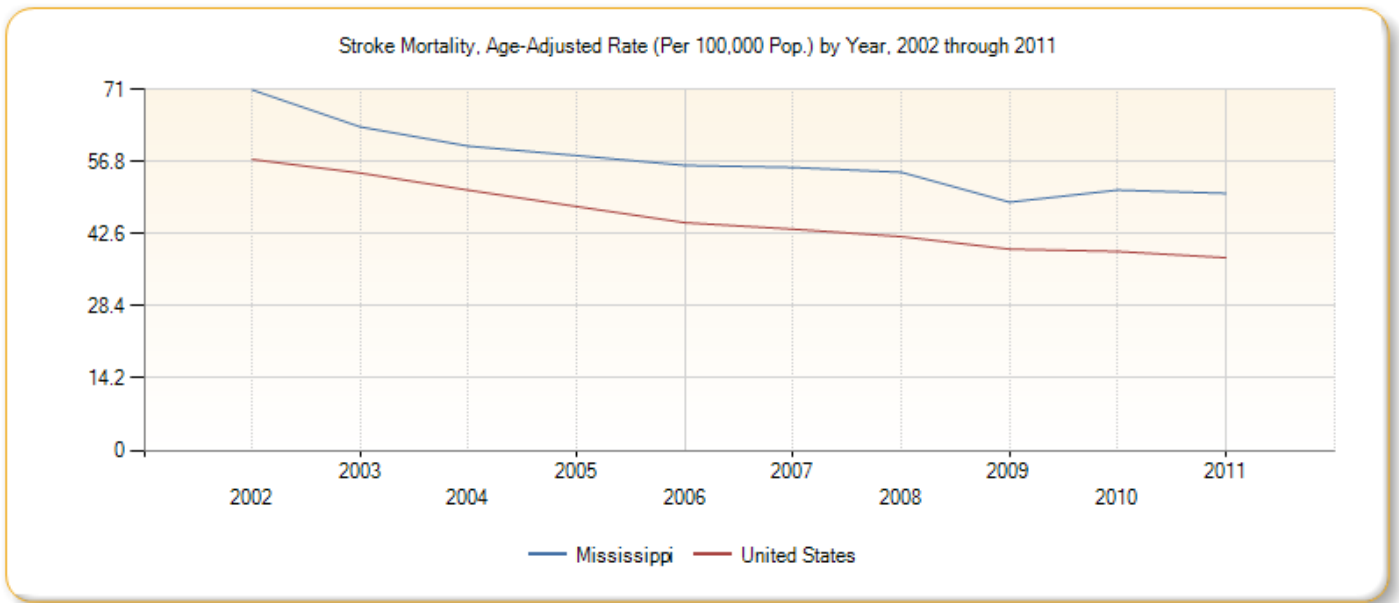
Population by Race / Ethnicity, Stroke Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

Report Area	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic Asian	Non-Hispanic American Indian / Alaskan Native	Hispanic or Latino
Lauderdale County, MS	45.24	76.08	no data	no data	no data
Mississippi	45.88	68.22	33.8	45.35	20.04
United States	42.93	33.86	15.56	70.31	32.88



Stroke Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011

Report Area	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Mississippi	70.93	63.64	59.85	58	56.07	55.66	54.72	48.84	51.2	50.57
United States	57.24	54.57	51.18	47.96	44.8	43.52	42.05	39.59	39.13	37.9

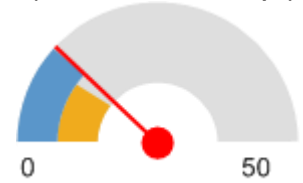


Mortality - Suicide

This indicator reports the rate of death due to intentional self-harm (suicide) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for report areas from county level data, only where data is available. This indicator is relevant because suicide is an indicator of poor mental health.

Report Area	Total Population	Average Annual Deaths, 2007-2011	Crude Death Rate (Per 100,000 Pop.)	Age-Adjusted Death Rate (Per 100,000 Pop.)
Lauderdale County, MS	79,894	10	12.27	12.04
Mississippi	2,956,148	393	13.28	13.32
United States	306,486,831	37,085	12.1	11.82
HP 2020 Target				<= 10.2

Suicide, Age-Adjusted Death Rate (Per 100,000 Pop.)



■ Lauderdale County, MS (12.04)

■ HP 2020 Target (10.2)

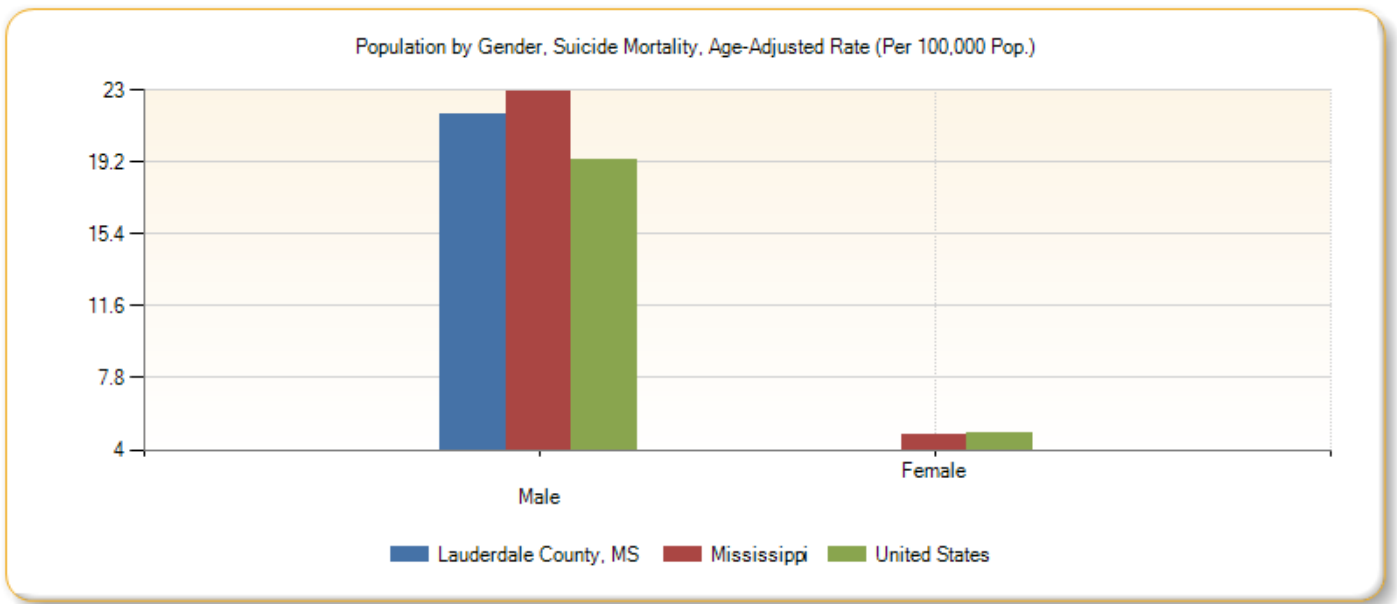
■ United States (11.82)

Note: This indicator is compared with the Healthy People 2020 Target.

Data Source: Centers for Disease Control and Prevention, [National Vital Statistics System](#). 2007-2011 Accessed via [CDC WONDER](#). Centers for Disease Control and Prevention, [Wide-Ranging Online Data for Epidemiologic Research](#). Source geography: County

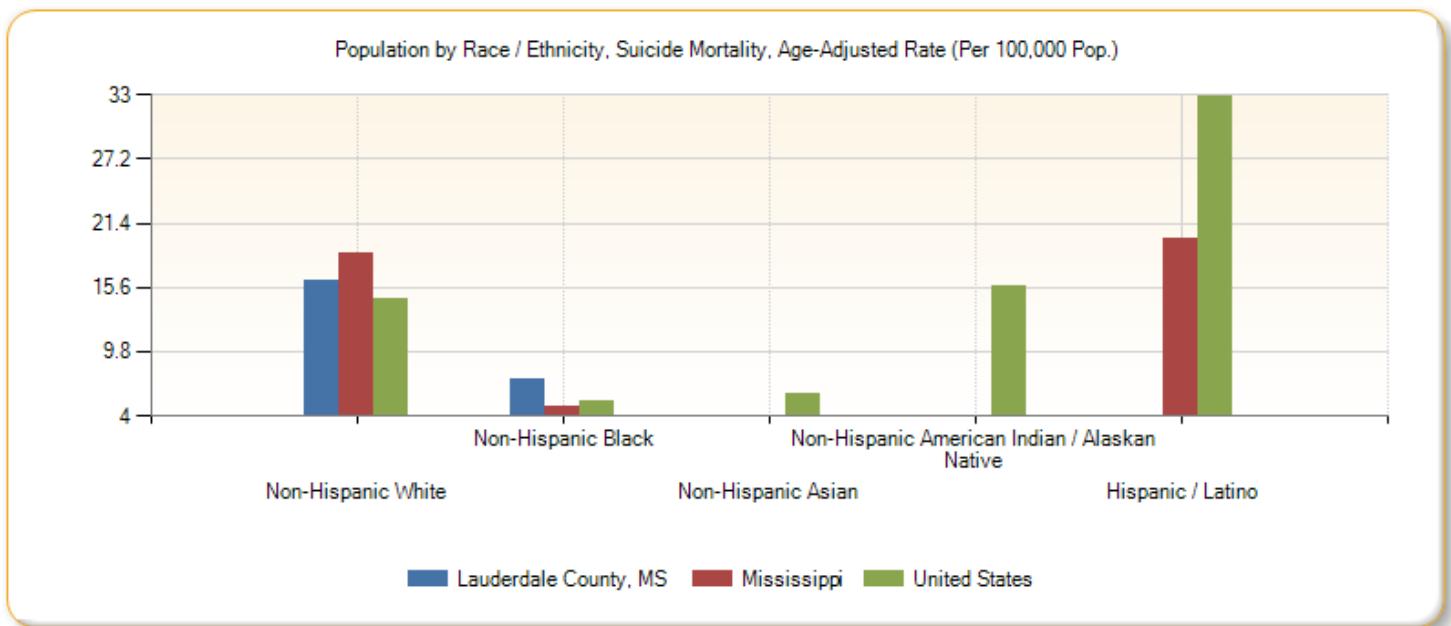
Population by Gender, Suicide Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

Report Area	Male	Female
Lauderdale County, MS	21.76	no data
Mississippi	22.96	4.81
United States	19.35	4.89



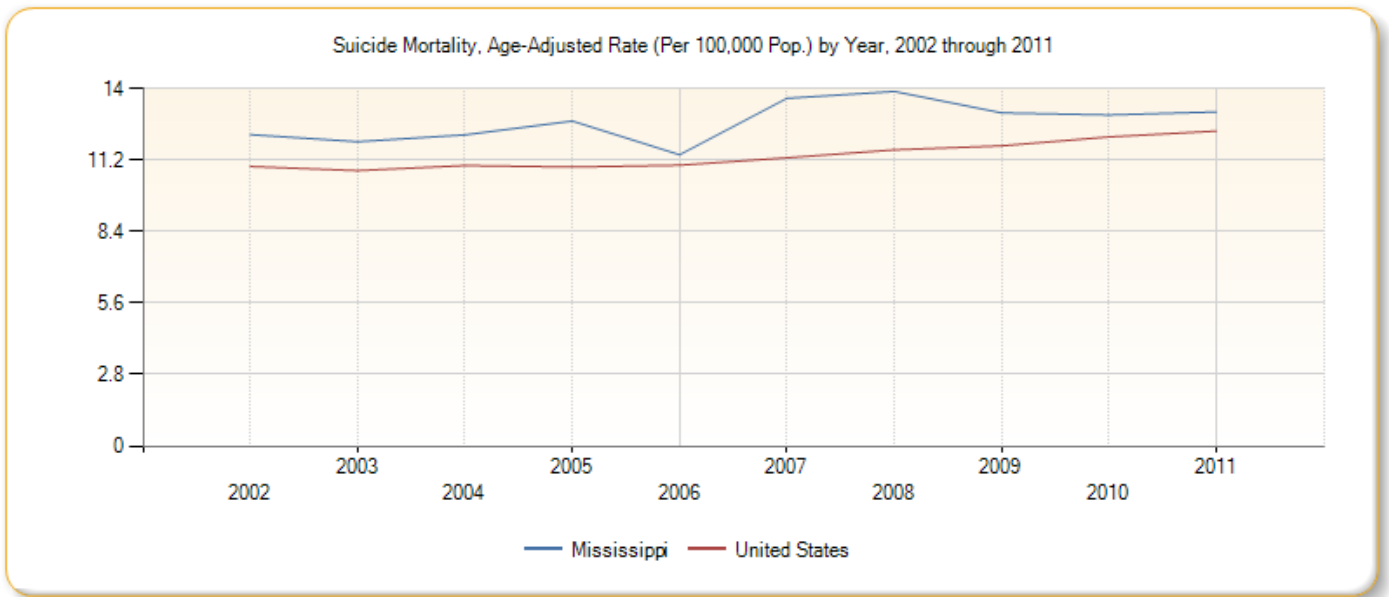
Population by Race / Ethnicity, Suicide Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

Report Area	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic Asian	Non-Hispanic American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	16.24	7.38	no data	no data	no data
Mississippi	18.63	4.82	no data	no data	20.04
United States	14.55	5.34	5.96	15.71	32.88



Suicide Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011

Report Area	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Mississippi	12.2	11.92	12.19	12.73	11.41	13.62	13.89	13.05	12.97	13.09
United States	10.95	10.79	10.99	10.93	11	11.29	11.6	11.76	12.11	12.34

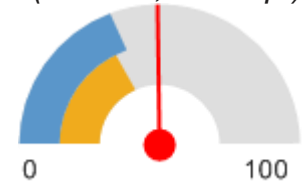


Mortality - Unintentional Injury

This indicator reports the rate of death due to unintentional injury (accident) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for report areas from county level data, only where data is available. This indicator is relevant because accidents are a leading cause of death in the U.S.

Report Area	Total Population	Average Annual Deaths, 2007-2011	Crude Death Rate (Per 100,000 Pop.)	Age-Adjusted Death Rate (Per 100,000 Pop.)
Lauderdale County, MS	79,894	40	50.32	49.35
Mississippi	2,956,148	1,714	57.97	58.27
United States	306,486,831	122,185	39.87	38.85
HP 2020 Target				<= 36.0

Unintentional Injury (Accident) Mortality, Age-Adjusted Death Rate (Per 100,000 Pop.)



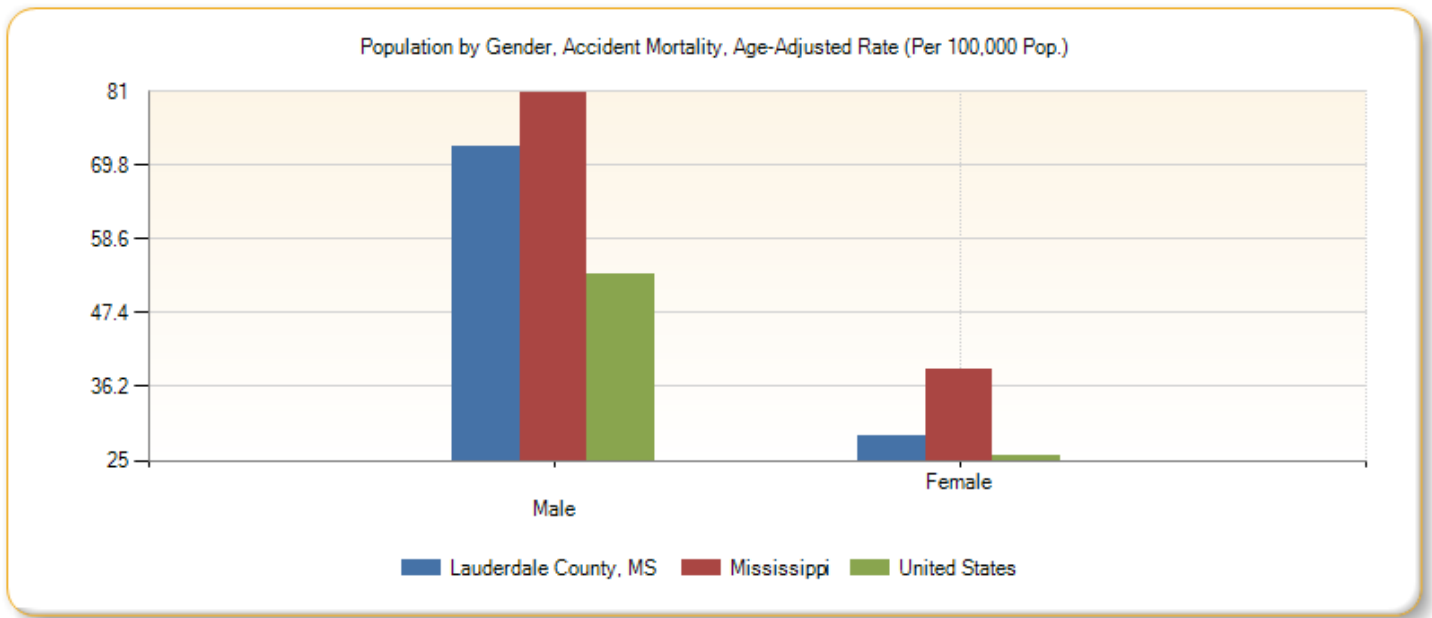
- Lauderdale County, MS (49.35)
- HP 2020 Target (36)
- United States (38.85)

Note: This indicator is compared with the Healthy People 2020 Target.

Data Source: Centers for Disease Control and Prevention, [National Vital Statistics System](#). 2007-2011. Accessed via [CDC WONDER](#). Centers for Disease Control and Prevention, [Wide-Ranging Online Data for Epidemiologic Research](#). Source geography: County

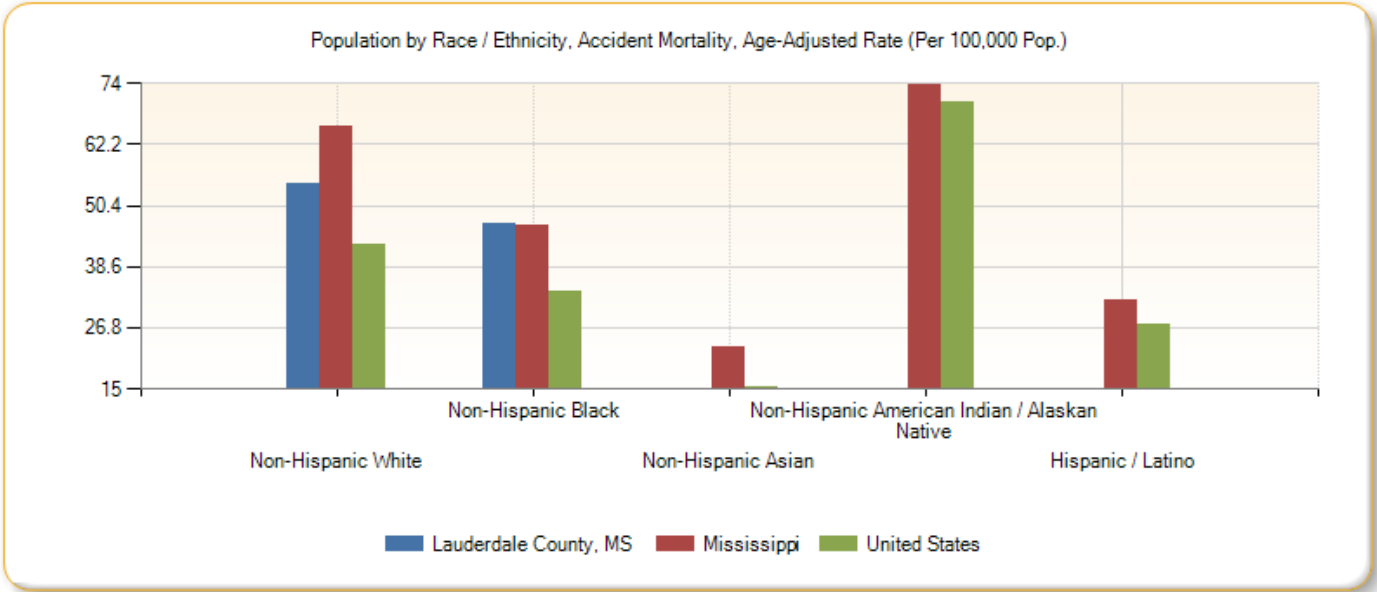
Population by Gender, Accident Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

Report Area	Male	Female
Lauderdale County, MS	72.64	28.74
Mississippi	80.64	38.67
United States	53.19	25.67



Population by Race / Ethnicity, Accident Mortality, Age-Adjusted Rate (Per 100,000 Pop.)

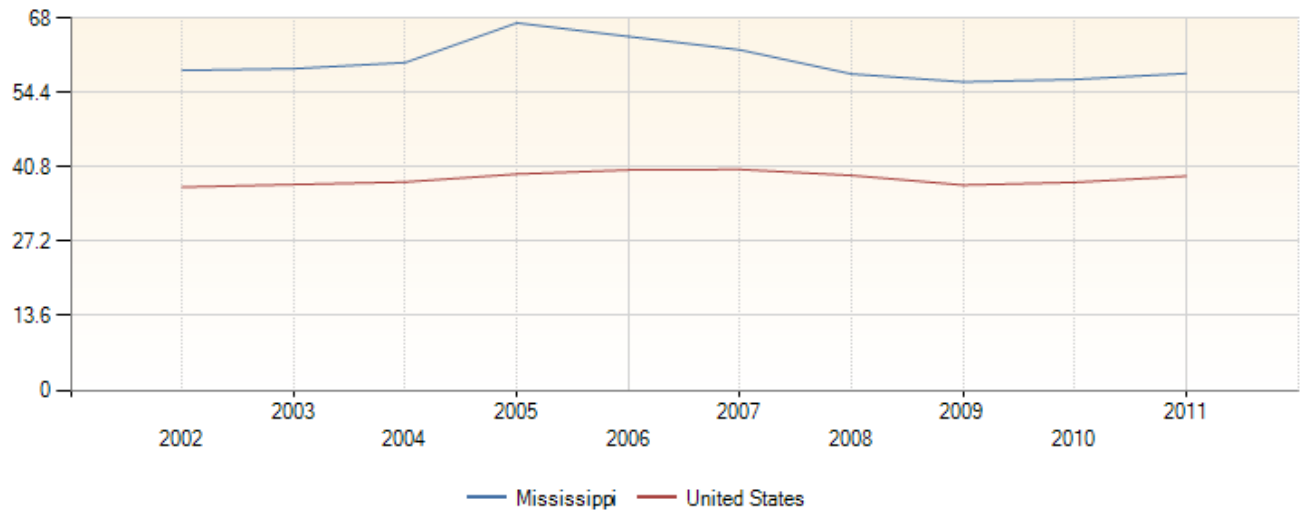
Report Area	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic Asian	Non-Hispanic American Indian / Alaskan Native	Hispanic / Latino
Lauderdale County, MS	54.73	46.81	no data	no data	no data
Mississippi	65.8	46.47	23.16	73.63	32.22
United States	42.93	33.86	15.56	70.31	27.38



Accident Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011

Report Area	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Mississippi	58.47	58.78	59.9	67.13	64.66	62.2	57.81	56.35	56.81	57.9
United States	37.12	37.59	38.06	39.51	40.24	40.36	39.25	37.49	37.99	39.13

Accident Mortality, Age-Adjusted Rate (Per 100,000 Pop.) by Year, 2002 through 2011



Obesity

35.2% of adults aged 20 and older self-report that they have a Body Mass Index (BMI) greater than 30.0 (obese) in the report area. Excess weight may indicate an unhealthy lifestyle and puts individuals at risk for further health issues.

Report Area	Total Population Age 20+	Adults with BMI > 30.0 (Obese)	Percent Adults with BMI > 30.0 (Obese)
Lauderdale County, MS	58,154	20,412	35.2%
Mississippi	2,138,513	754,973	35.31%
United States	228,794,129	62,704,376	27.19%

Percent Adults with BMI > 30.0 (Obese)



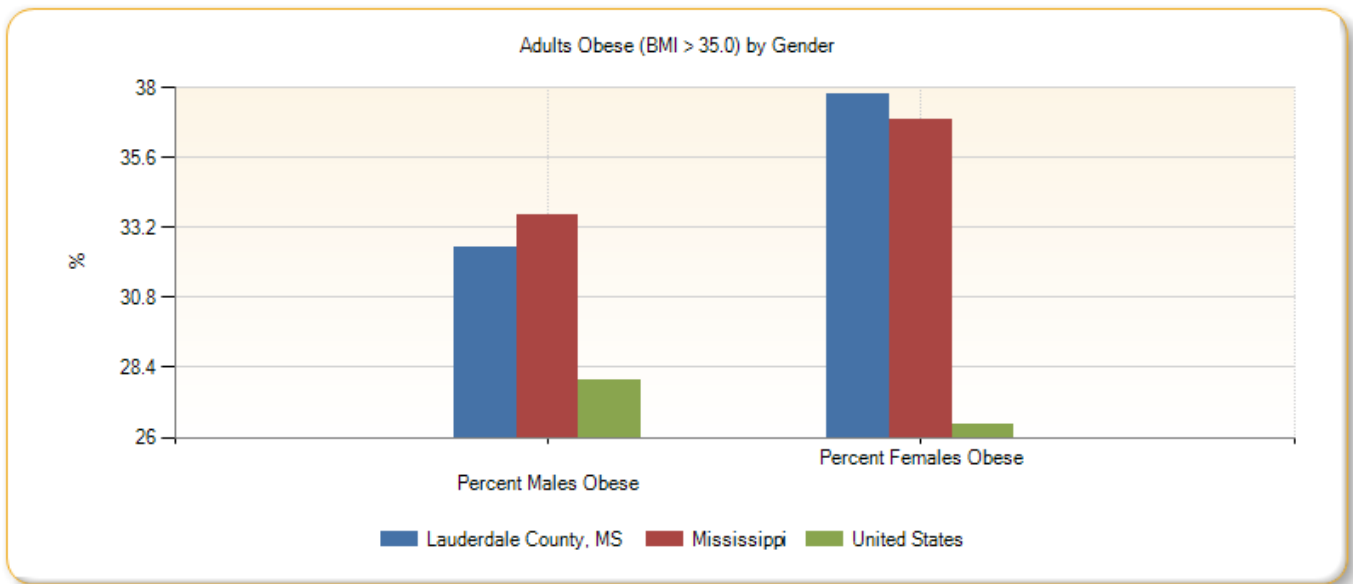
- Lauderdale County, MS (35.2%)
- Mississippi (35.31%)
- United States (27.19%)

Note: This indicator is compared with the state average.

Data Source: Centers for Disease Control and Prevention, [National Center for Chronic Disease Prevention and Health Promotion](#).2011 Source geography: County

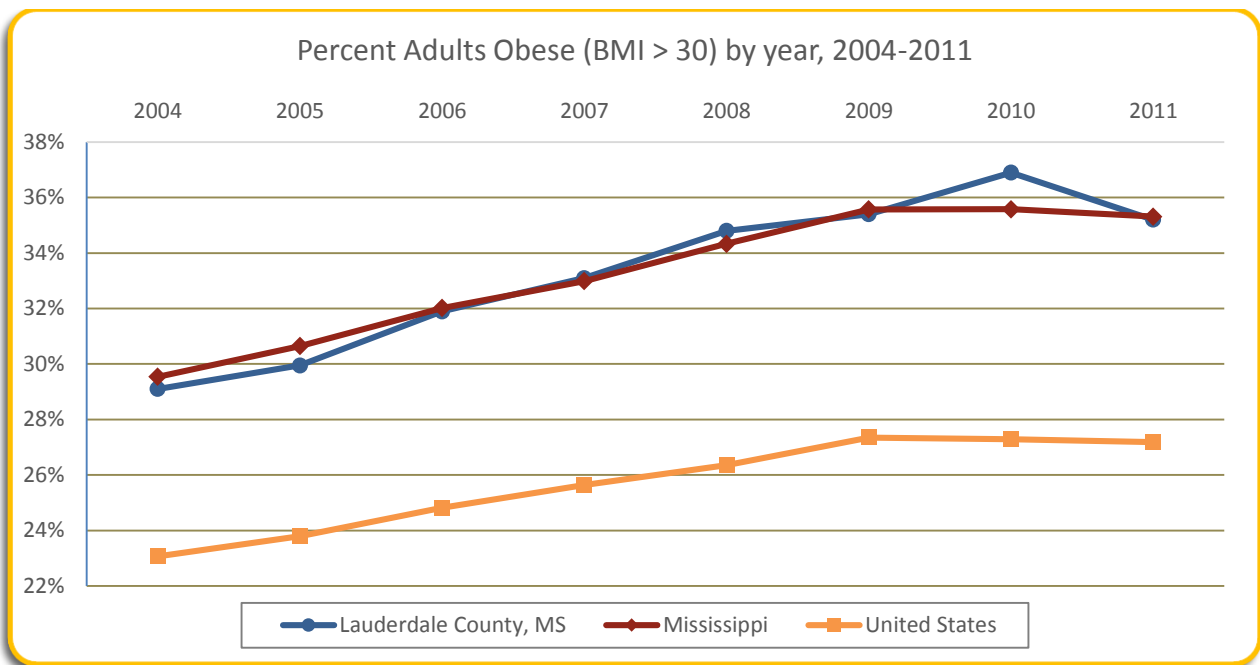
Adults Obese (BMI > 30.0) by Gender

Report Area	Total Males Obese	Percent Males Obese	Total Females Obese	Percent Females Obese
Lauderdale County, MS	9,033	32.5%	11,378	37.8%
Mississippi	344,000	33.6%	410,976	36.92%
United States	31,324,487	27.97%	31,379,939	26.43%



Percent Adults Obese (BMI > 30.0) by Year, 2004 through 2011

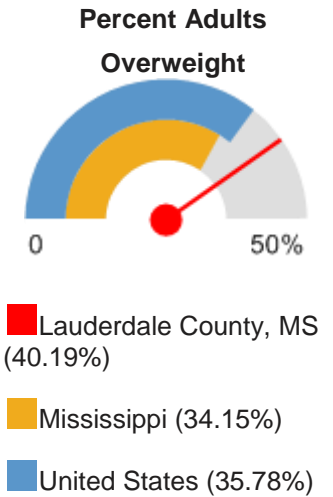
Report Area	2004	2005	2006	2007	2008	2009	2010	2011
Lauderdale County, MS	29.1%	29.95%	31.9%	33.1%	34.8%	35.4%	36.9%	35.2%
Mississippi	29.54%	30.65%	32.02%	32.99%	34.33%	35.57%	35.58%	35.31%
United States	23.07%	23.79%	24.82%	25.64%	26.36%	27.35%	27.29%	27.19%



Overweight

40.19% of adults aged 18 and older self-report that they have a Body Mass Index (BMI) between 25.0 and 30.0 (overweight) in the report area. Excess weight may indicate an unhealthy lifestyle and puts individuals at risk for further health issues. Combining percentages for Obese and Overweight totals just over 75%

Report Area	Survey Population (Adults Age 18+)	Total Adults Overweight	Percent Adults Overweight
Lauderdale County, MS	48,741	19,590	40.19%
Mississippi	2,111,734	721,257	34.15%
United States	224,991,207	80,499,532	35.78%



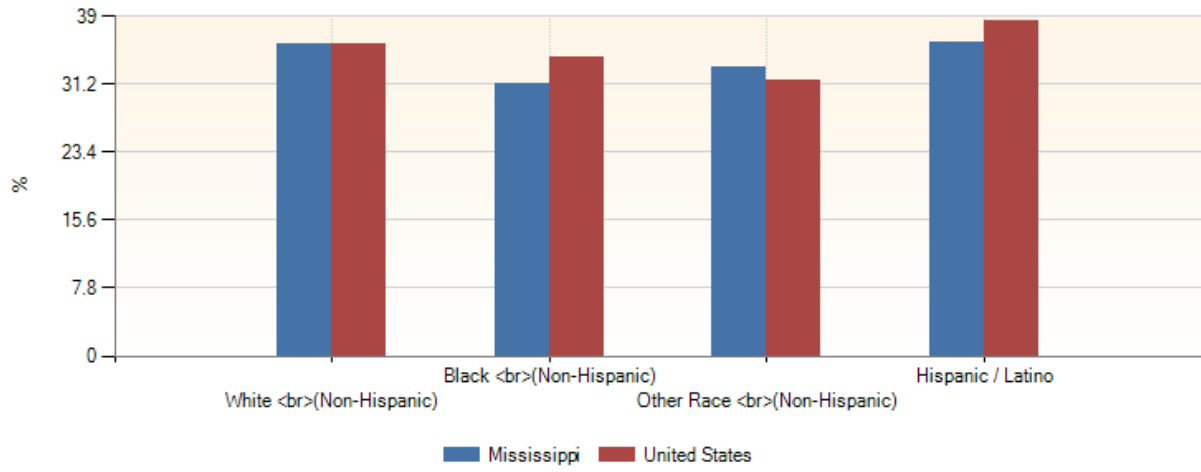
Note: This indicator is compared with the state average.

Data Source: Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#). 2011-2012 Additional data analysis by [CARES](#). Source geography: County

Adults Overweight by Race / Ethnicity, Percent

Report Area	White (Non-Hispanic)	Black (Non-Hispanic)	Other Race (Non-Hispanic)	Hispanic / Latino
Mississippi	35.74%	31.29%	33.07%	36.03%
United States	35.85%	34.31%	31.61%	38.43%

Adults Overweight by Race / Ethnicity, Percent



Poor Dental Health

This indicator reports the percentage of adults age 18 and older who self-report that six or more of their permanent teeth have been removed due to tooth decay, gum disease, or infection. This indicator is relevant because it indicates lack of access to dental care and/or social barriers to utilization of dental services.

Report Area	Total Population (Age 18+)	Total Adults with Poor Dental Health	Percent Adults with Poor Dental Health
Lauderdale County, MS	59,442	14,987	25.21%
Mississippi	2,199,741	554,988	25.23%
United States	235,375,690	36,842,620	15.65%

Note: This indicator is compared with the state average.

Data Source: Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#). 2006-2010 Additional data analysis by [CARES](#). Source geography: County

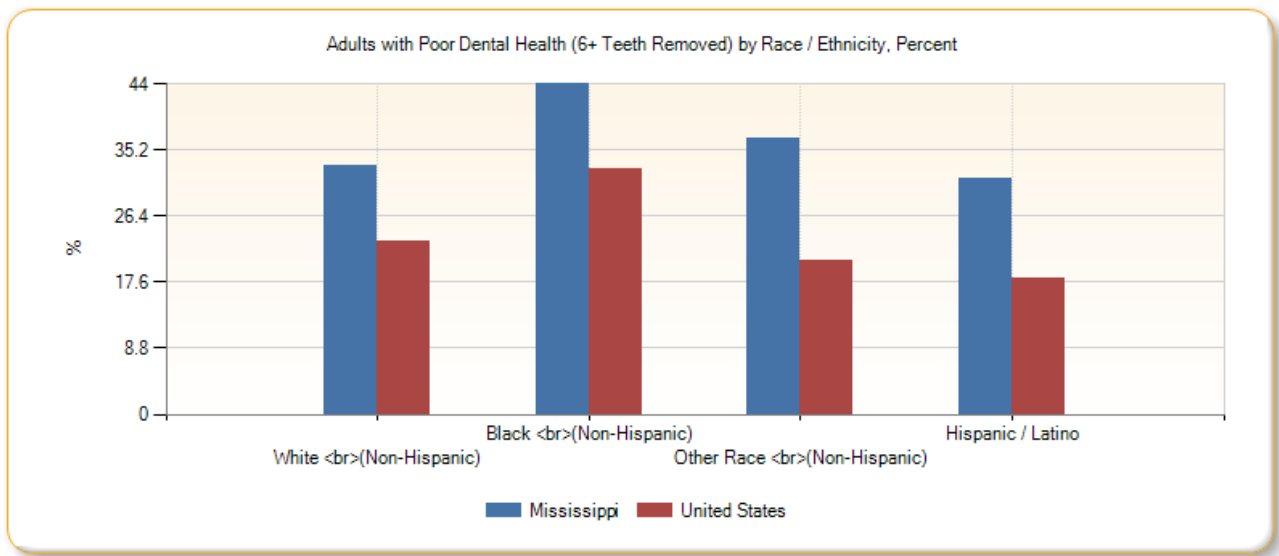
Percent Adults with Poor Dental Health



- Lauderdale County, MS (25.21%)
- Mississippi (25.23%)
- United States (15.65%)

Adults with Poor Dental Health (6 Teeth Removed) by Race / Ethnicity, Percent

Report Area	White (Non-Hispanic)	Black (Non-Hispanic)	Other Race (Non-Hispanic)	Hispanic / Latino
Mississippi	33.19%	44%	36.67%	31.42%
United States	22.98%	32.63%	20.47%	18.05%



Poor General Health

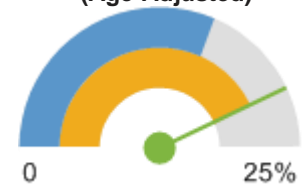
Within the report area 22.4% of adults age 18 and older self-report having poor or fair health in response to the question "Would you say that in general your health is excellent, very good, good, fair, or poor?". This indicator is relevant because it is a measure of general poor health status.

Report Area	Total Population Age 18+	Estimated Population with Poor or Fair Health	Crude Percentage	Age-Adjusted Percentage
Lauderdale County, MS	59,832	13,402	22.4%	21.5%
Mississippi	2,199,741	492,742	22.4%	21.5%
United States	232,556,016	37,766,703	16.24%	15.74%

Note: This indicator is compared with the state average. Data breakout by demographic groups are not available.

Data Source: Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#). 2006-2012. Accessed via the [Health Indicators Warehouse](#). Source geography: County

Percent Adults with Poor or Fair Health (Age-Adjusted)



- Lauderdale County, MS (21.5%)
- Mississippi (21.5%)
- United States (15.74%)

Health needs identified in the population data.

Clearly, the health needs of Lauderdale County are diverse, affecting every segment of the population. Considering the proportion of the population affected and the relative severity when compared to state and national prevalence rates, several critical health needs surfaced in the data. In terms of health behaviors, *Physical Inactivity* (30.7% of Lauderdale Co. adults get no exercise) and *Tobacco Usage* (22.3% of adults smoke cigarettes) stand out as significant maladaptive lifestyle patterns. In terms of health outcomes, *Obesity* and *Diabetes* top the list. Lauderdale County's obesity rate is 36.9%, and its diabetes prevalence rate is 14.7%. Patient Mortality due to *Lung Disease*, *Heart Disease*, and *Stroke* also stood out as areas of high need, with high mortality rates, relative to national benchmarks. These findings will be compared with results from qualitative data analysis and final priorities/recommendations will be made.

Qualitative Studies

Key Informant Interviews

To gather important information and opinion about the health needs of the community, Key Informant Interviews were conducted with community leaders representing various organizations including the Mississippi Department of Health, Greater Meridian Health Clinic, Weems Community Mental Health, and several community service organizations—each playing an important role in the community. These informants are well aware of healthcare issues facing those they serve and their respective organizations represent the broader interests of the community at large and especially the underserved.

Method

Each interview was structured similarly, and averaged 45 minutes. Questions were open-ended, and designed to capture the informants’ perceptions and rankings of the most critical health challenges facing the community. To further benefit from the knowledge and expertise of the interviewees (several of whom have expertise in public health), we asked for their thoughts and opinions about the root causes of health problems, potential solutions to these problems, and barriers to achieving success in implementing programs to address areas of need. Careful notes were taken during the interviews, which were also recorded. Recordings were transcribed, categorized thematically, and summarized into general statements with numbers of mentions reflecting the number of statements across all interviews that could be categorized as such.

Participants of Individual Interviews:

Key Informants	Affiliation
Becky Glover, Director	Community Foundation of East MS P.O. Box 865 Meridian MS 39302-0865 601-696-3035 http://cfem.org
Andy Hodges, Community Agency Coordinator	Wesley House Community Center 1520 8 th Ave Meridian, MS 39301 601-485-4736 http://www.wesleyhousemeridian.org
Ronald J. Turner, Executive Director	Meridian Housing Authority 2415 E Street P.O. Box 870 Meridian, MS 39302 601-693-4285 http://www.meridianhousing.net

Ricky Hood, Executive Director	East MS Boys and Girls Club 1717 45th Avenue Meridian, MS 39307 Office: 601.482.2544 http://eastmsbgc.org
J.T. (Thad) Quarles, CEO	United Way of East Mississippi 2003 23rd Avenue Meridian, MS 39301 or P.O. Box 5376 Meridian, MS 39302 (601) 693-2732 (601) 693-2748 fax http://www.unitedforunitedway.org/
Chrisadel Heath, MD Clinic Medical Director	Anderson Regional Medical Center, River birch Clinic 2514 67 th Ave Loop Suite 112 Meridian, MS 39307 www.andersonregional.org
Cheryl Isaac, Tribal Liaison	Mississippi Band of Choctaw Indians/Anderson Regional Medical Center MS Band of Choctaw Indians 101 Industrial Road Choctaw, MS 39350 601-616-5251 http://www.choctaw.org
Debbie Mathis, Manager of Operations	East MS Business Development Corporation 1901 Front Street, Suite A P.O. Box 790 Meridian, MS 39302 http://embdc.org
Angela Hicks, Interim Executive Director	Multi-County Community Service Agency 2906 St. Paul Street P.O. Box 905 Meridian, MS 39302 (601) 483-4838 or www.yourmccsa.com
Rebecca James, MD, Health Officer, District VI	MS Department of Health District 6

	District 6 Office 3128 Eighth St, Meridian, MS 39302 Telephone: 601-482-3171 http://msdh.ms.gov
Wilbert Jones, Executive Director Former state legislator, District 82, Mississippi House of Representatives	Greater Meridian Health Clinic 2701 Davis Street Meridian, MS 39301 Phone: 601-693-0118 Fax: 601-483-8803 http://www.gmhcinc.org
Susan H. Carmichael, PhD, LPC Quality Measures/Staff Development Officer Human Resources Director Weems Community Mental Health Center State Board of Examiners for Licensed Professional Counselors	Weems Community Mental Health 1415 College Drive Meridian, MS 39307 601-483-4821 www.weemsmh.com

Results

Across all interviews, similar responses were noted regarding broad based health needs in this community and region. These “major themes” reflected much of what is known through state and national health databases. The interviews did, however, yield several statements related to root causes and barriers that the informants’ proposed causes of and solutions to health problems/needs varied according to their personal experience and the population they and their organization serve. The results of these interviews are summarized here:

Greatest Health Issues:

- Lifestyle-Related Health Problems
 - Obesity
 - Heart disease
 - Diabetes
 - Stroke
 - Hypertension
- Children and Youth/Adolescent Issues
 - Overweight/obesity
 - Teen Pregnancy
 - Sexually Transmitted Diseases
 - Drug and Alcohol Use
- Lack of preventive care

- Cancer
- Mental Health

Potential Root Causes:

Key Informants’ Root Causes of Health Problems	No. of Mentions
Lack of Health Knowledge/Education	8
Poverty	7
Lack of access to exercise sites	5
Dietary behavior	4
Sedentary lifestyle	3
Short-term thinking	3
Apathy-Lack of desire to be healthy	2
Costs of Medical Coverage	2
Cost of Medications	2
Parents' choice of food purchases	1
Children are being exposed to substance abuse at an early age	1
Unemployment/underemployment	1
Parents are too busy	1
Lack of financial education among low income groups	1

- Lack of education about the relevance and importance of preventive care and healthy lifestyles was mentioned more often than any other root cause.
- Poverty was also mentioned frequently. Low Income also tends to be associated with short term priorities. Preventive care/routine checkups are not typically viewed as a priorities. Lack of financial resources creates stress on individuals and families, which can exacerbate mental health problems along with elevating potential for domestic violence.
- Cultural issues play a role that spans across income groups.
- Children’s “lifestyle-related” health issues, to a large extent, find their root cause in the home and school systems in which children live. Norms have shifted. Parents allow children to consume excessive “junk food,” and don’t encourage physical activity (e.g., outdoor free play). Schools, over the years, have limited access to free play and ceased requiring students to participate in PE classes, and/or sports. Each of these, along with excessive sedentary “screen time,” have led to a youth obesity crisis that is sure to have significantly detrimental long-term health and economic outcomes.

Barriers:

- Lack of transportation was the most widely mentioned barrier among interviewees
- The competition (i.e., “rivalry”) between local hospitals was second, being mentioned by about half of the key informants.
- Cost – will solutions be affordable? Where will funding come from.
- Lack of Insurance was mentioned by several as a major barrier
- Finally, educating adults about health is “difficult until they’re faced with the problem directly”

Proposed Solutions/Programs:

Key Informants’ Proposed Solutions	No. of Mentions
Health Education (through Health providers, Health Fairs and publicity campaigns	5
More places for children to play (Playgrounds, places to go, healthy activities, etc)	4
School Based Programs: (e.g., "Robust family wellness and prevention programs should be administered through school systems")	3
Hospitals should collaborate with Greater Meridian Health Clinic	3
Funding for programs	3
Bring in more industry/jobs	3
Hospitals should collaborate with Weems Community Mental Health Center	2
Collaborate, Funding sources are looking for collaboration too.	2
Better communication with low income population about how to access services offered by the hospitals	2
Hospital Billing practices scare people	2
Churches need to be involved	1
Local Hospital based programs to help the uninsured, Doctors could volunteer - Help for the indigent. "Hospitals should do more on the front end"	1
Discounted gym fees	1
More public transportation	1
More organized eldercare	1
Behavioral/Psychological weight management	1

- Make preventive care affordable and where possible, incentivize patients for getting their check-ups.
- Create a means of effectively distributing health information to the populations at greatest risk.
- Work to create culture change so that being healthy and fit becomes part of one's overall goals to being "successful." This is particularly relevant to those working with children and youth.
- Create more opportunities for recreation and fitness: Safe access for children to walk to school, easier access to Bonita Lakes, and less expensive memberships to existing fitness clubs/facilities. Create "Family Fitness" programs. The prospect of developing a YMCA was also mentioned, as well as fostering a sense of belongingness among new members of existing fitness centers. Involve Churches in the education and marketing of healthy lifestyles.
- Create stronger linkages between agencies (e.g., partnerships between Greater Meridian Health Clinic (an FQHC) and the hospitals, to set up a clinic to provide care for non-emergent cases to be referred out of hospital emergency rooms during afterhours and on weekends).

Summary of Focus Groups

Method/Process

To extend the base of knowledge gleaned from key informant interviews, focus groups were held on the campus of Anderson Regional Cancer Center. The first focus group included members of the health advisory board of the United Way, and was held on January 21st, 2015. The second group included participants who were recruited by direct invitation based on their individual work with the underserved population, including the elderly, low-income, minority, and the very young. The second focus group was held February 4th, 2015 at the same location.

Participants of Focus Group #1, held January 21, 2015:

Focus Group Participant	Title	Affiliation
Thad Quarles	Chief Executive Officer	United Way P.O. Box 5376 Meridian, MS 39302 (601) 693-2732 (601) 693-2748 fax http://www.unitedforunitedway.org
Damon Wise	Chairman of the Board	United Way
Sara Odom	VP, Resource Development and Communication	United Way
Jay Howell	Board Member; Employee of Rush Health Systems	United Way
Stephanie Davidson-Womack	Public Policy Officer	United Way
Thomas L. Tabereaux	Retired Senior Volunteer Program	United Way

Participants of Focus Group #2, held February 4, 2015:

Focus Group Participant	Title	Affiliation
Kathy Anderson	Director/Instructor	Meridian Activity Center

Khristen Cockrell	DPS	American Red Cross Key Chapter (East Central MS) 1820 23rd Ave, Meridian, MS, 39301 601-485-5151 http://www.redcross.org/mississippi/about/chapters/east-central
Ann Compton, RN	School Nurse	Meridian Public Schools MPSD Central Office 1019 25th Ave Meridian, MS 39301 601.483.6271 http://www.mpsd.k12.ms.us
Dan Fritts, Licensed Physical Therapist	Director	Camp Eagle Ridge (non-profit camp for able and special needs children) 9099 A Collinsville Rd. Collinsville, MS 39325 601-626-8885 http://campeagleridge.org
Robert Kendrick	Director	Feed by Faith Ministry P.O. Box 1064 Meridian, MS 39301 601-483-8999 http://feedbyfaith.org/
Pearline Burdette	Volunteer	Feed by Faith Ministry (see above)
Susie Broadhead	Director of Public Relations, EMSH	East MS State Hospital 1818 College Drive Meridian, MS 39307 601-581-7600 http://www.emsh.state.ms.us

	Board Member for LCCA	Lauderdale County Council on Aging, Inc. 3300 32 nd Ave Meridian, MS 39305
Colby Campbell	Disaster Recovery	American Red Cross Key Chapter (East Central MS) 1820 23rd Ave, Meridian, MS, 39301 601-485-5151 http://www.redcross.org/mississippi/about/chapters/east-central
Leslie Payne	Executive Director	Care Lodge Domestic Violence Shelter P.O. Box 5331 Meridian, MS 39302 601-482-8719 http://www.carelodge.com
Carlotta Downing	Director of Foster Grandparent Program	Multi-County Community Service Agency 2906 St. Paul Street P.O. Box 905 Meridian, MS 39302 (601) 483-4838 or www.yourmccsa.com
Quinta Thomas	Teacher, Northwest Middle School, 6 th grade	Meridian Public Schools MPSD Central Office 1019 25th Ave Meridian, MS 39301 601.483.6271 http://www.mpsd.k12.ms.us
Tina Aycock	Executive Director	Hope Village for Children P.O. Box 26 Meridian, MS 39302 601-553-8660 http://www.hopevillagemms.org

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The focus groups were introduced to the facilitators, who explained that the goal of the project was to identify and prioritize local community healthcare needs and that the focus group was structured to provide key information to augment the survey and archival data pertaining to the health status of the community.

Specifically, the focus group was asked to consider:

1. Strengths and weaknesses of the community and its healthcare system;
 2. Major health issues of the community, with special attention to children, elderly, low income, and minority groups
 3. Recommendations and/or priorities
-

HEALTHY COMMUNITIES

Strengths and Weaknesses

Strengths of community in general:

- Good locale for economic development; located near two interstates, major railway system, and close to coastal ports
- Very family oriented area, great place to raise a family.
- Hospitality
- One participant stated that moving to Meridian from _____ (intentionally blank) he saw lots of positives such as retail, the arts, restaurants, better school systems, lower crime rate, and more industry.
- Many volunteer groups

Weaknesses of community in general:

- Economic development could be improved; tough to recruit and retain robust industry here;
- Need better paying jobs; poor education here, which makes economic development more difficult.
- Lack of effective communication to many people who would benefit from various services

Strengths of healthcare system:

- Two large medical centers within our community
 - Diverse array of services offered; good availability of medical care
 - Competent physicians; access of “choice” of providers
 - High availability of primary care; low wait times for PC physicians.
-

Weaknesses of healthcare system:

- Lack of access to transportation for seniors, the low income, and for people in outlying areas;
- A large group of people work but can't afford private insurance, and do not qualify for Medicaid.
- The mental health system was put under pressure to release patients (least restrictive environment), now many of these patients are out on the streets.

Groups more adversely affected by health issues

Children:

- Numerous issues affect the children in our community; the group overwhelmingly stated many problems occur in the home.
- school systems are viewed as a "babysitting service".
- Drugs are a major issue, whether it's the child bringing them to school to sell, starting at the age of kindergarten, or the child is exposed to drugs in the home (i.e. parent is on drugs).
- A possible "anti-vaccine" environment growing in our area
- Pregnancy among teens, and even younger females in the 4th-6th grade age group is a major problem.
- Obesity is also a large problem among our youth. Low income families and lack of parental understanding leads to poor nutrition. Families can't afford to buy healthier foods.
- There are children who are "under-nourished", meaning very little food is provided in the home.

Low income:

- Poverty leads to all sorts of health issues across all groups of people (i.e. children, elderly, and minority). "Poor people eat the worst because cheap food is often bad food."
- In terms of individual and family income, several attendees mentioned the struggle faced by some who try to work 2-3 jobs to get off of public assistance, while others seem to "abuse the system" by avoiding employment out of fear that they will lose their government assistance. It was revealed that the middle class views the poor as a problem, and there appears to be a fundamental disconnect between the "haves and have nots."

Elderly:

- There is a gap in availability of nursing home facilities for the elderly in our area. The cost is such that the middle class can't afford this level of care, only Medicaid recipients or the super wealthy could afford a nursing home. believed this group, along with elderly veterans, are the "forgotten group" within our community, and it's a large issue not being addressed.

Minority:

- One focus group expressed deep concern over the topic of race and how it needed to be addressed within our community.
- “Culturally,” many kids do not have access to health programs such as fitness centers, or safe areas outdoors to exercise.
- Several in the group believe many minority children “fall between the cracks.” One participant stated we don’t want “self-fulfilling prophecies, and we’re all in the same sandbox a must learn to get along.”

Possible solutions to health problems

- Incorporate health classes into local schools.
- Incorporate health/wellness checks into local schools 1-2x/year that consist of BP check, temperature, basic vital signs, etc.
- A “healthy van” or mobile unit visiting schools was also discussed as an option.
- Continue to have healthy meals in schools; limit access to junk food. One group participant stated an example used by Kemper county public schools. She stated they had a fresh fruit program where the morning snack consisted of a piece of fresh fruit. She stated this jumpstarted a habit of healthy eating and the children looked forward to having a healthy snack each day.
- One group member stated some convenient stores across the state have implemented a “healthy kiosk” where healthy snacks, such as fruit, are within 20 feet of the cash register.
- The group also agreed the accountability of parents must be taken into consideration when addressing health concerns. This means a responsible adult must be present within the home to insure a child’s healthcare needs are being addressed, whether it’s proper nutrition or exercise.
- General safety within the community needs to be improved. The focus group stated there seems to be a lack of safety overall within Meridian. Kids need a safe environment to ride bikes and run outside. It was mentioned that the Village Fair mall area could be a well located recreational site to which inner-city kids could safely walk to exercise.
- The Upward basketball program provided by local churches was mentioned as a healthy activity for children. The program includes basketball, as well as cheerleading.
- The Boys and Girls Club is also a safe area for kids to exercise, along with the Northeast softball/soccer complex, and Bonita Lakes.
- The group believed children’s access to video games should be limited vs. outdoor activity.
- One group member mentioned this area needs a “government assisted” fitness facility such as the YMCA. She stated the community only has privately owned fitness facilities and many can’t afford the membership fees.
- It was mentioned that a having a facility such as *UMMC’s Medical Mall* would be an asset to the community. The facility could include fitness and nutrition classes, along with financial education.

Recommendations/Priorities of the Focus Groups

- **Obesity** is a priority
 - **Teen pregnancy** is a priority
 - Being overweight is “the norm” and for some “having a child at school” is also a norm. Develop cultural change programs that will change these norms.
 - **Community Safety** is a priority. Overall, safety needs to be increased in the community, work on improving the local crime rate, as well as safe routes to school and safety at home for children.
 - Develop more **outdoor recreation** opportunities. The majority of the focus group participants would like to see bike/walking lanes added around town (as well as better access to Bonita Lakes and other area parks). They stated Meridian could be “a more exercise friendly town”. One participant did note an increased interest in running within the community. She would like to see more open spaces and areas for healthy outdoor recreation.
 - Incorporate churches for physical activity programs. As a sponsor, the churches could do something as simple as offering up their parking lots for basketball games for the youth.
 - **Health education and wellness programs.** Hold health fairs but “Make health festivals fun.” One participant used the example of *Wells Fest* in Jackson. This could be a way to draw more attendees by having concerts along with a health fair.
 - Talk with business leaders who have implemented corporate wellness programs with success. Model community efforts in a similar way.
 - Two focus group participants also mentioned how important it is to start getting people out of the emergency room for non-emergent illnesses such as coughs and colds. “The ER is throwing money in the wind and no one is getting healthy,” stated one participant.
-

Conclusions from Interviews and Focus Group

Regarding the qualitative information gleaned from the Key Informant Interviews and the Focus Group, it was concluded that there was a fairly high level of crossover between the concerns of each group. The general consensus was that Meridian offers a wide array of healthcare services and in general, the quality of these services is highly regarded in the community. The connection between poverty and poor health was certainly the most pressing issue of concern. Also, the fact that Mississippi continues to rank at the bottom of many state rankings of health status was an issue that calls into question the behavioral choices made by individuals in this community. The recommendations

Optimum health for this community will not be achieved by simple expansion of service. The degree to which additional services offered may improve the community’s health status will, in many cases, be mediated by the degree to which patient behavior (diet, exercise, and medical compliance) is better managed.

Resources

Lauderdale County has a multitude of Health and Social resources. In developing an implementation plan, ARMC will reach out to the agencies that participated in the Qualitative process, and work from there in an effort to seek effective collaborative partnerships to address these health needs.

Information Gaps

One significant gap has appeared. This relates to current data regarding mental health issues facing the population. Mental health/Mental Illness needs have emerged, however, it is unclear precisely how these issues are manifesting and what might be accomplished. ARMC will further collaborate with local mental health agencies to determine what, if anything, might be done to assist.

Brief Paper Survey

A paper survey was administered to all interview and focus group participants to add quantitative data to this report. The results of this survey are presented here.

Participant Data:

Survey respondents’ age ranged from 32 to 77 yrs., with an average age of participant age of 57.89 yrs. (n=27, 1 did not answer). Twelve were male (42.9%), while 16 were female (57.1%). All but two respondents live in Lauderdale County.

Survey Table 1: Residency (County)

Are you a resident of Lauderdale County?		
Answer Options	Response Percent	Response Count
Yes	93.1%	27
No	6.9%	2
<i>answered question</i>		29
<i>skipped question</i>		0

Survey Table 2: Residency (City)

Do you live within the Meridian City Limits? (If not, please take the survey anyway)		
Answer Options	Response Percent	Response Count

Yes	58.6%	17
No	41.4%	12
<i>answered question</i>		29
<i>skipped question</i>		0

Survey Table 3: Male/Female

Your Sex		
Answer Options	Response Percent	Response Count
Male	41.4%	12
Female	58.6%	17
<i>answered question</i>		29
<i>skipped question</i>		0

Survey Table 4: Children living in household

Are there any children or young adults under 18 currently living in your household?		
Answer Options	Response Percent	Response Count
Yes	34.5%	10
No	65.5%	19
<i>answered question</i>		29
<i>skipped question</i>		0

Survey Table 5: Educational Level

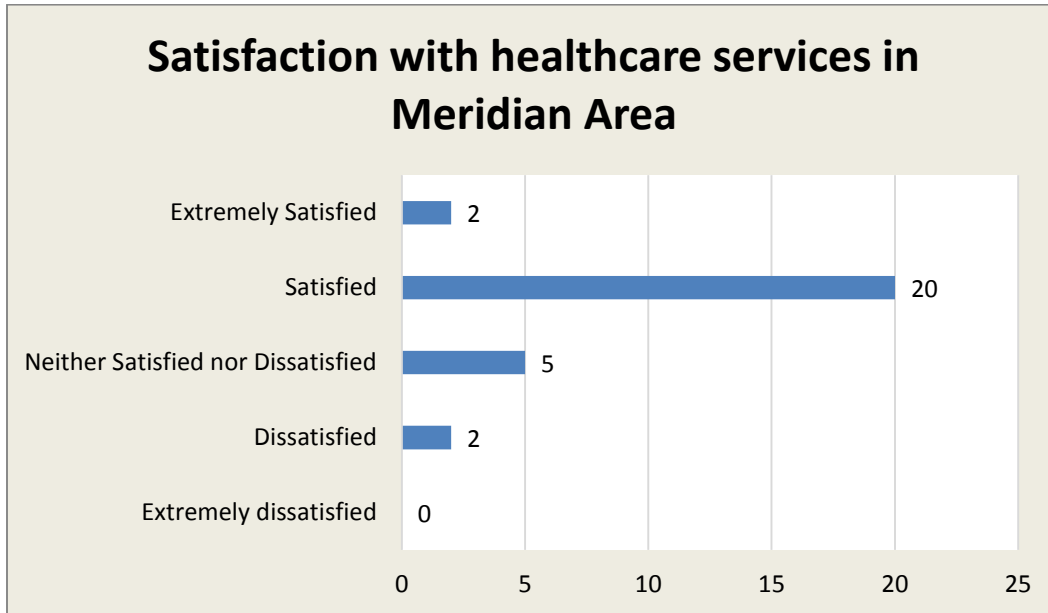
What is the highest level of education you have completed?		
Answer Options	Response Percent	Response Count
Graduate Degree (masters, doctorate, etc)	35.7%	10
College Graduate (bachelors degree)	32.1%	9
Some Graduate courses	14.3%	4
Some College	10.7%	3
Less than 12 years	3.6%	1
High School Graduate or GED	3.6%	1
<i>answered question</i>		28
<i>skipped question</i>		0

Survey Table 6: Familiarity with at-risk populations

In your occupation (or volunteer work), do you work with any of these populations		
Answer Options	Response Percent	Response Count
Children	93.1%	27
The Elderly	79.3%	23
Medically Underserved	79.3%	23
Individuals with "special needs"	79.3%	23
<i>answered question</i>		29
<i>skipped question</i>		0

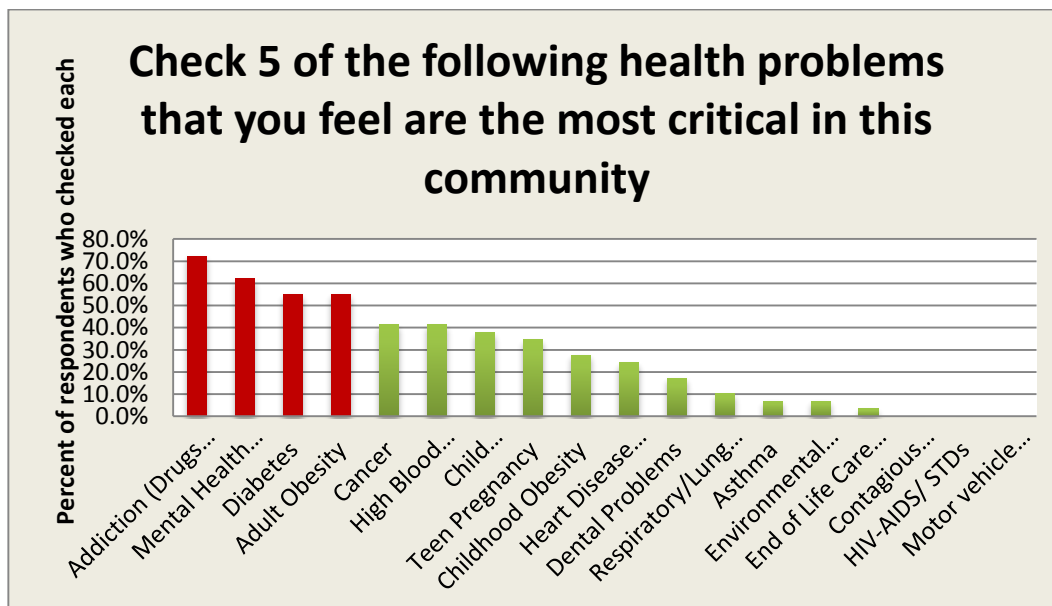
Community Health

Survey Figure 1: Level of Satisfaction with healthcare services



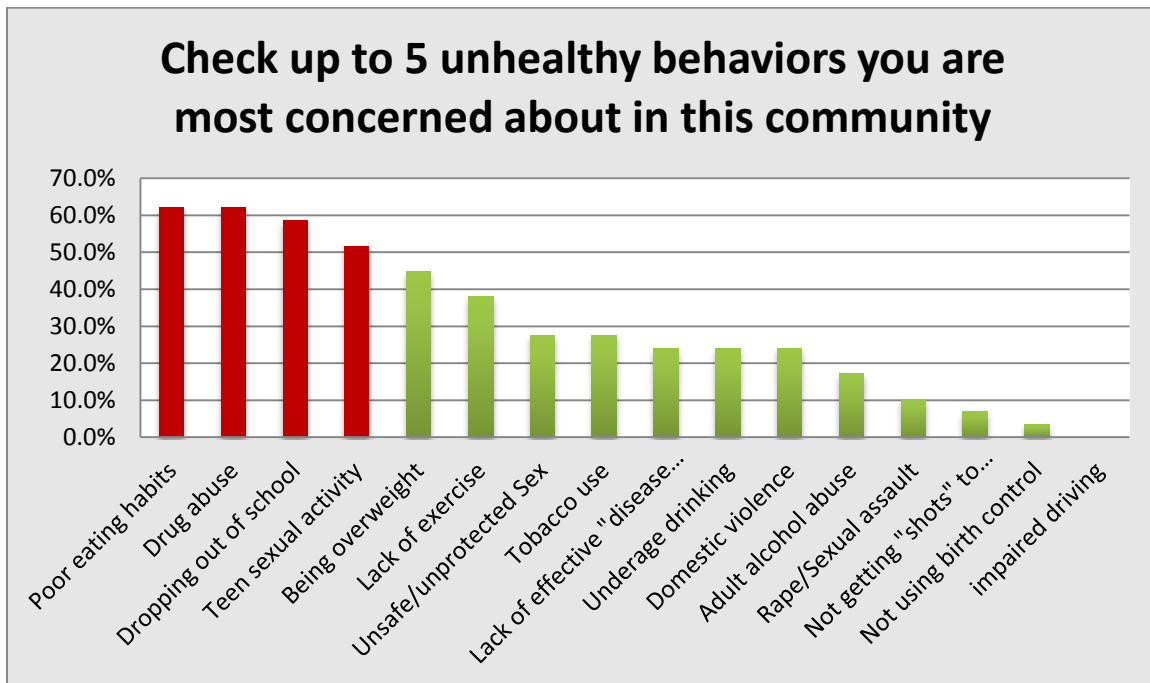
Survey Figure 2: Top health problems

Respondents were asked to check the top five top health problems in the community. The most often identified problems (selected by over 50% of the respondents) were Addiction, Mental Health Problems, Diabetes, Adult Obesity.



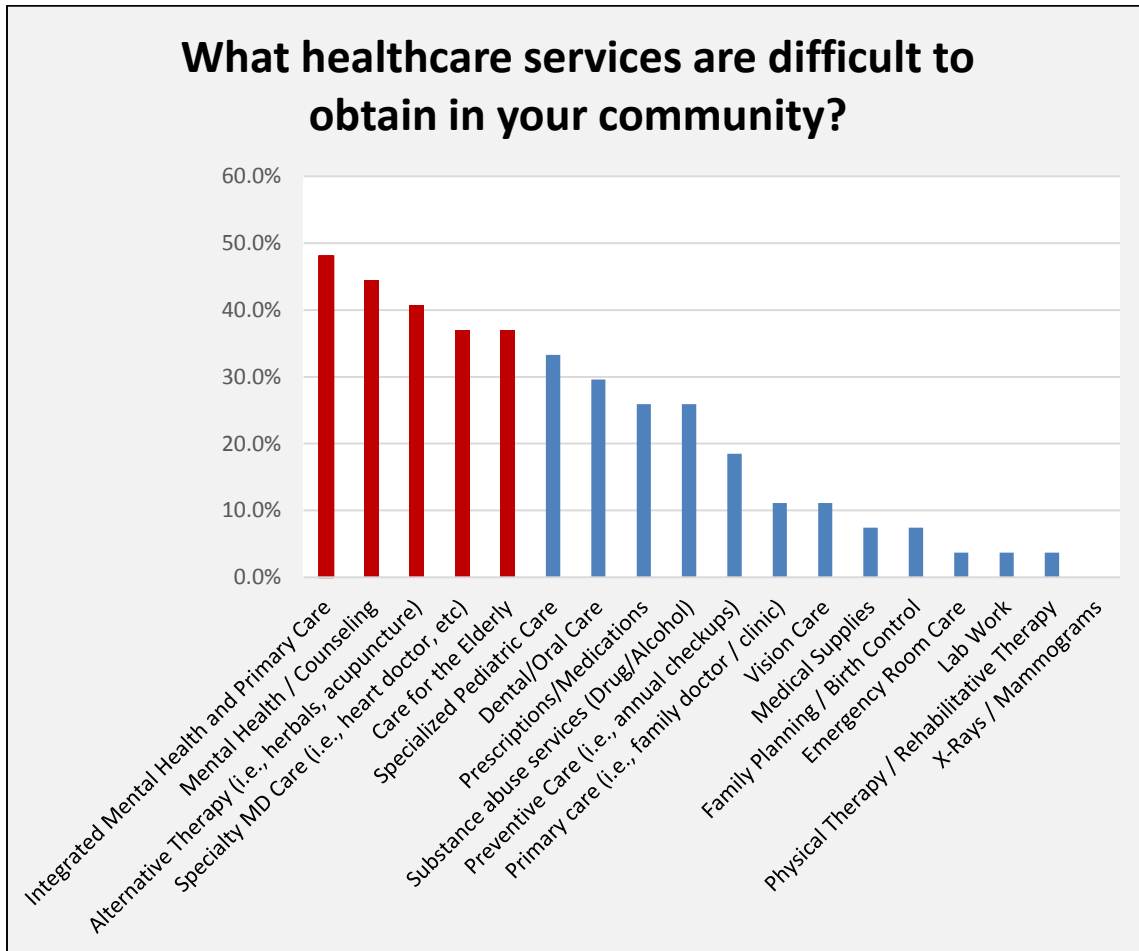
Survey Figure 3: Unhealthy behaviors of highest concern

Over half of the respondents selected the following behaviors of most concern: Poor Eating Habits, Drug Abuse, Dropping out of School, and Teen Sexual Activity.



Survey Figure 4: Services difficult to obtain.

Integrated mental health and Primary Care, Counseling, Alternative Therapy, Specialty care, and Elder Care were the top five services considered most difficult to obtain. It should be noted, however, that simply because a service is difficult to obtain, does not necessarily translate into a “need.” For instance, some questioned the need for Alternative Therapy, however, for the other four services, respondents agreed that there was a need, especially in terms of moving toward “Wellness” models of healthcare.



Survey Table 7: Barriers to Health Care

Over fifty percent of the respondents chose the following as what they perceive as most typical barriers: “Can’t pay for doctor visits” and “Lack of transportation,” each reflect economic pressures, and/or lack of social support. “Don’t know what types of services are available” points to a communication/education gap between health service organizations and their constituents.

Considering the broad interests of the community, what do you feel are the most typical barriers to residents getting health care? (check all that apply)

Answer Options	Response Percent	Response Count
Can't pay for Doctor/Hospital visits	78.6%	22
Don't know what types of services are available	60.7%	17
Lack of transportation	60.7%	17
Have no regular source of health care	42.9%	12
Long waits for appointments	39.3%	11
Lack of evening and weekend services for non-emergency needs	35.7%	10
Can't find providers that accept insurance	25.0%	7
Other (please specify)		3
<i>answered question</i>		28
<i>skipped question</i>		1

Other (please specify)

- patients with limited knowledge, access, and understanding
- lack of insurance
- value of services provided is not understood

Conclusion

This assessment employed a multi-method approach that included a review of existing federal and state data (*secondary data analysis*) paired with newly gathered data from the community (*primary data analysis*). The initial step in this process was to conduct “Key Informant” Interviews. Key informants are individuals who are heavily involved with and knowledgeable about the community of focus. This includes community leaders in the public and private sector, as well as individuals with special expertise in healthcare. Information gathered through these interviews, paired with public health information, vital statistics, and economic data provide a very good snapshot of the community’s health needs. To further augment our understanding of the needs of the underserved, two focus groups were held for the specific purpose of gathering ideas about how to better serve those with the greatest health risk: low-income, elderly, minority, disabled, and children/youth populations. The results of the interviews and focus group were compared and cross validated against the existing secondary data. Community health needs were then prioritized according to degree of overlap, severity, and resources.

In consideration of the information gathered through a variety of means, including existing state and federal data, Key Informant Interviews, Focus Groups, and survey, a high level of consistency across data sources emerged.

According to the Mississippi Public Health Institute (www.mpsi.org), the top health priorities for the state of Mississippi are *Physical Activity, Nutrition, Environmental Health, Obesity, Diabetes, Teen Pregnancy, Infant Mortality, and Tobacco use*.

For Lauderdale County, with the exception of *Environmental Health* and *Infant Mortality*, these priorities corresponded with health needs discovered through the key informant interviews and the focus group. These priorities were also cross-validated against secondary data with results confirming tobacco use and infant mortality as significant issues, though not environmental health. The following table summarizes the county, state, and national data for each of these domains.

Health Issue	Mississippi	Lauderdale County	United States
Percent of adults with inadequate fruit and vegetable Consumption	82.9%	79.1%	75.86%
Percent of adults reporting no leisure time physical activity	32%	31.6%	22.47%
Obesity (Body Mass Index greater than 30)	35.31%	35.2%	27.19%
Percent of adults diagnosed with diabetes	12.52%	14.5%	9.09%
Percent of adults who regularly smoke cigarettes	23.4%	22.3%	18.08%
Teen Birth Rate (per 1,000 female age 15-19)	59.4	58	36.6
Infant Mortality Rate (per 1,000 births)	10.1	10.8	6.52

In developing a priority list, *community opinion* about community health issues is hypothesized to be a critical component to facilitate “buy in” when community benefit implementation strategies are formulated. Priorities should also reflect the hospital’s capacity and resources available to address community health problems. It is also important to gauge the overall impact of various health issues, such as chronic illness, both economically and in terms of the number of people affected. In consideration of all data, the health needs that emerged were those that were most consistently found across all methods of inquiry. It is presumed, that if not addressed, these health problems will have a tremendously detrimental impact on the community. The resulting Health priorities are presented below.

Priorities

- **Reduce *Obesity* through health education directed at cultural change. An effective community-wide focus on healthy *Diet* and *Exercise* should reduce *Obesity* and *Diabetes*, while improving overall population health.**
- **Diabetes and Hypertension affect thousands of people in this county. For people with *Diabetes* and Hypertension other related health conditions, develop effective chronic disease management programs.**
- **Develop Programs to address youth health issues: Teen Pregnancy, Obesity, and Drug Use**
- **Strengthen Health Education for the community at large, Conduct more screenings for Cancer, Heart Disease, Hypertension, and Diabetes, especially in the at risk categories of Low Income and Minority.**
- **Explore opportunities for partnering with other agencies to support services for the elderly, including case management and transportation services.**
- **Explore Mental Health Issues and work with local mental health agencies to address problems identified in survey and focus groups.**

Appendix A

Author's Background and Qualifications

Snodgrass Research Group, LLC provides independent, population based, health sector research, program evaluation, and other consumer survey analytics.

Dr. C. Edward Snodgrass is managing Principal of Snodgrass Research Group, LLC. Dr. Snodgrass holds a Ph.D. in Experimental Psychology (University of Southern Mississippi, 1999). He has published and presented on health-related topics at the local, state, and national level. He has taught advanced research methods and experimental design at the university level (University of Southern MS, and Mississippi State University).

Dr. Snodgrass has served on the Institutional Review Board at East Mississippi State Hospital and on the advisory boards of the Mississippi Center for Health Workforce, the East Central MS Health Network, and the Mississippi Health Sciences Information Network at the University of MS Medical Center.

As the Director of the East Central Mississippi Area Health Education Center (EC-AHEC), and later as West AL/East MS Health Programs Director for The Montgomery Institute (a regional 501(c)3 economic development entity), Dr. Snodgrass gained experience in Community Health Needs Assessment while developing projects involving diverse agencies (including schools, universities, community colleges, and hospitals) partnering to build a sustainable and competent health workforce throughout the West Alabama East Mississippi region. Dr. Snodgrass also directed health professional training/CME opportunities, community health education programs, and health education pipeline and recruitment programs (e.g., Youth Health Service Corps).



Appendix B: Community Healthcare Resource List for Lauderdale County

Source: *Directory of MS Health Facilities January 2013*

Available for download here: <http://msdh.ms.gov/msdhsite/static/resources/5235.pdf>

Licensed Hospitals

Alliance Health System
5000 Highway 39 North
Meridian, MS 39303
Phone: (601) 483-6211
William Patterson, CEO
Licensed Beds: 154
68 Acute
8 CDU
58 Psychiatric
12 Geriatric Psychiatric
License #12-308
Accredited

East MS State Hospital
4555 Highland Park Drive/ Post Office Box 4128
Meridian, MS 39304
Phone: (601) 482-6186
Charles Carlisle, Administrator
Licensed Beds: 407
372 Psychiatric
35 CDU
License #31-136
Non-Accredited

Anderson Regional Medical Center
2124 14th Street
Meridian, MS 39301
Phone: (601) 553-6000
John Anderson, Interim CEO
Licensed Beds: 260
260 Acute
License #13-237
Accredited

Anderson Regional Medical Center-South
1102 Constitution Avenue / Post Office Box 1810
Meridian, MS 39301
Phone: (601) 693-2511
John Anderson, Interim CEO
Licensed Beds: 140
120 Acute
20 Rehab
License #12-249
Accredited

Regency Hospital of Meridian
1102 Constitution Ave., 2nd Floor
Meridian, MS 39301
Phone: (601)484-7900
Clifton Quinn, Administrator
Licensed Beds: 40
40 Acute
License #22-332
Accredited

Rush Foundation Hospital
1314 19th Avenue
Meridian, MS 39301
Phone: (601) 483-0011
Christopher Rush, Administrator
Licensed Beds: 215
215 Acute
License #13-059
Accredited

The Specialty Hospital of Meridian
1314 19th Avenue
Meridian, MS 39301
Phone: (601) 486-4211 or 703-4211
Elizabeth Mitchell, Administrator
Licensed Beds: 49
49 Acute
License #23-324
Non-Accredited

Nursing Homes

Bedford Care Center of Marion
6434-A Dale Drive
Marion, MS 39342
Phone: (601) 294-3515
Bedford Care Center of Marion, LLC, Licensee
Susan H. Fox, Administrator
Proprietary
Medicaid/Medicare
Capacity: 128

Golden Living Center - Meridian
4728 Highway 39 North / Box 3604
Meridian, MS 39301
Phone: (601) 482-8151
Beverly Enterprises-MS, Inc., Licensee
Janet Wise, Administrator
Proprietary
Medicaid/Medicare
Capacity: 120

James T. Champion
1455 North Lakeland Drive
Meridian, MS 39307
Phone: (601) 581-8450
Edwin C. LeGrand, Licensee
Judd Nance, Administrator
Public
Medicaid
Capacity: 120

Meridian Community Living Center
517 33rd Street
Meridian, MS 39305
Phone: (601) 483-3916
CLC of Meridian, LLC, Licensee
Megan Ten Eyck, Administrator
Proprietary
Medicaid/Medicare
Capacity: 58

Poplar Springs Nursing Center
6615 Poplar Springs Drive/P.O. Box 3623
Meridian, MS 39305

Phone: (601) 483-5256
Poplar Springs Nursing Center, LLC, Licensee
Kristy Certain, Administrator
Proprietary
Medicaid/Medicare
Capacity: 130

Queen City Nursing Center
1201 28th Avenue
Meridian, MS 39301
Phone: (601) 483-1467
Queen City Nursing Center, Inc., Licensee
Barbara Howard, Administrator
Proprietary
Medicaid/Medicare
Capacity: 84

Reginald P. White Nursing Facility
1451 North Lakeland Drive
P.O. Box 4128, West Station
Meridian, MS 39307
Phone: (601) 581-8500
Edwin C. LeGrand, Licensee
Wanda Kennedy, Administrator
Public
Medicaid
Capacity: 120

The Oaks Rehabilitation & Healthcare Center
3716 Highway 39 North
Meridian, MS 39301
Phone: (601) 482-7164
Riley Healthcare, LLC Licensee
Sherry Davis, Administrator
Proprietary
Medicaid/Medicare
Capacity: 82

Psychiatric Residential Treatment Facilities

The Crossings
5000 Highway 39 North
Meridian, MS 39301
Phone: (601) 483-5452
PSI Crossing, LLC, Licensee
Stacy R. Andreacchio, Administrator
Capacity: 60

Licensed Personal Care Homes

Aldersgate Personal Care Home
6600 Poplar Springs Drive
Meridian, MS 39305
Phone: (601) 485-9484
Stephen McAlilly, Licensee
Capacity: 58

Bee Hive Homes of Marion
5750 Dale Drive
Marion, MS 39342
Phone: (601) 482-8200
Elsie Jordan, Manager

Emeritus at Silverleaf Manor (Assisted Living)
4555 35th Avenue
Meridian, MS 39305
Phone: (601) 483-4566
Emeritus Corporation, Licensee
Capacity: 110

Fisher Care
5207 Zero Road
Meridian, MS 39301
Phone: (601) 481-4907
Fisher Care, LLC, Licensee
Capacity: 8

Magnolia Home PCH
1900 24th Avenue / P.O. Box 3064
Meridian, MS 39301
Phone: (601) 938-2435
Shelia Powe, Licensee
Capacity: 14

McCoy's Personal Care Home
919 35th Avenue
Meridian, MS 39301
Phone: (601) 693-4104
Mary Cleo McCoy, Licensee
Capacity: 15

State Department of Health Home Health Agencies

Public Health District VI

East Central Home Health Agency – Region A

Magnolia Office Park
2071 Highway 355 #C / P.O. Box 150
Forest, MS 39074
Phone: (601) 469-3043
Counties: Clarke, Covington, Jasper, Kemper, **Lauderdale**,
Leake, Neshoba, Newton, Rankin, Scott, Simpson, Smith

Hospital Based Health Home Health Agencies

Wayne General Hospital Home Health Agency

920 Matthew Drive / P.O. Box 1249
Waynesboro, MS 39367
Phone: (601) 735-5500 & (601) 735-7133
Home Health Aide, Appliance & Equipment Service,
Physical Therapy, Skilled Nursing, Occupational Therapy &
Speech Therapy
Counties: Clarke, Forrest, Greene, Jasper, Jones,
Lauderdale, Perry & Wayne

Private Freestanding Home Health Agencies

Amedisys Home Health of Meridian

2900 North Hills Street, Suite A
Meridian, MS 39305
Phone: (601)484-3293
Home Health Aide, Occupational Therapy, Medical Social
Service, Physical Therapy, Speech Therapy & Skilled

Nursing

Counties: Clarke, Jasper, Kemper, Lauderdale, Neshoba,
Newton, Scott & Wayne
Branch: Quitman
For Profit

Deaconess Home Care - Region I

108 Lundy Lane

Mail: Post Office Box 16929 Zip 39404-6929

Hattiesburg, MS 39401

Phone: (601) 268-1842

Skilled Nursing, Home Health Aide,

Physical Therapy, Occupational Therapy,

Speech Therapy, Medical Social Services,

Appliance & Equipment Services

Counties: Clarke, Covington, Forrest, George, Greene,

Hancock, Harrison, Jackson, Jasper, Jeff Davis, Jones,

Lamar, **Lauderdale**, Lawrence, Marion, Newton, Pearl

River, Perry, Scott, Simpson, Stone, Smith, Wayne &

Walthall

Branches: Biloxi, Columbia, Gulfport, Laurel, Lucedale,

Magee, **Meridian**, Pascagoula, Picayune & Waynesboro

For Profit

Gentiva Home Health

2600 Old North Hill Street

Meridian, MS 39305

Phone: (601) 484-6726

Home Health Aide, Medical Social Services, Physical

Therapy, Skilled Nursing, Speech Therapy & Occupational

Therapy

Counties: Clarke, Jasper, Kemper, **Lauderdale**, Neshoba,

Newton, Scott & Wayne

For Profit

Sta-Home Health Agency, Inc. of Carthage, Inc.

616 Highway 35 South / P.O. Box 366

Carthage, MS 39051

Phone: (662) 267-9770

Home Health Aide, Occupational Therapy, Physical

Therapy, Skilled Nursing & Speech Therapy, Medical Social

Services

Counties: Attala, Clarke, Covington, Jasper, Kemper,

Lauderdale, Leake, Madison, Neshoba, Newton, Noxubee,

Rankin, Scott, Simpson, Smith & Winston

Branches: Forest, Kosciusko, Louisville, **Meridian**, Newton,

Philadelphia, Sebastopol & Walnut Grove

For profit

Hospice Facilities

Harper's Hospice Care, Inc.

1703 24th Avenue

Meridian, MS 39301

(601) 483-4134

Hometown Hospice, Inc.

8366 Hwy 19 North

Collinsville, MS 39325

(601) 626-7277

Hospice Advantage of Meridian

1300-C 14th Street

Meridian, MS 39301

(601) 483-9990

Rural Health Facilities

Anderson Family Medical Center - Riverbirch
A Division of Anderson Regional Medical Center - South
2514 67th Avenue Loop, Suite 112
Meridian, MS 39307
Phone: 601-553-0707

Central MS Family Health Clinic
905-C South Frontage Road
Meridian, MS 39301
Phone: (601) 486-4210

East Mississippi Medical Clinic
4711 Poplar Springs Drive
Meridian, MS 39305-2666
Phone: (601) 485-7777

Immediate Care Family Clinic
1710 14th Street
Meridian, MS 39301
Phone: (601) 482-9211

North Hills Family Medical Clinic
5009 Highway 493
Meridian, MS 39305
Phone: (601) 626-8874

Rush Medical Clinic – Collinsville
9097 Collinsville Road
Collinsville, MS 39325
(601) 626-8374

Appedix C Footnotes to Health Indicators Report

Total Population

Data Background

The American Community Survey (ACS) is a nationwide, continuous survey designed to provide communities with reliable and timely demographic, housing, social, and economic data. The ACS samples nearly 3 million addresses each year, resulting in nearly 2 million final interviews. The ACS replaces the long-form decennial census; however, the number of household surveys reported annually for the ACS is significantly less than the number reported in the long-form decennial census. As a result, the ACS combines detailed population and housing data from multiple years to produce reliable estimates for small counties, neighborhoods, and other local areas. Negotiating between timeliness and accuracy, the ACS annually releases current, one-year estimates for geographic areas with large populations; three-year and five-year estimates are also released each year for additional areas based on minimum population thresholds.

Citation: [*U.S. Census Bureau: A Compass for Understanding and Using American Community Survey Data \(2008\)*](#).

For more information about this source, including data collection methodology and definitions, refer to the [American Community Survey](#) website.

Methodology

Population counts for demographic groups and total area population data are acquired from the U.S. Census Bureau's American Community Survey. Data represent estimates for the 5 year period 2008-2012. Mapped data are summarized to 2010 census tract boundaries. Area demographic statistics are measured as a percentage of the total population based on the following formula:

$$\text{Percentage} = [\text{Subgroup Population}] / [\text{Total Population}] * 100$$

For more information on the data reported in the American Community Survey, please see the complete [American Community Survey 2012 Subject Definitions](#).

Notes

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories in the American Community Survey (ACS) based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Indicator race and ethnicity statistics are generated from self-identified survey responses. Using the OMB standard, the available race categories in the ACS are: White, Black, American Indian/Alaskan Native, Asian, and Other. An ACS survey respondent may identify as one race alone, or may choose multiple races. Respondents selecting multiple categories are racially identified as "Two or More Races". The minimum ethnicity categories are: Hispanic or Latino, and Not Hispanic or Latino. Respondents may only choose one ethnicity. Total population counts are reported in the ACS public use files by combined race and ethnicity; social and economic data are reported by race or ethnicity alone.

Data Limitations

Beginning in 2006, the population in group quarters (GQ) was included in the ACS. Some types of GQ populations have age and sex distributions that are very different from the household population. The

inclusion of the GQ population could therefore have a noticeable impact on demographic distribution. This is particularly true for areas with a substantial GQ population (like areas with military bases, colleges, or jails).

Population with Any Disability

Data Background

The American Community Survey (ACS) is a nationwide, continuous survey designed to provide communities with reliable and timely demographic, housing, social, and economic data. The ACS samples nearly 3 million addresses each year, resulting in nearly 2 million final interviews. The ACS replaces the long-form decennial census; however, the number of household surveys reported annually for the ACS is significantly less than the number reported in the long-form decennial census. As a result, the ACS combines detailed population and housing data from multiple years to produce reliable estimates for small counties, neighborhoods, and other local areas. Negotiating between timeliness and accuracy, the ACS annually releases current, one-year estimates for geographic areas with large populations; three-year and five-year estimates are also released each year for additional areas based on minimum population thresholds.

Citation: [U.S. Census Bureau: A Compass for Understanding and Using American Community Survey Data \(2008\)](#).

For more information about this source, including data collection methodology and definitions, refer to the [American Community Survey](#) website.

Methodology

Counts for population subgroups and total area population data are acquired from the U.S. Census Bureau's American Community Survey (ACS). Data represent estimates for the 5 year period 2008-2012. Data are summarized to 2010 census tract boundaries. Disability status is classified in the ACS according to yes/no responses to questions (17 - 19) about specific physical (hearing, vision, ambulatory) and cognitive statuses, and any other status which, if present, would make living in the absence of accommodations difficult or impossible. Indicator statistics are measured as a percentage of the total universe (non-institutionalized) population using the following formula:

$$\text{Percentage} = [\text{Subgroup Population}] / [\text{Total Population}] * 100$$

For more information on the data reported in the American Community Survey, please see the complete [American Community Survey 2012 Subject Definitions](#).

Notes

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories in the American Community Survey (ACS) based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Indicator race and ethnicity statistics are generated from self-identified survey responses. Using the OMB standard, the available race categories in the ACS are: White, Black, American Indian/Alaskan Native, Asian, and Other. An ACS survey respondent may identify as one race alone, or may choose multiple races. Respondents selecting multiple categories are racially identified as "Two or More Races". The minimum ethnicity categories are: Hispanic or Latino, and Not Hispanic or Latino. Respondents may only choose one ethnicity. All social and economic data are reported in the ACS public use files by race alone, ethnicity alone, and for the white non-Hispanic population.

Data Limitations

Beginning in 2006, the population in group quarters (GQ) was included in the ACS. Some types of GQ populations have age and sex distributions that are very different from the household population. The inclusion of the GQ population could therefore have a noticeable impact on demographic distribution. This is particularly true for areas with a substantial GQ population (like areas with military bases, colleges, or jails).

Children in Poverty

Data Background

The American Community Survey (ACS) is a nationwide, continuous survey designed to provide communities with reliable and timely demographic, housing, social, and economic data. The ACS samples nearly 3 million addresses each year, resulting in nearly 2 million final interviews. The ACS replaces the long-form decennial census; however, the number of household surveys reported annually for the ACS is significantly less than the number reported in the long-form decennial census. As a result, the ACS combines detailed population and housing data from multiple years to produce reliable estimates for small counties, neighborhoods, and other local areas. Negotiating between timeliness and accuracy, the ACS annually releases current, one-year estimates for geographic areas with large populations; three-year and five-year estimates are also released each year for additional areas based on minimum population thresholds.

Citation: [U.S. Census Bureau: A Compass for Understanding and Using American Community Survey Data \(2008\)](#).

For more information about this source, including data collection methodology and definitions, refer to the [American Community Survey](#) website.

Methodology

Population counts for demographic groups and total area population data are acquired from the U.S. Census Bureau's American Community Survey. Data represent estimates for the 5 year period 2008-2012. Mapped data are summarized to 2010 census tract boundaries. Area demographic statistics are measured as a percentage of the total population based on the following formula:

$$\text{Percentage} = [\text{Subgroup Population}] / [\text{Total Population}] * 100$$

For more information on the data reported in the American Community Survey, please see the complete [American Community Survey 2011 Subject Definitions](#).

Notes

Trends Over Time

The American Community Survey multi-year estimates are based on data collected over 5 years. For any given consecutive release of ACS 5-year estimates, 4 of the 5 years overlap. The Census Bureau discourages direct comparisons between estimates for overlapping periods; use caution when interpreting this data.

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories in the American Community

Survey (ACS) based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Indicator race and ethnicity statistics are generated from self-identified survey responses. Using the OMB standard, the available race categories in the ACS are: White, Black, American Indian/Alaskan Native, Asian, and Other. An ACS survey respondent may identify as one race alone, or may choose multiple races. Respondents selecting multiple categories are racially identified as “Two or More Races”. The minimum ethnicity categories are: Hispanic or Latino, and Not Hispanic or Latino. Respondents may only choose one ethnicity. All social and economic data are reported in the ACS public use files by race alone, ethnicity alone, and for the white non-Hispanic population.

Data Limitations

Beginning in 2006, the population in group quarters (GQ) was included in the ACS. The part of the group quarters population in the poverty universe (for example, people living in group homes or those living in agriculture workers’ dormitories) is many times more likely to be in poverty than people living in households. Direct comparisons of the data would likely result in erroneous conclusions about changes in the poverty status of all people in the poverty universe.

High School Graduation Rate (NCES)

Data Background

The National Center for Education Statistics (NCES) is the primary federal entity for collecting, analyzing, and reporting data related to education in the United States and other nations. It fulfils a congressional mandate to collect, collate, analyze, and report full and complete statistics on the condition of education in the United States; conduct and publish reports and specialized analyses of the meaning and significance of such statistics; assist state and local education agencies in improving their statistical systems; and review and report on education activities in foreign countries.

Citation: [Documentation to the NCES Common Core of Data Public Elementary/Secondary School Universe Survey \(2013\)](#).

The National Center for Education Statistics releases a dataset containing detailed information about every public school in the United States in their annual Common Core of Data (CCD) files. The information from which this data is compiled is supplied by state education agency officials. The CCD reports information about both schools and school districts, including name, address, and phone number; descriptive information about students and staff demographics; and fiscal data, including revenues and current expenditures.

For more information, please visit the [Common Core of Data](#) web page.

Methodology

Graduation rates are acquired for all US counties from the 2012 County Health Rankings (CHR). The 2011 County Health Rankings (CHR) used graduation rates calculated from the National Center for Education Statistics (NCES) using an estimated cohort. This measure is generally known as the Averaged Freshman Graduation Rate (AFGR). Starting in 2012, CHR reports cohort graduation rates collected from State Department of Education websites. These rates are an improvement over the AFGR rates previously reported due to student-level outcomes tracking that accounts better for transfers, early and late completers. For 12

states, CHR continues to use NCES-based AFGRs. These states are: AL, AK, AR, CT, HI, ID, MT, NJ, ND, OK, SD and TN.

Total freshmen cohorts were compiled for all counties from school-level data, provided by NCES for academic years 2005-06 through 2007-08. Using the graduation rates from the 2012 CHR and these class sizes, the number of graduates* was estimated for each county. On-time graduation rate, or average freshman graduation rate, is re-calculated for unique service areas and aggregated county groupings using the following formula:

$$\text{Graduation Rate} = \frac{[\text{Estimated Number of Graduates}]}{[\text{Average Base Freshman Enrollment}]} * 100.$$

*Average freshman graduation rate is a measure of on-time graduation only. It does not include 5th year high school completers, or high-school equivalency completers such as GED recipients. For more information on average freshman graduation rates, please review the information on page 4 of the [NCES Common Core of Data Public-Use Local Education Agency Dropout and Completion Data File](#)

Notes

Race and Ethnicity

Statistics by race and ethnicity are not provided for this indicator from the data source. Detailed race/ethnicity data may be available at a broader geographic level, or from a local source.

Income Per Capita

Data Background

The American Community Survey (ACS) is a nationwide, continuous survey designed to provide communities with reliable and timely demographic, housing, social, and economic data. The ACS samples nearly 3 million addresses each year, resulting in nearly 2 million final interviews. The ACS replaces the long-form decennial census; however, the number of household surveys reported annually for the ACS is significantly less than the number reported in the long-form decennial census. As a result, the ACS combines detailed population and housing data from multiple years to produce reliable estimates for small counties, neighborhoods, and other local areas. Negotiating between timeliness and accuracy, the ACS annually releases current, one-year estimates for geographic areas with large populations; three-year and five-year estimates are also released each year for additional areas based on minimum population thresholds.

Citation: [U.S. Census Bureau: A Compass for Understanding and Using American Community Survey Data \(2008\)](#).

For more information about this source, including data collection methodology and definitions, refer to the [American Community Survey](#) website.

Methodology

Total income and total area population data are acquired from the U.S. Census Bureau's American Community Survey. Data represent estimates for the 5 year period 2008-2012. Mapped data are summarized to 2010

census tract boundaries. Per capita income is the mean money income received in the past 12 months computed for every man, woman, and child in a geographic area. It is derived by dividing the total income of all people 15 years old and over in a geographic area by the total population in that area based on the following formula:

$$\text{Per Capita Income} = [\text{Total Income of Population Age 15}] / [\text{Total Population}]$$

For more information on the data reported in the American Community Survey, please see the complete [American Community Survey 2012 Subject Definitions](#).

Notes

Trends Over Time

The American Community Survey multi-year estimates are based on data collected over 5 years. For any given consecutive release of ACS 5-year estimates, 4 of the 5 years overlap. The Census Bureau discourages direct comparisons between estimates for overlapping periods; use caution when interpreting this data.

Data Limitations

Beginning in 2006, the population in group quarters (GQ) was included in the ACS. The part of the group quarters population in the poverty universe (for example, people living in group homes or those living in agriculture workers' dormitories) is many times more likely to be in poverty than people living in households. Direct comparisons of the data would likely result in erroneous conclusions about changes in the poverty status of all people in the poverty universe.

Lack of Social or Emotional Support

Data Background

The Behavioral Risk Factor Surveillance System (BRFSS) is

“... a collaborative project of the Centers for Disease Control and Prevention (CDC) and U.S. states and territories. The BRFSS, administered and supported by CDC's Behavioral Risk Factor Surveillance Branch, is an ongoing data collection program designed to measure behavioral risk factors for the adult population (18 years of age or older) living in households. ”

Citation: Centers for Disease Control and Prevention, Office of Surveillance, Epidemiology, and Laboratory Services. [Overview: BRFSS 2010](#).

The health characteristics estimated from the BRFSS include data pertaining to health behaviors, chronic conditions, access and utilization of healthcare, and general health. Surveys are administered to populations at the state level and then delivered to the CDC and tabulated into county estimates by the BRFSS analysis team. Annual risk factor prevalence data are released for those geographic areas with 50 or more survey results and 10,000 or more total population (50 States, 170 Cities and Counties) in order to maintain the accuracy and confidentiality of the data. Multi-year estimates are produced by the NCHS to expand the coverage of data to approximately 2500 counties. These estimates are housed in the [Health Indicator Warehouse](#), the official repository of the nation's health data.

For more information on the BRFSS survey methods, or to obtain a copy of the survey questionnaires, please visit [the Behavioral Risk Factor Surveillance System](#) home page.

The Health Indicator Warehouse is the official repository of the nation's health data, providing public access to the information resources of the Centers for Disease Control and Prevention (CDC), the Environmental Protection Agency (EPA), the Health Resources and Services Administration (HRSA), and others. When applicable, data can be obtained grouped by various information, including state, county, gender, race, ethnicity, and educational attainment.

Methodology

Indicator percentages are acquired for years 2006-2012 from Behavioral Risk Factor Surveillance System (BRFSS) prevalence data, which is housed in the Health Indicator Warehouse. Percentages are generated based on the valid responses to the following question:

"How often do you get the social and emotional support you need?"

This indicator represents the percentage of those persons who answered that they do not receive adequate social/emotional support all or most of the time. Percentages are age-adjusted and only pertain to the non-institutionalized population aged 18 and up. Population numerators (number of adults) are not provided in the Health Indicator Warehouse data tables and were generated using the following formula:

$$[\text{Persons with Inadequate Support}] = ([\text{Indicator Percentage}] / 100) * [\text{Total Population}] .$$

Adult population figures used in the data tables are acquired from the American Community Survey (ACS) 2007-2011 five year estimates. Additional detailed information about the BRFSS, including questionnaires, data collection procedures, and [data processing methodologies](#) are available on the BRFSS web site. For additional information about the multi-year estimates, please visit the [Health Indicator Warehouse](#).

Notes

Race and Ethnicity

Statistics by race and ethnicity are not provided for this indicator from the data source. Detailed race/ethnicity data may be available at a broader geographic level, or from a local source.

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of persons sampled (for each geographic area / population group combination) over the survey period is less than 50, or when the standard error of the estimate exceeds 10% of the calculated value.

Population in Poverty - 100% FPL

Data Background

The American Community Survey (ACS) is a nationwide, continuous survey designed to provide communities with reliable and timely demographic, housing, social, and economic data. The ACS samples nearly 3 million addresses each year, resulting in nearly 2 million final interviews. The ACS replaces the long-form decennial census; however, the number of household surveys reported annually for the ACS is significantly less than the

number reported in the long-form decennial census. As a result, the ACS combines detailed population and housing data from multiple years to produce reliable estimates for small counties, neighborhoods, and other local areas. Negotiating between timeliness and accuracy, the ACS annually releases current, one-year estimates for geographic areas with large populations; three-year and five-year estimates are also released each year for additional areas based on minimum population thresholds.

Citation: [U.S. Census Bureau: A Compass for Understanding and Using American Community Survey Data \(2008\)](#).

For more information about this source, including data collection methodology and definitions, refer to the [American Community Survey](#) website.

Methodology

Population counts for demographic groups and total area population data are acquired from the U.S. Census Bureau's American Community Survey. Data represent estimates for the 5 year period 2008-2012. Mapped data are summarized to 2010 census tract boundaries. Area demographic statistics are measured as a percentage of the total population based on the following formula:

$$\text{Percentage} = [\text{Subgroup Population}] / [\text{Total Population}] * 100$$

For more information on the data reported in the American Community Survey, please see the complete [American Community Survey 2011 Subject Definitions](#).

Notes

Trends Over Time

The American Community Survey multi-year estimates are based on data collected over 5 years. For any given consecutive release of ACS 5-year estimates, 4 of the 5 years overlap. The Census Bureau discourages direct comparisons between estimates for overlapping periods; use caution when interpreting this data.

Data Limitations

Beginning in 2006, the population in group quarters (GQ) was included in the ACS. The part of the group quarters population in the poverty universe (for example, people living in group homes or those living in agriculture workers' dormitories) is many times more likely to be in poverty than people living in households. Direct comparisons of the data would likely result in erroneous conclusions about changes in the poverty status of all people in the poverty universe.

Population in Poverty - 200% FPL

Data Background

The American Community Survey (ACS) is a nationwide, continuous survey designed to provide communities with reliable and timely demographic, housing, social, and economic data. The ACS samples nearly 3 million addresses each year, resulting in nearly 2 million final interviews. The ACS replaces the long-form decennial census; however, the number of household surveys reported annually for the ACS is significantly less than the number reported in the long-form decennial census. As a result, the ACS combines detailed population and housing data from multiple years to produce reliable estimates for small counties, neighborhoods, and other

local areas. Negotiating between timeliness and accuracy, the ACS annually releases current, one-year estimates for geographic areas with large populations; three-year and five-year estimates are also released each year for additional areas based on minimum population thresholds.

Citation: [U.S. Census Bureau: A Compass for Understanding and Using American Community Survey Data \(2008\)](#).

For more information about this source, including data collection methodology and definitions, refer to the [American Community Survey](#) website.

Methodology

Population counts for demographic groups and total area population data are acquired from the U.S. Census Bureau's American Community Survey. Data represent estimates for the 5 year period 2008-2012. Mapped data are summarized to 2010 census tract boundaries. Area demographic statistics are measured as a percentage of the total population based on the following formula:

$$\text{Percentage} = [\text{Subgroup Population}] / [\text{Total Population}] * 100$$

For more information on the data reported in the American Community Survey, please see the complete [American Community Survey 2011 Subject Definitions](#).

Data Limitations

Beginning in 2006, the population in group quarters (GQ) was included in the ACS. The part of the group quarters population in the poverty universe (for example, people living in group homes or those living in agriculture workers' dormitories) is many times more likely to be in poverty than people living in households. Direct comparisons of the data would likely result in erroneous conclusions about changes in the poverty status of all people in the poverty universe.

Population Receiving Medicaid

Data Background

The American Community Survey (ACS) is a nationwide, continuous survey designed to provide communities with reliable and timely demographic, housing, social, and economic data. The ACS samples nearly 3 million addresses each year, resulting in nearly 2 million final interviews. The ACS replaces the long-form decennial census; however, the number of household surveys reported annually for the ACS is significantly less than the number reported in the long-form decennial census. As a result, the ACS combines detailed population and housing data from multiple years to produce reliable estimates for small counties, neighborhoods, and other local areas. Negotiating between timeliness and accuracy, the ACS annually releases current, one-year estimates for geographic areas with large populations; three-year and five-year estimates are also released each year for additional areas based on minimum population thresholds.

Citation: [U.S. Census Bureau: A Compass for Understanding and Using American Community Survey Data \(2008\)](#).

For more information about this source, including data collection methodology and definitions, refer to the [American Community Survey](#) website.

Methodology

Population counts for socio-economic groups and total area population data are acquired from the U.S. Census Bureau's American Community Survey. Data represent estimates for the 5 year period 2008-2012. Data are aggregate summaries based on 2010 Census Tract boundaries. Health insurance coverage status is classified in the ACS according to yes/no responses to questions (16a - 16h) representing eight categories of health insurance, including: Employer-based, Directly-purchased, Medicare, Medicaid/Medical Assistance, TRICARE, VA health care, Indian Health Service, and Other. An eligibility edit was applied to give Medicaid, Medicare, and TRICARE coverage to individuals based on program eligibility rules. People were considered insured if they reported at least one "yes" to Questions 16a - 16f. Indicator statistics are measured as a percentage of the universe population using the following formula:

$$\text{Percentage} = [\text{Subgroup Population}] / [\text{Total Population}] * 100$$

For more information on the data reported in the American Community Survey, please see the complete [American Community Survey 2012 Subject Definitions](#).

Notes

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories in the American Community Survey (ACS) based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Indicator race and ethnicity statistics are generated from self-identified survey responses. Using the OMB standard, the available race categories in the ACS are: White, Black, American Indian/Alaskan Native, Asian, and Other. An ACS survey respondent may identify as one race alone, or may choose multiple races. Respondents selecting multiple categories are racially identified as "Two or More Races". The minimum ethnicity categories are: Hispanic or Latino, and Not Hispanic or Latino. Respondents may only choose one ethnicity. All social and economic data are reported in the ACS public use files by race alone, ethnicity alone, and for the white non-Hispanic population.

Data Limitations

The population 'universe' for most health insurance coverage estimates is the civilian noninstitutionalized population, which excludes active-duty military personnel and the population living in correctional facilities and nursing homes. Some noninstitutionalized group quarters (GQ) populations have health insurance coverage distributions that are different from the household population (e.g., the prevalence of private health insurance among residents of college dormitories is higher than the household population). The proportion of the universe that is in the noninstitutionalized GQ populations could therefore have a noticeable impact on estimates of the health insurance coverage. Institutionalized GQ populations may also have health insurance coverage distributions that are different from the civilian noninstitutionalized population, the distributions in the published tables may differ slightly from how they would look if the total population were represented.

Population Receiving SNAP Benefits (ACS)

Data Background

The American Community Survey (ACS) is a nationwide, continuous survey designed to provide communities with reliable and timely demographic, housing, social, and economic data. The ACS samples nearly 3 million addresses each year, resulting in nearly 2 million final interviews. The ACS replaces the long-form decennial census; however, the number of household surveys reported annually for the ACS is significantly less than the number reported in the long-form decennial census. As a result, the ACS combines detailed population and housing data from multiple years to produce reliable estimates for small counties, neighborhoods, and other local areas. Negotiating between timeliness and accuracy, the ACS annually releases current, one-year estimates for geographic areas with large populations; three-year and five-year estimates are also released each year for additional areas based on minimum population thresholds.

Citation: [U.S. Census Bureau: A Compass for Understanding and Using American Community Survey Data \(2008\)](#).

For more information about this source, including data collection methodology and definitions, refer to the [American Community Survey](#) website.

Methodology

Population counts for household program participation and total household data are acquired from the U.S. Census Bureau's American Community Survey. Data represent estimates for the 5 year period 2008-2012. Mapped data are summarized to 2010 census tract boundaries. This indicator is a measure of household-level SNAP participation based on survey response about "receipts of food stamps or a food stamp benefit card in the past 12 months" by one or more household members. Area statistics are measured as a percentage of total occupied households based on the following formula:

$$\text{Percentage} = [\text{Participating Households}] / [\text{Total Households}] * 100$$

For more information on the data reported in the American Community Survey, please see the complete [American Community Survey 2012 Subject Definitions](#).

Notes

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories in the American Community Survey (ACS) based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Indicator race and ethnicity statistics are generated from self-identified survey responses. Using the OMB standard, the available race categories in the ACS are: White, Black, American Indian/Alaskan Native, Asian, and Other. An ACS survey respondent may identify as one race alone, or may choose multiple races. Respondents selecting multiple categories are racially identified as "Two or More Races". The minimum ethnicity categories are: Hispanic or Latino, and Not Hispanic or Latino. Respondents may only choose one ethnicity. All social and economic data are reported in the ACS public use files by race alone, ethnicity alone, and for the white non-Hispanic population

Population with No High School Diploma

Data Background

The American Community Survey (ACS) is a nationwide, continuous survey designed to provide communities with reliable and timely demographic, housing, social, and economic data. The ACS samples nearly 3 million addresses each year, resulting in nearly 2 million final interviews. The ACS replaces the long-form decennial

census; however, the number of household surveys reported annually for the ACS is significantly less than the number reported in the long-form decennial census. As a result, the ACS combines detailed population and housing data from multiple years to produce reliable estimates for small counties, neighborhoods, and other local areas. Negotiating between timeliness and accuracy, the ACS annually releases current, one-year estimates for geographic areas with large populations; three-year and five-year estimates are also released each year for additional areas based on minimum population thresholds.

Citation: [U.S. Census Bureau: A Compass for Understanding and Using American Community Survey Data \(2008\)](#).

For more information about this source, including data collection methodology and definitions, refer to the [American Community Survey](#) website.

Methodology

Population counts for population by educational attainment and total area population data are acquired from the U.S. Census Bureau's American Community Survey. Data represent estimates for the 5 year period 2008-2012. Mapped data are summarized to 2010 census tract boundaries. Area demographic statistics are measured as a percentage of the total population aged 25 based on the following formula:

$$\text{Percentage} = [\text{Subgroup Population}] / [\text{Total Population Age 25}] * 100$$

For more information on the data reported in the American Community Survey, please see the complete [American Community Survey 2012 Subject Definitions](#).

Notes

Trends Over Time

The American Community Survey multi-year estimates are based on data collected over 5 years. For any given consecutive release of ACS 5-year estimates, 4 of the 5 years overlap. The Census Bureau discourages direct comparisons between estimates for overlapping periods; use caution when interpreting this data.

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories in the American Community Survey (ACS) based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Indicator race and ethnicity statistics are generated from self-identified survey responses. Using the OMB standard, the available race categories in the ACS are: White, Black, American Indian/Alaskan Native, Asian, and Other. An ACS survey respondent may identify as one race alone, or may choose multiple races. Respondents selecting multiple categories are racially identified as "Two or More Races". The minimum ethnicity categories are: Hispanic or Latino, and Not Hispanic or Latino. Respondents may only choose one ethnicity. All social and economic data are reported in the ACS public use files by race alone, ethnicity alone, and for the white non-Hispanic population.

Data Limitations

Beginning in 2006, the population in group quarters (GQ) was included in the ACS. Some types of GQ populations may have educational attainment distributions that are different from the household population.

The inclusion of the GQ population could therefore have a noticeable impact on the educational attainment distribution. This is particularly true for areas with a substantial GQ population.

Teen Births

Data Background

The Health Indicator Warehouse is the official repository of the nation's health data, providing public access to the information resources of the Centers for Disease Control and Prevention (CDC), the Environmental Protection Agency (EPA), the Health Resources and Services Administration (HRSA), and others. When applicable, data can be obtained grouped by various information, including state, county, gender, race, ethnicity, and educational attainment.

The Division of Vital Statistics is a branch of the Centers for Disease Control and Prevention (CDC) National Center for Health Statistics (NCHS) responsible for maintaining birth and death records for the nation. Data are compiled for the National Vital Statistics System (NVSS) through a joint effort between the NCHS and various state and local health agencies, who are responsible for registering vital events – births, deaths, marriages, divorces, and fetal deaths. NVSS statistics are released annually in various data warehouses, including [CDC WONDER](#), [VitalStats](#), and the [Health Indicator Warehouse](#).

Methodology

Counts for this indicator represent the annual average births over the 5-year period 2007-2011. Original data was tabulated by the CDC based on information reported on each birth certificate. Rates represent the number of births per 1,000 female population based on the following formula:

$$\text{Rate} = [\text{Births to Mothers Age 15-19}] / [\text{Female Population Age 15-19}] * 1,000$$

Data was acquired from the Health Indicators Warehouse. For more information about this source, including data inclusion requirements and subject definitions, please visit the [Health Indicator Warehouse indicator page](#) or refer to the NVSS [natality public use file documentation](#).

Notes

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories by state vital statistics registries based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. In their original form, birth statistics from the CDC National Vital Statistics System (NVSS) are available by race alone (White, Black, Amer. Indian/AK Native, and Asian) ethnicity alone (Hispanic, Non-Hispanic), or by combined race and ethnicity. Birth data from the Health Indicators Warehouse is provided using combined race/ethnicity. Due to sample size, data for this indicator is only reported for White (Non-Hispanic), Black (Non-Hispanic), Other (Non-Hispanic) and the Hispanic or Latino population.

Data Suppression

Suppression is used to protect confidentiality and to avoid misinterpretation when rates are unstable. Data is suppressed for all indicator components (geographic area population group) with fewer than 20 births over the report period.

Unemployment Rate

Data Background

The Bureau of Labor Statistics (BLS) is the principal Federal agency responsible for measuring labor market activity, working conditions, and price changes in the economy. Its mission is to collect, analyze, and disseminate essential economic information to support public and private decision-making. As an independent statistical agency, BLS serves its diverse user communities by providing products and services that are objective, timely, accurate, and relevant.

Methodology

Unemployment statistics are downloaded from the US Bureau of Labor Statistics (BLS) Local Area Unemployment Statistics (LAUS) database. The LAUS dataset consists of modelled unemployment estimates. It is described by the BLS as follows:

The concepts and definitions underlying LAUS data come from the Current Population Survey (CPS), the household survey that is the official measure of the labor force for the nation. State monthly model estimates are controlled in "real time" to sum to national monthly labor force estimates from the CPS. These models combine current and historical data from the CPS, the Current Employment Statistics (CES) program, and State unemployment insurance (UI) systems. Estimates for seven large areas and their respective balances of State are also model-based. Estimates for the remainder of the sub-state labor market areas are produced through a building-block approach known as the "Handbook method." This procedure also uses data from several sources, including the CPS, the CES program, State UI systems, and the decennial census, to create estimates that are adjusted to the statewide measures of employment and unemployment. Below the labor market area level, estimates are prepared using disaggregation techniques based on inputs from the decennial census, annual population estimates, and current UI data.

From the LAUS estimates, unemployment is recalculated as follows:

$$\text{Unemployment Rate} = [\text{Total Unemployed}] / [\text{Total Labor Force}] * 100$$

For more information, please visit the Bureau of Labor Statistics [Local Area Unemployment Statistics](#) web page.

Uninsured Population - Total

Data Background

The American Community Survey (ACS) is a nationwide, continuous survey designed to provide communities with reliable and timely demographic, housing, social, and economic data. The ACS samples nearly 3 million addresses each year, resulting in nearly 2 million final interviews. The ACS replaces the long-form decennial census; however, the number of household surveys reported annually for the ACS is significantly less than the number reported in the long-form decennial census. As a result, the ACS combines detailed population and housing data from multiple years to produce reliable estimates for small counties, neighborhoods, and other

local areas. Negotiating between timeliness and accuracy, the ACS annually releases current, one-year estimates for geographic areas with large populations; three-year and five-year estimates are also released each year for additional areas based on minimum population thresholds.

Citation: [U.S. Census Bureau: A Compass for Understanding and Using American Community Survey Data \(2008\)](#).

For more information about this source, including data collection methodology and definitions, refer to the [American Community Survey](#) website.

Methodology

Population counts for socio-economic groups and total area population data are acquired from the U.S. Census Bureau's American Community Survey. Data represent estimates for the 5 year period 2008-2012. Data are aggregate summaries based on 2010 Census Tract boundaries. Health insurance coverage status is classified in the ACS according to yes/no responses to questions (16a - 16h) representing eight categories of health insurance, including: Employer-based, Directly-purchased, Medicare, Medicaid/Medical Assistance, TRICARE, VA health care, Indian Health Service, and Other. An eligibility edit was applied to give Medicaid, Medicare, and TRICARE coverage to individuals based on program eligibility rules. People were considered insured if they reported at least one "yes" to Questions 16a - 16f. Indicator statistics are measured as a percentage of the universe population using the following formula:

$$\text{Percentage} = [\text{Subgroup Population}] / [\text{Total Population}] * 100$$

For more information on the data reported in the American Community Survey, please see the complete [American Community Survey 2012 Subject Definitions](#).

Notes

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories in the American Community Survey (ACS) based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Indicator race and ethnicity statistics are generated from self-identified survey responses. Using the OMB standard, the available race categories in the ACS are: White, Black, American Indian/Alaskan Native, Asian, and Other. An ACS survey respondent may identify as one race alone, or may choose multiple races. Respondents selecting multiple categories are racially identified as "Two or More Races". The minimum ethnicity categories are: Hispanic or Latino, and Not Hispanic or Latino. Respondents may only choose one ethnicity. All social and economic data are reported in the ACS public use files by race alone, ethnicity alone, and for the white non-Hispanic population.

Data Limitations

The population 'universe' for most health insurance coverage estimates is the civilian noninstitutionalized population, which excludes active-duty military personnel and the population living in correctional facilities and nursing homes. Some noninstitutionalized group quarters (GQ) populations have health insurance coverage distributions that are different from the household population (e.g., the prevalence of private health insurance among residents of college dormitories is higher than the household population). The proportion of the universe that is in the noninstitutionalized GQ populations could therefore have a noticeable impact on

estimates of the health insurance coverage. Institutionalized GQ populations may also have health insurance coverage distributions that are different from the civilian noninstitutionalized population, the distributions in the published tables may differ slightly from how they would look if the total population were represented.

Report prepared by [Community Commons](#), February 13, 2015

Alcohol Consumption

Data Background

The Behavioral Risk Factor Surveillance System (BRFSS) is

“... a collaborative project of the Centers for Disease Control and Prevention (CDC) and U.S. states and territories. The BRFSS, administered and supported by CDC's Behavioral Risk Factor Surveillance Branch, is an ongoing data collection program designed to measure behavioral risk factors for the adult population (18 years of age or older) living in households.”

Citation: Centers for Disease Control and Prevention, Office of Surveillance, Epidemiology, and Laboratory Services. [Overview: BRFSS 2010](#).

The health characteristics estimated from the BRFSS include data pertaining to health behaviors, chronic conditions, access and utilization of healthcare, and general health. Surveys are administered to populations at the state level and then delivered to the CDC and tabulated into county estimates by the BRFSS analysis team. Annual risk factor prevalence data are released for those geographic areas with 50 or more survey results and 10,000 or more total population (50 States, 170 Cities and Counties) in order to maintain the accuracy and confidentiality of the data. Multi-year estimates are produced by the NCHS to expand the coverage of data to approximately 2500 counties. These estimates are housed in the [Health Indicator Warehouse](#), the official repository of the nation's health data.

For more information on the BRFSS survey methods, or to obtain a copy of the survey questionnaires, please visit [the Behavioral Risk Factor Surveillance System](#) home page.

Methodology

Indicator percentages are acquired for years 2006-2012 from Behavioral Risk Factor Surveillance System (BRFSS) prevalence data, which is housed in the Health Indicator Warehouse. Percentages are generated based on the valid responses to the following question:

"One drink is equivalent to a 12-ounce beer, a 5-ounce glass of wine, or a drink with one shot of liquor. During the past 30 days, on the days when you drank, about how many drinks did you drink on the average?"

Respondents are considered heavy drinkers if they were male and reported having more than 2 drinks per day, or females that reported having more than 1 drink per day. Percentages are age-adjusted and only pertain to the non-institutionalized population aged 18 and up. Population numerators (number of adults) are not provided in the Health Indicator Warehouse data tables and were generated using the following

formula:

$$[\text{Heavy Drinkers}] = ([\text{Indicator Percentage}] / 100) * [\text{Total Population}] .$$

Adult population figures used in the data tables are acquired from the American Community Survey (ACS) 2007-2011 five year estimates. Additional detailed information about the BRFSS, including questionnaires, data collection procedures, and [data processing methodologies](#) are available on the BRFSS web site. For additional information about the multi-year estimates, please visit the [Health Indicator Warehouse](#).

Notes

Race and Ethnicity

Statistics by race and ethnicity are not provided for this indicator from the data source. Detailed race/ethnicity data may be available at a broader geographic level, or from a local source.

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of persons sampled (for each geographic area / population group combination) over the survey period is less than 50, or when the standard error of the estimate exceeds 10% of the calculated value.

Fruit/Vegetable Consumption

Data Background

The Behavioral Risk Factor Surveillance System (BRFSS) is

“... a collaborative project of the Centers for Disease Control and Prevention (CDC) and U.S. states and territories. The BRFSS, administered and supported by CDC's Behavioral Risk Factor Surveillance Branch, is an ongoing data collection program designed to measure behavioral risk factors for the adult population (18 years of age or older) living in households.”

Citation: Centers for Disease Control and Prevention, Office of Surveillance, Epidemiology, and Laboratory Services. [Overview: BRFSS 2010](#).

The health characteristics estimated from the BRFSS include data pertaining to health behaviors, chronic conditions, access and utilization of healthcare, and general health. Surveys are administered to populations at the state level and then delivered to the CDC and tabulated into county estimates by the BRFSS analysis team. Annual risk factor prevalence data are released for those geographic areas with 50 or more survey results and 10,000 or more total population (50 States, 170 Cities and Counties) in order to maintain the accuracy and confidentiality of the data. Multi-year estimates are produced by the NCHS to expand the coverage of data to approximately 2500 counties. These estimates are housed in the [Health Indicator Warehouse](#), the official repository of the nation's health data.

For more information on the BRFSS survey methods, or to obtain a copy of the survey questionnaires, please visit [the Behavioral Risk Factor Surveillance System](#) home page.

Methodology

Indicator percentages are acquired for years 2005-2009 from Behavioral Risk Factor Surveillance System (BRFSS) prevalence data, which is housed in the Health Indicator Warehouse. Data are based on the percentage of respondents who report regularly consuming five or more servings of fruits or vegetables each week. Fried potatoes and chips are excluded. Percentages are age-adjusted and only pertain to the non-institutionalized population aged 18 and up. Population numerators (number of adults consuming 5 servings) are not provided in the Health Indicator Warehouse data tables and were generated using the following formula:

$$[\text{Population Consuming 5 Servings}] = ([\text{Indicator Percentage}] / 100) * [\text{Total Population}].$$

Adult population figures used in the data tables are acquired from the American Community Survey (ACS) 2005-2009 five year estimates. Additional detailed information about the BRFSS, including questionnaires, data collection procedures, and [data processing methodologies](#) are available on the BRFSS web site. For additional information about the multi-year estimates, please visit the [Health Indicator Warehouse](#).

Notes

Race and Ethnicity

Statistics by race and ethnicity are not provided for this indicator from the data source. Detailed race/ethnicity data may be available at a broader geographic level, or from a local source.

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of persons sampled (for each geographic area / population group combination) over the survey period is less than 50, or when the standard error of the estimate exceeds 10% of the calculated value.

Physical Inactivity

Data Background

The Centers for Disease Control and Prevention's National Center for Chronic Disease Prevention and Health Promotion monitors the health of the Nation and produces publically available data to promote general health. The division maintains the Diabetes Data and Trends data system, which includes the National Diabetes Fact Sheet and the National Diabetes Surveillance System. These programs provide resources documenting the public health burden of diabetes and its complications in the United States. The surveillance system also includes county-level estimates of diagnosed diabetes and selected risk factors for all U.S. counties to help target and optimize the resources for diabetes control and prevention.

Citation: [Centers for Disease Control and Prevention, Diabetes Data & Trends: Frequently Asked Questions \(FAQ\). \(2012\).](#)

Methodology

Data for total population and estimated obese population data are acquired from the County Level Estimates of Diagnosed Diabetes, a service of the Centers for Disease Control and Prevention's National Diabetes Surveillance Program. Diabetes and other risk factor prevalence is estimated using the following formula:

$$\text{Percent Prevalence} = [\text{Risk Factor Population}] / [\text{Total Population}] * 100.$$

All data are estimates modeled by the CDC using the methods described below:

The National Diabetes Surveillance system produces data estimating the prevalence of diagnosed diabetes and population obesity by county using data from [CDC's Behavioral Risk Factor Surveillance System](#) (BRFSS) and data from the [U.S. Census Bureau's Population Estimates Program](#). The BRFSS is an ongoing, monthly, state-based telephone survey of the adult population. The survey provides state-specific information on behavioral risk factors and preventive health practices. Respondents were considered to have diabetes if they responded "yes" to the question, "Has a doctor ever told you that you have diabetes?" Women who indicated that they only had diabetes during pregnancy were not considered to have diabetes. Respondents were considered obese if their body mass index was 30 or greater. Body mass index (weight [kg]/height [m]²) was derived from self-report of height and weight. Respondents were considered to be physically inactive if they answered "no" to the question, "During the past month, other than your regular job, did you participate in any physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise?"

Three years of data were used to improve the precision of the year-specific county-level estimates of diagnosed diabetes and selected risk factors. For example, 2003, 2004, and 2005 were used for the 2004 estimate and 2004, 2005, and 2006 were used for the 2005 estimate. Estimates were restricted to adults 20 years of age or older to be consistent with population estimates from the U.S. Census Bureau. The U.S. Census Bureau provides year-specific county population estimates by demographic characteristics—age, sex, race, and Hispanic origin. .

The county-level estimates were based on indirect model-dependent estimates. The model-dependent approach employs a statistical model that “borrows strength” in making an estimate for one county from BRFSS data collected in other counties. Bayesian multilevel modeling techniques were used to obtain these estimates. Separate models were developed for each of the four census regions: West, Midwest, Northeast and South. Multilevel Poisson regression models with random effects of demographic variables (age 20–44, 45–64, 65 ; race; sex) at the county-level were developed. State was included as a county-level covariate.

Citation: [Centers for Disease Control and Prevention. Diabetes Data & Trends: Frequently Asked Questions \(FAQ\). \(2012\).](#)

Rates were age adjusted by the CDC for the following three age groups: 20-44, 45-64, 65 . Additional information, including the complete methodology and data definitions, can be found at the CDC's [Diabetes Data and Trends](#) website.

Notes

Race and Ethnicity

Statistics by race and ethnicity are not provided for this indicator from the data source. Detailed race/ethnicity data may be available at a broader geographic level, or from a local source.

Tobacco Usage - Current Smokers

Data Background

The Behavioral Risk Factor Surveillance System (BRFSS) is

“... a collaborative project of the Centers for Disease Control and Prevention (CDC) and U.S. states and territories. The BRFSS, administered and supported by CDC's Behavioral Risk Factor Surveillance Branch, is an ongoing data collection program designed to measure behavioral risk factors for the adult population (18 years of age or older) living in households.

”

Citation: Centers for Disease Control and Prevention, Office of Surveillance, Epidemiology, and Laboratory Services. [Overview: BRFSS 2010](#).

The health characteristics estimated from the BRFSS include data pertaining to health behaviors, chronic conditions, access and utilization of healthcare, and general health. Surveys are administered to populations at the state level and then delivered to the CDC and tabulated into county estimates by the BRFSS analysis team. Annual risk factor prevalence data are released for those geographic areas with 50 or more survey results and 10,000 or more total population (50 States, 170 Cities and Counties) in order to maintain the accuracy and confidentiality of the data. Multi-year estimates are produced by the NCHS to expand the coverage of data to approximately 2500 counties. These estimates are housed in the [Health Indicator Warehouse](#), the official repository of the nation’s health data.

For more information on the BRFSS survey methods, or to obtain a copy of the survey questionnaires, please visit [the Behavioral Risk Factor Surveillance System](#) home page.

Methodology

Indicator percentages are acquired for years 2006-2012 from Behavioral Risk Factor Surveillance System (BRFSS) prevalence data, which is housed in the Health Indicator Warehouse. Data are based on the percentage of respondents answering the following question:

"Do you now smoke cigarettes every day, some days, or not at all?"

Respondents are considered smokers if they reported smoking every day or some days. Percentages are age-adjusted and only pertain to the non-institutionalized population aged 18 and up. Population numerators (number of adult smokers) are not provided in the Health Indicator Warehouse data tables and were generated using the following formula:

$$[\text{Adults Smokers}] = ([\text{Indicator Percentage}] / 100) * [\text{Total Population}] .$$

Adult population figures used in the data tables are acquired from the American Community Survey (ACS) 2007-2011 five year estimates. Additional detailed information about the BRFSS, including questionnaires, data collection procedures, and [data processing methodologies](#) are available on the BRFSS web site. For additional information about the multi-year estimates, please visit the [Health Indicator Warehouse](#).

Notes

Race and Ethnicity

Statistics by race and ethnicity are not provided for this indicator from the data source. Detailed race/ethnicity data may be available at a broader geographic level, or from a local source.

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of persons sampled (for each geographic area / population group combination) over the survey period is less than 50, or when the standard error of the estimate exceeds 10% of the calculated value.

Access to Primary Care

Data Background

The Area Health Resource File (AHRF) is a database of information about the U.S. health care system, maintained and released annually by the U.S. Health and Human Services (HHS) Health Resources and Services Administration (HRSA). The AHRF contains more than 6,000 variables, aggregated for each of the nation's counties. The ARF contains information on health facilities, health professions, health status, economic activity, health training programs, measures of resource scarcity, and socioeconomic and environmental characteristics. In addition, the basic file contains geographic codes and descriptors which enable it to be linked to many other files and to aggregate counties into various geographic groupings.

The ARF integrates data from numerous primary data sources including: the American Hospital Association, the American Medical Association, the American Dental Association, the American Osteopathic Association, the Bureau of the Census, the Centers for Medicare and Medicaid Services (formerly Health Care Financing Administration), Bureau of Labor Statistics, National Center for Health Statistics and the Veteran's Administration.

For more information, please visit HRSA's [Area Health Resource File](#) website.

Methodology

Physician data are acquired from the 2013-14 Health Resources and Services Administration (HRSA) Area Health Resource File (AHRF). These counts are tabulations from the 2012 *American Medical Association (AMA) Physician Masterfiles*. Doctors classified as "primary care physicians" by the AMA include those practicing: General Family Medicine, General Practice, General Internal Medicine, and General Pediatrics. Physicians age 75 and over and physicians practicing sub-specialties within the listed specialties are excluded.

Data is tabulated for physicians practicing office-based patient care only. Practitioners who are hospital residents (including clinical fellows) and hospital-based (FT) staff are not included. Non-patient care practitioners include administrators, medical teachers, researchers, etc. Rates are calculated per 100,000 total population using the following formula:

$$\text{Provider Rate} = [\text{Number of Primary Care Physicians}] / [\text{Total Population}] * 100,000$$

For detailed documentation or to view the original data, please view the documentation included in the 2013-2014 AHRF, which can be downloaded [here](#).

Notes

Race and Ethnicity

Statistics by race and ethnicity are not provided for this indicator.

Data Limitations

Reported data represent summaries limited by county boundaries. When comparing rates, consider the following:

1) Rates assume uniform distribution of both establishments and populations throughout the county and

may not detect disparities in access for rural or minority populations.

2) Summaries may over-represent or under-represent county rates when populations or establishments are highly concentrated on county border lines.

3) Rates do not describe quality of the establishment or utilization frequency.

Cancer Screening - Mammogram

Data Background

The Dartmouth Atlas of Healthcare is an online repository of health data and maps based on information included in the massive Medicare database maintained by the Center for Medicare and Medicaid Services (CMS). The project uses Medicare claims data in conjunction with other demographic data to provide information and analysis about national, regional, and local markets, as well as hospitals and their affiliated physicians. The Dartmouth Atlas of Health Care is produced and maintained by The Dartmouth Institute for Health Policy and Clinical Practice.

For more information about this source, including methodologies and definitions, refer to the [Dartmouth Atlas of Healthcare](#) website.

Methodology

The Dartmouth Institute analyzes data drawn from enrollment and claims files from the Medicare program. Analysis is restricted to the fee-for-service population over age 65; HMO patients are not included. Indicator data tables express the proportion of Medicare Part B patients screened for medical conditions based on the following formula:

$$\text{Percentage} = [\text{Number Screened}] / [\text{Total Patients}] * 100$$

When appropriate, statistical adjustments are carried out to account for differences in age, race and sex.

Access to the complete methodology is available in the Dartmouth Institute's [Report of the Dartmouth Atlas Project](#).

Cancer Screening - Pap Test

Data Background

The Behavioral Risk Factor Surveillance System (BRFSS) is

“... a collaborative project of the Centers for Disease Control and Prevention (CDC) and U.S. states and territories. The BRFSS, administered and supported by CDC's Behavioral Risk Factor Surveillance Branch, is an ongoing data collection program designed to measure behavioral risk factors for the adult population (18 years of age or older) living in households.”

Citation: Centers for Disease Control and Prevention, Office of Surveillance, Epidemiology, and Laboratory Services. [Overview: BRFSS 2010](#).

The health characteristics estimated from the BRFSS include data pertaining to health behaviors, chronic conditions, access and utilization of healthcare, and general health. Surveys are administered to populations at the state level and then delivered to the CDC and tabulated into county estimates by the BRFSS analysis team. Annual risk factor prevalence data are released for those geographic areas with

50 or more survey results and 10,000 or more total population (50 States, 170 Cities and Counties) in order to maintain the accuracy and confidentiality of the data. Multi-year estimates are produced by the NCHS to expand the coverage of data to approximately 2500 counties. These estimates are housed in the [Health Indicator Warehouse](#), the official repository of the nation's health data.

For more information on the BRFSS survey methods, or to obtain a copy of the survey questionnaires, please visit [the Behavioral Risk Factor Surveillance System](#) home page.

Methodology

Indicator percentages are acquired for years 2006-2012 from Behavioral Risk Factor Surveillance System (BRFSS) prevalence data, which is housed in the Health Indicator Warehouse. Percentages are generated based on the valid responses to the following questions:

"A Pap test is a test for cancer of the cervix. Have you ever had a Pap test?"

Respondents are considered to have had a Pap test if they answer that they had ever had a test. Percentages are age-adjusted and only pertain to the non-institutionalized female population aged 18 and up. Population numerators (number of adults) are not provided in the Health Indicator Warehouse data tables and were generated using the following formula:

$$[\text{Persons having a Pap test}] = ([\text{Indicator Percentage}] / 100) * [\text{Total Population}] .$$

Adult population figures used in the data tables are acquired from the American Community Survey (ACS) 2007-2011 five year estimates. Additional detailed information about the BRFSS, including questionnaires, data collection procedures, and [data processing methodologies](#) are available on the BRFSS web site. For additional information about the multi-year estimates, please visit the [Health Indicator Warehouse](#).

Notes

Race and Ethnicity

Statistics by race and ethnicity are not provided for this indicator from the data source. Detailed race/ethnicity data may be available at a broader geographic level, or from a local source.

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of persons sampled (for each geographic area / population group combination) over the survey period is less than 50, or when the standard error of the estimate exceeds 10% of the calculated value.

Cancer Screening - Sigmoidoscopy or Colonoscopy

Data Background

The Behavioral Risk Factor Surveillance System (BRFSS) is

“... a collaborative project of the Centers for Disease Control and Prevention (CDC) and U.S. states and territories. The BRFSS, administered and supported by CDC's Behavioral Risk Factor Surveillance Branch, is an ongoing data collection program designed to measure behavioral risk factors for the adult population (18 years of age or older) living in households.”

Citation: Centers for Disease Control and Prevention, Office of Surveillance, Epidemiology, and Laboratory Services. [Overview: BRFSS 2010](#).

The health characteristics estimated from the BRFSS include data pertaining to health behaviors, chronic conditions, access and utilization of healthcare, and general health. Surveys are administered to populations at the state level and then delivered to the CDC and tabulated into county estimates by the BRFSS analysis team. Annual risk factor prevalence data are released for those geographic areas with 50 or more survey results and 10,000 or more total population (50 States, 170 Cities and Counties) in order to maintain the accuracy and confidentiality of the data. Multi-year estimates are produced by the NCHS to expand the coverage of data to approximately 2500 counties. These estimates are housed in the [Health Indicator Warehouse](#), the official repository of the nation's health data.

For more information on the BRFSS survey methods, or to obtain a copy of the survey questionnaires, please visit [the Behavioral Risk Factor Surveillance System](#) home page.

Methodology

Indicator percentages are acquired for years 2006-2012 from Behavioral Risk Factor Surveillance System (BRFSS) prevalence data, which is housed in the Health Indicator Warehouse. Percentages are generated based on the valid responses to the following questions:

"Sigmoidoscopy and colonoscopy are exams in which a tube is inserted in the rectum to view the colon for signs of cancer or other health problems. Have you ever had either of these exams? For a SIGMOIDOSCOPY, a flexible tube is inserted into the rectum to look for problems. A COLONOSCOPY is similar but uses a longer tube, and you are usually given medication through a needle in your arm to make you sleepy and told to have someone else drive you home after the test. Was your MOST RECENT exam a sigmoidoscopy or a colonoscopy? How long has it been since you had your last sigmoidoscopy or colonoscopy?"

Respondents are considered to have had a Sigmoidoscopy/Colonoscopy if they answer that they had ever had a test. Percentages are age-adjusted and only pertain to the non-institutionalized population aged 50 and up. Population numerators (number of adults) are not provided in the Health Indicator Warehouse data tables and were generated using the following formula:

[Persons having a Sigmoidoscopy/Colonoscopy] = ([Indicator Percentage] / 100) * [Total Population] .

Adult population figures used in the data tables are acquired from the American Community Survey (ACS) 2007-2011 five year estimates. Additional detailed information about the BRFSS, including questionnaires, data collection procedures, and [data processing methodologies](#) are available on the BRFSS web site. For additional information about the multi-year estimates, please visit the [Health Indicator Warehouse](#).

Notes

Race and Ethnicity

Statistics by race and ethnicity are not provided for this indicator from the data source. Detailed race/ethnicity data may be available at a broader geographic level, or from a local source.

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of persons sampled (for each geographic area / population group combination) over the survey period is less than 50, or when the standard error of the estimate exceeds 10% of the calculated value.

Dental Care Utilization

Data Background

The Behavioral Risk Factor Surveillance System (BRFSS) is

“... a collaborative project of the Centers for Disease Control and Prevention (CDC) and U.S. states and territories. The BRFSS, administered and supported by CDC's Behavioral Risk Factor Surveillance Branch, is an ongoing data collection program designed to measure behavioral risk factors for the adult population (18 years of age or older) living in households.”

Citation: Centers for Disease Control and Prevention, Office of Surveillance, Epidemiology, and Laboratory Services. [Overview: BRFSS 2010](#).

The health characteristics estimated from the BRFSS include data pertaining to health behaviors, chronic conditions, access and utilization of healthcare, and general health. Surveys are administered to populations at the state level and then delivered to the CDC. BRFSS annual survey data are publically available and maintained on the CDC's BRFSS [Annual Survey Data](#) web page.

For more information on the BRFSS survey methods, or to obtain a copy of the survey questionnaires, please visit [the Behavioral Risk Factor Surveillance System](#) home page.

Methodology

Indicator percentages are acquired from analysis of annual survey data from the Behavioral Risk Factor Surveillance System (BRFSS) for years 2006-2010. Percentages are generated based on valid responses to the following questions:

>“How long has it been since you last visited a dentist or a dental clinic for any reason? Include visits to dental specialists, such as orthodontists.” and “How long has it been since you had your teeth cleaned by a dentist or dental hygienist?” This indicator represents the percentage of respondents who indicated that they had not seen any dentist or dental hygienist within the past year. Data only pertain to the non-institutionalized population aged 18 and up and are weighted to reflect the total county population, including non-respondents, using the methods described in the BRFSS Comparability of Data documentation. Population numerators (estimated number of adults exercising each risk behavior) are not provided in the annual survey data and were generated for the data tables using the following formula:

$$\text{Adults Without Recent Dental Exam} = \left(\frac{[\text{Indicator Percentage}]}{100} \right) * [\text{Total Population}] .$$

The population figures used for these estimates are acquired from the American Community Survey (ACS) 2006-2010 five year estimates.

Additional detailed information about the BRFSS, including questionnaires, data collection procedures,

and [data processing methodologies](#) are available on the Behavioral Risk Factor Surveillance System home page.

Notes

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of persons sampled (for each geographic area / population group combination) over the survey period is less than 20. Data are unreliable when the total number of persons sampled over the survey period is less than 50. Confidence intervals are available when exploring the data through the map viewer.

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories in the Behavioral Risk Factor Surveillance System (BRFSS) interview surveys based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Before the raw survey data files are released, self-identified race and ethnicity variables are recoded by National Center for Health Statistics (NCHS) analysts into the following categories: White, Non-Hispanic; Black, Non-Hispanic; Multiple Race, Non-Hispanic; Other Race, Non-Hispanic; and Hispanic or Latino. Due to sample size constraints, race and ethnicity statistics are only reported at the state and national levels.

Diabetes Management - Hemoglobin A1c Test

Data Background

The Dartmouth Atlas of Healthcare is an online repository of health data and maps based on information included in the massive Medicare database maintained by the Center for Medicare and Medicaid Services (CMS). The project uses Medicare claims data in conjunction with other demographic data to provide information and analysis about national, regional, and local markets, as well as hospitals and their affiliated physicians. The Dartmouth Atlas of Health Care is produced and maintained by The Dartmouth Institute for Health Policy and Clinical Practice.

For more information about this source, including methodologies and definitions, refer to the [Dartmouth Atlas of Healthcare](#) website.

Methodology

The Dartmouth Institute analyzes data drawn from enrollment and claims files from the Medicare program. Analysis is restricted to the fee-for-service population over age 65; HMO patients are not included. Indicator data tables express the proportion of Medicare Part B patients screened for medical conditions based on the following formula:

$$\text{Percentage} = [\text{Number Screened}] / [\text{Total Patients}] * 100$$

When appropriate, statistical adjustments are carried out to account for differences in age, race and sex.

Access to the complete methodology is available in the Dartmouth Institute's [Report of the Dartmouth Atlas Project](#).

High Blood Pressure Management

Data Background

The Behavioral Risk Factor Surveillance System (BRFSS) is

“... a collaborative project of the Centers for Disease Control and Prevention (CDC) and U.S. states and territories. The BRFSS, administered and supported by CDC's Behavioral Risk Factor Surveillance Branch, is an ongoing data collection program designed to measure behavioral risk factors for the adult population (18 years of age or older) living in households.”

Citation: Centers for Disease Control and Prevention, Office of Surveillance, Epidemiology, and Laboratory Services. [Overview: BRFSS 2010](#).

The health characteristics estimated from the BRFSS include data pertaining to health behaviors, chronic conditions, access and utilization of healthcare, and general health. Surveys are administered to populations at the state level and then delivered to the CDC. BRFSS annual survey data are publically available and maintained on the CDC's BRFSS [Annual Survey Data](#) web page.

For more information on the BRFSS survey methods, or to obtain a copy of the survey questionnaires, please visit [the Behavioral Risk Factor Surveillance System](#) home page.

Methodology

Indicator percentages are acquired from analysis of annual survey data from the Behavioral Risk Factor Surveillance System (BRFSS) for years 2006-2010. Percentages are generated based on valid responses to the following questions:

“Have you EVER been told by a doctor, nurse or other health professional that you have high blood pressure?” and “Are you currently taking medicine for your high blood pressure?”

This indicator represents the percentage of those persons who answered that ‘yes’ they have high blood pressure who also answered ‘no’, that they are not currently taking medication to control it. Data only pertain to the non-institutionalized population aged 18 and up and are weighted to reflect the total county population, including non-respondents, using the methods described in the BRFSS Comparability of Data documentation. Population numerators (estimated number of adults exercising each risk behavior) are not provided in the annual survey data and were generated for the data tables using the following formula:

Adults Not Taking Blood Pressure Medication = ([Indicator Percentage] / 100) * [Total Adult Population]

The population figures used for these estimates are acquired from the American Community Survey (ACS) 2006-2010 five year estimates.

Additional detailed information about the BRFSS, including questionnaires, data collection procedures, and [data processing methodologies](#) are available on the Behavioral Risk Factor Surveillance System home page.

Notes

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of persons sampled (for each geographic area / population group combination) over the survey period is less than 20. Data are unreliable when the total number of persons sampled over the survey period is less than 50. Confidence intervals are available when exploring the data through the map viewer.

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories in the Behavioral Risk Factor Surveillance System (BRFSS) interview surveys based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Before the raw survey data files are released, self-identified race and ethnicity variables are recoded by National Center for Health Statistics (NCHS) analysts into the following categories: White, Non-Hispanic; Black, Non-Hispanic; Multiple Race, Non-Hispanic; Other Race, Non-Hispanic; and Hispanic or Latino. Due to sample size constraints, race and ethnicity statistics are only reported at the state and national levels.

Lack of a Consistent Source of Primary Care

Data Background

The Behavioral Risk Factor Surveillance System (BRFSS) is

“... a collaborative project of the Centers for Disease Control and Prevention (CDC) and U.S. states and territories. The BRFSS, administered and supported by CDC's Behavioral Risk Factor Surveillance Branch, is an ongoing data collection program designed to measure behavioral risk factors for the adult population (18 years of age or older) living in households.”

Citation: Centers for Disease Control and Prevention, Office of Surveillance, Epidemiology, and Laboratory Services. [Overview: BRFSS 2010](#).

The health characteristics estimated from the BRFSS include data pertaining to health behaviors, chronic conditions, access and utilization of healthcare, and general health. Surveys are administered to populations at the state level and then delivered to the CDC. BRFSS annual survey data are publically available and maintained on the CDC's BRFSS [Annual Survey Data](#) web page.

For more information on the BRFSS survey methods, or to obtain a copy of the survey questionnaires, please visit [the Behavioral Risk Factor Surveillance System](#) home page.

Methodology

Indicator percentages are acquired from analysis of annual survey data from the Behavioral Risk Factor Surveillance System (BRFSS) for years 2011-2012. Percentages are generated based on valid responses to the following questions:

" Do you have one person you think of as your personal doctor or health care provider? (If "No" ask "Is there more than one or is there no person who you think of as your personal doctor or health care provider?")"

This indicator represents the percentage of those persons who answered “no” to both parts of the question, indicating that they do not see any regular doctor. Data only pertain to the non-institutionalized population aged 18 and up and are weighted to reflect the total county population using the methods described in the BRFSS Comparability of Data documentation.

Additional detailed information about the BRFSS, including questionnaires, data collection procedures, and [data processing methodologies](#) are available on the Behavioral Risk Factor Surveillance System home page.

Notes

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of persons sampled (for each geographic area / population group combination) over the survey period is less than 20. Data are unreliable when the total number of persons sampled over the survey period is less than 50. Confidence intervals are available when exploring the data through the map viewer.

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories in the Behavioral Risk Factor Surveillance System (BRFSS) interview surveys based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Before the raw survey data files are released, self-identified race and ethnicity variables are recoded by National Center for Health Statistics (NCHS) analysts into the following categories: White, Non-Hispanic; Black, Non-Hispanic; Multiple Race, Non-Hispanic; Other Race, Non-Hispanic; and Hispanic or Latino. Due to sample size constraints, race and ethnicity statistics are only reported at the state and national levels.

Asthma Prevalence

Data Background

The Behavioral Risk Factor Surveillance System (BRFSS) is

“... a collaborative project of the Centers for Disease Control and Prevention (CDC) and U.S. states and territories. The BRFSS, administered and supported by CDC's Behavioral Risk Factor Surveillance Branch, is an ongoing data collection program designed to measure behavioral risk factors for the adult population (18 years of age or older) living in households.”

Citation: Centers for Disease Control and Prevention, Office of Surveillance, Epidemiology, and Laboratory Services. [Overview: BRFSS 2010](#).

The health characteristics estimated from the BRFSS include data pertaining to health behaviors, chronic conditions, access and utilization of healthcare, and general health. Surveys are administered to populations at the state level and then delivered to the CDC. BRFSS annual survey data are publically available and maintained on the CDC's BRFSS [Annual Survey Data](#) web page.

For more information on the BRFSS survey methods, or to obtain a copy of the survey questionnaires, please visit [the Behavioral Risk Factor Surveillance System](#) home page.

Methodology

Indicator percentages are acquired from analysis of annual survey data from the Behavioral Risk Factor Surveillance System (BRFSS) for years 2011-2012. Percentages are generated based on valid responses to the following questions:

"Have you ever been told by a doctor, nurse, or health professional that you have Asthma?"

This indicator represents the percentage of those persons who answered "yes". Data only pertain to the non-institutionalized population aged 18 and up and are weighted to reflect the total county population using the methods described in the BRFSS Comparability of Data documentation.

Additional detailed information about the BRFSS, including questionnaires, data collection procedures, and [data processing methodologies](#) are available on the Behavioral Risk Factor Surveillance System home page.

Notes

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of persons sampled (for each geographic area / population group combination) over the survey period is less than 20. Data are unreliable when the total number of persons sampled over the survey period is less than 50. Confidence intervals are available when exploring the data through the map viewer.

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories in the Behavioral Risk Factor Surveillance System (BRFSS) interview surveys based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Before the raw survey data files are released, self-identified race and ethnicity variables are recoded by National Center for Health Statistics (NCHS) analysts into the following categories: White, Non-Hispanic; Black, Non-Hispanic; Multiple Race, Non-Hispanic; Other Race, Non-Hispanic; and Hispanic or Latino. Due to sample size constraints, race and ethnicity statistics are only reported at the state and national levels.

Cancer Incidence - Breast

Data Background

The Surveillance, Epidemiology and End Results (SEER) program of the National Cancer Institute (NCI) collect information on incidence, prevalence and survival from state and local cancer registries in 14 US states. SEER also compiles cancer mortality statistics for the entire country.

The State Cancer Profiles website provides statistics to help guide and prioritize cancer control activities at the state and local levels. State Cancer Profiles are a collaborative effort of the National Cancer Institute (NCI) and the Centers for Disease Control and Prevention (CDC). The incidence rates tables accessed through the State Cancer Profiles website provide incidence statistics compiled from state and local cancer registries. Statistics are available for those states with cancer registries whose data have

met the criteria required for inclusion in the US Cancer Statistics. Data is provided for use in assessing the burden and risk for a major cancer site for the US overall or for a selected state and its counties.

State-based cancer registries are data systems that collect, manage, and analyze data about cancer cases and cancer deaths. In each state, medical facilities (including hospitals, physicians' offices, therapeutic radiation facilities, freestanding surgical centers, and pathology laboratories) report these data to a central cancer registry. State cancer registries receive funding and program guidance through the CDC's National Program of Cancer Registries and the National Cancer Institute's Surveillance, Epidemiology and End Results (SEER) program.

For more information, please visit the [State Cancer Profiles](#) website.

Methodology

Annual incidence rates are acquired for all US states and counties as an average for years 2007-2011 from the [State Cancer Profiles](#) Incidence Rates Tables. This source provides the average annual incidence of new cancer cases, as well as incidence rates, age adjusted to the 2000 US standard population. The new case counts (incidence) used to generate the State Cancer Profiles data tables are provided by the National Program of Cancer Registries Cancer Surveillance System (NPCR-CSS), the Centers for Disease Control and Prevention, and by the National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER) Program. The population data displayed in the report summary tables are based on American Community Survey 2007-11 5-year estimates and are shown for reference only.

In order to perform aggregate (multi-county or service area) incidence rate estimates with the data provided, age-adjusted total populations are first back-calculated using the following formula:

$$\text{Adj. Population} = ([\text{Cancer Incidence}] / ([\text{Adj. Incidence Rate}] / 100,000))$$

This estimated population figure is then used in the formula to re-calculate age-adjusted cancer rates as follows:

$$\text{Adj. Incidence Rate} = 100,000 * ([\text{Cancer Incidence}] / [\text{Adj. Population}])$$

For more information about the State Cancer Profiles data, including age-adjustment and data suppression, please visit the [SEER*Stat](#) website.

Notes

Data Limitations

1. Data is not available for the state of Kansas because of state legislation and regulations which prohibit the release of county level data to outside entities.
2. Data is not available for the state of Minnesota.
3. Data for Ohio counties are acquired from [CDC WONDER](#). Data are estimates based on metropolitan areas which consist of multiple counties.
4. Data for the state of Michigan do not include cases diagnosed in other states because data exchange agreements prohibit the release of data to third parties.

Race and Ethnicity

Cancer statistics from the State Cancer Profiles database are reported by race alone (White, Black, Amer. Indian/AK Native, and Asian) or by ethnicity alone (Hispanic), or for the white Hispanic and white non-Hispanic population. NHIA (NAACCR Hispanic Identification Algorithm) was used to determine

Hispanic ethnicity. See the *Technical Notes* section of the [2003 United States Cancer Statistics Report](#) for more information.

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the number of cases is less than 16 (for each county/cancer/population group combination) over the time period monitored, or when the total population (per race-ethnicity-sex grouping) of the report area is less than 50,000

Cancer Incidence - Cervical

Data Background

The Surveillance, Epidemiology and End Results (SEER) program of the National Cancer Institute (NCI) collect information on incidence, prevalence and survival from state and local cancer registries in 14 US states. SEER also compiles cancer mortality statistics for the entire country.

The State Cancer Profiles website provides statistics to help guide and prioritize cancer control activities at the state and local levels. State Cancer Profiles are a collaborative effort of the National Cancer Institute (NCI) and the Centers for Disease Control and Prevention (CDC). The incidence rates tables accessed through the State Cancer Profiles website provide incidence statistics compiled from state and local cancer registries. Statistics are available for those states with cancer registries whose data have met the criteria required for inclusion in the US Cancer Statistics. Data is provided for use in assessing the burden and risk for a major cancer site for the US overall or for a selected state and its counties.

State-based cancer registries are data systems that collect, manage, and analyze data about cancer cases and cancer deaths. In each state, medical facilities (including hospitals, physicians' offices, therapeutic radiation facilities, freestanding surgical centers, and pathology laboratories) report these data to a central cancer registry. State cancer registries receive funding and program guidance through the CDC's National Program of Cancer Registries and the National Cancer Institute's Surveillance, Epidemiology and End Results (SEER) program.

For more information, please visit the [State Cancer Profiles](#) website.

Methodology

Annual incidence rates are acquired for all US states and counties as an average for years 2007-2011 from the [State Cancer Profiles](#) Incidence Rates Tables. This source provides the average annual incidence of new cancer cases, as well as incidence rates, age adjusted to the 2000 US standard population. The new case counts (incidence) used to generate the State Cancer Profiles data tables are provided by the National Program of Cancer Registries Cancer Surveillance System (NPCR-CSS), the Centers for Disease Control and Prevention, and by the National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER) Program. The population data displayed in the report summary tables are based on American Community Survey 2007-11 5-year estimates and are shown for reference only.

In order to perform aggregate (multi-county or service area) incidence rate estimates with the data provided, age-adjusted total populations are first back-calculated using the following formula:

$$Adj. \text{ Population} = ([\text{Cancer Incidence}] / ([\text{Adj. Incidence Rate}] / 100,000))$$

This estimated population figure is then used in the formula to re-calculate age-adjusted cancer rates as

follows:

$$\text{Adj. Incidence Rate} = 100,000 * ([\text{Cancer Incidence}] / [\text{Adj. Population}])$$

For more information about the State Cancer Profiles data, including age-adjustment and data suppression, please visit the [SEER*Stat](#) website.

Notes

Data Limitations

1. Data is not available for the state of Kansas because of state legislation and regulations which prohibit the release of county level data to outside entities.
2. Data is not available for the state of Minnesota.
3. Data for Ohio counties are acquired from [CDC WONDER](#). Data are estimates based on metropolitan areas which consist of multiple counties.
4. Data for the state of Michigan do not include cases diagnosed in other states because data exchange agreements prohibit the release of data to third parties.

Race and Ethnicity

Cancer statistics from the State Cancer Profiles database are reported by race alone (White, Black, Amer. Indian/AK Native, and Asian) or by ethnicity alone (Hispanic), or for the white Hispanic and white non-Hispanic population. NHIA (NAACCR Hispanic Identification Algorithm) was used to determine Hispanic ethnicity. See the *Technical Notes* section of the [2003 United States Cancer Statistics Report](#) for more information.

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the number of cases is less than 16 (for each county/cancer/population group combination) over the time period monitored, or when the total population (per race-ethnicity-sex grouping) of the report area is less than 50,000

Cancer Incidence - Colon and Rectum

Data Background

The Surveillance, Epidemiology and End Results (SEER) program of the National Cancer Institute (NCI) collect information on incidence, prevalence and survival from state and local cancer registries in 14 US states. SEER also compiles cancer mortality statistics for the entire country.

The State Cancer Profiles website provides statistics to help guide and prioritize cancer control activities at the state and local levels. State Cancer Profiles are a collaborative effort of the National Cancer Institute (NCI) and the Centers for Disease Control and Prevention (CDC). The incidence rates tables accessed through the State Cancer Profiles website provide incidence statistics compiled from state and local cancer registries. Statistics are available for those states with cancer registries whose data have met the criteria required for inclusion in the US Cancer Statistics. Data is provided for use in assessing the burden and risk for a major cancer site for the US overall or for a selected state and its counties.

State-based cancer registries are data systems that collect, manage, and analyze data about cancer cases and cancer deaths. In each state, medical facilities (including hospitals, physicians' offices, therapeutic radiation facilities, freestanding surgical centers, and pathology laboratories) report these data to a central cancer registry. State cancer registries receive funding and program guidance through

the CDC's National Program of Cancer Registries and the National Cancer Institute's Surveillance, Epidemiology and End Results (SEER) program.

For more information, please visit the [State Cancer Profiles](#) website.

Methodology

Annual incidence rates are acquired for all US states and counties as an average for years 2007-2011 from the [State Cancer Profiles](#) Incidence Rates Tables. This source provides the average annual incidence of new cancer cases, as well as incidence rates, age adjusted to the 2000 US standard population. The new case counts (incidence) used to generate the State Cancer Profiles data tables are provided by the National Program of Cancer Registries Cancer Surveillance System (NPCR-CSS), the Centers for Disease Control and Prevention, and by the National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER) Program. The population data displayed in the report summary tables are based on American Community Survey 2007-11 5-year estimates and are shown for reference only.

In order to perform aggregate (multi-county or service area) incidence rate estimates with the data provided, age-adjusted total populations are first back-calculated using the following formula:

$$\text{Adj. Population} = ([\text{Cancer Incidence}] / ([\text{Adj. Incidence Rate}] / 100,000))$$

This estimated population figure is then used in the formula to re-calculate age-adjusted cancer rates as follows:

$$\text{Adj. Incidence Rate} = 100,000 * ([\text{Cancer Incidence}] / [\text{Adj. Population}])$$

For more information about the State Cancer Profiles data, including age-adjustment and data suppression, please visit the [SEER*Stat](#) website.

Notes

Data Limitations

1. Data is not available for the state of Kansas because of state legislation and regulations which prohibit the release of county level data to outside entities.
2. Data is not available for the state of Minnesota.
3. Data for Ohio counties are acquired from [CDC WONDER](#). Data are estimates based on metropolitan areas which consist of multiple counties.
4. Data for the state of Michigan do not include cases diagnosed in other states because data exchange agreements prohibit the release of data to third parties.

Race and Ethnicity

Cancer statistics from the State Cancer Profiles database are reported by race alone (White, Black, Amer. Indian/AK Native, and Asian) or by ethnicity alone (Hispanic), or for the white Hispanic and white non-Hispanic population. NHIA (NAACCR Hispanic Identification Algorithm) was used to determine Hispanic ethnicity. See the *Technical Notes* section of the [2003 United States Cancer Statistics Report](#) for more information.

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the number of cases is less than 16 (for each county/cancer/population group combination) over the time period monitored, or when the total population (per race-ethnicity-sex grouping) of the report area is less than 50,000

Cancer Incidence - Lung

Data Background

The Surveillance, Epidemiology and End Results (SEER) program of the National Cancer Institute (NCI) collect information on incidence, prevalence and survival from state and local cancer registries in 14 US states. SEER also compiles cancer mortality statistics for the entire country.

The State Cancer Profiles website provides statistics to help guide and prioritize cancer control activities at the state and local levels. State Cancer Profiles are a collaborative effort of the National Cancer Institute (NCI) and the Centers for Disease Control and Prevention (CDC). The incidence rates tables accessed through the State Cancer Profiles website provide incidence statistics compiled from state and local cancer registries. Statistics are available for those states with cancer registries whose data have met the criteria required for inclusion in the US Cancer Statistics. Data is provided for use in assessing the burden and risk for a major cancer site for the US overall or for a selected state and its counties.

State-based cancer registries are data systems that collect, manage, and analyze data about cancer cases and cancer deaths. In each state, medical facilities (including hospitals, physicians' offices, therapeutic radiation facilities, freestanding surgical centers, and pathology laboratories) report these data to a central cancer registry. State cancer registries receive funding and program guidance through the CDC's National Program of Cancer Registries and the National Cancer Institute's Surveillance, Epidemiology and End Results (SEER) program.

For more information, please visit the [State Cancer Profiles](#) website.

Methodology

Annual incidence rates are acquired for all US states and counties as an average for years 2007-2011 from the [State Cancer Profiles](#) Incidence Rates Tables. This source provides the average annual incidence of new cancer cases, as well as incidence rates, age adjusted to the 2000 US standard population. The new case counts (incidence) used to generate the State Cancer Profiles data tables are provided by the National Program of Cancer Registries Cancer Surveillance System (NPCR-CSS), the Centers for Disease Control and Prevention, and by the National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER) Program. The population data displayed in the report summary tables are based on American Community Survey 2007-11 5-year estimates and are shown for reference only.

In order to perform aggregate (multi-county or service area) incidence rate estimates with the data provided, age-adjusted total populations are first back-calculated using the following formula:

$$\text{Adj. Population} = ([\text{Cancer Incidence}] / ([\text{Adj. Incidence Rate}] / 100,000))$$

This estimated population figure is then used in the formula to re-calculate age-adjusted cancer rates as follows:

$$\text{Adj. Incidence Rate} = 100,000 * ([\text{Cancer Incidence}] / [\text{Adj. Population}])$$

For more information about the State Cancer Profiles data, including age-adjustment and data suppression, please visit the [SEER*Stat](#) website.

Notes

Data Limitations

1. Data is not available for the state of Kansas because of state legislation and regulations which prohibit the release of county level data to outside entities.
2. Data is not available for the state of Minnesota.
3. Data for Ohio counties are acquired from [CDC WONDER](#). Data are estimates based on metropolitan areas which consist of multiple counties.
4. Data for the state of Michigan do not include cases diagnosed in other states because data exchange agreements prohibit the release of data to third parties.

Race and Ethnicity

Cancer statistics from the State Cancer Profiles database are reported by race alone (White, Black, Amer. Indian/AK Native, and Asian) or by ethnicity alone (Hispanic), or for the white Hispanic and white non-Hispanic population. NHIA (NAACCR Hispanic Identification Algorithm) was used to determine Hispanic ethnicity. See the *Technical Notes* section of the [2003 United States Cancer Statistics Report](#) for more information.

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the number of cases is less than 16 (for each county/cancer/population group combination) over the time period monitored, or when the total population (per race-ethnicity-sex grouping) of the report area is less than 50,000

Cancer Incidence - Prostate

Data Background

The Surveillance, Epidemiology and End Results (SEER) program of the National Cancer Institute (NCI) collect information on incidence, prevalence and survival from state and local cancer registries in 14 US states. SEER also compiles cancer mortality statistics for the entire country.

The State Cancer Profiles website provides statistics to help guide and prioritize cancer control activities at the state and local levels. State Cancer Profiles are a collaborative effort of the National Cancer Institute (NCI) and the Centers for Disease Control and Prevention (CDC). The incidence rates tables accessed through the State Cancer Profiles website provide incidence statistics compiled from state and local cancer registries. Statistics are available for those states with cancer registries whose data have met the criteria required for inclusion in the US Cancer Statistics. Data is provided for use in assessing the burden and risk for a major cancer site for the US overall or for a selected state and its counties.

State-based cancer registries are data systems that collect, manage, and analyze data about cancer cases and cancer deaths. In each state, medical facilities (including hospitals, physicians' offices, therapeutic radiation facilities, freestanding surgical centers, and pathology laboratories) report these data to a central cancer registry. State cancer registries receive funding and program guidance through the CDC's National Program of Cancer Registries and the National Cancer Institute's Surveillance, Epidemiology and End Results (SEER) program.

For more information, please visit the [State Cancer Profiles](#) website.

Methodology

Annual incidence rates are acquired for all US states and counties as an average for years 2007-2011 from the [State Cancer Profiles](#) Incidence Rates Tables. This source provides the average annual incidence of new cancer cases, as well as incidence rates, age adjusted to the 2000 US standard population. The new case counts (incidence) used to generate the State Cancer Profiles data tables are provided by the National Program of Cancer Registries Cancer Surveillance System (NPCR-CSS), the Centers for Disease Control and Prevention, and by the National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER) Program. The population data displayed in the report summary tables are based on American Community Survey 2007-11 5-year estimates and are shown for reference only.

In order to perform aggregate (multi-county or service area) incidence rate estimates with the data provided, age-adjusted total populations are first back-calculated using the following formula:

$$\text{Adj. Population} = ([\text{Cancer Incidence}] / ([\text{Adj. Incidence Rate}] / 100,000))$$

This estimated population figure is then used in the formula to re-calculate age-adjusted cancer rates as follows:

$$\text{Adj. Incidence Rate} = 100,000 * ([\text{Cancer Incidence}] / [\text{Adj. Population}])$$

For more information about the State Cancer Profiles data, including age-adjustment and data suppression, please visit the [SEER*Stat](#) website.

Notes

Data Limitations

1. Data is not available for the state of Kansas because of state legislation and regulations which prohibit the release of county level data to outside entities.
2. Data is not available for the state of Minnesota.
3. Data for Ohio counties are acquired from [CDC WONDER](#). Data are estimates based on metropolitan areas which consist of multiple counties.
4. Data for the state of Michigan do not include cases diagnosed in other states because data exchange agreements prohibit the release of data to third parties.

Race and Ethnicity

Cancer statistics from the State Cancer Profiles database are reported by race alone (White, Black, Amer. Indian/AK Native, and Asian) or by ethnicity alone (Hispanic), or for the white Hispanic and white non-Hispanic population. NHIA (NAACCR Hispanic Identification Algorithm) was used to determine Hispanic ethnicity. See the *Technical Notes* section of the [2003 United States Cancer Statistics Report](#) for more information.

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the number of cases is less than 16 (for each county/cancer/population group combination) over the time period monitored, or when the total population (per race-ethnicity-sex grouping) of the report area is less than 50,000

Chlamydia Incidence

Data Background

The National Center for HIV/AIDS, Viral Hepatitis, Sexually Transmitted Disease (STD), and Tuberculosis (TB) Prevention (NCHHSTP) is the branch of the Centers for Disease Control and Prevention (CDC) responsible for public health surveillance, prevention research, and programs to prevent and control HIV and AIDS, other STDs, viral hepatitis, and TB. NCHHSTP developed a set of indicators to monitor the prevalence and track its progress toward ending these diseases in each state, and regularly reports its progress. The NCHHSTEP program includes data from new patient case reports from 56 areas (all 50 states, the District of Columbia, American Samoa, Guam, the Northern Mariana Islands, Puerto Rico, and the U.S. Virgin Islands).

Methodology

Cases of a given STD refer to confirmed diagnoses during a given time period. For example, the 2010 data on gonorrhea infection would include persons with laboratory-confirmed infection diagnosed between January 1, 2010 and December 31, 2010, and reported to CDC through June 8, 2011. Rates per 100,000 population were calculated for each STD. The population denominators used to compute these rates for the 50 states and the District of Columbia were based on the National Center for Health Statistics (NCHS) bridged-race population counts for the 2000–2010. These estimates are a modification of the U.S. Census Bureau population estimates in which the 31 race categories used by the Census Bureau are bridged into the five race/ethnicity groups that have been historically used to report race data for STD cases. Each rate was calculated by dividing the number of cases for the calendar year by the population for that calendar year and then multiplying the number by 100,000.

For more information, visit the [NCHHSTP Atlas](#) and click on the “About these data and footnotes” link.

Notes

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories by state departments of health based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Data reported from the CDC National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention (NCHHSTP) is available by combined race and ethnicity, and is reported only for state and national data summaries. County level statistics by race and ethnicity are not provided for this indicator from the data source. Detailed race/ethnicity data may be available from a local source.

Diabetes (Adult)

Data Background

The Centers for Disease Control and Prevention’s National Center for Chronic Disease Prevention and Health Promotion monitors the health of the Nation and produces publically available data to promote general health. The division maintains the Diabetes Data and Trends data system, which includes the National Diabetes Fact Sheet and the National Diabetes Surveillance System. These programs provide resources documenting the public health burden of diabetes and its complications in the United States. The surveillance system also includes county-level estimates of diagnosed diabetes and selected risk factors for all U.S. counties to help target and optimize the resources for diabetes control and prevention.

Citation: [Centers for Disease Control and Prevention, Diabetes Data & Trends: Frequently Asked Questions \(FAQ\). \(2012\).](#)

Methodology

Data for total population and estimated obese population data are acquired from the County Level Estimates of Diagnosed Diabetes, a service of the Centers for Disease Control and Prevention's National Diabetes Surveillance Program. Diabetes and other risk factor prevalence is estimated using the following formula:

$$\text{Percent Prevalence} = [\text{Risk Factor Population}] / [\text{Total Population}] * 100.$$

All data are estimates modeled by the CDC using the methods described below:

The National Diabetes Surveillance system produces data estimating the prevalence of diagnosed diabetes and population obesity by county using data from [CDC's Behavioral Risk Factor Surveillance System](#) (BRFSS) and data from the [U.S. Census Bureau's Population Estimates Program](#). The BRFSS is an ongoing, monthly, state-based telephone survey of the adult population. The survey provides state-specific information on behavioral risk factors and preventive health practices. Respondents were considered to have diabetes if they responded "yes" to the question, "Has a doctor ever told you that you have diabetes?" Women who indicated that they only had diabetes during pregnancy were not considered to have diabetes. Respondents were considered obese if their body mass index was 30 or greater. Body mass index (weight [kg]/height [m]²) was derived from self-report of height and weight. Respondents were considered to be physically inactive if they answered "no" to the question, "During the past month, other than your regular job, did you participate in any physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise?"

Three years of data were used to improve the precision of the year-specific county-level estimates of diagnosed diabetes and selected risk factors. For example, 2003, 2004, and 2005 were used for the 2004 estimate and 2004, 2005, and 2006 were used for the 2005 estimate. Estimates were restricted to adults 20 years of age or older to be consistent with population estimates from the U.S. Census Bureau. The U.S. Census Bureau provides year-specific county population estimates by demographic characteristics—age, sex, race, and Hispanic origin. .

The county-level estimates were based on indirect model-dependent estimates. The model-dependent approach employs a statistical model that "borrows strength" in making an estimate for one county from BRFSS data collected in other counties. Bayesian multilevel modeling techniques were used to obtain these estimates. Separate models were developed for each of the four census regions: West, Midwest, Northeast and South. Multilevel Poisson regression models with random effects of demographic variables (age 20–44, 45–64, 65 ; race; sex) at the county-level were developed. State was included as a county-level covariate.

Citation: [Centers for Disease Control and Prevention, Diabetes Data & Trends: Frequently Asked Questions \(FAQ\). \(2012\).](#)

Rates were age adjusted by the CDC for the following three age groups: 20-44, 45-64, 65 . Additional information, including the complete methodology and data definitions, can be found at the CDC's [Diabetes Data and Trends](#) website.

Notes

Race and Ethnicity

Statistics by race and ethnicity are not provided for this indicator from the data source. Detailed race/ethnicity data may be available at a broader geographic level, or from a local source.

Diabetes (Medicare Population)

Data Background

The Centers for Medicare & Medicaid Services (CMS), a branch of the Department of Health and Human Services (HHS), is the federal agency that runs the Medicare Program and monitors Medicaid programs offered by each state. Medicare is a type of federally-funded health insurance available to disabled persons and the population age 65 and older. CMS provides various data on the Medicare population based on claims and enrollment data.

Methodology

Indicator percentages are acquired for 2012 from Centers for Medicare and Medicaid Services (CMS) Chronic Conditions Warehouse. The data used in the chronic condition reports are based upon CMS administrative enrollment and claims data for Medicare beneficiaries enrolled in the fee-for-service program. Beneficiaries who died during the year are included up to their date of death if they meet the other inclusion criteria. Chronic condition prevalence estimates are calculated by CMS by taking the beneficiaries with a particular condition divided by the total number of beneficiaries in our fee-for-service population, expressed as a percentage. For more information and to view the original data, please visit the CMS [Chronic Conditions](#) web page.

Gonorrhea Incidence

Data Background

The National Center for HIV/AIDS, Viral Hepatitis, Sexually Transmitted Disease (STD), and Tuberculosis (TB) Prevention (NCHHSTP) is the branch of the Centers for Disease Control and Prevention (CDC) responsible for public health surveillance, prevention research, and programs to prevent and control HIV and AIDS, other STDs, viral hepatitis, and TB. NCHHSTP developed a set of indicators to monitor the prevalence and track its progress toward ending these diseases in each state, and regularly reports its progress. The NCHHSTEP program includes data from new patient case reports from 56 areas (all 50 states, the District of Columbia, American Samoa, Guam, the Northern Mariana Islands, Puerto Rico, and the U.S. Virgin Islands).

Methodology

Cases of a given STD refer to confirmed diagnoses during a given time period. For example, the 2010 data on gonorrhea infection would include persons with laboratory-confirmed infection diagnosed between January 1, 2010 and December 31, 2010, and reported to CDC through June 8, 2011. Rates per 100,000 population were calculated for each STD. The population denominators used to compute these rates for the 50 states and the District of Columbia were based on the National Center for Health Statistics (NCHS) bridged-race population counts for the 2000–2010. These estimates are a modification of the U.S. Census Bureau population estimates in which the 31 race categories used by the Census Bureau are bridged into the five race/ethnicity groups that have been historically used to report race data

for STD cases. Each rate was calculated by dividing the number of cases for the calendar year by the population for that calendar year and then multiplying the number by 100,000.

For more information, visit the [NCHHSTP Atlas](#) and click on the “About these data and footnotes” link.

Notes

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories by state departments of health based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Data reported from the CDC National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention (NCHHSTP) is available by combined race and ethnicity, and is reported only for state and national data summaries. County level statistics by race and ethnicity are not provided for this indicator from the data source. Detailed race/ethnicity data may be available from a local source.

Heart Disease (Adult)

Data Background

The Behavioral Risk Factor Surveillance System (BRFSS) is

“... a collaborative project of the Centers for Disease Control and Prevention (CDC) and U.S. states and territories. The BRFSS, administered and supported by CDC's Behavioral Risk Factor Surveillance Branch, is an ongoing data collection program designed to measure behavioral risk factors for the adult population (18 years of age or older) living in households.”

Citation: Centers for Disease Control and Prevention, Office of Surveillance, Epidemiology, and Laboratory Services. [Overview: BRFSS 2010](#).

The health characteristics estimated from the BRFSS include data pertaining to health behaviors, chronic conditions, access and utilization of healthcare, and general health. Surveys are administered to populations at the state level and then delivered to the CDC. BRFSS annual survey data are publically available and maintained on the CDC's BRFSS [Annual Survey Data](#) web page.

For more information on the BRFSS survey methods, or to obtain a copy of the survey questionnaires, please visit [the Behavioral Risk Factor Surveillance System](#) home page.

Methodology

Indicator percentages are acquired from analysis of annual survey data from the Behavioral Risk Factor Surveillance System (BRFSS) for years 2011-2012. Percentages are generated based on valid responses to the following questions:

- " Has a doctor, nurse, or other health professional ever told you that you had any of the following:
- Ever told you had a heart attack, also called myocardial infarction?
 - Ever told you had angina or coronary heart disease?
 - Ever told you had a stroke?"

This indicator represents the percentage of those persons who answered that “yes”, they have been diagnosed with angina or coronary heart disease. Data only pertain to the non-institutionalized

population aged 18 and up and are weighted to reflect the total county population using the methods described in the BRFSS Comparability of Data documentation.

Additional detailed information about the BRFSS, including questionnaires, data collection procedures, and [data processing methodologies](#) are available on the Behavioral Risk Factor Surveillance System home page.

Notes

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of persons sampled (for each geographic area / population group combination) over the survey period is less than 20. Data are unreliable when the total number of persons sampled over the survey period is less than 50. Confidence intervals are available when exploring the data through the map viewer.

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories in the Behavioral Risk Factor Surveillance System (BRFSS) interview surveys based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Before the raw survey data files are released, self-identified race and ethnicity variables are recoded by National Center for Health Statistics (NCHS) analysts into the following categories: White, Non-Hispanic; Black, Non-Hispanic; Multiple Race, Non-Hispanic; Other Race, Non-Hispanic; and Hispanic or Latino. Due to sample size constraints, race and ethnicity statistics are only reported at the state and national levels.

Heart Disease (Medicare Population)

Data Background

The Centers for Medicare & Medicaid Services (CMS), a branch of the Department of Health and Human Services (HHS), is the federal agency that runs the Medicare Program and monitors Medicaid programs offered by each state. Medicare is a type of federally-funded health insurance available to disabled persons and the population age 65 and older. CMS provides various data on the Medicare population based on claims and enrollment data.

Methodology

Indicator percentages are acquired for 2012 from Centers for Medicare and Medicaid Services (CMS) Chronic Conditions Warehouse. The data used in the chronic condition reports are based upon CMS administrative enrollment and claims data for Medicare beneficiaries enrolled in the fee-for-service program. Beneficiaries who died during the year are included up to their date of death if they meet the other inclusion criteria. Chronic condition prevalence estimates are calculated by CMS by taking the beneficiaries with a particular condition divided by the total number of beneficiaries in our fee-for-service population, expressed as a percentage. For more information and to view the original data, please visit the CMS [Chronic Conditions](#) web page.

High Blood Pressure (Adult)

Data Background

The Behavioral Risk Factor Surveillance System (BRFSS) is

“... a collaborative project of the Centers for Disease Control and Prevention (CDC) and U.S. states and territories. The BRFSS, administered and supported by CDC's Behavioral Risk Factor Surveillance Branch, is an ongoing data collection program designed to measure behavioral risk factors for the adult population (18 years of age or older) living in households.”

Citation: Centers for Disease Control and Prevention, Office of Surveillance, Epidemiology, and Laboratory Services. [Overview: BRFSS 2010](#).

The health characteristics estimated from the BRFSS include data pertaining to health behaviors, chronic conditions, access and utilization of healthcare, and general health. Surveys are administered to populations at the state level and then delivered to the CDC. BRFSS annual survey data are publically available and maintained on the CDC's BRFSS [Annual Survey Data](#) web page.

For more information on the BRFSS survey methods, or to obtain a copy of the survey questionnaires, please visit [the Behavioral Risk Factor Surveillance System](#) home page.

Methodology

Indicator percentages are acquired for years 2006-2012 from Behavioral Risk Factor Surveillance System (BRFSS) prevalence data, which is housed in the Health Indicator Warehouse. Percentages are generated based on the valid responses to the following question:

"Have you EVER been told by a doctor, nurse or other health professional that you have high blood pressure?"

This indicator represents the percentage of those persons who answered that “yes”, they have been diagnosed with high blood pressure or hypertension. Data only pertain to the non-institutionalized population aged 18 and up and are weighted to reflect the total county population, including non-respondents, using the methods described in the BRFSS Comparability of Data documentation. Population numerators (estimated number of adults exercising each risk behavior) are not provided in the annual survey data and were generated for the data tables using the following formula:

Adults Diagnosed with High Blood Pressure = ([Indicator Percentage] / 100) * [Total Population] .

The population figures used for these estimates are acquired from the American Community Survey (ACS) 2007-2011 five year estimates.

Additional detailed information about the BRFSS, including questionnaires, data collection procedures, and [data processing methodologies](#) are available on the Behavioral Risk Factor Surveillance System

Notes

Race and Ethnicity

Statistics by race and ethnicity are not provided for this indicator from the data source. Detailed race/ethnicity data may be available at a broader geographic level, or from a local source.

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the

total number of persons sampled (for each geographic area / population group combination) over the survey period is less than 50, or when the standard error of the estimate exceeds 10% of the calculated value.

High Blood Pressure (Medicare Population)

Data Background

The Centers for Medicare & Medicaid Services (CMS), a branch of the Department of Health and Human Services (HHS), is the federal agency that runs the Medicare Program and monitors Medicaid programs offered by each state. Medicare is a type of federally-funded health insurance available to disabled persons and the population age 65 and older. CMS provides various data on the Medicare population based on claims and enrollment data.

Methodology

Indicator percentages are acquired for 2012 from Centers for Medicare and Medicaid Services (CMS) Chronic Conditions Warehouse. The data used in the chronic condition reports are based upon CMS administrative enrollment and claims data for Medicare beneficiaries enrolled in the fee-for-service program. Beneficiaries who died during the year are included up to their date of death if they meet the other inclusion criteria. Chronic condition prevalence estimates are calculated by CMS by taking the beneficiaries with a particular condition divided by the total number of beneficiaries in our fee-for-service population, expressed as a percentage. For more information and to view the original data, please visit the CMS [Chronic Conditions](#) web page.

High Cholesterol (Adult)

Data Background

The Behavioral Risk Factor Surveillance System (BRFSS) is

“... a collaborative project of the Centers for Disease Control and Prevention (CDC) and U.S. states and territories. The BRFSS, administered and supported by CDC's Behavioral Risk Factor Surveillance Branch, is an ongoing data collection program designed to measure behavioral risk factors for the adult population (18 years of age or older) living in households.”

Citation: Centers for Disease Control and Prevention, Office of Surveillance, Epidemiology, and Laboratory Services. [Overview: BRFSS 2010](#).

The health characteristics estimated from the BRFSS include data pertaining to health behaviors, chronic conditions, access and utilization of healthcare, and general health. Surveys are administered to populations at the state level and then delivered to the CDC. BRFSS annual survey data are publically available and maintained on the CDC's BRFSS [Annual Survey Data](#) web page.

For more information on the BRFSS survey methods, or to obtain a copy of the survey questionnaires, please visit [the Behavioral Risk Factor Surveillance System](#) home page.

High Cholesterol (Medicare Population)

Data Background

The Centers for Medicare & Medicaid Services (CMS), a branch of the Department of Health and Human Services (HHS), is the federal agency that runs the Medicare Program and monitors Medicaid programs offered by each state. Medicare is a type of federally-funded health insurance available to disabled persons and the population age 65 and older. CMS provides various data on the Medicare population based on claims and enrollment data.

Methodology

Indicator percentages are acquired for 2012 from Centers for Medicare and Medicaid Services (CMS) Chronic Conditions Warehouse. The data used in the chronic condition reports are based upon CMS administrative enrollment and claims data for Medicare beneficiaries enrolled in the fee-for-service program. Beneficiaries who died during the year are included up to their date of death if they meet the other inclusion criteria. Chronic condition prevalence estimates are calculated by CMS by taking the beneficiaries with a particular condition divided by the total number of beneficiaries in our fee-for-service population, expressed as a percentage. For more information and to view the original data, please visit the CMS [Chronic Conditions](#) web page.

HIV Prevalence

Data Background

The National Center for HIV/AIDS, Viral Hepatitis, Sexually Transmitted Disease (STD), and Tuberculosis (TB) Prevention (NCHHSTP) is the branch of the Centers for Disease Control and Prevention (CDC) responsible for public health surveillance, prevention research, and programs to prevent and control HIV and AIDS, other STDs, viral hepatitis, and TB. NCHHSTP developed a set of indicators to monitor the prevalence and track its progress toward ending these diseases in each state, and regularly reports its progress. The NCHHSTEP program includes data from new patient case reports from 56 areas (all 50 states, the District of Columbia, American Samoa, Guam, the Northern Mariana Islands, Puerto Rico, and the U.S. Virgin Islands).

Methodology

Cases of a given STD refer to confirmed diagnoses during a given time period. For example, the 2010 data on gonorrhea infection would include persons with laboratory-confirmed infection diagnosed between January 1, 2010 and December 31, 2010, and reported to CDC through June 8, 2011. Rates per 100,000 population were calculated for each STD. The population denominators used to compute these rates for the 50 states and the District of Columbia were based on the National Center for Health Statistics (NCHS) bridged-race population counts for the 2000–2010. These estimates are a modification of the U.S. Census Bureau population estimates in which the 31 race categories used by the Census Bureau are bridged into the five race/ethnicity groups that have been historically used to report race data for STD cases. Each rate was calculated by dividing the number of cases for the calendar year by the population for that calendar year and then multiplying the number by 100,000.

For more information, visit the [NCHHSTP Atlas](#) and click on the “About these data and footnotes” link.

Notes

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories by state departments of health based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Data reported from the CDC National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention (NCHHSTP) is available by combined race and ethnicity, and is reported only for state and national data summaries. County level statistics by race and ethnicity are not provided for this indicator from the data source. Detailed race/ethnicity data may be available from a local source.

Infant Mortality

Data Background

The Division of Vital Statistics is a branch of the Centers for Disease Control and Prevention (CDC) National Center for Health Statistics (NCHS) responsible for maintaining birth and death records for the nation. Data are compiled for the National Vital Statistics System (NVSS) through a joint effort between the NCHS and various state and local health agencies, who are responsible for registering vital events – births, deaths, marriages, divorces, and fetal deaths. NVSS statistics are released annually in various data warehouses, including [CDC WONDER](#), [VitalStats](#), and the [Health Indicator Warehouse](#).

CDC WONDER, developed by the Centers for Disease Control and Prevention (CDC), is an integrated information and communication system for public health. Its purposes are:

1. To promote information-driven decision making by placing timely, useful facts in the hands of public health practitioners and researchers, and
2. To provide the general public with access to specific and detailed information from CDC.

CDC WONDER provides:

- Access statistical research data published by CDC, as well as reference materials, reports and guidelines on health-related topics;
- The ability to query numeric datasets on CDC's computers, via "fill-in-the blank" web pages. Public-use data sets about mortality (deaths), cancer incidence, HIV and AIDS, tuberculosis, vaccinations, natality (births), census data and many other topics are available for query, and the requested data are readily summarized and analyzed, with dynamically calculated statistics, charts and maps.

CDC WONDER data can be obtained grouped by various information, including state, county, gender, race, ethnicity, and educational attainment. For more information, please visit the [CDC WONDER](#) website.

Methodology

Total births and infant mortality rates are 5-year averages acquired from the 2012 Health Resources and Services Administration (HRSA) Area Resource File (ARF). Total infant deaths are back-calculated based on these figures. Mortality rates represent the number of deaths to infants under age 1 per 1,000 total live births, based on the following formula:

$$\text{Rate} = [\text{Total Deaths Under Age 1}] / [\text{Total Births}] * 1,000$$

The ARF documentation states the following about the infant mortality data:

The NCHS Mortality Data were obtained from the National Center for Health Statistics Detail Mortality data files, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. The number of infant deaths for a county are based on place of residence; non residents of the US are excluded. Averages are provided rather than actual data for each year because of data use restrictions required by NCHS beginning with 1989 data.

For additional information, please review the documentation for the HRSA ARF, available for download [here](#).

Notes

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories by state departments of health based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Data reported from the CDC is available by combined race and ethnicity, and is reported here only for state and national data summaries. County level statistics by race and ethnicity are not provided for this indicator due to sample size limitations. Detailed race/ethnicity data may be available from a local source.

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when there are fewer than 10 cases in the numerator (for each county / population group combination) over the report period.

Low Birth Weight

Data Background

The Health Indicator Warehouse is the official repository of the nation's health data, providing public access to the information resources of the Centers for Disease Control and Prevention (CDC), the Environmental Protection Agency (EPA), the Health Resources and Services Administration (HRSA), and others. When applicable, data can be obtained grouped by various information, including state, county, gender, race, ethnicity, and educational attainment.

The Division of Vital Statistics is a branch of the Centers for Disease Control and Prevention (CDC) National Center for Health Statistics (NCHS) responsible for maintaining birth and death records for the nation. Data are compiled for the National Vital Statistics System (NVSS) through a joint effort between the NCHS and various state and local health agencies, who are responsible for registering vital events – births, deaths, marriages, divorces, and fetal deaths. NVSS statistics are released annually in various data warehouses, including [CDC WONDER](#), [VitalStats](#), and the [Health Indicator Warehouse](#).

Methodology

Counts for this indicator represent the annual average births over the 7-year period 2003-2009. Original data was tabulated by the CDC based on information reported on each birth certificate. Rates represent the number of births weighing less than 2,500 grams per 100 live births based on the following formula:

$$\text{Rate} = [\text{Births Weighting} < 2500\text{g}] / [\text{Total Births}] * 100$$

Data was acquired from the Health Indicators Warehouse. For more information about this source, including data inclusion requirements and subject definitions, please visit the [Health Indicator Warehouse indicator page](#) or refer to the NVSS [natality public use file documentation](#).

Notes

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories by state vital statistics registries based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. All mortality statistics from the CDC WONDER databases are available by race alone (White, Black, Amer. Indian/AK Native, and Asian) ethnicity alone (Hispanic, Non-Hispanic), or by combined race and ethnicity. Data is reported separately for race alone and for ethnicity alone in order to maintain large enough sample sizes for the inclusion of small counties in the disaggregated data tables.

Mortality - Cancer

Data Background

The Division of Vital Statistics is a branch of the Centers for Disease Control and Prevention (CDC) National Center for Health Statistics (NCHS) responsible for maintaining birth and death records for the nation. Data are compiled for the National Vital Statistics System (NVSS) through a joint effort between the NCHS and various state and local health agencies, who are responsible for registering vital events – births, deaths, marriages, divorces, and fetal deaths. NVSS statistics are released annually in various data warehouses, including [CDC WONDER](#), [VitalStats](#), and the [Health Indicator Warehouse](#).

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2. To provide the general public with access to specific and detailed information from CDC.

CDC WONDER provides:

- Access statistical research data published by CDC, as well as reference materials, reports and guidelines on health-related topics;
- The ability to query numeric datasets on CDC's computers, via "fill-in-the blank" web pages. Public-use data sets about mortality (deaths), cancer incidence, HIV and AIDS, tuberculosis, vaccinations, natality (births), census data and many other topics are available for query, and the requested data are readily summarized and analyzed, with dynamically calculated statistics, charts and maps.

CDC WONDER data can be obtained grouped by various information, including state, county, gender, race, ethnicity, and educational attainment. For more information, please visit the [CDC WONDER website](#).

Methodology

County population figures and death statistics are acquired using CDC WONDER from the Underlying Cause of Death database. Conditions were queried for years 2006-2010 based on a selection of codes from the International Classification of Diseases (ICD), Version 10. The ICD-10 is the current global health information standard for mortality and morbidity statistics. The ICD has been maintained by the World Health Organization since its conception in 1948. A searchable, detailed list of current ICD-10 Codes (Version 2010) is available from the [World Health Organization](#).

Mortality rates were acquired from the source age-adjusted to the year 2000 U.S. standard. To recalculate age-adjusted mortality rates for unique service areas and aggregated county groupings, the following formula was used:

Mortality Rate = [SUM(Total Population) * ((Age-Adjusted Rate)/100,000)] / [SUM(Total Population)] * 100,000.

The specific codes used for reported mortality indicators are listed below.

- Assault (homicide): U01-U02, X85-Y09, Y87.1
- Cerebrovascular disease (stroke): I60-I69
- Coronary (ischaemic) heart disease: I20-I25
- Chronic lower respiratory disease: J40-J47
- Heart disease: I00-I09, I11, I13, I20-I51
- Intentional self-harm (suicide): U03, X60-X84, Y87.0
- Malignant neoplasm (cancer): C00-C97
- Motor vehicle accident: V01-V79
- Unintentional injury (accident): V01-X59, Y85-Y86

Notes

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of cases is less than 10 (for each county/cause of death/population group) over the time period monitored. Rates should be considered unreliable when calculated with a numerator (number of cases) less than 20.

Trends Over Time

Trends over time are produced using single-year mortality data from the CDC WONDER query system. Use caution when comparing single-year mortality rates with 5-year aggregate mortality rates. Trend data is available for states and for the total US; county-level data is not provided due to data suppression / low numerator counts.

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories by state vital statistics registries based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. All mortality statistics from the CDC WONDER databases are available by race alone (White, Black, Amer. Indian/AK Native, and Asian) ethnicity alone (Hispanic, Non-Hispanic), or by combined race and ethnicity. Data is reported here in combination, and thus may be subject to higher suppression than if reported separately.

Mortality - Heart Disease

Data Background

The Division of Vital Statistics is a branch of the Centers for Disease Control and Prevention (CDC) National Center for Health Statistics (NCHS) responsible for maintaining birth and death records for the nation. Data are compiled for the National Vital Statistics System (NVSS) through a joint effort between the NCHS and various state and local health agencies, who are responsible for registering vital events – births, deaths, marriages, divorces, and fetal deaths. NVSS statistics are released annually in various data warehouses, including [CDC WONDER](#), [VitalStats](#), and the [Health Indicator Warehouse](#).

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- The ability to query numeric datasets on CDC's computers, via "fill-in-the blank" web pages. Public-use data sets about mortality (deaths), cancer incidence, HIV and AIDS, tuberculosis, vaccinations, natality (births), census data and many other topics are available for query, and the requested data are readily summarized and analyzed, with dynamically calculated statistics, charts and maps.

CDC WONDER data can be obtained grouped by various information, including state, county, gender, race, ethnicity, and educational attainment. For more information, please visit the [CDC WONDER](#) website.

Methodology

County population figures and death statistics are acquired using CDC WONDER from the Underlying Cause of Death database. Conditions were queried for years 2006-2010 based on a selection of codes from the International Classification of Diseases (ICD), Version 10. The ICD-10 is the current global health information standard for mortality and morbidity statistics. The ICD has been maintained by the World Health Organization since its conception in 1948. A searchable, detailed list of current ICD-10 Codes (Version 2010) is available from the [World Health Organization](#).

Mortality rates were acquired from the source age-adjusted to the year 2000 U.S. standard. To recalculate age-adjusted mortality rates for unique service areas and aggregated county groupings, the following formula was used:

Mortality Rate = [SUM(Total Population) * ((Age-Adjusted Rate)/100,000)] / [SUM(Total Population)] * 100,000.

The specific codes used for reported mortality indicators are listed below.

- Assault (homicide): U01-U02, X85-Y09, Y87.1
- Cerebrovascular disease (stroke): I60-I69
- Coronary (ischaemic) heart disease: I20-I25
- Chronic lower respiratory disease: J40-J47
- Heart disease: I00–I09, I11, I13, I20–I51
- Intentional self-harm (suicide): U03, X60-X84, Y87.0
- Malignant neoplasm (cancer): C00-C97
- Motor vehicle accident: V01-V79
- Unintentional injury (accident): V01-X59, Y85-Y86

Notes

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of cases is less than 10 (for each county/cause of death/population group) over the time period monitored. Rates should be considered unreliable when calculated with a numerator (number of cases) less than 20.

Trends Over Time

Trends over time are produced using single-year mortality data from the CDC WONDER query system. Use caution when comparing single-year mortality rates with 5-year aggregate mortality rates. Trend data is available for states and for the total US; county-level data is not provided due to data suppression / low numerator counts.

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories by state vital statistics registries based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. All mortality statistics from the CDC WONDER databases are available by race alone (White, Black, Amer. Indian/AK Native, and Asian) ethnicity alone (Hispanic, Non-Hispanic), or by combined race and ethnicity. Data is reported here in combination, and thus may be subject to higher suppression than if reported separately.

Mortality - Homicide

Data Background

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CDC WONDER data can be obtained grouped by various information, including state, county, gender, race, ethnicity, and educational attainment. For more information, please visit the [CDC WONDER](#) website.

Methodology

County population figures and death statistics are acquired using CDC WONDER from the Underlying Cause of Death database. Conditions were queried for years 2006-2010 based on a selection of codes from the International Classification of Diseases (ICD), Version 10. The ICD-10 is the current global health information standard for mortality and morbidity statistics. The ICD has been maintained by the World Health Organization since its conception in 1948. A searchable, detailed list of current ICD-10 Codes (Version 2010) is available from the [World Health Organization](#).

Mortality rates were acquired from the source age-adjusted to the year 2000 U.S. standard. To recalculate age-adjusted mortality rates for unique service areas and aggregated county groupings, the following formula was used:

Mortality Rate = [SUM(Total Population) * ((Age-Adjusted Rate)/100,000)] / [SUM(Total Population)] * 100,000.

The specific codes used for reported mortality indicators are listed below.

- Assault (homicide): U01-U02, X85-Y09, Y87.1
- Cerebrovascular disease (stroke): I60-I69
- Coronary (ischaemic) heart disease: I20-I25
- Chronic lower respiratory disease: J40-J47
- Heart disease: I00-I09, I11, I13, I20-I51
- Intentional self-harm (suicide): U03, X60-X84, Y87.0
- Malignant neoplasm (cancer): C00-C97
- Motor vehicle accident: V01-V79
- Unintentional injury (accident): V01-X59, Y85-Y86

Notes

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of cases is less than 10 (for each county/cause of death/population group) over the time

period monitored. Rates should be considered unreliable when calculated with a numerator (number of cases) less than 20.

Trends Over Time

Trends over time are produced using single-year mortality data from the CDC WONDER query system. Use caution when comparing single-year mortality rates with 5-year aggregate mortality rates. Trend data is available for states and for the total US; county-level data is not provided due to data suppression / low numerator counts.

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories by state vital statistics registries based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. All mortality statistics from the CDC WONDER databases are available by race alone (White, Black, Amer. Indian/AK Native, and Asian) ethnicity alone (Hispanic, Non-Hispanic), or by combined race and ethnicity. Data is reported here in combination, and thus may be subject to higher suppression than if reported separately.

Mortality - Ischaemic Heart Disease

Data Background

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CDC WONDER data can be obtained grouped by various information, including state, county, gender, race, ethnicity, and educational attainment. For more information, please visit the [CDC WONDER](#) website.

Methodology

County population figures and death statistics are acquired using CDC WONDER from the Underlying Cause of Death database. Conditions were queried for years 2006-2010 based on a selection of codes from the International Classification of Diseases (ICD), Version 10. The ICD-10 is the current global health information standard for mortality and morbidity statistics. The ICD has been maintained by the World Health Organization since its conception in 1948. A searchable, detailed list of current ICD-10 Codes (Version 2010) is available from the [World Health Organization](#).

Mortality rates were acquired from the source age-adjusted to the year 2000 U.S. standard. To recalculate age-adjusted mortality rates for unique service areas and aggregated county groupings, the following formula was used:

Mortality Rate = [SUM(Total Population) * ((Age-Adjusted Rate)/100,000)] / [SUM(Total Population)] * 100,000.

The specific codes used for reported mortality indicators are listed below.

- Assault (homicide): U01-U02, X85-Y09, Y87.1
- Cerebrovascular disease (stroke): I60-I69
- Coronary (ischaemic) heart disease: I20-I25
- Chronic lower respiratory disease: J40-J47
- Heart disease: I00-I09, I11, I13, I20-I51
- Intentional self-harm (suicide): U03, X60-X84, Y87.0
- Malignant neoplasm (cancer): C00-C97
- Motor vehicle accident: V01-V79
- Unintentional injury (accident): V01-X59, Y85-Y86

Notes

Data Suppression

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Trends Over Time

Trends over time are produced using single-year mortality data from the CDC WONDER query system. Use caution when comparing single-year mortality rates with 5-year aggregate mortality rates. Trend data is available for states and for the total US; county-level data is not provided due to data suppression / low numerator counts.

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories by state vital statistics registries based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. All mortality statistics from the CDC WONDER databases are available by race alone (White, Black, Amer. Indian/AK Native, and Asian) ethnicity alone (Hispanic, Non-Hispanic), or by combined race and ethnicity. Data is reported here in combination, and thus may be subject to higher suppression than if reported separately.

Mortality - Lung Disease

Data Background

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CDC WONDER data can be obtained grouped by various information, including state, county, gender, race, ethnicity, and educational attainment. For more information, please visit the [CDC WONDER](#) website.

Methodology

County population figures and death statistics are acquired using CDC WONDER from the Underlying Cause of Death database. Conditions were queried for years 2006-2010 based on a selection of codes from the International Classification of Diseases (ICD), Version 10. The ICD-10 is the current global health information standard for mortality and morbidity statistics. The ICD has been maintained by the World Health Organization since its conception in 1948. A searchable, detailed list of current ICD-10 Codes (Version 2010) is available from the [World Health Organization](#).

Mortality rates were acquired from the source age-adjusted to the year 2000 U.S. standard. To recalculate age-adjusted mortality rates for unique service areas and aggregated county groupings, the following formula was used:

Mortality Rate = [SUM(Total Population) * ((Age-Adjusted Rate)/100,000)] / [SUM(Total Population)] * 100,000.

The specific codes used for reported mortality indicators are listed below.

- Assault (homicide): U01-U02, X85-Y09, Y87.1
- Cerebrovascular disease (stroke): I60-I69
- Coronary (ischaemic) heart disease: I20-I25
- Chronic lower respiratory disease: J40-J47
- Heart disease: I00–I09, I11, I13, I20–I51
- Intentional self-harm (suicide): U03, X60-X84, Y87.0
- Malignant neoplasm (cancer): C00-C97
- Motor vehicle accident: V01-V79
- Unintentional injury (accident): V01-X59, Y85-Y86

Notes

Data Suppression

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Trends Over Time

Trends over time are produced using single-year mortality data from the CDC WONDER query system. Use caution when comparing single-year mortality rates with 5-year aggregate mortality rates. Trend data is available for states and for the total US; county-level data is not provided due to data suppression / low numerator counts.

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories by state vital statistics registries based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. All mortality statistics from the CDC WONDER databases are available by race alone (White, Black, Amer. Indian/AK Native, and Asian) ethnicity alone (Hispanic, Non-Hispanic), or by combined race and ethnicity. Data is reported here in combination, and thus may be subject to higher suppression than if reported separately.

Mortality - Motor Vehicle Accident

Data Background

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CDC WONDER data can be obtained grouped by various information, including state, county, gender, race, ethnicity, and educational attainment. For more information, please visit the [CDC WONDER](#) website.

Methodology

County population figures and death statistics are acquired using CDC WONDER from the Underlying Cause of Death database. Conditions were queried for years 2006-2010 based on a selection of codes from the International Classification of Diseases (ICD), Version 10. The ICD-10 is the current global health information standard for mortality and morbidity statistics. The ICD has been maintained by the World Health Organization since its conception in 1948. A searchable, detailed list of current ICD-10 Codes (Version 2010) is available from the [World Health Organization](#).

Mortality rates were acquired from the source age-adjusted to the year 2000 U.S. standard. To recalculate age-adjusted mortality rates for unique service areas and aggregated county groupings, the following formula was used:

Mortality Rate = [SUM(Total Population) * ((Age-Adjusted Rate)/100,000)] / [SUM(Total Population)] * 100,000.

The specific codes used for reported mortality indicators are listed below.

- Assault (homicide): U01-U02, X85-Y09, Y87.1
- Cerebrovascular disease (stroke): I60-I69
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- Chronic lower respiratory disease: J40-J47
- Heart disease: I00-I09, I11, I13, I20-I51
- Intentional self-harm (suicide): U03, X60-X84, Y87.0
- Malignant neoplasm (cancer): C00-C97
- Motor vehicle accident: V01-V79
- Unintentional injury (accident): V01-X59, Y85-Y86

Notes

Data Suppression

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period monitored. Rates should be considered unreliable when calculated with a numerator (number of cases) less than 20.

Trends Over Time

Trends over time are produced using single-year mortality data from the CDC WONDER query system. Use caution when comparing single-year mortality rates with 5-year aggregate mortality rates. Trend data is available for states and for the total US; county-level data is not provided due to data suppression / low numerator counts.

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories by state vital statistics registries based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. All mortality statistics from the CDC WONDER databases are available by race alone (White, Black, Amer. Indian/AK Native, and Asian) ethnicity alone (Hispanic, Non-Hispanic), or by combined race and ethnicity. Data is reported here in combination, and thus may be subject to higher suppression than if reported separately.

Mortality - Stroke

Data Background

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CDC WONDER data can be obtained grouped by various information, including state, county, gender, race, ethnicity, and educational attainment. For more information, please visit the [CDC WONDER](#) website.

Methodology

County population figures and death statistics are acquired using CDC WONDER from the Underlying Cause of Death database. Conditions were queried for years 2006-2010 based on a selection of codes from the International Classification of Diseases (ICD), Version 10. The ICD-10 is the current global health information standard for mortality and morbidity statistics. The ICD has been maintained by the World Health Organization since its conception in 1948. A searchable, detailed list of current ICD-10 Codes (Version 2010) is available from the [World Health Organization](#).

Mortality rates were acquired from the source age-adjusted to the year 2000 U.S. standard. To recalculate age-adjusted mortality rates for unique service areas and aggregated county groupings, the following formula was used:

Mortality Rate = [SUM(Total Population) * ((Age-Adjusted Rate)/100,000)] / [SUM(Total Population)] * 100,000.

The specific codes used for reported mortality indicators are listed below.

- Assault (homicide): U01-U02, X85-Y09, Y87.1
- Cerebrovascular disease (stroke): I60-I69
- Coronary (ischaemic) heart disease: I20-I25
- Chronic lower respiratory disease: J40-J47
- Heart disease: I00-I09, I11, I13, I20-I51
- Intentional self-harm (suicide): U03, X60-X84, Y87.0
- Malignant neoplasm (cancer): C00-C97
- Motor vehicle accident: V01-V79
- Unintentional injury (accident): V01-X59, Y85-Y86

Notes

Data Suppression

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Trends Over Time

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Race and Ethnicity

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Mortality - Suicide

Data Background

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2. To provide the general public with access to specific and detailed information from CDC.

CDC WONDER provides:

- Access statistical research data published by CDC, as well as reference materials, reports and guidelines on health-related topics;
- The ability to query numeric datasets on CDC's computers, via "fill-in-the blank" web pages. Public-use data sets about mortality (deaths), cancer incidence, HIV and AIDS, tuberculosis, vaccinations, natality (births), census data and many other topics are available for query, and the requested data are readily summarized and analyzed, with dynamically calculated statistics, charts and maps.

CDC WONDER data can be obtained grouped by various information, including state, county, gender, race, ethnicity, and educational attainment. For more information, please visit the [CDC WONDER](#) website.

Methodology

County population figures and death statistics are acquired using CDC WONDER from the Underlying Cause of Death database. Conditions were queried for years 2006-2010 based on a selection of codes from the International Classification of Diseases (ICD), Version 10. The ICD-10 is the current global health information standard for mortality and morbidity statistics. The ICD has been maintained by the World Health Organization since its conception in 1948. A searchable, detailed list of current ICD-10 Codes (Version 2010) is available from the [World Health Organization](#).

Mortality rates were acquired from the source age-adjusted to the year 2000 U.S. standard. To recalculate age-adjusted mortality rates for unique service areas and aggregated county groupings, the following formula was used:

Mortality Rate = [SUM(Total Population) * ((Age-Adjusted Rate)/100,000)] / [SUM(Total Population)] * 100,000.

The specific codes used for reported mortality indicators are listed below.

- Assault (homicide): U01-U02, X85-Y09, Y87.1
- Cerebrovascular disease (stroke): I60-I69
- Coronary (ischaemic) heart disease: I20-I25
- Chronic lower respiratory disease: J40-J47
- Heart disease: I00–I09, I11, I13, I20–I51
- Intentional self-harm (suicide): U03, X60-X84, Y87.0
- Malignant neoplasm (cancer): C00-C97
- Motor vehicle accident: V01-V79
- Unintentional injury (accident): V01-X59, Y85-Y86

Notes

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of cases is less than 10 (for each county/cause of death/population group) over the time period monitored. Rates should be considered unreliable when calculated with a numerator (number of cases) less than 20.

Trends Over Time

Trends over time are produced using single-year mortality data from the CDC WONDER query system. Use caution when comparing single-year mortality rates with 5-year aggregate mortality rates. Trend data is available for states and for the total US; county-level data is not provided due to data suppression / low numerator counts.

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories by state vital statistics registries based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. All mortality statistics from the CDC WONDER databases are available by race alone (White, Black, Amer. Indian/AK Native, and Asian) ethnicity alone (Hispanic, Non-Hispanic), or by combined race and ethnicity. Data is reported here in combination, and thus may be subject to higher suppression than if reported separately.

Mortality - Unintentional Injury

Data Background

The Division of Vital Statistics is a branch of the Centers for Disease Control and Prevention (CDC) National Center for Health Statistics (NCHS) responsible for maintaining birth and death records for the nation. Data are compiled for the National Vital Statistics System (NVSS) through a joint effort between the NCHS and various state and local health agencies, who are responsible for registering vital events – births, deaths, marriages, divorces, and fetal deaths. NVSS statistics are released annually in various data warehouses, including [CDC WONDER](#), [VitalStats](#), and the [Health Indicator Warehouse](#).

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Mortality rates were acquired from the source age-adjusted to the year 2000 U.S. standard. To recalculate age-adjusted mortality rates for unique service areas and aggregated county groupings, the following formula was used:

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- Unintentional injury (accident): V01-X59, Y85-Y86

Notes

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Obesity

Data Background

The Centers for Disease Control and Prevention's National Center for Chronic Disease Prevention and Health Promotion monitors the health of the Nation and produces publically available data to promote general health. The division maintains the Diabetes Data and Trends data system, which includes the National Diabetes Fact Sheet and the National Diabetes Surveillance System. These programs provide resources documenting the public health burden of diabetes and its complications in the United States. The surveillance system also includes county-level estimates of diagnosed diabetes and selected risk factors for all U.S. counties to help target and optimize the resources for diabetes control and prevention.

Citation: [Centers for Disease Control and Prevention, Diabetes Data & Trends: Frequently Asked Questions \(FAQ\). \(2012\).](#)

Methodology

Data for total population and estimated obese population data are acquired from the County Level Estimates of Diagnosed Diabetes, a service of the Centers for Disease Control and Prevention's National Diabetes Surveillance Program. Diabetes and other risk factor prevalence is estimated using the following formula:

$$\text{Percent Prevalence} = [\text{Risk Factor Population}] / [\text{Total Population}] * 100.$$

All data are estimates modeled by the CDC using the methods described below:

The National Diabetes Surveillance system produces data estimating the prevalence of diagnosed diabetes and population obesity by county using data from [CDC's Behavioral Risk Factor Surveillance System](#) (BRFSS) and data from the [U.S. Census Bureau's Population Estimates Program](#). The BRFSS is an ongoing, monthly, state-based telephone survey of the adult population. The survey provides state-specific information on behavioral risk factors and preventive health practices. Respondents were considered to have diabetes if they responded "yes" to the question, "Has a doctor ever told you that you have diabetes?" Women who indicated that they only had diabetes during pregnancy were not considered to have diabetes. Respondents were considered obese if their body mass index was 30 or greater. Body mass index (weight [kg]/height [m]²) was derived from self-report of

height and weight. Respondents were considered to be physically inactive if they answered "no" to the question, "During the past month, other than your regular job, did you participate in any physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise?"

Three years of data were used to improve the precision of the year-specific county-level estimates of diagnosed diabetes and selected risk factors. For example, 2003, 2004, and 2005 were used for the 2004 estimate and 2004, 2005, and 2006 were used for the 2005 estimate. Estimates were restricted to adults 20 years of age or older to be consistent with population estimates from the U.S. Census Bureau. The U.S. Census Bureau provides year-specific county population estimates by demographic characteristics—age, sex, race, and Hispanic origin. .

The county-level estimates were based on indirect model-dependent estimates. The model-dependent approach employs a statistical model that “borrows strength” in making an estimate for one county from BRFSS data collected in other counties. Bayesian multilevel modeling techniques were used to obtain these estimates. Separate models were developed for each of the four census regions: West, Midwest, Northeast and South. Multilevel Poisson regression models with random effects of demographic variables (age 20–44, 45–64, 65 ; race; sex) at the county-level were developed. State was included as a county-level covariate.

Citation: [Centers for Disease Control and Prevention, Diabetes Data & Trends: Frequently Asked Questions \(FAQ\). \(2012\).](#)

Rates were age adjusted by the CDC for the following three age groups: 20-44, 45-64, 65 . Additional information, including the complete methodology and data definitions, can be found at the CDC's [Diabetes Data and Trends](#) website.

Notes

Race and Ethnicity

Statistics by race and ethnicity are not provided for this indicator from the data source. Detailed race/ethnicity data may be available at a broader geographic level, or from a local source.

Overweight

Data Background

The Behavioral Risk Factor Surveillance System (BRFSS) is

“... a collaborative project of the Centers for Disease Control and Prevention (CDC) and U.S. states and territories. The BRFSS, administered and supported by CDC's Behavioral Risk Factor Surveillance Branch, is an ongoing data collection program designed to measure behavioral risk factors for the adult population (18 years of age or older) living in households. ”

Citation: Centers for Disease Control and Prevention, Office of Surveillance, Epidemiology, and Laboratory Services. [Overview: BRFSS 2010.](#)

The health characteristics estimated from the BRFSS include data pertaining to health behaviors, chronic conditions, access and utilization of healthcare, and general health. Surveys are administered to populations at the state level and then delivered to the CDC. BRFSS annual survey data are publically available and maintained on the CDC's BRFSS [Annual Survey Data](#) web page.

For more information on the BRFSS survey methods, or to obtain a copy of the survey questionnaires, please visit [the Behavioral Risk Factor Surveillance System](#) home page.

Methodology

Indicator percentages are acquired from analysis of annual survey data from the Behavioral Risk Factor Surveillance System (BRFSS) for years 2011-2012. Percentages are generated based on valid responses to the following questions:

"About how much do you weigh without shoes?" and "About how tall are you without shoes?"

These responses were combined to determine a respondent's Body Mass Index (BMI). BMI is calculated as weight in kilograms divided by height in meters squared. Persons with a BMI from 25.0-29.9 are considered overweight.

Data only pertain to the non-institutionalized population aged 18 and up and are weighted to reflect the total county population using the methods described in the BRFSS Comparability of Data documentation.

Additional detailed information about the BRFSS, including questionnaires, data collection procedures, and [data processing methodologies](#) are available on the Behavioral Risk Factor Surveillance System home page.

Notes

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of persons sampled (for each geographic area / population group combination) over the survey period is less than 20. Data are unreliable when the total number of persons sampled over the survey period is less than 50. Confidence intervals are available when exploring the data through the map viewer.

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories in the Behavioral Risk Factor Surveillance System (BRFSS) interview surveys based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Before the raw survey data files are released, self-identified race and ethnicity variables are recoded by National Center for Health Statistics (NCHS) analysts into the following categories: White, Non-Hispanic; Black, Non-Hispanic; Multiple Race, Non-Hispanic; Other Race, Non-Hispanic; and Hispanic or Latino. Due to sample size constraints, race and ethnicity statistics are only reported at the state and national levels.

Poor Dental Health

Data Background

The Behavioral Risk Factor Surveillance System (BRFSS) is

“... a collaborative project of the Centers for Disease Control and Prevention (CDC) and U.S. states and territories. The BRFSS, administered and supported by CDC's Behavioral Risk Factor Surveillance Branch, is an ongoing data collection program designed to measure behavioral risk factors for the adult population (18 years of age or older) living in households.”

Citation: Centers for Disease Control and Prevention, Office of Surveillance, Epidemiology, and Laboratory Services. [Overview: BRFSS 2010](#).

The health characteristics estimated from the BRFSS include data pertaining to health behaviors, chronic conditions, access and utilization of healthcare, and general health. Surveys are administered to populations at the state level and then delivered to the CDC. BRFSS annual survey data are publically available and maintained on the CDC's BRFSS [Annual Survey Data](#) web page.

For more information on the BRFSS survey methods, or to obtain a copy of the survey questionnaires, please visit [the Behavioral Risk Factor Surveillance System](#) home page.

Methodology

Indicator percentages are acquired from analysis of annual survey data from the Behavioral Risk Factor Surveillance System (BRFSS) for years 2006-2010. Percentages are generated based on valid responses to the following questions:

>" How many of your permanent teeth have been removed because of tooth decay or gum disease? Include teeth lost to infection, but do not include teeth lost for other reasons, such as injury or orthodontics. (If wisdom teeth are removed because of tooth decay or gum disease, they should be included in the count for lost teeth)."

This indicator represents the percentage of respondents who indicated that they had 6 or more, including all of their permanent teeth extracted. Data only pertain to the non-institutionalized population aged 18 and up and are weighted to reflect the total county population, including non-respondents, using the methods described in the BRFSS Comparability of Data documentation. Population numerators (estimated number of adults exercising each risk behavior) are not provided in the annual survey data and were generated for the data tables using the following formula:

$$\text{Adults Poor Dental Health} = ([\text{Indicator Percentage}] / 100) * [\text{Total Population}] .$$

The population figures used for these estimates are acquired from the American Community Survey (ACS) 2006-2010 five year estimates.

Additional detailed information about the BRFSS, including questionnaires, data collection procedures, and [data processing methodologies](#) are available on the BRFSS web site.

Notes

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of persons sampled (for each geographic area / population group combination) over the survey period is less than 20. Data are unreliable when the total number of persons sampled over the survey period is less than 50. Confidence intervals are available when exploring the data through the map viewer.

Race and Ethnicity

Race and ethnicity (Hispanic origin) are collected as two separate categories in the Behavioral Risk Factor Surveillance System (BRFSS) interview surveys based on methods established by the U.S. Office of Management and Budget (OMB) in 1997. Before the raw survey data files are released, self-identified

race and ethnicity variables are recoded by National Center for Health Statistics (NCHS) analysts into the following categories: White, Non-Hispanic; Black, Non-Hispanic; Multiple Race, Non-Hispanic; Other Race, Non-Hispanic; and Hispanic or Latino. Due to sample size constraints, race and ethnicity statistics are only reported at the state and national levels.

Poor General Health

Data Background

The Behavioral Risk Factor Surveillance System (BRFSS) is

“... a collaborative project of the Centers for Disease Control and Prevention (CDC) and U.S. states and territories. The BRFSS, administered and supported by CDC's Behavioral Risk Factor Surveillance Branch, is an ongoing data collection program designed to measure behavioral risk factors for the adult population (18 years of age or older) living in households.”

Citation: Centers for Disease Control and Prevention, Office of Surveillance, Epidemiology, and Laboratory Services. [Overview: BRFSS 2010](#).

The health characteristics estimated from the BRFSS include data pertaining to health behaviors, chronic conditions, access and utilization of healthcare, and general health. Surveys are administered to populations at the state level and then delivered to the CDC and tabulated into county estimates by the BRFSS analysis team. Annual risk factor prevalence data are released for those geographic areas with 50 or more survey results and 10,000 or more total population (50 States, 170 Cities and Counties) in order to maintain the accuracy and confidentiality of the data. Multi-year estimates are produced by the NCHS to expand the coverage of data to approximately 2500 counties. These estimates are housed in the [Health Indicator Warehouse](#), the official repository of the nation's health data.

For more information on the BRFSS survey methods, or to obtain a copy of the survey questionnaires, please visit [the Behavioral Risk Factor Surveillance System](#) home page.

Methodology

Indicator percentages are acquired for years 2006-2012 from Behavioral Risk Factor Surveillance System (BRFSS) prevalence data, which is housed in the Health Indicator Warehouse. Percentages are generated based on the valid responses to the following questions:

"Would you say that in general your health is - Excellent, Very Good, Good, Fair, or Poor?"

Respondents that indicated they had poor overall health are included in the count. Percentages are age-adjusted and only pertain to the non-institutionalized population over age 18. Population numerators (number of adults) are not provided in the Health Indicator Warehouse data tables and were generated using the following formula:

$$\mathbf{[Persons\ with\ Poor\ Health] = ([Indicator\ Percentage] / 100) * [Total\ Population] .}$$

Adult population figures used in the data tables are acquired from the American Community Survey (ACS) 2007-2011 five year estimates. Additional detailed information about the BRFSS, including questionnaires, data collection procedures, and [data processing methodologies](#) are available on the BRFSS web site. For additional information about the multi-year estimates, please visit the [Health Indicator Warehouse](#).

Notes

Race and Ethnicity

Statistics by race and ethnicity are not provided for this indicator from the data source. Detailed race/ethnicity data may be available at a broader geographic level, or from a local source.

Data Suppression

Suppression is used to avoid misinterpretation when rates are unstable. Data is suppressed when the total number of persons sampled (for each geographic area / population group combination) over the survey period is less than 50, or when the standard error of the estimate exceeds 10% of the calculated value.

End of Report

