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Georgia Department of Public Health
Statewide Health Assessment
DRAFT March 2016

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5 **Acknowledgements**

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8 **Table of Contents**

9 Acknowledgements..... 2

10 Purpose..... 5

11 Introduction..... 7

12 Georgia Demographics 9

13 PART 1 16

14 Selected Measures of Health Status Georgia, 2015 17

15 Leading Causes of Premature Morbidity and Mortality Among Georgians: Overview 17

16 Maternal and Child Health..... 19

17 Maternal Mortality 20

18 Infant Mortality 22

19 Children and Youth with Special Health Care Needs 24

20 Oral Health..... 26

21 Chronic Disease 28

22 Cancer Incidence, All Sites..... 28

23 Lung & Bronchus Cancer Incidence, Males 30

24 Lung & Bronchus Cancer Incidence, Females..... 32

25 Colorectal Cancer Incidence, Males 34

26 Colorectal Cancer Incidence, Females..... 37

27 Melanoma Incidence, Males 41

28 Prostate Cancer Incidence, Males 45

29 Cervical Cancer Incidence, Females 50

30 Asthma 55

31 Alzheimers and Related Dementia..... 59

32 Cardiovascular Disease..... 62

33 Stroke Hospitalization..... 64

34 Diabetes 66

35 Chronic Disease Risk Factors 68

36 Obesity 69

37 Physical Activity 71

38 Infectious Disease: Pneumococcal Disease Death..... 75

39 Infectious Disease: Pneumonia and Influenza-Related Deaths..... 77

40 Infectious Disease: Influenza Hospitalizations 79

41 Infectious Disease: Adult Immunization for Pneumococcal Disease 81

42 Infectious Disease: Adult Immunization for Seasonal Influenza..... 82

43 Immunizations..... 83

44 Sexual Transmitted Disease 85

45 Chlamydia 86

46 Syphilis 88

47 Gonorrhea 90

48 HIV Prevention Program 92

49 Environmental Health 94

50 Lead Poisoning Prevention 94

51 Arboviral Disease Surveillance in Georgia..... 96

52 Food Service Program..... 98

53 Onsite Sewage Management System Program 100

54 Tourist Accommodation Program..... 103

55 Sleep-Related Infant Death 110

56 Older Adult Falls Prevention Source: OASIS, DPH..... 112

57 Access to Care in Georgia..... 116

58

59

60 Appendix A – Georgia Public Health District Map

61 Appendix B – Public Health System Survey

62 Appendix C - Georgia Southern University Focus Group Report

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64 **Purpose**

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66 The Georgia Statewide Health Assessment will provide a foundation for efforts to improve the
67 health of Georgia’s population. The statewide health assessment provides the general public and
68 policy leaders with information on the health of the population and the broad range of factors
69 that impact health. This information will be instrumental in setting priorities, planning, program
70 development, funding applications, policy changes, coordination of resources, and new ways to
71 collaboratively use state assets to improve the health of the population.

72 **Process**

73

74 The Georgia Department of Public Health (DPH) used a modified Mobilizing Action through
75 Planning and Partnership (MAPP) assessment strategy to develop the Georgia Statewide Health
76 Assessment. DPH conducted four MAPP assessments. Each MAPP assessment contributed
77 important information in the development of the Georgia Statewide Health Assessment.

78

79 Statewide Health Status Assessment: DPH utilizes DPH Online Analytical Statistical
80 Information System (OASIS) <https://oasis.state.ga.us>, a web-based tool that allows access to
81 publicly available health data and statistics for the state of Georgia. OASIS contains both
82 primary and secondary data from a variety of sources. Selected Measures of Health Status for
83 2015 were identified by a diverse group of public health professionals.

84

85 State Public Health System Assessment: DPH utilized the National Public Health Performance
86 Standards Program (NPHPSP) Local Public Health System Assessment (LPHS) as a guide for
87 developing a DPH Public Health System Survey. The survey assessed DPH’s activities related to
88 providing the 10 Essential Public Health Services (EPHS). These include:

- 89 1. Monitor health status to identify and solve community health problems.
- 90 2. Diagnose and investigate health problems and health hazards in the community.
- 91 3. Inform, educate, and empower people about health issues.
- 92 4. Mobilize community partnerships and action to identify and solve health problems.
- 93 5. Develop policies and plans that support individual and community health efforts.
- 94 6. Enforce laws and regulations that protect health and ensure safety.
- 95 7. Link people to needed personal health services and assure the provision of health care
96 when otherwise unavailable.
- 97 8. Assure competent public and personal health care workforce.
- 98 9. Evaluate effectiveness, accessibility, and quality of personal and population-based health
99 services.
- 100 10. Research for new insights and innovative solutions to health problems.

101

102 The survey was intended to help the DPH gain an understanding of its performance by
103 identifying strengths and opportunities for improvement.

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Community Themes and Strengths Assessment: DPH held five regional focus group sessions with public health partners across the state. The sessions were facilitated by Georgia Southern University Jiann-Ping Hsu College of Public Health, to gain feedback on health data, identify priority health issues, and identify available assets and resources. DPH subject matter experts presented the Selected Measures of Health Status 2015 to the focus groups. Participants were asked to provide feedback on important health issues in their area, what actions should DPH take to address these health issues, and what assets are available to assist DPH in addressing these health issues.

Forces of Change Assessment: DPH, in conjunction with the University of Georgia School of Public Health Outreach Center, held a session on future issues facing public health at the UGA State of Public Health conference on October 6, 2015. This conference was attended by a diverse group of public health professionals. This group identified a series of issues ranging from limitations of salary structure for public health professionals in Georgia to national forces, such as a shift to value-based healthcare reimbursement models.

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121 Introduction

122

123 Health is defined by the World Health Organization as a state of complete physical, mental and
124 social well-being, and not merely the absence of disease or infirmity.¹ A person and a
125 community's or population's health are determined by many factors, including individual
126 behavior, health care, genetics, and the social and physical environment. This means that the
127 health of the people of the State of Georgia—both the current status and past status—is not the
128 result of any single factor, but rather is the result of a complex series of relationships between
129 behavior, environment, and health care.

130

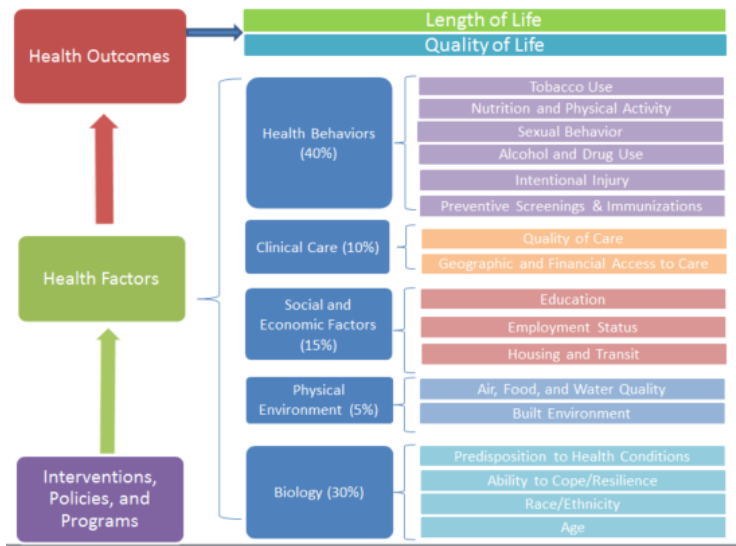
131 Although health care is often thought of as the most important factor influencing health, a
132 widely-used epidemiologic study suggests that it is in fact responsible for only about 10% of
133 health status.¹ Biology, genetics, and race influence which health conditions a person is
134 predisposed to, and ability to cope and resilience to threats to health account for about 30%% of
135 health outcomes. The remaining 60% of health is attributable to the social and physical
136 environment in which a person lives. Health behaviors—alcohol, tobacco and other drug use,
137 nutrition, physical activity, and receipt of preventive screenings— account for about 40%. And,
138 social and economic factors like education, employment, housing and transportation factors
139 account for about 15% of health outcomes. And, the physical environment including air, water,
140 and food quality as well as the built environment are responsible for the remaining 5% of health
141 outcomes.

142

143 To explain this relationship between health factors and to demonstrate opportunities to improve
144 population health outcomes, the Georgia Department of Public Health adopted a model that
145 incorporates these factors that influence length and quality of life (Figure 1).

146

¹ Preamble to the Constitution of the World Health Organization as adopted by the International Health Conference, New York, 19-22 June, 1946; signed on 22 July 1946 by the representatives of 61 States (Official Records of the World Health Organization, no. 2, p. 100) and entered into force on 7 April 1948.



147
148

149 Figure 1. Georgia Population Health Outcome Model

150

151 This document, Georgia’s Statewide Health Assessment, is a high-level summary of the health
 152 status of Georgia. It contains two parts. In Part 1, indicators reflecting all parts of this model are
 153 listed. These indicators were selected with input from a wide range of internal and external
 154 public health professionals and the public to serve as a representative set of data points and
 155 trends to provide insight into the health status of Georgia. Topics covered in this health
 156 assessment include chronic disease, intentional and unintentional injury, maternal and child
 157 health, environmental health, and mental health and drug abuse. The indicators also reflect health
 158 disparities, where applicable.

159

160 Part 2 describes the context for these indicators and supports use of the indicators for planning
 161 purposes by describing an assessment of the public health system assets in Georgia. Georgia’s
 162 public health system consists of 159 county health departments and county boards of health
 163 divided into 18 health districts along with a state office. The system also comprises innumerable
 164 partners from the following sectors—health care; education, private employers, insurers,
 165 agriculture, information technology, and local, state and federal government.

166

167 **Georgia Demographics**

168 Since 1994, Georgia's total population has increased, as has each race group and Hispanic
169 ethnicity. In 2013 Georgia was 62.5% white, 31.4% black or African-American, 3.7% Asian,
170 0.5% American Indian or Alaska Native, 1.9% Multi-racial, and 9.2% Hispanic (Hispanic can be
171 of any race).

172
173 A population pyramid graphically displays a population's age and sex composition. Horizontal
174 bars present the numbers of males and females in each age group. The sum of all the age-sex
175 groups in the Total population pyramid equals 100% of the population.

176
177 Each year a new cohort is born and appears at the bottom of the pyramid, while the cohorts
178 above it move up. As the cohorts age, they inevitably lose members because of death and may
179 gain or lose members because of migration. Such pyramids can tell a great deal about a
180 population at a glance. Populations differ as a result of past and current patterns of fertility,
181 mortality, and migration.

182
183 The general profile of Georgia's population pyramid is one of slow growth. A rapid growth
184 profile would have a much larger base showing people in younger ages, and a zero or decreasing
185 growth profile would show roughly equal numbers of people in all age ranges, tapering off
186 gradually at the older ages. Compared to the pyramid of 1994, Georgia now has proportionally
187 less people in working ages, and a higher age dependency ratio (number of people in working
188 ages compared to those either very young or very old).

189

Demographic population totals 2010	
Total population in Georgia	
Total Population:	9,687,653
Male Population:	4,729,171
Female Population:	4,958,482

190 US Census Bureau 2010

Population by Races 2010

Race	Population	% of Total
Total Population	9,687,653	100
White	5,787,440	59
Black or African American	2,950,435	30
Hispanic or Latino	853,689	8
Some Other Race	388,872	4
Asian	314,467	3
Two or More Races	207,489	2
American Indian	32,151	Below 1%
Three or more races	15,920	Below 1%
Native Hawaiian Pacific Islander	6,799	Below 1%
Native Hawaiian	1,319	Below 1%
Alaska Native tribes	220	Below 1%

191 US Census Bureau 2010

192

193

Demographic median age by sex 2010

Median age in Georgia	
Both sexes	35
Male	34
Female	36

194 US Census Bureau 2010

Demographic household type 2010

Number of occupied homes in Georgia	
Total:	3,585,584
Family led homes:	2,457,810
Husband-wife family:	1,714,573
Other family:	743,237
Population of male led with no wife present:	175,090
Population female led with no husband present:	568,147
Population of Nonfamily homes:	1,127,774
Population living alone:	909,474
Population not living alone:	218,300

195 US Census Bureau 2010

Demographic population in families by age 2010

Population in families living in Georgia	
Total Population:	7,781,104
Population Under 18 years:	2,443,455
Population 18 years and over:	5,337,649

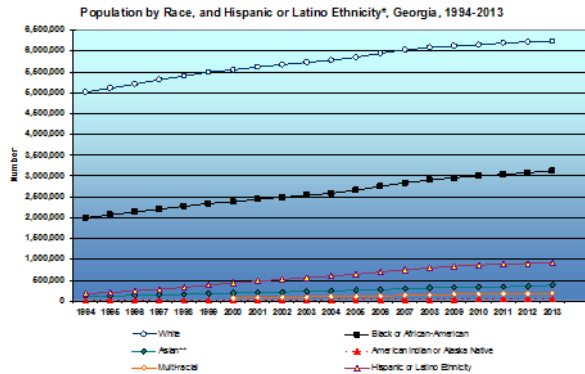
196 US Census Bureau 2010

Demographic population of homes with people 60 year olds and over 2010

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Households in Georgia containing people over 60	
Total Population:	3,585,584
Population of homes with one or more people 60 years and over:	1,082,432
1-person household:	356,560
2-or-more-person household:	725,872
Family households:	693,351
Nonfamily households:	32,521
Population of homes with no people 60 years and over:	2,503,152
1-person household:	552,914
2-or-more-person household:	1,950,238
Family homes:	1,764,459
Nonfamily homes:	185,779

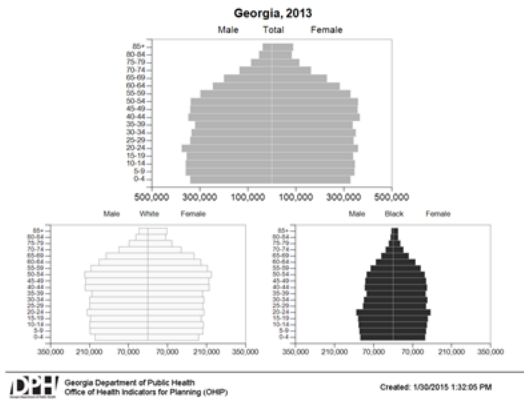
197 US Census Bureau 2010
 198
 199



*Includes non-Hispanic or Latino.
 **Asian includes Native Hawaiian and Other Pacific Islander. Not comparable across all years.
 Source: US Census Bureau, "Annual Demographic Statistics of the States" (2013) Georgia Department of Public Health, Office of Health Statistics and Planning (OHS), 2013 (<http://www.dhs.gov>)

200
 201 *Figure 2*

Number of Population by Age, Total, White and Black or African-American



202
203 *Figure 3*



Figure 4



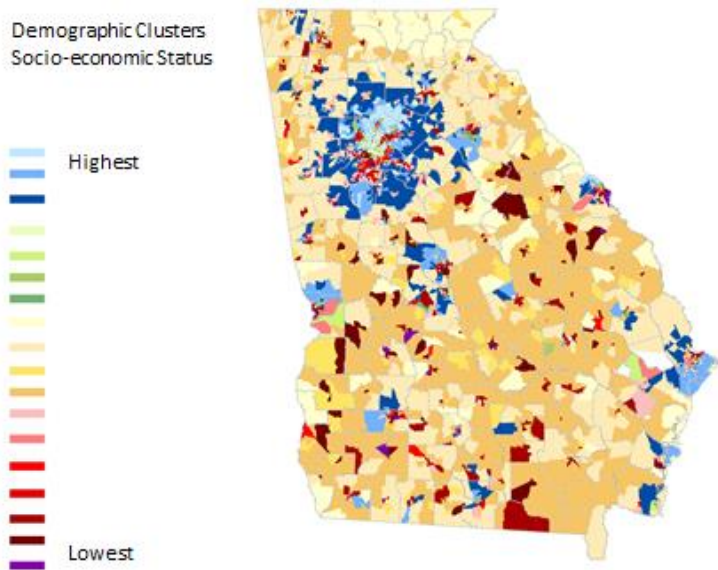
Figure 5

204
205 Within Georgia's 159 counties, there is a great deal of variation in population structure and
206 socioeconomic status. Figure 2 shows 18 distinct demographic clusters as aggregations of census
207 block groups (sub-county geographic units).

208
209 Demographic clusters were created from 25 variables relating to age, income, family structure,
210 housing value and type, education attainment and employment type. The census block groups
211 were first classed into four major groups, which were further partitioned into a total of eighteen
212 distinct demographic clusters.

213

214 The legend is arranged by the derived socioeconomic status, from “higher” to “lower”, within the
 215 four major groups and their respective demographic clusters. As expected, the highest
 216 socioeconomic clusters are in the suburbs of metro Atlanta.



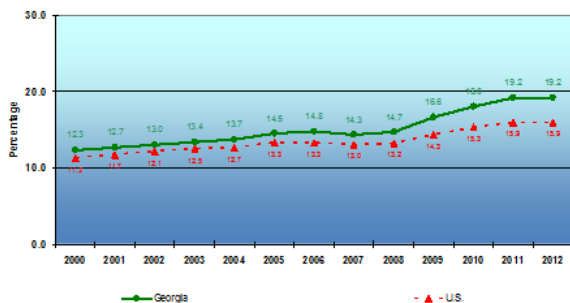
217
 218 *Figure 6*

219
 220 Regarding lower socioeconomic groups, Georgia’s trend in poverty rates have outpaced the U.S
 221 during 2000 to 2012. Moreover, increases in poverty are disproportionately found in children
 222 less than five years of age during 2000 to 2012. Concomitantly, unemployment rates in Georgia
 223 have outpaced the U.S.

224
 225 These socio-demographic facts and trends both influence and reflect Georgia’s health status and
 226 need for public health services. Several key health outcomes and related behaviors are discussed
 227 in the following sections.

228

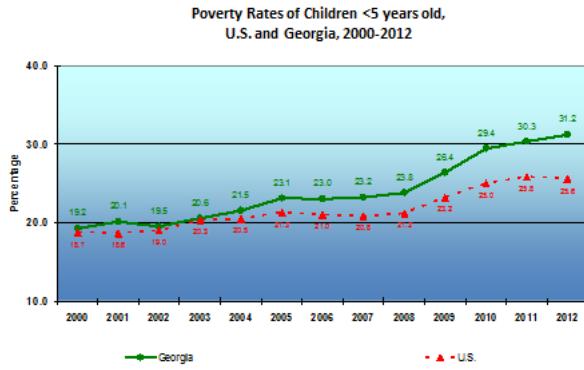
Poverty Rates, U.S. and Georgia, 2000-2012



229

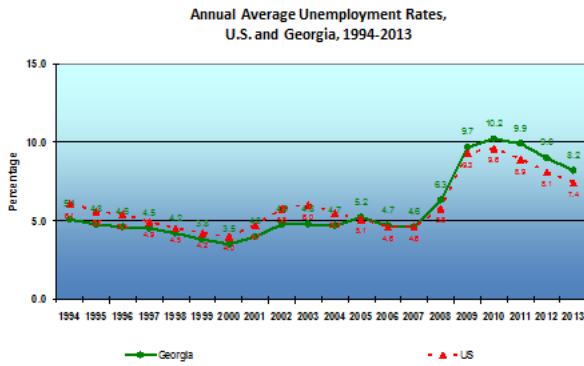
Source: U.S. Census Bureau, Current Population Reports, 2014, <https://nces.ed.gov/ipeds/data/ipedsreports/2014/>

230 *Figure 7*



231 Source: U.S. Census Bureau, Annual Survey of Families and Housing, 2012. <http://nces.ed.gov/ipeds/data/2012/>

232 *Figure 8*



Source: Bureau of Labor Statistics, <http://www.bls.gov/news.release/>

233 *Figure 9*

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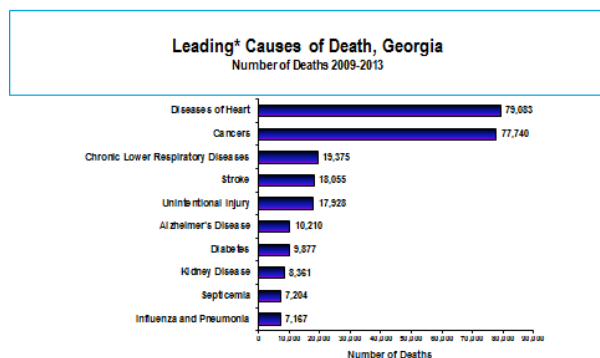
244 **Selected Measures of Health Status Georgia, 2015**

245 **Leading Causes of Premature Morbidity and Mortality Among Georgians: Overview**

246
247 The 10 leading overall causes of morbidity and mortality in Georgia over the five-year time
248 period from 2009-2013 were heart disease, cancer, chronic lower respiratory diseases, stroke,
249 unintentional injury, Alzheimer’s disease, diabetes, kidney disease, septicemia, and influenza
250 and pneumonia (Figure 10). However, when we look at causes of early death, as measured by
251 years of premature life lost before age 75, the list of leading causes looks different in some
252 important ways. The leading causes of premature life lost in Georgia over the five-year time
253 period from 2009-2013 were cancers, heart disease, unintentional injury, perinatal period
254 conditions, suicide, homicide, stroke, chronic lower respiratory diseases, diabetes, and birth
255 defects (Figure 11).

256
257 While chronic diseases remain prominent on both the all causes and leading causes lists,
258 perinatal period conditions such as infant and maternal mortality, unintentional injuries such as
259 from motor vehicle crashes, and intentional injuries such as death by suicide and homicide
260 appear as significant causes of early death among Georgians. Among those premature deaths
261 taken together, the underlying causes responsible for approximately 70% of the potential years of
262 life lost are tobacco, poor diet and physical inactivity. Infectious disease and alcohol are
263 responsible for another nearly 15 %. Firearms, toxic agents, illicit drug use, and sexual behavior
264 account for the remaining years of potential life lost (Figure 12). Causes of early death are the
265 areas where public health has the greatest opportunity to intervene through prevention,
266 promotion, and protection measures.

267



* Cause categories are the National Center for Health Statistics (NCHS) reportable causes of death as applied to Georgia.
Source: Georgia Department of Public Health, Office of Health Statistics (OHS), Cause of Death Data (http://ohs.dph.ga.gov)



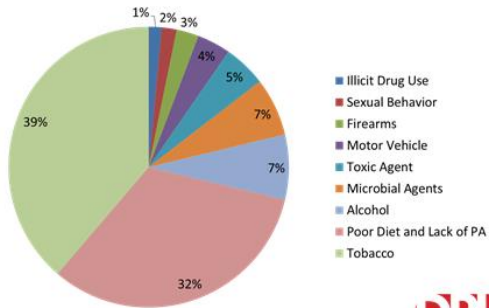
268

269 *Figure 10*

270

271

Leading Contributors to Premature Death, Georgia



Source: Georgia Department of Public Health, *Leading Causes of Death, 2018* - Revision methodology in Page 4 and 102.

Figure 11

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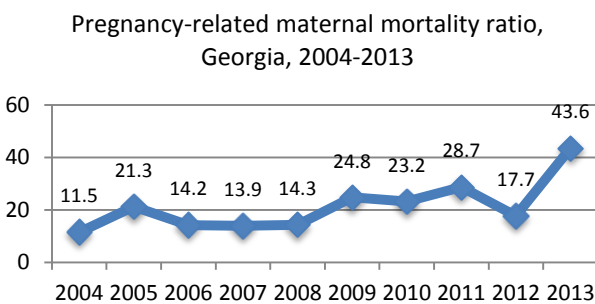
278 **Maternal Mortality**

279
280 The maternal mortality ratio increased from 11.5 (n=16) in 2004 to 43.6 (n=56) in 2013. These
281 deaths were identified by the cause of death on the death certificate, which can underestimate the
282 true prevalence of maternal deaths. Georgia recently implemented a Maternal Mortality Review
283 Committee that thoroughly reviews vital records to identify maternal deaths. The committee
284 identified 25 pregnancy-related and 60 pregnancy-associated deaths in 2012. Of the deaths that
285 were related to pregnancy, 17 of the women were Black, 6 were White and 1 was Hispanic. The
286 deaths occurred at a higher percentage among women with a high school diploma or less.

287
288 Between 2009 and 2011, approximately half (48.5%) of the Georgia women entering pregnancy
289 were overweight/obese. The percentage was highest among Non-Hispanic Blacks (58.0%) and
290 lowest among Non-Hispanic Whites and others (42.0% and 37.7%). As maternal age increased,
291 so did the percent of women entering into pregnancy obese. Only 46.1% of women with more
292 than a high school education were obese entering into pregnancy, compared with 52.3% of
293 women with less than a high school diploma.

294

295 TREND OVER TIME



296

297 *Figure 12*

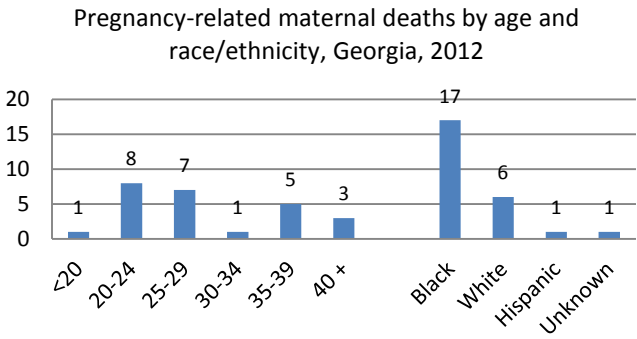
298 Source: OASIS state.ga.us

299

300

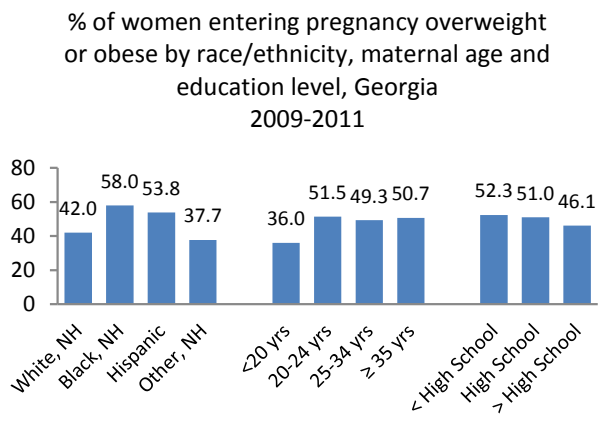
301

302 DEMOGRAPHIC/EQUITY



303
 304 *Figure 13*
 305 Source: Maternal Mortality Review Committee 2012
 306

307 **BEHAVIORS**



308
 309 *Figure 14*
 310 Source: PRAMS 2009-2011
 311

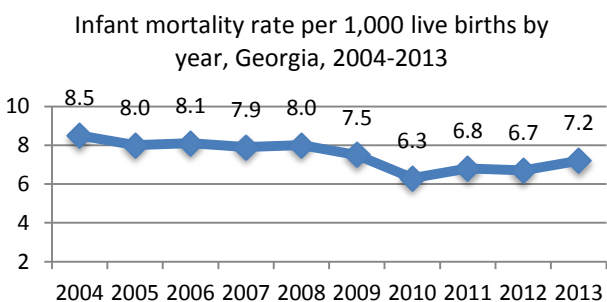
312 **Infant Mortality**

313
314 Georgia’s infant mortality rate declined from 2008 to 2010 by more than 25%. From 2010 to
315 2013, the infant mortality rate increased from 6.3 to 7.2. The Healthy People 2020 objective for
316 the infant mortality rate is 6.0

317
318 The infant mortality rate is twice as high among non-Hispanic Blacks (11.2) compared to non-
319 Hispanic Whites (5.5). Both non-Hispanic Whites and Hispanics exceeded the Healthy People
320 2020 objective in 2013.

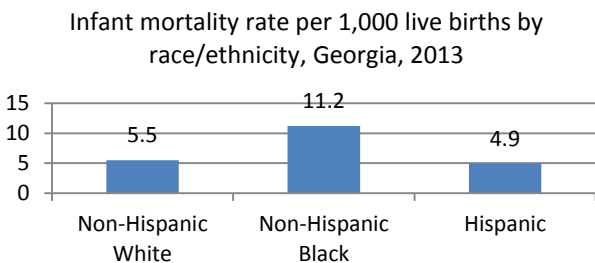
321
322 Approximately half (53.1%) of Georgia’s infants were placed to sleep on their back in 2011. The
323 Healthy People 2020 objective for this measure is 75.9%. More mothers who were over the age
324 of 24 and non-Hispanic White placed their infant on the back to sleep than mothers 24 years of
325 age or less and mothers of other racial/ethnic groups. Over half of mothers less than 20 years old
326 reported placing their infant on its side or stomach to sleep. Only 38.8% of White mothers
327 reported placing their infant on their side or stomach while approximately 57.0% of Black and
328 Hispanic mothers did.

329
330 **TREND OVER TIME**



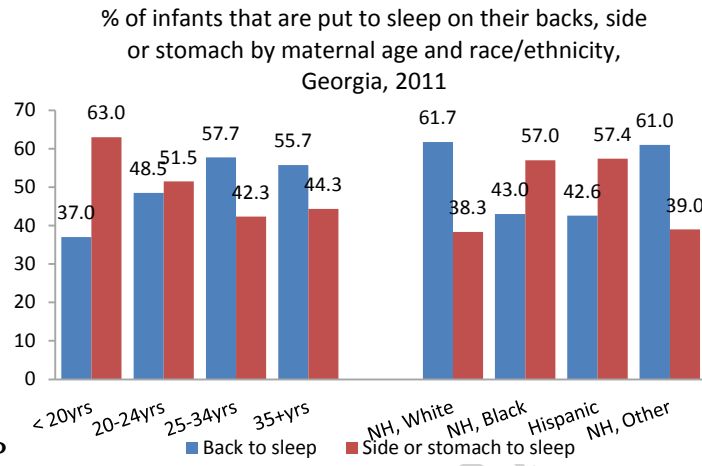
331
332 *Figure 15*
333 Source: OASIS state.ga.us

334
335 **DEMOGRAPHIC/EQUITY**



336
337 *Figure 16*
338 Source: OASIS state.ga.us

339
340
341



342 BEHAVIORS: SAFE SLEEP
343 *Figure 17*
344 Source: PRAMS 2011
345

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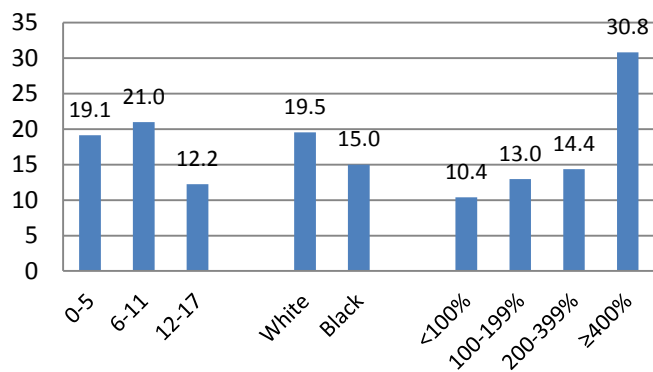
346 **Children and Youth with Special Health Care Needs**

347
348 In 2009-2010, 17.4% of Georgia’s children and youth with special health care needs (CYSHCN)
349 were receiving care in a well-functioning system. A well-functioning system meets all federal
350 requirements for family partnership, medical home, early screening, adequate insurance, easy
351 access to services and preparation for adult transition. The highest percentage of CYSHCN
352 receiving these services were reported among children with household income levels greater than
353 400% of the federal poverty level. The percentage decreased as income level decreased. Only
354 12.2% of CYSHCN adolescents received care in a well-functioning system compared to 21.0%
355 of CYSHCN ages 6 to 11. Racial disparities are present as well. White CYSHCN reported
356 receiving care in a well-functioning system more often than Blacks. Due to changes in survey
357 methodology, trend data are not available for this measure.

358
359 During 2009-2010, CYSCHN in Georgia received services necessary to make the transition to
360 adulthood less frequently than in the United States as whole. While 25.3% of Hispanic CYSHCN
361 across the nation reported receiving services, only 14.0% did in Georgia. Among Non-Hispanic
362 Whites, 43.6% indicated receiving transition services. Parents with a higher education reported
363 that their children received transition services more often than parents with lower educational
364 attainment.

365
366 DEMOGRAPHIC/EQUITY

% of CYSHCN receiving care in a well-functioning system by age, race/ethnicity and income level, Georgia, 2009/10



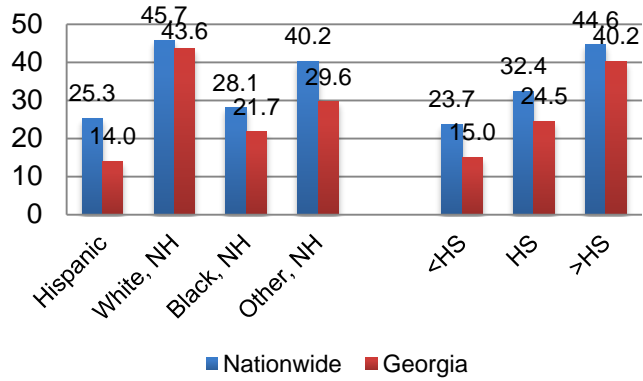
367
368 *Figure 18*

369 Source: National Survey of Children with Special Health Care Needs 2009/10

370 BEHAVIORS

371

% of CYSHCN ages 12 to 17 who receive services necessary to make appropriate transitions to adulthood by race and education, Georgia compared to the US, 2009/10



372
373
374
375
376

Figure 19

Source: National Survey of Children with Special Health Care Needs 2009-2010.

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377 **Oral Health**

378

379 In 2011-2012, 18.6% of Georgia’s children had decayed teeth or cavities. In the same year, the
380 US average was 19.4%. The highest percentage of tooth decay was reported among Non-
381 Hispanic Black children (24.7%) while the lowest was reported among Non-Hispanic White
382 children (13.2%). The percentage among Hispanic children (23.7%) was very similar to non-
383 Hispanic Blacks. More than 20.0% of children over the age of six had oral health problems in
384 2011-2012, compared to only 9.8% of children ages 1 to 5. Due to changes in survey
385 methodology, trend data for this measure is not available.

386

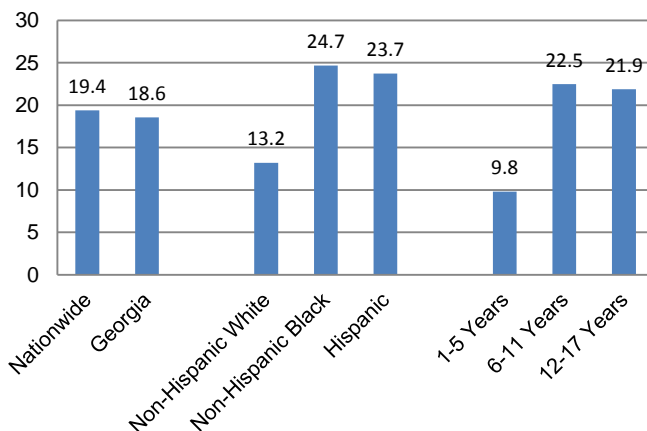
387 The percentage of children receiving a preventive dental visit in the past year decreased from
388 80.3% in 2007 to 75.9% in 2011-2012. Georgia exceeded the national average of 78.4% in 2007,
389 but was lower than the average of 75.9% in 2011-2012. There were disparities by race/ethnicity.
390 Parents of Hispanic children in Georgia reported the lowest percentage of preventive dental visits
391 (69.6%) compared to both the national estimate for Hispanic children (73.9%) and peers of other
392 races in Georgia.

393

394

395 DEMOGRAPHIC/EQUITY

% of children with decayed teeth or cavities
overall, by race/ethnicity and age, Georgia,
2011-2012



396

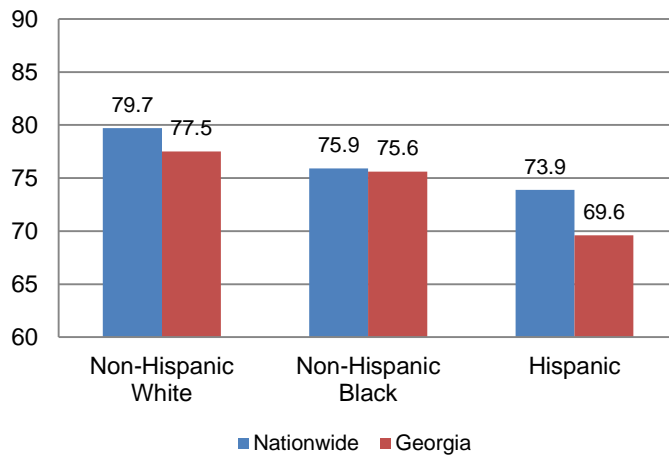
397 *Figure 20*

398 Source: NSCH 2011-2012

399

400 **BEHAVIORS**

% of children ages 1 to 17 who had a preventive dental visit in the last 12 months by race/ethnicity, Georgia compared to the US, 2011-2012



401
 402 *Figure 21*
 403 Source: NSCH 2011-2012
 404
 405

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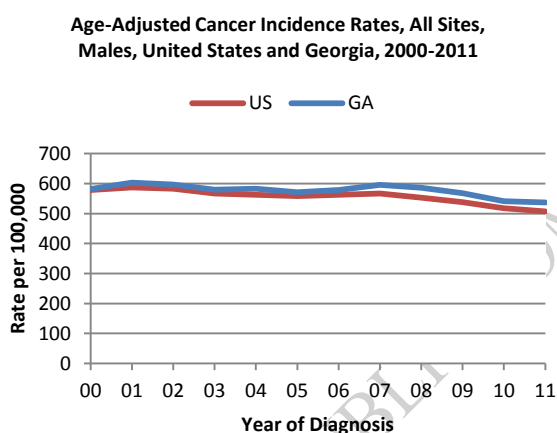
406 **Chronic Disease**

407 **Cancer Incidence, All Sites**

408
409 From 2000-2011, overall cancer incidence rates remained slightly higher among males in
410 Georgia compared to U.S. males but they have been following a similar downward trend. The
411 rates for U.S. males decreased by 0.6% per year from 2000-2008 followed by a more rapid
412 decline of 3.0 percent per year from 2008-2011. Among Georgia males, rates were fairly steady
413 during 2000-2008 and declined by about 3.0 % per year from 2008-2011.

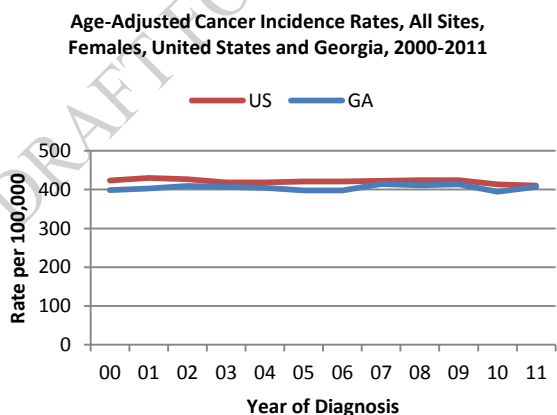
414
415 From 2000-2011, overall cancer incidence rates remained slightly lower among females in
416 Georgia as compared to U.S. females. The rates for U.S. females decreased slightly by about 0.2
417 % per year from 2000-2011. Among Georgia females, rates remained steady during 2000-2011.

418
419 **TREND OVER TIME, MALES**



420
421 *Figure 22*

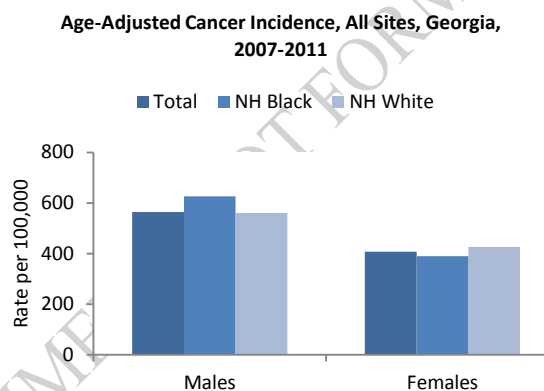
422 **TREND OVER TIME, FEMALES**



423

424 *Figure 23*

425
 426 More than 42,900 cancers are diagnosed each year in Georgia with an overall five-year age-
 427 adjusted cancer incidence rate of 472.1 per 100,000 persons. Males were more likely to be
 428 diagnosed than females (563.8/100,000 vs 407.5/100,000), Non-Hispanic (NH) Black males
 429 (626.4/100,000) had the highest age-adjusted cancer incidence rate compared to NH white males
 430 (560.4/100,000), NH white females (425.6/100,000) and NH black females (389.2/100,000.)



431 **RATES BY SEX AND RACE/ETHNICITY**

432 *Figure 24*

433

434

Sources:

1. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
2. Georgia Comprehensive Cancer Registry data were accessed through the Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

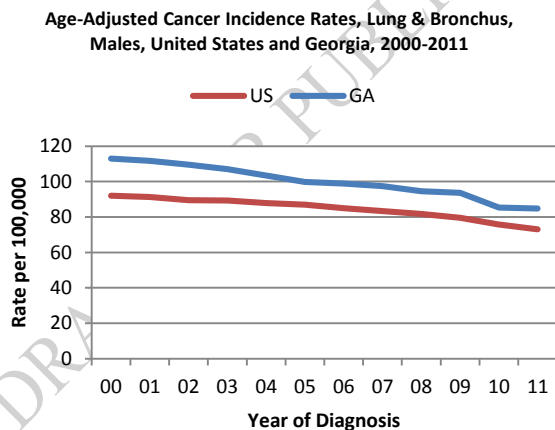
435 **Lung & Bronchus Cancer Incidence, Males**

436
 437 From 2000-2011, lung and bronchus cancer incidence rates remained higher among males in
 438 Georgia as compared to U.S. males but they have been following a similar downward trend. The
 439 rates for U.S. males decreased by about 1.4% per year from 2000-2008 followed by a more rapid
 440 decline of 4.0% per year from 2008-2011. Among Georgia males, rates declined by about
 441 2.6% per year from 2000-2011.

442
 443 Stage of disease refers to the extent to which cancer has spread when diagnosed. The earlier the
 444 stage of detection of a cancer, the better a person's chance of survival. In Georgia from 2005-
 445 2011, 11% of invasive lung and bronchus cancers diagnosed among non-Hispanic (NH) black
 446 males were at the localized stage compared to 16% of cancers among NH white males. Lung and
 447 bronchus cancer was diagnosed at a late stage (regional or distant) for 85% of NH black males
 448 and 79% of NH white males. These numbers were very similar to those for U.S. males.

449
 450 In Georgia from 2005-2011, 38% of NH black males and 45% of NH white males diagnosed
 451 with localized lung and bronchus cancer survived at least five years. Survival dropped to just 5%
 452 for both NH black and NH white males when discovered at a distant stage. These rates are
 453 similar to those for U.S. males.

454
 455 **TREND OVER TIME**



456
 457 *Figure 25*

458 **STAGE AND SURVIVAL**

Sources:

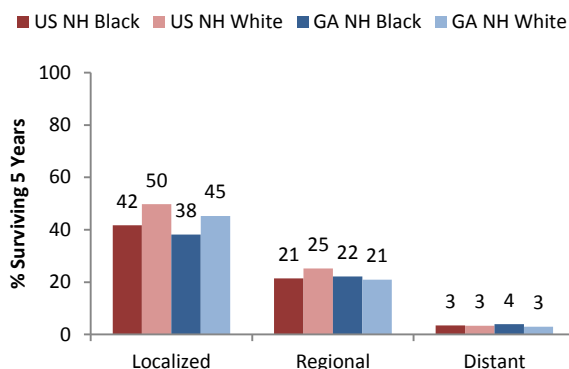
1. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
2. Georgia Comprehensive Cancer Registry data were accessed through the Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

459
 460 Distribution of Stage at Diagnosis, Lung & Bronchus Cancer,
 461 Males, United States and Georgia, 2005-2011
 462

	<u>United States</u>		<u>Georgia</u>	
	NH Black	NH White	NH Black	NH White
Localized	12%	15%	11%	16%
Regional	22%	23%	22%	24%
Distant	62%	58%	63%	55%
Unknown/Unstaged	4%	5%	4%	4%

463

Five-Year Survival by Stage at Diagnosis, Lung & Bronchus Cancer, Males, United States and Georgia, 2005-2011



464
 465
 466
 467

Figure 26

Sources:

3. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
4. Georgia Comprehensive Cancer Registry data were accessed through the Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

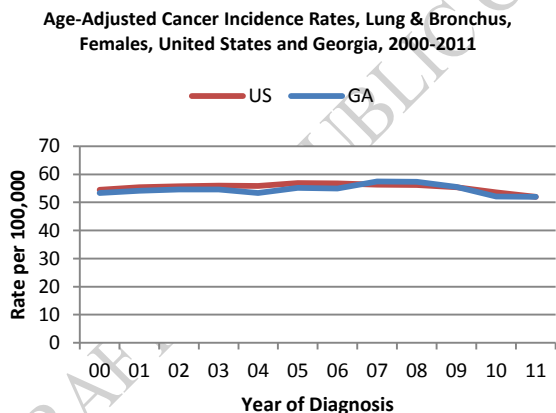
468 **Lung & Bronchus Cancer Incidence, Females**

469
470 From 2000-2011, lung and bronchus cancer incidence rates among females in Georgia were
471 similar to those for U.S. females and have been following a similar trend. The rates for U.S.
472 females increased by 0.4% per year from 2000-2008 followed by a decline of 2.9% per year from
473 2008-2011. Among Georgia females, rates increased by 0.8% per year from 2000-2008 and
474 decreased by 3.3% per year from 2008-2011.

475
476 Stage of disease refers to the extent to which cancer has spread when diagnosed. The earlier the
477 stage of detection, the better the chance of survival. In Georgia from 2005-2011, 15% of invasive
478 lung and bronchus cancers diagnosed among non-Hispanic (NH) black females were at the
479 localized stage compared to 20% of cancers among NH white females. Lung and bronchus
480 cancer was diagnosed at a late stage (regional or distant) for 82% of NH black females and 76%
481 of NH white females. These numbers were very similar to those for U.S. females.

482
483 In Georgia from 2005-2011, 51% of NH black females and 54% of NH white females diagnosed
484 with localized lung and bronchus cancer survived at least five years. Survival dropped to just 4%
485 and 3%, respectively, for both NH black and NH white females when discovered at a distant
486 stage. These rates are similar to those for U.S. females.

487
488 **TREND OVER TIME**



489
490 *Figure 27*

491 **STAGE AND SURVIVAL**

492
493 **Distribution of Stage at Diagnosis, Lung & Bronchus Cancer,**
494 **Females, United States and Georgia, 2005-2011**

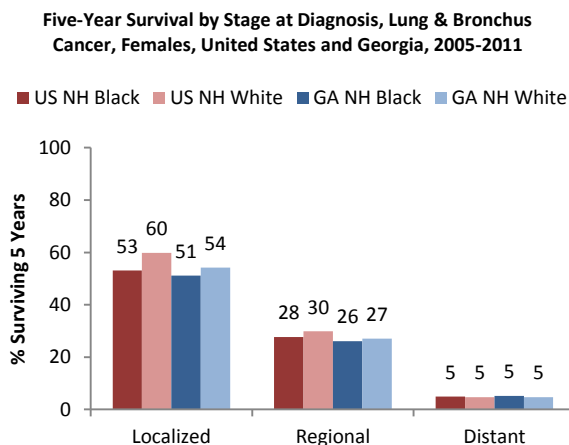
Sources:

1. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
2. Georgia Comprehensive Cancer Registry Data accessed through Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

495

	<u>United States</u>		<u>Georgia</u>	
	NH Black	NH White	NH Black	NH White
Localized	15%	18%	15%	20%
Regional	23%	22%	23%	25%
Distant	59%	54%	59%	51%
Unknown/Unstaged	4%	6%	3%	5%

496



497

498

Figure 28

499

500

Sources:

- United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
- Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

501 **Colorectal Cancer Incidence, Males**

502
503 From 2000-2011, colorectal cancer incidence rates among males in Georgia were similar to those
504 for U.S. males and have been following a similar trend. The rates for U.S. males decreased by
505 3.0% per year from 2000-2008 followed by a more rapid decline of 4.7% per year from 2008-
506 2011. Among Georgia males, rates decreased by 0.5% per year from 2000-2003 and decreased
507 by 3.4 % per year from 2003-2011.

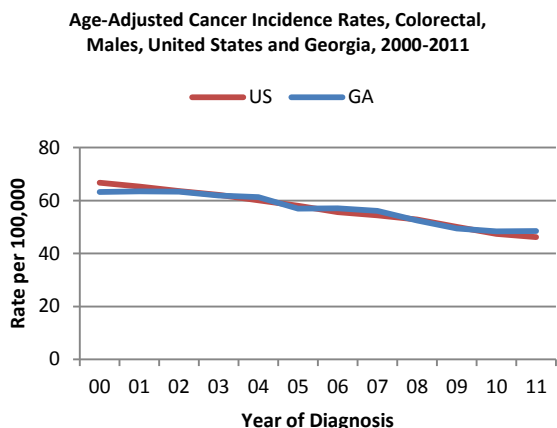
508
509 Stage of disease refers to the extent to which cancer has spread when diagnosed. The earlier the
510 stage of detection, the better the chance of survival. In Georgia from 2005-2011, 38% of invasive
511 colorectal cancers diagnosed among non-Hispanic (NH) black males were at the localized stage
512 compared to 40% of cancers among NH white males. Colorectal cancer was diagnosed at a late
513 stage (regional or distant) for 57% of NH black males and 57% of NH white males. These
514 numbers were very similar to those for U.S. males.

515
516 In Georgia from 2005-2011, 87% of NH black males and 86% of NH white males diagnosed
517 with localized colorectal cancer survived at least five years. Survival dropped dramatically to 8%
518 and 13% respectively for NH black and NH white males when discovered at a distant stage.
519 These rates are similar to those for U.S. males.

Sources:

1. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
2. Georgia Comprehensive Cancer Registry data were accessed through the Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

520 TREND OVER TIME



521
522 *Figure 29*

523 STAGE AND SURVIVAL

524
525 Distribution of Stage at Diagnosis, Colorectal Cancer, Males,
526 United States and Georgia, 2005-2011

527

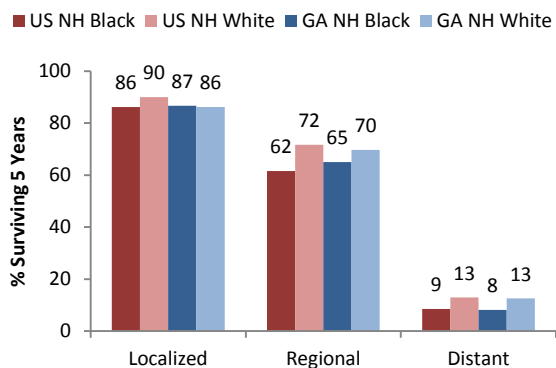
	<u>United States</u>		<u>Georgia</u>	
	NH Black	NH White	NH Black	NH White
Locali zed	38%	41%	38%	40%
Region al	33%	36%	32%	37%
Distan t	25%	20%	25%	20%
Unkno wn/Un staged	5%	4%	4%	3%

528

Sources:

3. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
4. Georgia Comprehensive Cancer Registry data were accessed through the Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

Five-Year Survival by Stage at Diagnosis, Colorectal Cancer, Males, United States and Georgia, 2005-2011



529
530 *Figure 30*
531

DRAFT FOR PUBLIC COMMENT - NOT FORMATTED

Sources:

3. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
4. Georgia Comprehensive Cancer Registry data were accessed through the Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

532 **Colorectal Cancer Incidence, Females**

533

534 From 2000-2011, colorectal cancer incidence rates among females in Georgia were similar to
535 those for U.S. females and have been following a similar trend. The rates for U.S. females
536 decreased by 2.3% per year from 2000-2007 followed by a more rapid decline of 4.1% per year
537 from 2007-2011. Among Georgia females, rates decreased by about 2.2 % per year from 2000-
538 2011.

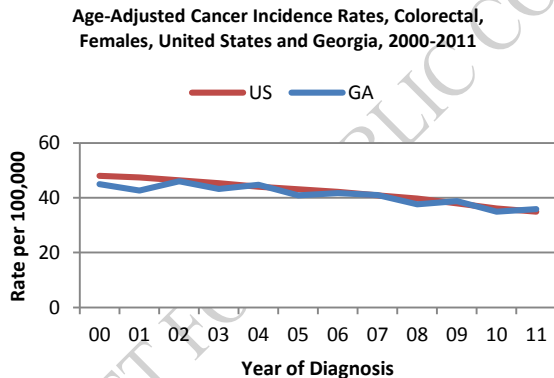
539

540 Stage of disease refers to the extent to which cancer has spread when diagnosed. The earlier the
541 stage of detection, the better the chance of survival. In Georgia from 2005-2011, 39% of invasive
542 colorectal cancers diagnosed among non-Hispanic (NH) black females were at the localized
543 stage compared to 40% of cancers among NH white females. Colorectal cancer was diagnosed at
544 a late stage (regional or distant) for 56% of NH black females and 56% of NH white females.
545 These numbers were very similar to those for U.S. females.

546

547 In Georgia from 2005-2011, 88% of NH black females and 90% of NH white females diagnosed
548 with localized colorectal cancer survived at least five years. Survival dropped dramatically to
549 10% and 15%, respectively, for NH black and NH white females when discovered at a distant
550 stage. These rates were similar to those for U.S. females.

551 **TREND OVER TIME**



552

553 *Figure 31*

554 **STAGE AND SURVIVAL**

555

556 Distribution of Stage at Diagnosis, Colorectal Cancer, Females,
557 United States and Georgia, 2005-2011

558

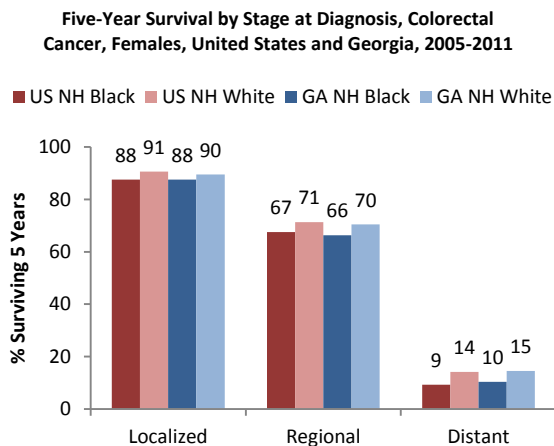
United States Georgia

Sources:

1. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
2. Georgia Comprehensive Cancer Registry Data access through Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

	NH Black	NH White	NH Black	NH White
Localized	39%	39%	39%	40%
Regional	32%	36%	32%	37%
Distant	24%	20%	24%	19%
Unknown/Unstaged	5%	5%	5%	3%

559



560

561

Figure 32

562

NH=non-Hispanic

563

Colorectal Cancer Screening (BRFSS, 2011-2013)

564

565

Colorectal cancer guidelines state that average risk adults age 50 years and older should have a

566

blood stool test within the past year, and/or a sigmoidoscopy every five years, and/or a

567

colonoscopy every ten years. The overall colorectal cancer screening rate among Georgia adults

568

aged 50 and older was 63%. Screening rates were similar for both males and females.

569

Health insurance status is an important factor in determining whether a person receives proper

570

and timely screenings. Among Georgia adults aged 50-64 years, persons with health insurance

571

were significantly more likely to have met the colorectal cancer screening recommendation than

572

persons without health insurance (66 % vs. 30%). Adults over age 65 are likely to be insured by

Sources:

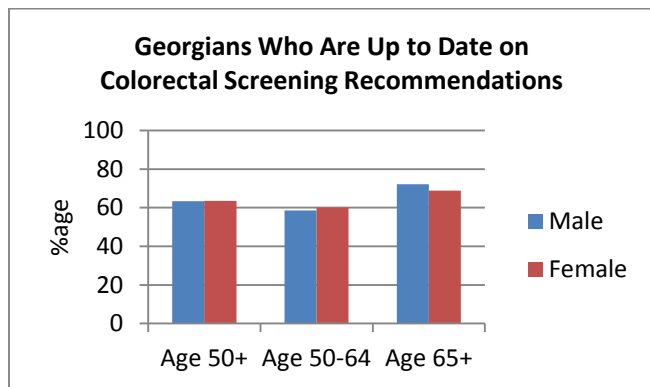
3. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
4. Georgia Comprehensive Cancer Registry data were accessed through the Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

573 Medicare; hence there were not enough respondents in the uninsured category to display a
574 comparison.

575 Colorectal cancer screening rates varied by income level. There was a trend that higher income
576 levels translate to higher likelihood of meeting screening recommendations. Adults aged 50
577 years and older making less than \$25,000 annually were least likely to meet the recommendation
578 of the three income groups, regardless of age (overall: 52% vs. 66 and 74%, respectively)

579

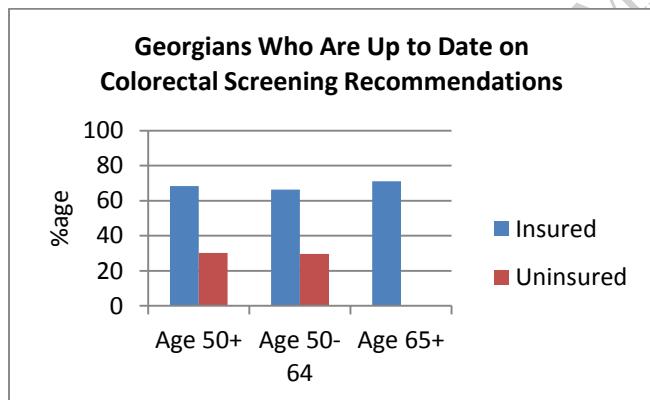
580 SCREENING BY SEX



581

582 *Figure 33*

583 SCREENING BY HEALTH INSURANCE STATUS

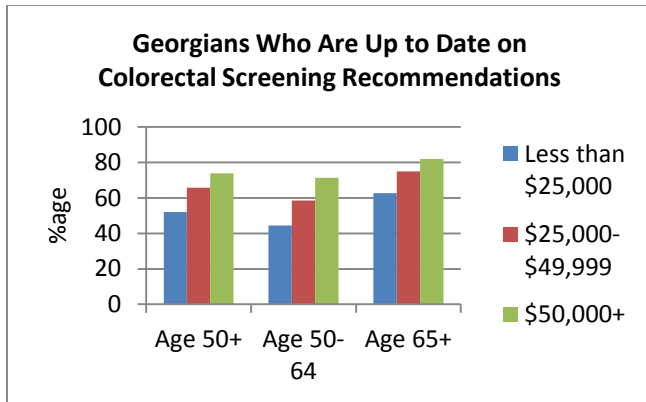


584

585 *Figure 34*

Sources:

1. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
2. Georgia Comprehensive Cancer Registry Data accessed through Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.



586
 587 SCREENING BY INCOME LEVEL
 588 *Figure 35*

589
 590

DRAFT FOR PUBLIC COMMENT - NOT FORMATTED

Sources:

1. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
2. Georgia Comprehensive Cancer Registry Data accessed through Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

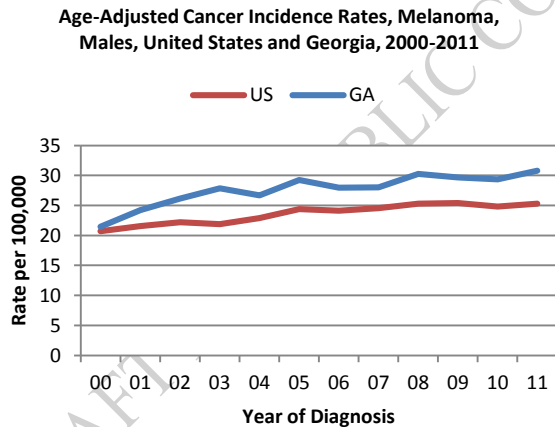
591 **Melanoma Incidence, Males**

592
593 From 2000-2011, melanoma incidence rates among males in Georgia were higher than those for
594 U.S. males and both experienced an upward trend during the past decade. The rates for U.S.
595 males increased by 2.5% per year from 2000-2008 followed by a slight decline of 0.3 % per year
596 from 2008-2011. Among Georgia males, rates increased by 11.5 % per year from 2000-2002,
597 followed by a more modest increase of 1.5% per year during 2002-2011.

598
599 Stage of disease refers to the extent to which cancer has spread when diagnosed. The earlier the
600 stage of detection, the better the chance of survival. In Georgia from 2005-2011, 41% of invasive
601 melanomas diagnosed among non-Hispanic (NH) black males were at the localized stage
602 compared to 84% of cancers among NH white males. Melanoma was diagnosed at a late stage
603 (regional or distant) for 52% of NH black males and 13% of NH white males. These numbers
604 were similar to those for U.S. males.

605
606 In Georgia from 2005-2011, 91% of NH black males and 97% of NH white males diagnosed
607 with localized melanoma survived at least five years. Survival dropped dramatically when
608 discovered at a distant stage. These rates were similar to those for U.S. males.

609
610 **TREND OVER TIME**



611
612 *Figure 36*

613 **STAGE AND SURVIVAL**

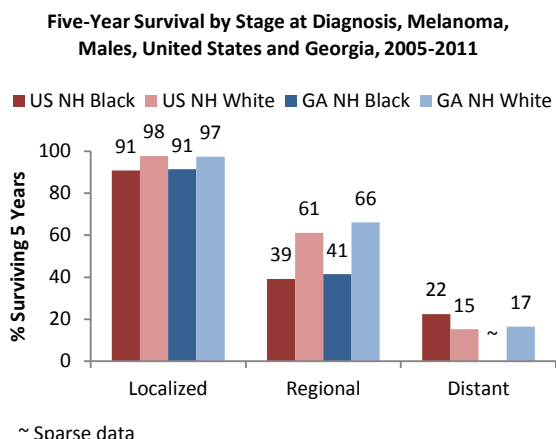
614
615 **Distribution of Stage at Diagnosis, Melanoma, Males,**
616 **United States and Georgia, 2005-2011**

617
Sources:

1. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
2. Georgia Comprehensive Cancer Registry Data accessed through Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

	<u>United States</u>		<u>Georgia</u>	
	NH Black	NH White	NH Black	NH White
Localized	47%	82%	41%	84%
Regional	29%	10%	34%	9%
Distant	18%	5%	18%	4%
Unknown/Unstaged	6%	3%	7%	3%

618



619

620 *Figure 37*

621 Melanoma Incidence, Females

622

623 From 2000-2011, melanoma incidence rates among females in Georgia were generally higher
 624 than those for U.S. females and both experienced an upward trend during the past decade. The
 625 rates for U.S. females increased by 3.0% per year from 2000-2006 followed by relatively steady
 626 rates from 2006-2011. Among Georgia females, rates increased by about 1.8% per year from
 627 2000-2011.

628

629 Stage of disease refers to the extent to which cancer has spread when diagnosed. The earlier the
 630 stage of detection, the better the chance of survival. In Georgia from 2005-2011, 65% of invasive
 631 melanomas diagnosed among non-Hispanic (NH) black females were at the localized stage

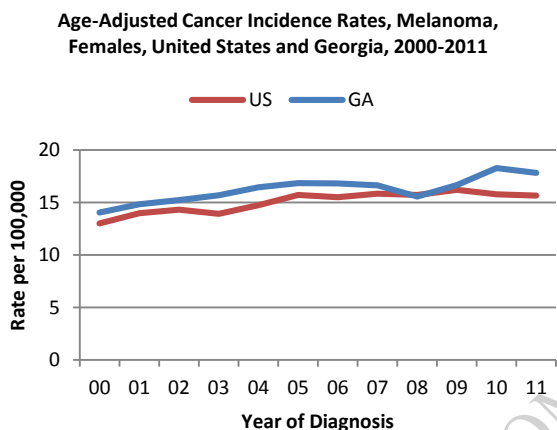
Sources:

3. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
4. Georgia Comprehensive Cancer Registry data were accessed through the Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

632 compared to 87% of cancers among NH white females. Melanoma was diagnosed at a late stage
 633 (regional or distant) for 31% of NH black females and 8% of NH white females. These numbers
 634 were similar to those for U.S. females.

635
 636 In Georgia from 2005-2011, 91% of NH black females and 99% of NH white females diagnosed
 637 with localized melanoma survived at least five years. Survival dropped dramatically when
 638 discovered at a distant stage. These rates were similar to those for U.S. females.

639
 640 **TREND OVER TIME**



641
 642 *Figure 38*

643 **STAGE AND SURVIVAL**

644
 645 Distribution of Stage at Diagnosis, Melanoma, Females,
 646 United States and Georgia, 2005-2011

647

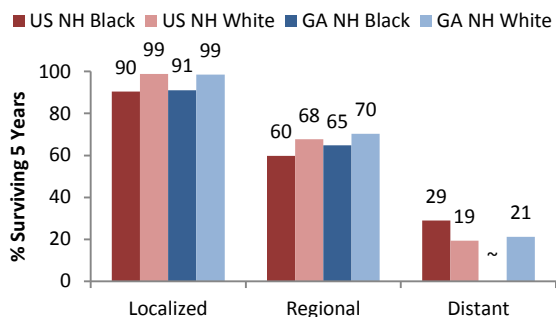
	<u>United States</u>		<u>Georgia</u>	
	NH Black	NH White	NH Black	NH White
Locali zed	61%	87%	65%	87%
Region al	23%	7%	18%	6%
Distan t	11%	3%	13%	2%
Unkno	5%	3%	4%	4%

Sources:

3. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
4. Georgia Comprehensive Cancer Registry data were accessed through the Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

wn/Un
staged

Five-Year Survival by Stage at Diagnosis, Melanoma, Females, United States and Georgia, 2005-2011



~ Sparse data

648

649 *Figure 39*

650

651

Sources:

- United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
- Georgia Comprehensive Cancer Registry data were accessed through the Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

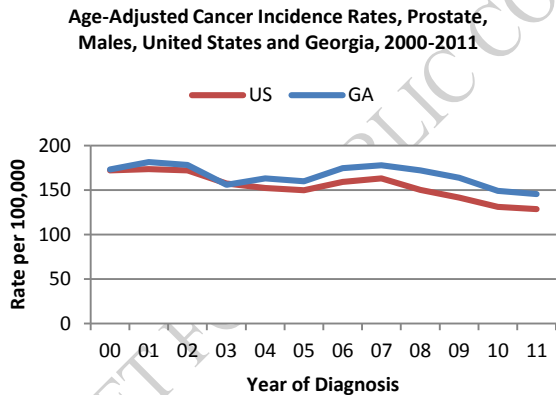
652 **Prostate Cancer Incidence, Males**

653
654 From 2000-2011, prostate cancer incidence rates among males in Georgia were generally higher
655 than those for U.S. males but both have been following a downward trend. The rates for U.S.
656 males decreased by 2.4% per year from 2000-2011. Among Georgia males, rates decreased by
657 1.2% per year from 2000-2011.

658
659 Stage of disease refers to the extent to which cancer has spread when diagnosed. The earlier the
660 stage of detection, the better the chance of survival. In Georgia from 2005-2011, 87% of invasive
661 prostate cancers diagnosed among non-Hispanic (NH) black males were at the localized stage
662 compared to 86% of cancers among NH white males. Prostate cancer was diagnosed at a late
663 stage (regional or distant) for 11% of both NH black and NH white males. These numbers were
664 slightly better than those for U.S. males.

665
666 In Georgia from 2005-2011, 100% of both NH black and NH white males diagnosed with
667 localized prostate cancer survived at least five years. Survival dropped dramatically to 31% and
668 26% respectively for NH black and NH white males when discovered at a distant stage. These
669 rates were similar to those for U.S. males

670
671 **TREND OVER TIME**



672
673 *Figure 40*
674 **STAGE AND SURVIVAL**

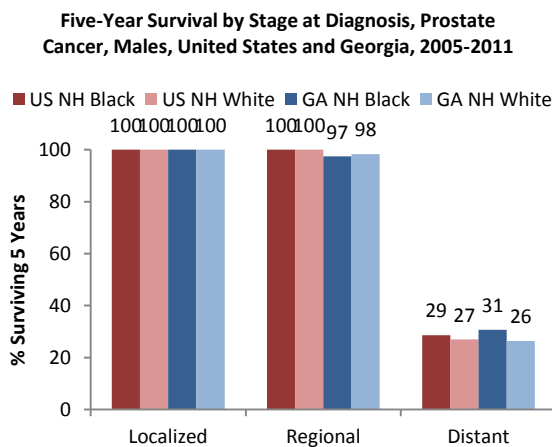
675
676 Distribution of Stage at Diagnosis, Prostate Cancer, Males,
677 United States and Georgia, 2005-2011

	<u>United States</u>	<u>Georgia</u>
--	----------------------	----------------

Sources:

1. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
2. Georgia Comprehensive Cancer Registry Data accessed through Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

	NH Black	NH White	NH Black	NH White
Localized	82%	81%	87%	86%
Regional	10%	12%	6%	8%
Distant	5%	4%	5%	3%
Unknown/Unstaged	3%	3%	2%	2%



679
680 *Figure 41*

681
682 **Breast Cancer Incidence, Females**

683 From 2000-2011, breast cancer incidence rates among females in Georgia were similar to those
684 for U.S. females and both have remained somewhat steady. The rates for U.S. females decreased
685 by 2.5% per year from 2000-2004 and remained steady from 2004-2011. Among Georgia
686 females, rates remained steady from 2000-2011.

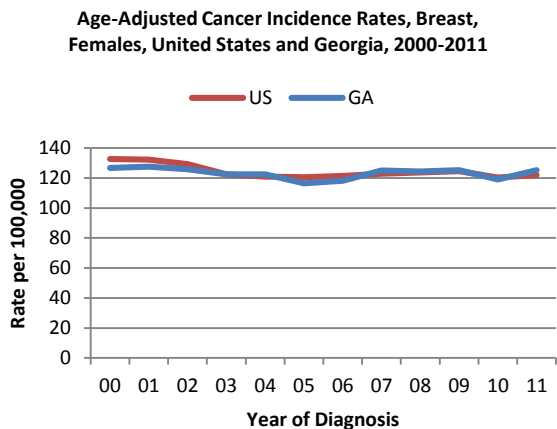
687
688 Stage of disease refers to the extent to which cancer has spread when diagnosed. The earlier the
689 stage of detection, the better the chance of survival. In Georgia from 2005-2011, 52% of invasive
690 breast cancers diagnosed among non-Hispanic (NH) black females were at the localized stage
691 compared to 63% of cancers among NH white females. Breast cancer was diagnosed at a late
692 stage (regional or distant) for 46% of NH black females and 35% of NH white females. These
693 numbers were very similar to those for U.S. females.

694
Sources:

1. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
2. Georgia Comprehensive Cancer Registry Data access through Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

695 In Georgia from 2005-2011, 94% of NH black females and 97% of NH white females diagnosed
 696 with localized breast cancer survived at least five years. Survival drops dramatically to just 19%
 697 and 24% respectively for NH black and NH white females when discovered at a distant stage.
 698 These rates were similar to those for U.S. females.
 699

700 TREND OVER TIME



701
 702 *Figure 42*

703 STAGE AND SURVIVAL

704
 705 Distribution of Stage at Diagnosis, Breast Cancer, Females,
 706 United States and Georgia, 2005-2011
 707

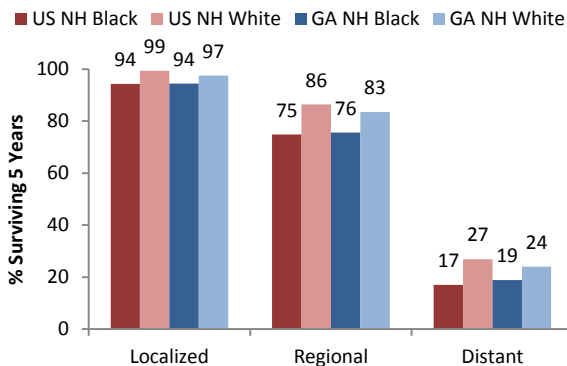
	<u>United States</u>		<u>Georgia</u>	
	NH Black	NH White	NH Black	NH White
Localized	53%	63%	52%	63%
Regional	37%	30%	37%	30%
Distant	9%	5%	9%	5%
Unknown/Unstaged	2%	2%	2%	2%

708

Sources:

3. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
4. Georgia Comprehensive Cancer Registry data were accessed through the Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.

**Five-Year Survival by Stage at Diagnosis, Breast Cancer,
Females, United States and Georgia, 2005-2011**



709

710 *Figure 43*

711 NH=non-Hispanic

712 Breast Cancer Screening (BRFSS, 2011-2013)

713

714 Overall 75.3% of Georgia women 40 years and older reported having a mammogram within the
715 past two years. Screening rates were higher among women over age 65 than women younger
716 than 65, and non-Hispanic black women were more likely than non-Hispanic white women to
717 report being screened, regardless of age group.

718

719 Health insurance status was an important factor in determining whether a woman gets proper and
720 timely screenings. Among Georgia women aged 40-64 years, women with health insurance were
721 significantly more likely to report a recent mammogram than women without health insurance
722 (81% vs. 43%). Women over age 65 are likely to be insured by Medicare; hence there were not
723 enough respondents in the uninsured category to display a comparison.

724

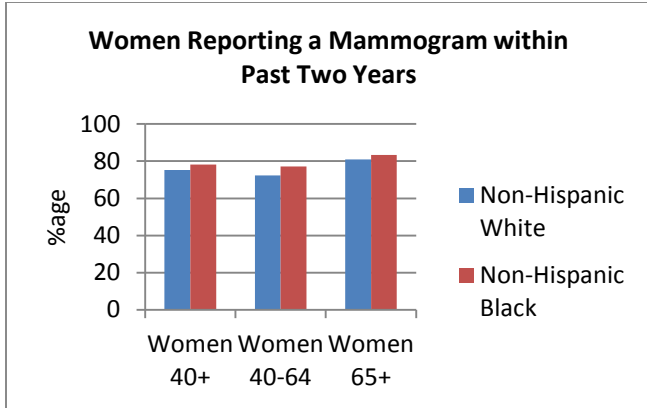
725 Mammogram screening rates differed by income level. There was a clear gradient indicating that
726 women at a higher income levels are more likely to have been screened within the past two
727 years. Women making less than \$25,000 were least likely to report a recent mammogram of the
728 three income groups, regardless of age (overall: 67% vs. 77 and 82%, respectively).

729

730 SCREENING BY RACE/ETHNICITY

Sources:

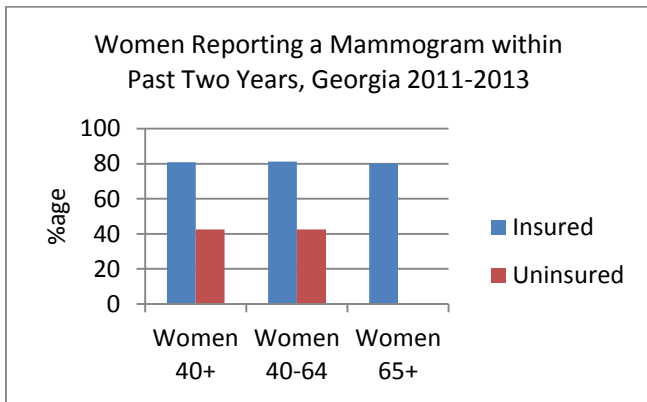
3. United States Cancer Statistics: 1999-2011, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014.
4. Georgia Comprehensive Cancer Registry data were accessed through the Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2014 Sub (1973-2012 varying) - Linked To County Attributes - Total U.S., 1969-2013 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2015, based on the November 2014 submission.



731
732 *Figure 44*

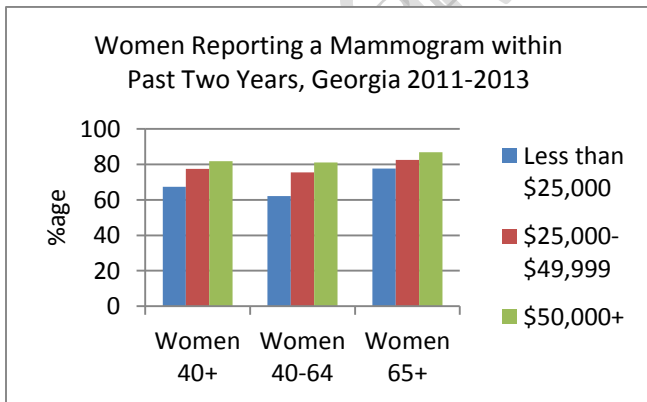
733
734

735 **SCREENING BY HEALTH INSURANCE STATUS**



736
737 *Figure 45*

738



739
740 **SCREENING BY INCOME LEVEL**

741 *Figure 46*

742

743 Cervical Cancer Incidence, Females

744

745 From 2000-2011, cervical cancer incidence rates among females in Georgia were generally
746 similar to those for U.S. females and both have been following a downward trend. The rates for
747 U.S. females decreased by 4.3% per year from 2000-2003 followed by a more modest decrease
748 of 1.2% per year from 2003-2011. Among Georgia females, rates decreased by about 2.2% per
749 year from 2000-2011.

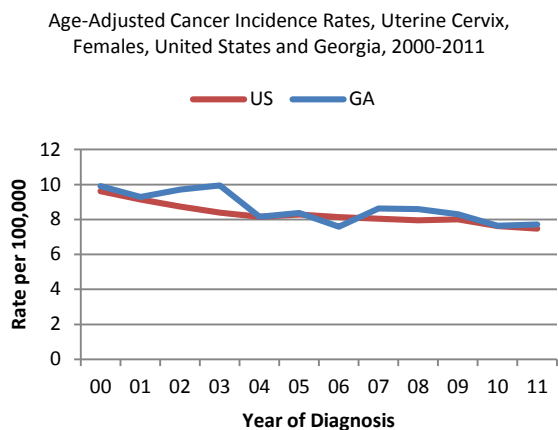
750

751 Stage of disease refers to the extent to which cancer has spread when diagnosed. The earlier the
752 stage of detection, the better the chance of survival. In Georgia from 2005-2011, 35% of invasive
753 cervical cancers diagnosed among non-Hispanic (NH) black females were at the localized stage
754 compared to 48% of cancers among NH white females. Cervical cancer was diagnosed at a late
755 stage (regional or distant) for 60% of NH black females and 48% of NH white females. These
756 numbers were similar to those for U.S. females.

757

758 In Georgia from 2005-2011, 84% of NH black females and 89% of NH white females diagnosed
759 with localized cervical cancer survived at least five years. Survival dropped dramatically to just
760 10% and 17% respectively for NH black and NH white females when discovered at a distant
761 stage. These rates were similar to those for U.S. females.

762 TREND OVER TIME



763
764 *Figure 47*

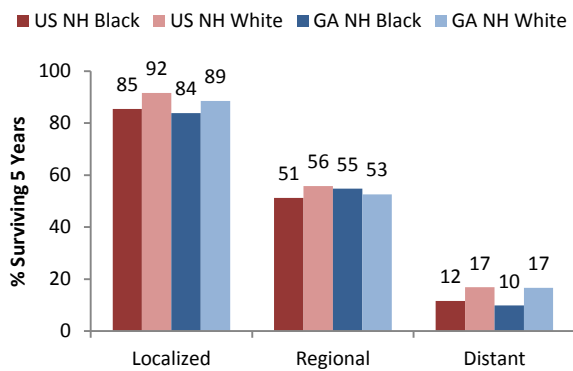
765 STAGE AND SURVIVAL

766
767 Distribution of Stage at Diagnosis, Cervical Cancer, Females,
768 United States and Georgia, 2005-2011

769

	<u>United States</u>		<u>Georgia</u>	
	NH Black	NH White	NH Black	NH White
Localized	38%	48%	35%	48%
Regional	41%	35%	44%	37%
Distant	16%	13%	16%	11%
Unknown/Unstaged	5%	4%	5%	3%

Five-Year Survival by Stage at Diagnosis, Cervical Cancer,
Females, United States and Georgia, 2005-2011



770

771 *Figure 48*

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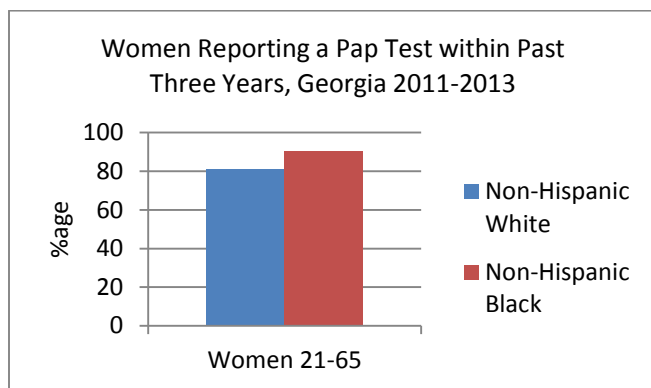
772 **Cervical Cancer Screening**

773
774 Cervical cancer screening guidelines updated in 2012 recommend screening for women aged 21-
775 65 years, after which Pap tests are no longer routinely recommended. Overall among Georgia
776 women in this age group, 86% reported that their most recent Pap test was within three years.
777 The cervical cancer screening rate was slightly higher for non-Hispanic black women than for
778 non-Hispanic white women (81% vs. 90%).

779
780 Health insurance status is an important factor in determining whether a woman receives proper
781 and timely screenings. Among Georgia women aged 21-65 years, women with health insurance
782 were significantly more likely than women without health insurance to report having had a recent
783 Pap test (90% vs. 73%).

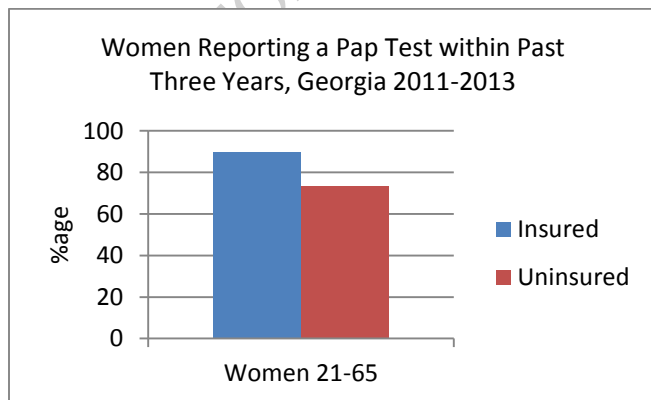
784
785 Cervical cancer screening rates varied by income level, there was a small but clear gradient
786 indicating that women with higher income levels were more likely of have been screened
787 recently. Women making less than \$25,000 were least likely to report having had a Pap test
788 within three years compared to other income groups (81% vs. 87 and 90 %, respectively).

789 **SCREENING BY RACE/ETHNICITY**

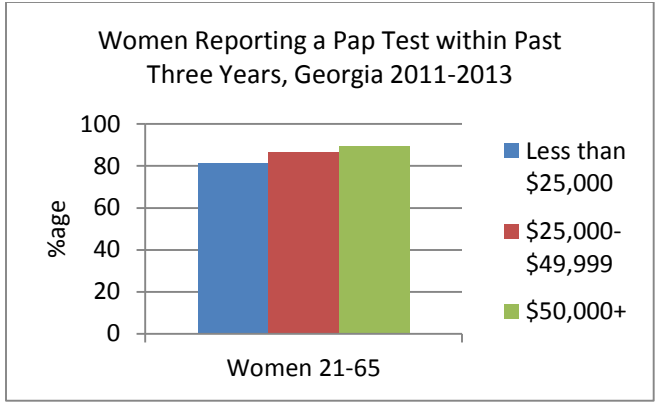


790
791 *Figure 49*

792 **SCREENING BY HEALTH INSURANCE STATUS**



793
794 *Figure 50*



795

796 SCREENING BY INCOME LEVEL

797 *Figure 51*

798

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799 **Asthma**

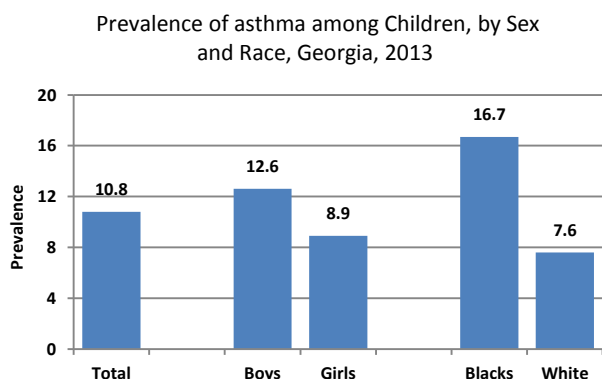
800 During 2013, the prevalence of asthma among Georgia children was 10.8%¹ and that in adults
801 was 8.4%².

802
803 Among Georgia children, asthma was more common in boys (12.6%) than girls (8.9%); in black
804 children (16.7%) than white children (7.6%); and among those aged 5-9 years (14.1%) than
805 children in other age categories.

806
807 Among adults, asthma prevalence was higher in females (11.3%) than males (5.3%); blacks
808 (10.8%) than whites (7.9%); and those making less than \$25,000 (12.4%) than those making
809 \$50,000 or more (5.7%) per year; those with less than high school diploma (11.4%) than those
810 with college degree (6.5%); and those without health insurance (10.0%) than those with health
811 insurance (7.9%).

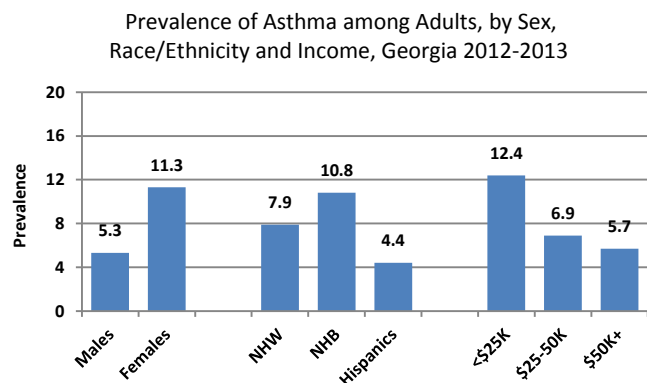
812
813 In Georgia during 2012-2013, the prevalence of current asthma was significantly higher among
814 adults who were obese (10.7%) than adults with normal body weight (7.3%). Current asthma was
815 also more common among adult smokers than non-smokers.

816
817 ASTHMA PREVALENCE



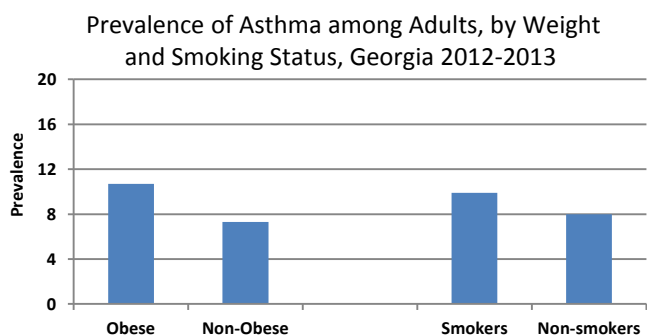
818
819 *Figure 52*

820
821 DEMOGRAPHIC/EQUITY



822
823 *Figure 53*

824
825 **BEHAVIORS**



826
827 *Figure 54*

828 Georgia Behavioral Risk Factor Surveillance Survey (BRFSS), Child Asthma Module, 2013.
829 Georgia BRFSS, Adult Asthma Module, 2012-2013

830
831
832 Between 2002 and 2013, there were 621,271 asthma emergency room visits (ER) in Georgia,
833 with an overall rate of 555 per 100,000 persons. The ER visit rate was higher among children 0-
834 17 (1,018 per 100,000) than in adults 18 years and older (394 per 100,000).

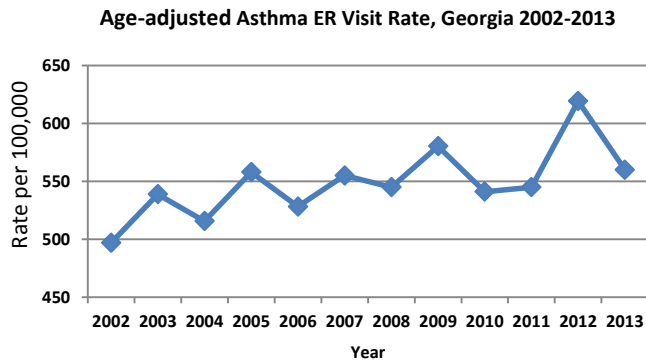
835
836 Between 2002 and 2013, approximately 294,770 ER asthma visits were among children 0-17
837 years, which represented 47.5% of all the asthma ER visits while only 25% of Georgia
838 population is in this age category. The rate of asthma ER visits is higher among black children
839 (1,874 per 100,000) than white children (519 per 100,000); in boys (1,234 per 100,000) than girls
840 (792 per 100,000); in children 0-4 (1,435 per 100,000) than older children 5-9 years (1,202 per
841 100,000) and 10-17 years (646 per 100,000). Among children, the highest asthma rate increase
842 during 2002-2013 was observed among the 5-9 year olds.

843

844 In Georgia and during the past 13 years, there was a decline in the rate of asthma hospitalizations
845 in. Approximately 10,800 asthma hospitalizations per year were recorded annually during 2002-
846 2013, an average rate of 113 per 100,000. The rate of asthma hospitalizations was higher in
847 younger children 0-4 years (175 per 100,000) and older adults 65 years and older (164 per
848 100,000) compared to the other age categories.

849

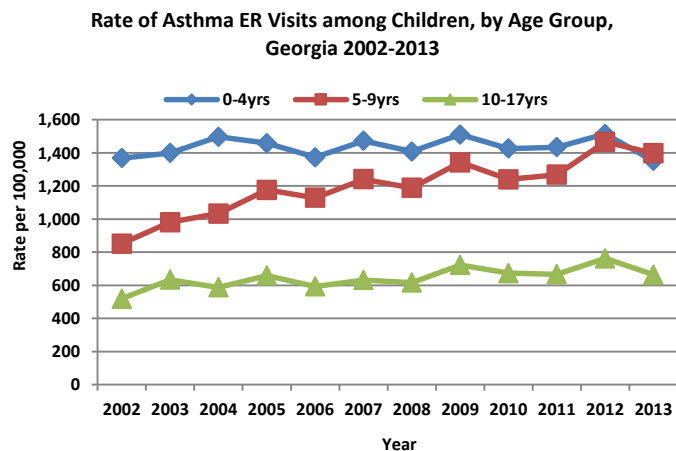
850 TREND



851

852 *Figure 55*

853 TREND

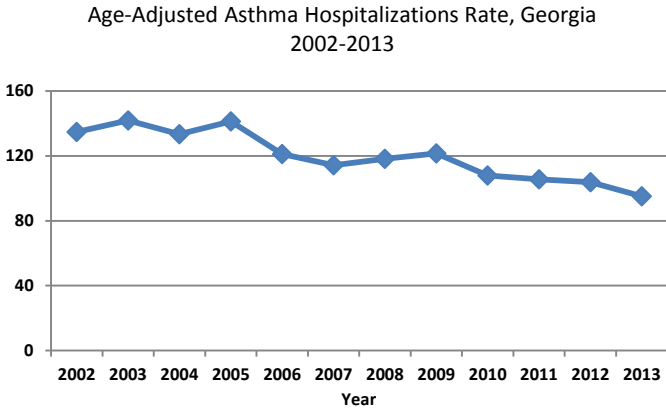


854

855 *Figure 56*

856

857 TREND



858

859 *Figure 57*

860 1. Georgia Hospital Discharge data, 2002-2013(Emergency Room Visits)

861 2. Georgia Hospital Discharge data, 2002-2013 (Inpatient)

862

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863 **Alzheimers and Related Dementia**

864

865 The Alzheimer’s Association estimates that there are approximately 130,000 Georgians with
866 Alzheimer’s disease or related dementia (ADRD). Among Georgia Medicare eligible population
867 who were alive at the end of 2013, about 6.4% (91,772) had a diagnosis of ADRD. Among this
868 population, ADRD was more common in older adults, females and whites

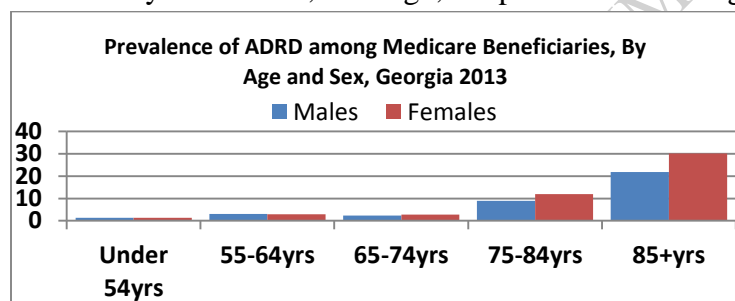
869 During 2013, among Medicare beneficiaries with ADRD in Georgia, approximately 20,670 died.
870 Of the beneficiaries with ADRD who died, approximately 30% had ADRD listed as the primary
871 cause of death, while the remaining had other causes such as ischemic heart attack, heart failure,
872 pneumonia/flu, and sepsis as the primary cause of death.

873

874 In Georgia during 2013, the prevalence of ADRD among the Medicare beneficiaries was lower
875 among residents of the metro Atlanta areas except for the DeKalb Public Health District. The
876 South (Valdosta) and Southeast (Waycross) Public Health Districts had ADRD prevalence
877 exceeding 7%.

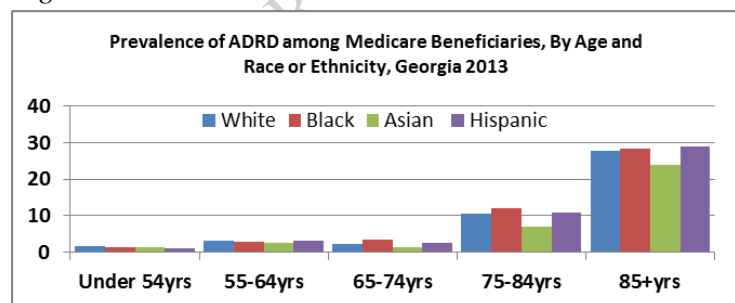
878

879 During 2013, 12.2 % of adults aged 45 years and older reported experiencing confusion or
880 memory loss that was happening more or getting worse, termed as increased confusion or
881 memory loss (ICML). In Georgia during 2013, experiencing ICML was not significantly
882 different by sex or race, although, the prevalence was higher among females and blacks.



883

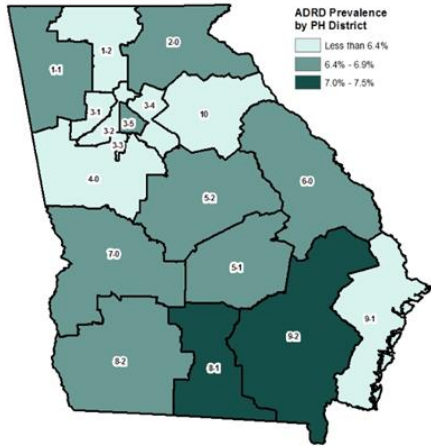
884 *Figure 58*



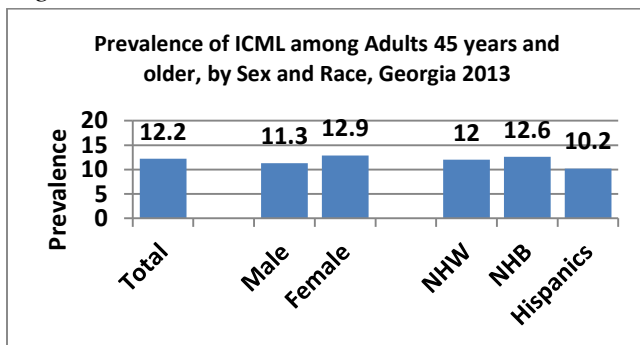
885

886 *Figure 59*

887 Prevalence of ADRD among Medicare Beneficiaries in Georgia, by Public Health District,
888 Georgia, 2013

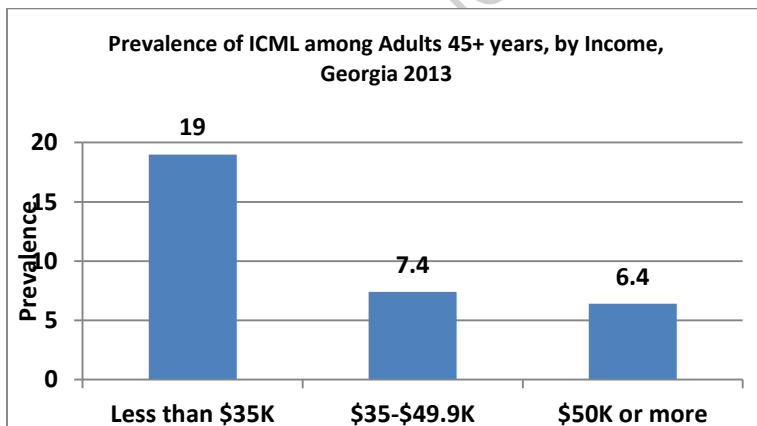


889
890 *Figure 60*



891
892 *Figure 61*

893 The prevalence of ICML was significantly higher among those making less than \$35,000 per
894 year (19%) than those whose annual household income was \$50,000 or more (6.4%).
895



896
897 *Figure 62*

- 898
- 899 1. Center for Medicare and Medicaid Services
 - 900 2. Georgia Hospital Discharge data, 2013 (Inpatient)
 - 901 3. Georgia Behavioral Risk Factor Surveillance Survey (BRFSS), 2013
 - 902

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904 **Cardiovascular Disease**

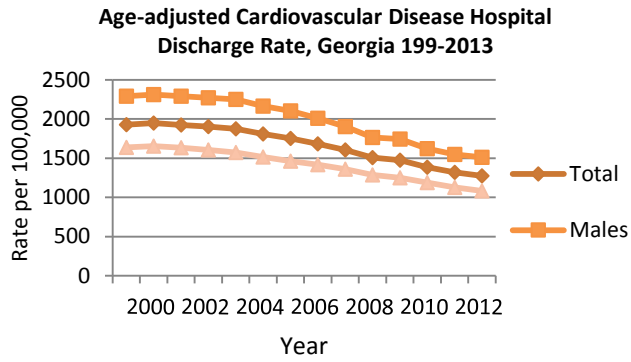
905
 906 Between 2000 and 2013, there were over 1.8 million cardiovascular disease (CVD) hospital
 907 discharges. During this time CVD hospitalization rate decreased in both males and females. In
 908 2013, the age-adjusted CVD hospitalization rate was 1509.3 per 100,000 persons accounting for
 909 over 125,000 CVD discharges. The age-adjusted hospitalization rate was highest among males
 910 (1509.3 per 100,000 persons) and blacks (1700.4 per 100,000 persons).

911
 912 From 2012 to 2013, the prevalence of CVD-related events* among Georgia adults was 8.2%.
 913 Among adults, the prevalence was highest among: Males (9.1% vs. 7.5% in females); NH whites
 914 (9.2% vs. 8.1% for NH blacks); those aged 75 years and older (30.0% vs. 0.7% for those aged
 915 18-24); those making less than \$25,000 per year (11.8% vs. 5.1% for those making \$50,000 or
 916 more per year); those with less than a high school education (12.9% vs. 4.6% for college
 917 graduates); those with an insurance plan (9.3% vs. 4.8% for those without an insurance plan)

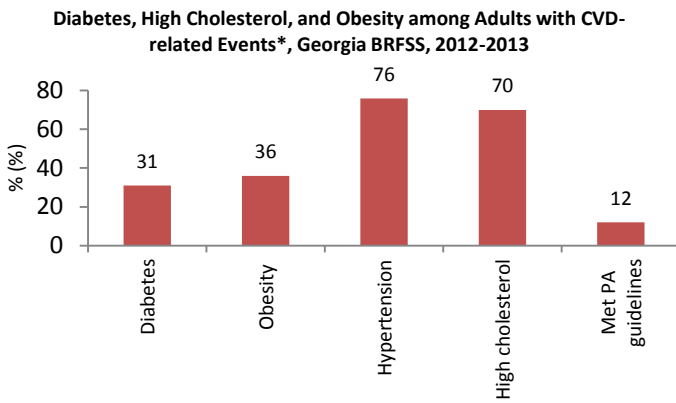
918
 919 Among Georgia adults with CVD-related events*, the prevalence of smoking was 19.7%
 920 (vs. 19.5% for adults without CVD-related events); Tobacco Use was 23.4% (vs. 22.5%);
 921 Diabetes was 30.8% (vs. 8.7%); Obesity was 35.9% (vs. 29.1%); Hypertension was 76.4% (vs.
 922 31.5%); High cholesterol was 69.6% (vs. 35.4%); Meeting physical activity recommendations
 923 was 12.4% (vs. 21.0%).

924
 925 *CVD-related events include individuals that were ever told they had a heart attack, angina, or
 926 stroke by a health professional.

Sociodemographic	CVD Prevalence (%)
Sex	
Males	9.1
Females	7.5
Race/Ethnicity	
Non-Hispanic White	9.2
Non-Hispanic Black	8.1
Hispanic	3.6
Age	
35-44 yr.	3.0
45-54 yr.	7.6
55-64 yr.	14.0
64-74 yr.	20.7
75+ yr.	29.9
Income	
Less than \$25,000	11.8
\$25,000-49,999	8.1
\$50,000 or more	5.1
Education	
Less than High School	12.9
High School Graduate	9.3
Some College	7.5
College Graduate	4.6



928
929 *Figure 63*
930



931
932 *Figure 64*
933

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934 **Stroke Hospitalization**

935

936 Stroke is a medical emergency and stroke hospitalization rate is a proxy measure for the
937 incidence of stroke in the general population. In the last ten years, from 2004 to 2013, the trend
938 shows a declining rate of stroke hospitalization in Georgia. This might be attributed to several
939 measures taken to reduce the prevalence of stroke risk factors such as smoking cessation and
940 better clinical care, particularly in hypertension control and lipid treatment.

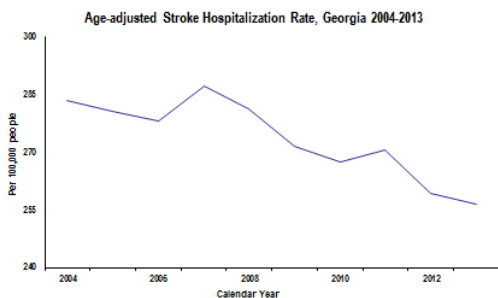
941

942 The hospitalization rate for stroke was higher among males than females at all age groups. The
943 difference in hospitalization rate by gender was similar for both whites and blacks; however,
944 relatively more blacks than whites were hospitalized for stroke comparing both male and female
945 groups, particularly in the younger age group (<65 yr.) where the rates double or triple.

946

947 Almost all (92%) stroke patients had one or more co-morbidity or risk factor at the time of
948 stroke diagnosis. According to the Georgia Coverdell Acute Stroke Registry (GCASR), 81%
949 of stroke patients had hypertension, 43% had dyslipidemia, 35% had diabetes and 23% had
950 coronary artery disease, 14% had atrial fibrillation/flutter and 22% smoked at the time of
951 their stroke event.

952 **TREND OVER TIME**



953

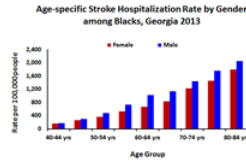
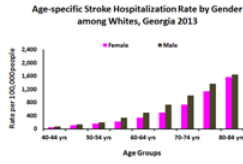
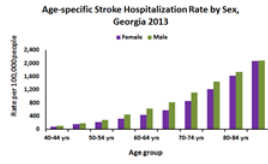
954 *Figure 65*

955 **DEMOGRAPHIC/EQUITY**

956

The 2000 US resident population is used for age adjustment.
ICD-9-CM Codes 432-434 and ICD-10 are used to identify stroke attribution.
Source: Georgia Department of Public Health, Office of Health Information Planning (OHIP).





The 2010 ICD standard classification is used for age adjustment.
ICD-CM Codes I63-64 and I69-22 are used to identify stroke admissions.
Source: Georgia Department of Public Health, Office of Health Indicators for Planning/OHIP.

957
958 *Figure 66*
959 BEHAVIORS

960 The most frequent co-morbidities among stroke patients, GCASR, 2013 (n=15,977)

Co-morbidity	%	
Hypertension	81%	902
Dyslipidemia	43%	963
Diabetes mellitus	35%	964
Coronary artery disease	23%	
Atrial fibrillation/flutter	14%	
Smoking	22%	

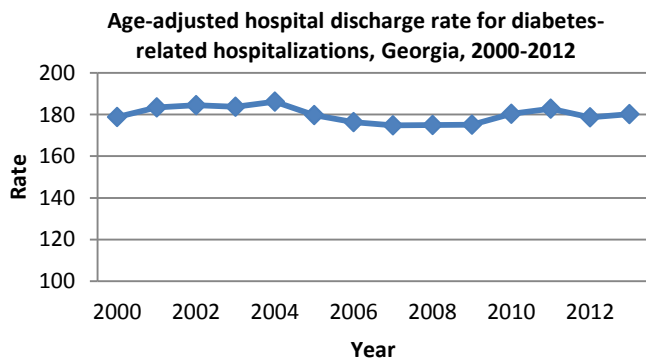
965 **Diabetes**

966 Between 2000 and 2013, there were 223,924 diabetes-related hospitalizations, in Georgia, with
 967 an age-adjusted rate of 179.1 per 100,000 persons. Among adults ≥ 18 years, the age-adjusted
 968 discharge rate was highest among males (182.3 per 100,000 persons) and NH blacks (323.7 per
 969 100,000 persons). The age-specific hospital discharge rate was highest among those ≥ 65 years
 970 (322.4 per 100,000 persons).

971
 972 From 2012 to 2013, the prevalence of diabetes among Georgia adults was 10.5%. The prevalence
 973 was highest among: those aged 65-74 (25.8% vs. 2.3% for those aged 18-24); Females (10.6%
 974 vs. 10.3% in males); NH blacks (12.5% vs. 9.7% for NH whites); less than high school graduates
 975 (14.3% vs. 7.5% for college graduates); those with insurance plan (11.5% vs. 6.8% for those
 976 without an insurance plan); and those making \$15,000 or less per year (13.1% vs. 7.8% for those
 977 making \$75,000 or more per year).

978
 979 Among Georgia diabetic adults, the prevalence of smoking was 15.9% (vs. 19.9% for non-
 980 diabetics); hypertension was 73.0% (vs. 30.2%); cholesterol was 68.4% (vs. 34.1%); overweight
 981 and obesity was 83.0% (vs. 62.7%); at least once daily fruit intake was 54.9% (vs. 56.5%); at
 982 least once daily vegetable intake was 72.9% (vs. 76.3%); and meeting physical activity
 983 recommendations was 40.1% (vs. 50.5%).

984



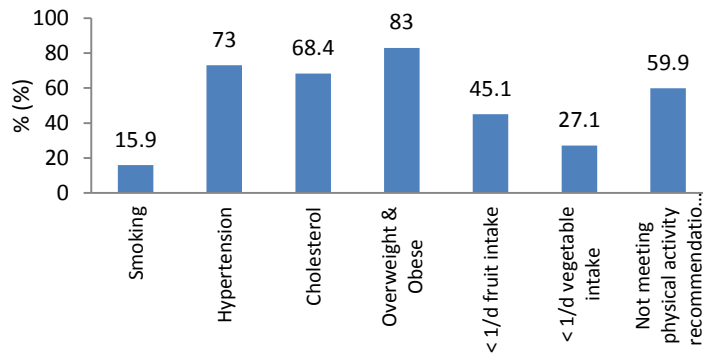
985

986 *Figure 67*

Sociodemographic	Diabetes Prevalence (%)
Age	
18 – 24 years	2.3
65 - 74 years	25.8
Sex	
Male	10.3
Female	10.6
Race	
NH White	9.7

NH Black	12.5
Education level	
<High school	14.3
College graduate	7.5
Insurance status	
Has insurance plan	11.5
No insurance plan	6.8
Household income level	
<\$15,000	13.1
≥ \$75,000	7.8

Prevalence of risk factors among Georgia diabetic adults - Georgia BRFSS, 2012-2013



987

988 *Figure 68*

989 1. Georgia Hospital Discharge data, 2000-2013, (Inpatient)

990 2. Georgia Behavioral Risk Factor Surveillance Survey (BRFSS), 2012-2013

991

992

993 **Chronic Disease Risk Factors**
994

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995 **Obesity**

996

997 Obesity is defined as having a body mass index (BMI) greater than or equal to 30.0 kg/m².

998 Obesity increases the risk of developing high blood pressure, diabetes, coronary heart disease,

999 stroke, high cholesterol, gallbladder disease and some types of cancers. Healthy People 2020

1000 target for obesity among adults is 30.5%. During 2012-2013, approximately 29.6% of Georgia

1001 adults were obese. Adults age 18-24 years (17.7%) were least likely to be obese when compared

1002 to adults age 25 years and older.

1003

1004 Among adults, obesity was higher in females (30.9%) than males (28.3%); Non-Hispanic Black

1005 (37.2%) were significantly more likely to be obese when compared to NH White (26.7%); those

1006 with no insurance coverage (31.2%); and those making \$25,000 or less (33.5%) than those

1007 making \$50,000 or more (26.9%) per year.

1008

1009 Obesity was less likely among adults with a college degree (23.7%) when compared to adults

1010 with less than a high school degree (31.6 %.).

Sociodemographic	Obesity Prevalence (%)	
Sex		1013
Males	28.3	1014
Females	30.9	1015
Race		1016
NH White	26.7	1017
NH Black	37.2	1018
Hispanic	29.1	1019
Insurance Status		1020
Insurance Coverage	29.2	1021
No Insurance Coverage	31.2	1022 1023
Household Income Level		1024 1025
Less than \$25,000	33.5	1026
\$25,000 - \$50,000	30.8	1027
Greater than \$50,000	26.9	1028 1029
		1030

1031

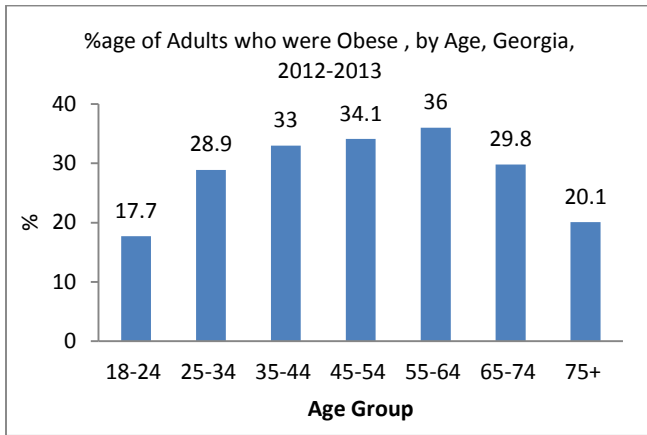
1032

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1034

1035

1036 AGE GROUP

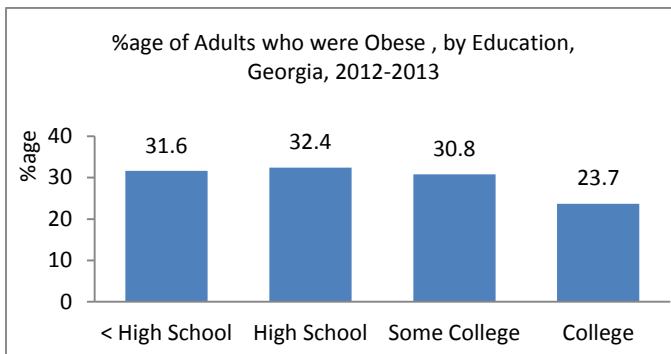


1037

1038 *Figure 69*

1039

1040 EDUCATION LEVEL



1041

1042 *Figure 70*

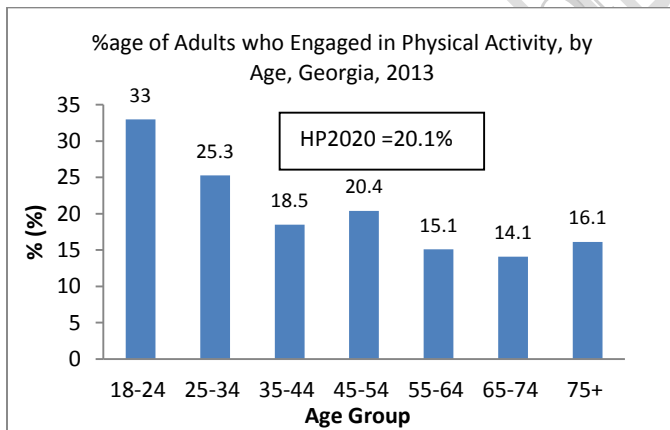
1043 **Physical Activity**

1044
 1045 The 2008 Physical Activity Guidelines for Americans recommends that adults and healthy older
 1046 adults should participate in moderate physical activity for at least 150 minutes per week,
 1047 vigorous physical activities for at least 75 minutes per week, or an equivalent combination of
 1048 both and to participate in muscle strengthening activities on two or more days a week. In 2013,
 1049 20.9% of Georgia adults met both the aerobic and muscle strengthening activities, while 27.2%
 1050 of Georgia adults reported no leisure time physical activity. The proportion of adults who
 1051 engaged in adequate physical activity decreases as age increases.

1052
 1053 Adult males (26.4%) were significantly more likely than females (16.8%) to engage in physical
 1054 activity. Hispanic (12.9%) adults were significantly less likely to engage in adequate physical
 1055 activity when compared to non-Hispanic White (21.5%) and non-Hispanic Black adults (21.7%).
 1056 In 2013, adults with incomes less than \$25,000 (15.9%) were less likely to engage in physical
 1057 activity.

1058
 1059 Georgia adults with less than high school education (12.5%) were significantly less likely to
 1060 engage in physical activity when compared to college graduate (27.4%).

1061
 1062 **AGE GROUP**



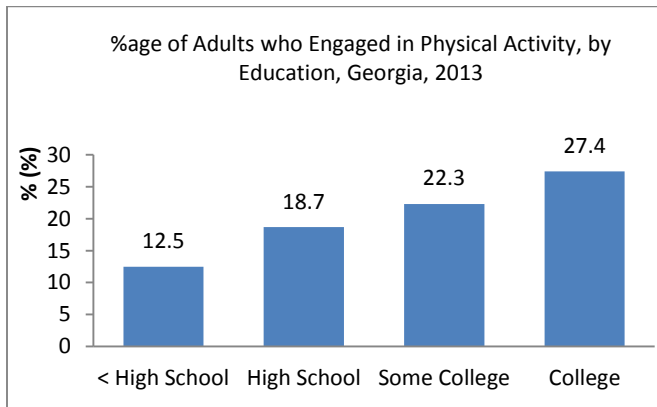
1063
 1064 *Figure 71*

1065 **DEMOGRAPHIC/EQUITY**

Sociodemographic	Adequate Physical Activity (%)
Sex	
Male	26.4
Female	16.8
Race	

NH White	21.5
NH Black	21.7
Hispanic	12.9
Insurance Status	
Has Insurance Coverage	20.8
No Insurance Coverage	18.5
Household Income Level	
Less than \$25,000	15.9
\$25,000 - \$50,000	19.5
Greater than \$50,000	24.9

1066



1067

1068

Figure 72

1069

1070

1071

Current Cigarette Use

1072

Cigarette smoking is one of the leading causes of preventable deaths in the United States and Georgia. Smoking is associated with deaths related to cancer, respiratory diseases, and cardiovascular diseases. About 10% of deaths among Georgia adults are linked to smoking.

1073

During 2013, approximately 19.6% of Georgia adults were current smokers.

1074

1075

Adult males (23%) were significantly more likely to currently smoke than females (16.4%).

1076

Non-Hispanic Whites (21%) were more likely to be current smokers than Non-Hispanic Blacks (18.3%) and Hispanics (16.4%). Adults who had health insurance (15.5%) were significantly less likely to currently smoke than adults without health insurance (33.5%); and adults with incomes less than \$25,000 (28.9%) were more likely to currently smoke cigarettes than those with an annual income of \$25,000 or higher.

1077

1078

1079

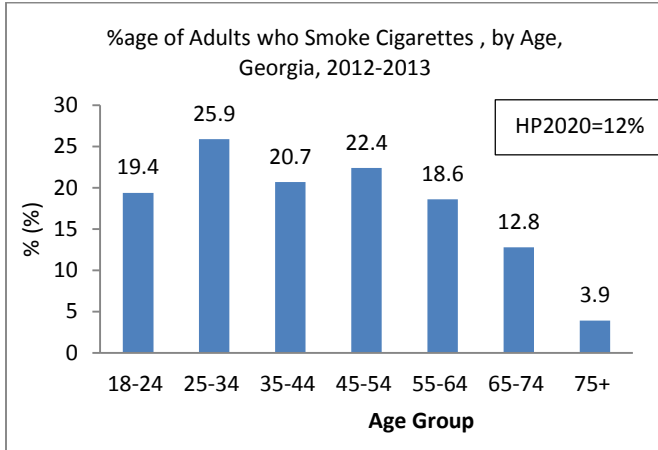
1080

1081

1082

1083
 1084 Georgia adults with less than a high school education (32.7%) were significantly more likely to
 1085 currently smoke cigarettes than college graduates (8.2%).
 1086

1087 **AGE GROUP**

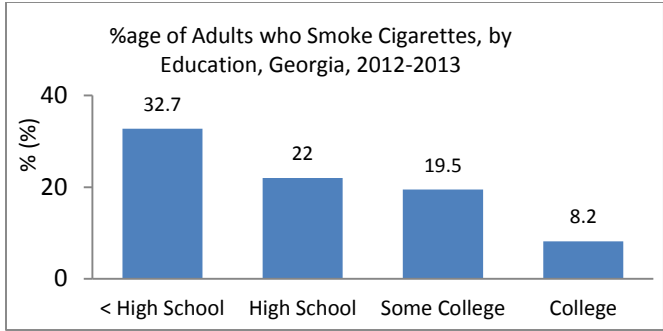


1088
 1089 *Figure 73*

1090
 1091 **DEMOGRAPHIC/EQUITY**

Sociodemographic	Currently Smoking (%)
Sex	
Male	23
Female	16.4
Race	
NH White	21
NH Black	18.3
Hispanic	16.4
Insurance Status	
Has Insurance Coverage	15.5
No Insurance Coverage	33.5
Household Income Level	
Less than \$25,000	28.9
\$25,000 - \$50,000	21
Greater than \$50,000	11.9

1092



1093
1094
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1096
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1099
1100
1101

Figure 74

Infectious Disease

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1102 **Infectious Disease: Pneumococcal Disease Death**

1103 Pneumococcal disease is caused by the bacterial pathogen *Streptococcus pneumoniae*; infections
1104 can be very severe and result in pneumonia, bacteremia, and meningitis.

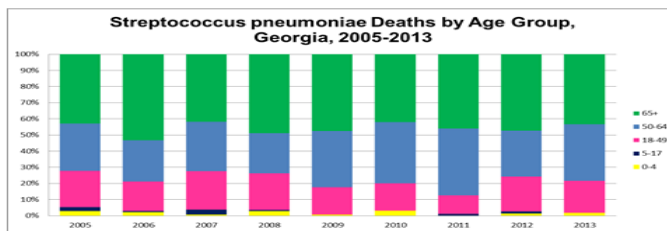
1105
1106 It is estimated that about one million US adults get pneumococcal pneumonia each year. About
1107 5% to 7% of them will die, and the death rate is even higher in those age 65 years and older.

1108
1109 Information about pneumococcal disease deaths collected via Georgia Notifiable Disease
1110 Surveillance and Emerging Infections Program data showed some fluctuations in both the
1111 number of deaths and the death rates during the period from 2005-2013, but overall, the rate
1112 trends were relatively stable other than a 2-year dip during 2011-12. To prevent deaths, vaccines
1113 are available and are recommended for routine use in children, adults age 65 years and older, and
1114 adults age 19 to 64 years with certain risk conditions.

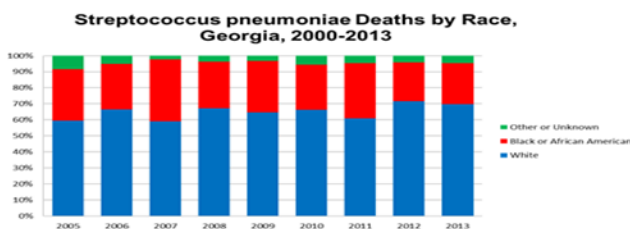
1115 Georgia notifiable disease data during 2005-2013 showed that the majority of pneumococcal
1116 deaths occurred among those 65 years and older, underscoring the critical importance of
1117 receiving a pneumococcal vaccine as recommended in this vulnerable population.

1118
1119 During 2000-2013, most pneumococcal deaths in Georgia occurred among Whites, but no
1120 significant differences were noted by gender (some years, males were slightly higher)

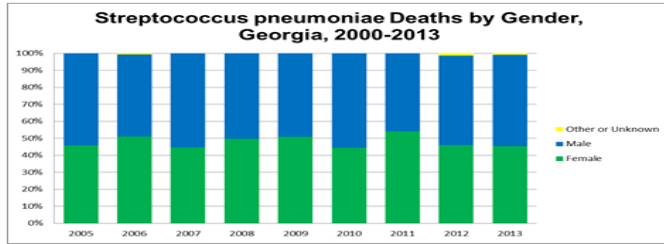
1121
1122 **DEMOGRAPHIC/EQUITY**



1123
1124 *Figure 75*



1125
1126 *Figure 76*
1127



1128

1129 *Figure 77*

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1131

1132

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1133 **Infectious Disease: Pneumonia and Influenza-Related Deaths**

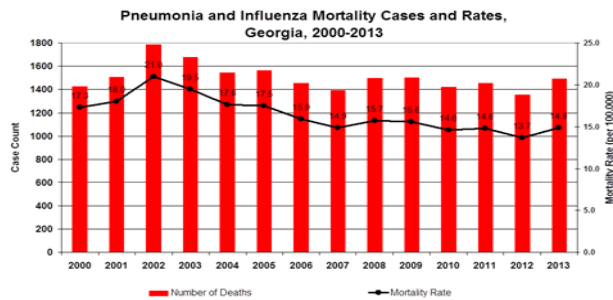
1134 Information about pneumonia and influenza-related deaths collected via Georgia death certificate
1135 data showed some fluctuations in both the number of deaths and the death rates during the period
1136 from 2000-2013, but overall, the rate trends were relatively stable. Note that these data do not
1137 capture ALL influenza deaths, do not differentiate pneumonia deaths from influenza-related
1138 deaths, and that they encompass all pneumonia etiologies. It is also important to note that, each
1139 influenza season varies in regards to the predominant circulating influenza strain; some influenza
1140 strains (like influenza A H3N2) are more likely to result in severe outcomes like death,
1141 especially among the elderly.

1142
1143 The CDC estimates that 90% of flu-related deaths occur in people age 65 and older.
1144 Information collected via Georgia death certificate data during 2000-2013 showed that the vast
1145 majority of pneumonia and influenza deaths (collectively) also occurred among those 65 years
1146 and older, underscoring the critical importance of receiving a seasonal influenza vaccine every
1147 year in this vulnerable population.

1148 During 2000-2013, most pneumonia and influenza-related deaths in Georgia occurred among
1149 Whites, but no significant differences were noted by gender (roughly half among males, half
1150 among females)

1151
1152
1153
1154
1155
1156

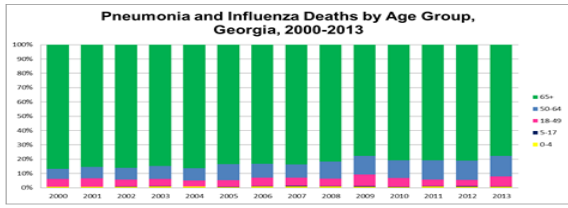
1157 **TREND OVER TIME**



1158 Source: Georgia Death Certificate System (DCS) (2000-2013), CDC WONDER, <http://wonder.cdc.gov>

1159 *Figure 78*

1160 **DEMOGRAPHIC/EQUITY**

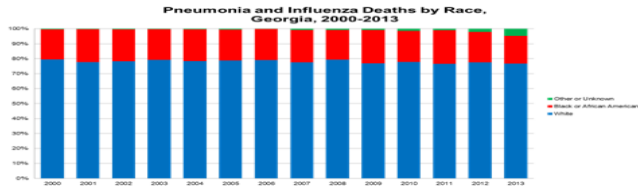


1161

Source: Centers for Disease Control and Prevention (2012). Pneumonia and Influenza Deaths by Age Group in Georgia, 2000-2013. Atlanta, GA: Centers for Disease Control and Prevention. http://www.cdc.gov/nchs/data/hestia/pneumonia_influenza_deaths_by_age_group_in_georgia_2000-2013.pdf

1162

Figure 79

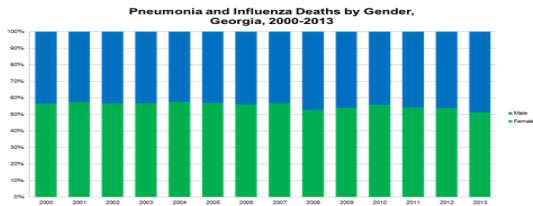


1163

Source: Centers for Disease Control and Prevention (2012). Pneumonia and Influenza Deaths by Race in Georgia, 2000-2013. Atlanta, GA: Centers for Disease Control and Prevention. http://www.cdc.gov/nchs/data/hestia/pneumonia_influenza_deaths_by_race_in_georgia_2000-2013.pdf

1164

Figure 80



1165

Source: Centers for Disease Control and Prevention (2012). Pneumonia and Influenza Deaths by Gender in Georgia, 2000-2013. Atlanta, GA: Centers for Disease Control and Prevention. http://www.cdc.gov/nchs/data/hestia/pneumonia_influenza_deaths_by_gender_in_georgia_2000-2013.pdf

1166

Figure 81

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1168

1169

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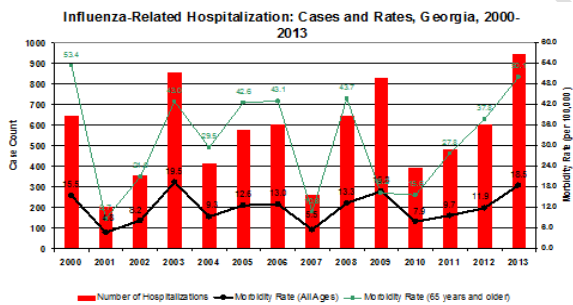
1171

1172 **Infectious Disease: Influenza Hospitalizations**

1173
1174 CDC reports that about 200,000 people in the U.S. are hospitalized with flu every year. Georgia
1175 hospital discharge data showed some wide fluctuations in the numbers and rates of influenza-
1176 related hospitalizations during the period from 2000-2013. This is because each influenza season
1177 varies depending on the predominant circulating influenza strain; strains like influenza A H3N2
1178 are more likely to result in more hospitalizations, particularly among the elderly, thus we see
1179 higher numbers in H3N2 years like 2013. Also note that the number of hospitalizations was quite
1180 high during the influenza A H1N1 pandemic of 2009-2010.

1181
1182 The CDC estimates that more than half of all flu-related hospitalizations occur in people age 65
1183 and older. Information collected via Georgia hospital discharge data during 2000-2013 showed
1184 that the majority of flu-related hospitalizations in Georgia also occurred among those 65 years
1185 and older, although this varied somewhat from year to year depending on the predominant
1186 circulation flu strain (for example, the 2009 pandemic H1N1 year differed). This underscores the
1187 critical importance of all seniors receiving a seasonal influenza vaccine every year.

1188
1189 During 2000-2013, most influenza-related hospitalizations in Georgia occurred among Whites,
1190 but no significant differences were noted by gender (roughly half among males, half among
1191 females).



1192 Source: Online Analytical Statistical Information System (OASIS), Georgia Department of Public Health, Office of Health Indicators for Planning (OHIP) <http://oasis.dph.state.ga.us/>

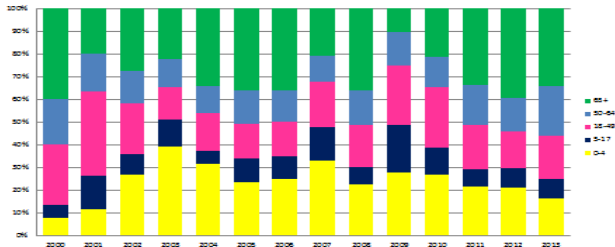


1193 **TREND OVER TIME**

1194 *Figure 82*

1195 **DEMOGRAPHIC/EQUITY**

Influenza Hospitalizations by Age Group (Years), Georgia, 2000-2013

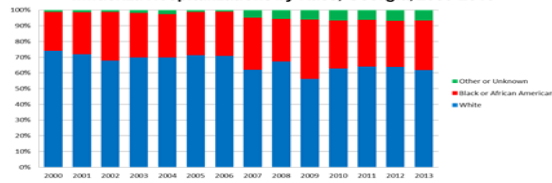


1196
1197

Figure 83

Source: Centers for Disease Control and Prevention (CDC) WONDER, Influenza Hospitalizations
Online Analytical Reporting Information System (OARIS), Georgia Department of Public Health, Office of Health Indicators for Planning (OHIP), <http://data.sph.ga.gov>

Influenza Hospitalizations by Race, Georgia, 2000-2013

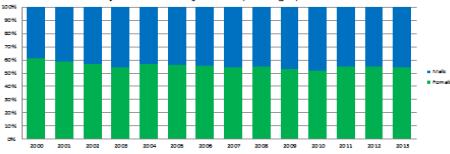


1198
1199

Figure 84

Source: Centers for Disease Control and Prevention (CDC) WONDER, Influenza Hospitalizations
Online Analytical Reporting Information System (OARIS), Georgia Department of Public Health, Office of Health Indicators for Planning (OHIP), <http://data.sph.ga.gov>

Influenza Hospitalizations by Gender, Georgia, 2000-2013



1200
1201
1202

Figure 85

Source: Online Analytical Reporting Information System (OARIS), Georgia Department of Public Health, Office of Health Indicators for Planning (OHIP), <http://data.sph.ga.gov>

1203 **Infectious Disease: Adult Immunization for Pneumococcal Disease**

1204

1205 Pneumococci account for up to 36% of adult community-acquired pneumonias. The case-fatality
1206 rate is 5% to 7% and may be much higher among elderly persons, underscoring the importance
1207 of pneumococcal vaccine among seniors.

1208

1209 A pneumococcal polysaccharide vaccine (PPV) targeting 23 of the most common serotypes of *S.*
1210 *pneumoniae* has been available since 1983. The Advisory Committee on Immunization Practices
1211 (ACIP) recommends that it be administered to all persons >65 years of age.

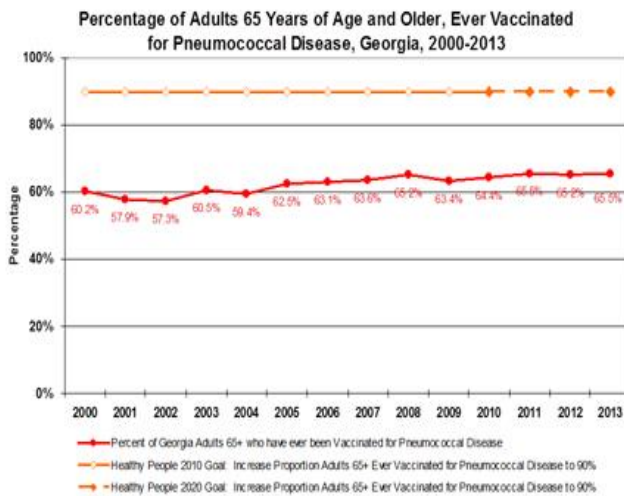
1212

1213 Data collected through the Georgia Behavioral Risk Factor Surveillance System (BRFSS) during
1214 the years 2000-2013 showed that about 60% to 65% of Georgia adults 65 years of age and older
1215 ever vaccinated for pneumococcal disease proportions well under the national Healthy People
1216 2010 and 2020 goals of having 90% of adults over 65 years vaccinated.

1217

1218

1219 **TREND OVER TIME**



1220

Source: Centers for Disease Control & Prevention, National Center for Chronic Disease Prevention and Health Promotion, Behavioral Risk Factor Surveillance System (BRFSS), <http://www.cdc.gov/BRFSS>

1221 *Figure 86*

1222

1223

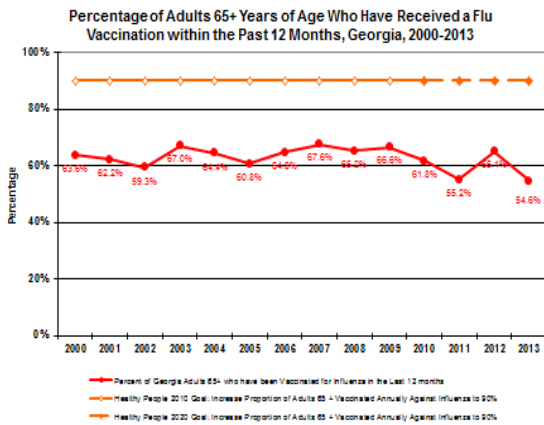
1224 **Infectious Disease: Adult Immunization for Seasonal Influenza**

1225

1226 Data collected through the Georgia Behavioral Risk Factor Surveillance System (BRFSS) during
1227 the years 2000-2013 showed that about 55% to 65% of Georgia adults 65 years of age and older
1228 were vaccinated against seasonal influenza in the last 12 months. These proportions are well
1229 under the national Healthy People 2010 and 2020 goals of having 90% of adults over 65 years
1230 vaccinated against flu every year.

1231

1232 **TREND OVER TIME**



1233

1234 *Figure 87*

1235

1236

1237

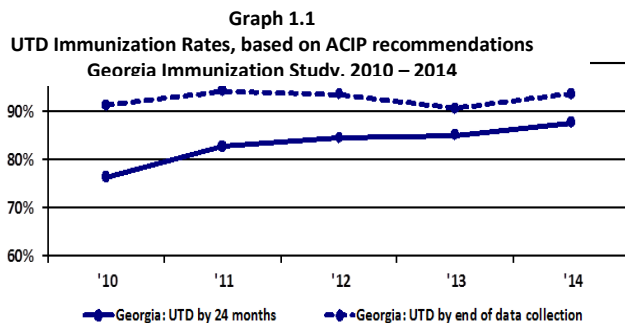
1238 **Immunizations**

1239
 1240 The goal of the Georgia Immunization Program is to reduce and ultimately eliminate the
 1241 incidence of vaccine preventable diseases by working in conjunction with public and private
 1242 health care providers throughout the state.

1243
 1244 Accomplishing this goal will require achieving and maintaining high vaccination coverage
 1245 levels, improving vaccination strategies among under vaccinated populations, prompt reporting
 1246 and thorough investigation of suspected cases and rapid institution of disease control measures.
 1247 Graph 1.1 (right) shows the up-to-date (UTD) immunization rate, based on Advisory Committee
 1248 for

1249
 1250 Immunization Practices (ACIP) recommendations, for the state of Georgia from the Georgia
 1251 Immunization Study (GIS). Two different rates were collected: one to see the UTD
 1252 immunization rate by 24 months of age, and the other after the six-month data collection period,
 1253 which included follow-ups with the parent or guardian. This period served as a reminder-recall to
 1254 have kids caught up on their vaccines. Table 1.1 (right) shows the UTD immunization rate by
 1255 24 months of age, for children in the state of Georgia, stratified by race and ethnicity, from
 1256 the 2014 GIS. Our total sample size was 2,243 children. Other combinations of race and
 1257 ethnicity were either combined or left out due to small sample sizes. Table 1.2 (right) shows
 1258 the frequency of reasons for incomplete immunizations by end of data collection. The top
 1259 reasons for incomplete immunizations are shown to be ‘Delayed by Parent’ (41), ‘Missed
 1260 Appointments/Convenience Issue’ (31) and parental Refusal’ (24) of certain or all vaccines.

1261
 1262 **TREND OVER TIME**



1264
 1265 *Figure 88*

1266
 1267 **DEMOGRAPHIC/EQUITY**

1268

Table 1.1

	UTD Immun.
Race/Ethnicity (n=2243)	Rate by 24

	months of age
White, non-Hispanic (n=967)	85.8%
White, Hispanic (n=77)	90.9%
Black (n=808)	87.3%
Unspecified, Hispanic (n=171)	91.2%
Asian (n=58)	94.8%
Multiracial (n=31)	93.5%

1269 BEHAVIORS

1270

Table 1.2

Frequency of Reasons for Incomplete Immunizations by End of

Reason for Incomplete (n=2243)	No. of people
Delayed by Parent	41
Delayed by Physician	10
Medical Exemption	1
Missed Appts./Convenience Issue	31
Other	20
Parental Refusal	24
Religious Exemption	14
Temporary Vaccine Shortage	3

1271

1272

1273

1274

1275 **Sexual Transmitted Disease**

1276

1277

1278

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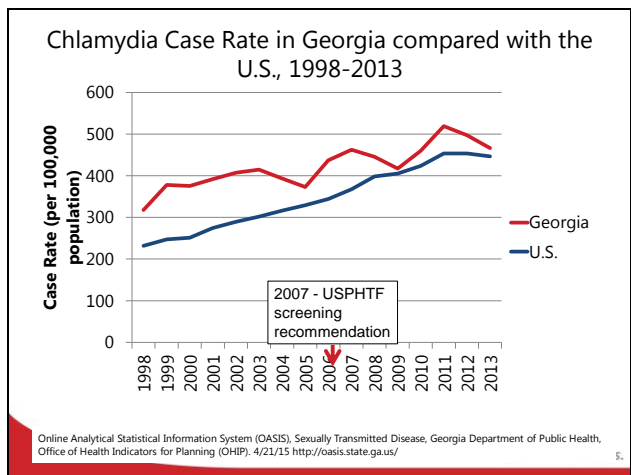
1279 **Chlamydia**

1280 Chlamydia data does not necessarily represent the prevalence of the disease, but instead the level
1281 of screening for the disease as well as the introduction within the last few years of more sensitive
1282 testing available. It is a disease that often presents without immediate symptoms but can cause
1283 infertility over the long term, so that is why screening is recommended for all sexually active
1284 women under 25 years.

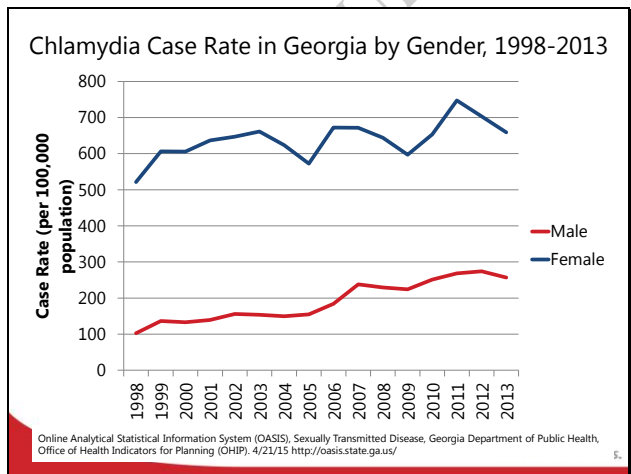
1285
1286 Females have a much higher rate of Chlamydia because of the screening recommendation that all
1287 sexually active women under 25 get screened annually for Chlamydia.

1288
1289 Chlamydia appears to be mainly affecting black, non-Hispanic women, although there are many
1290 cases with unknown race/ethnicity because many of the cases are reported by labs and may not
1291 include this information.

1292 TREND OVER TIME

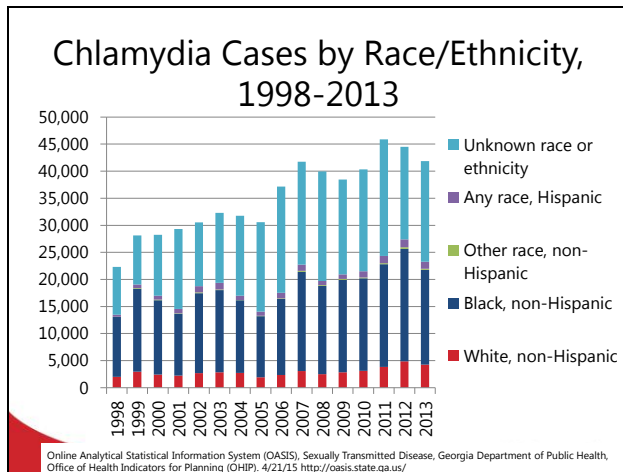


1293
1294 *Figure 89*



1295
1296 *Figure 90*

1297 DEMOGRAPHIC/EQUITY



1298

1299 *Figure 91*

1300

DRAFT FOR PUBLIC COMMENT - NOT FORMATTED

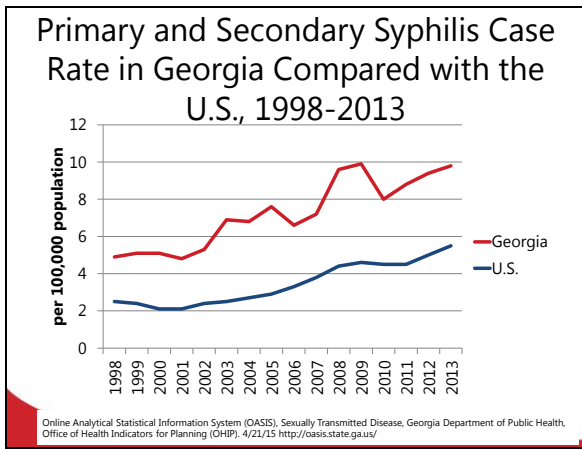
1301 **Syphilis**

1302 Primary and secondary syphilis are the infectious stages of syphilis and are therefore the most
1303 important cases to interview and find and treat partners in order to prevent further transmission.
1304 After a low point in the 90's where elimination was discussed, there has been a steady rise in
1305 cases. The main forces causing the increase seem to be an increase in the use of internet sites to
1306 find anonymous partners and increases seen in the MSM population.

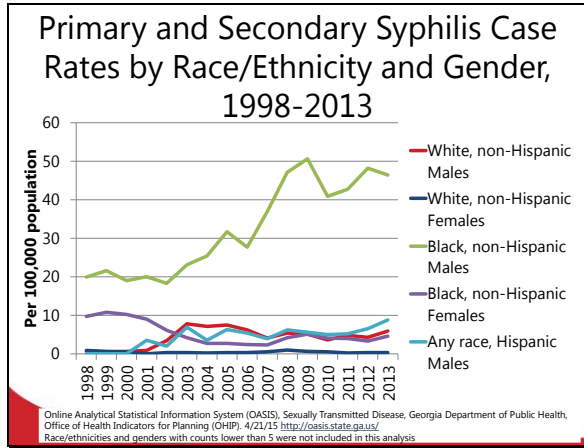
1307
1308 Across the country, it appears black, non-Hispanic males are most affected by primary and
1309 secondary syphilis and have shown increased case counts over the past several years.

1310
1311 There was a low of congenital syphilis cases in Georgia during 2005, but then a rise through
1312 2013. There have been 2 to -21 cases each year through this range. The case definition for
1313 congenital syphilis does not necessarily count if the child was born with symptoms of the
1314 disease, but instead measures if there was a missed opportunity that kept the mother from being
1315 treated correctly before the child's birth. CDC has estimated only four women have to be
1316 diagnosed with syphilis before there is a congenital case, so that is why women of reproductive
1317 age are one of the priorities for case follow-up.

1318
1319 TREND OVER TIME



1320
1321 *Figure 92*

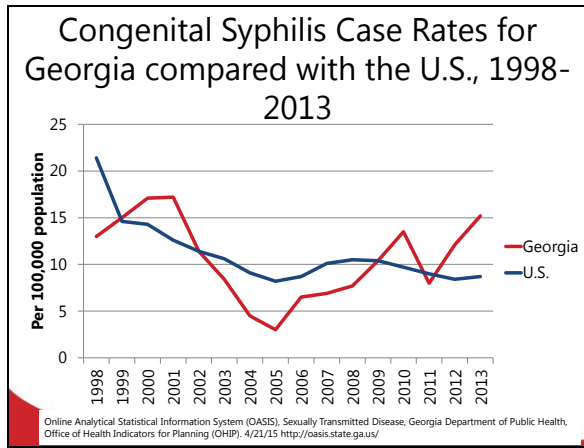


1322

1323

Figure 93

1324 DEMOGRAPHIC/EQUITY



1325

1326

Figure 94

1327

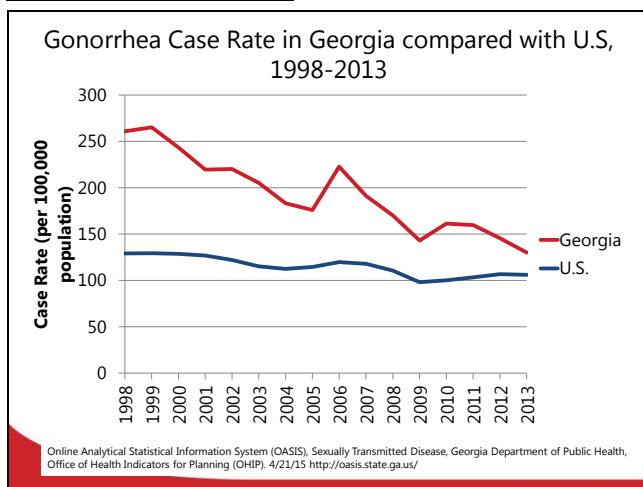
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1328 **Gonorrhea**

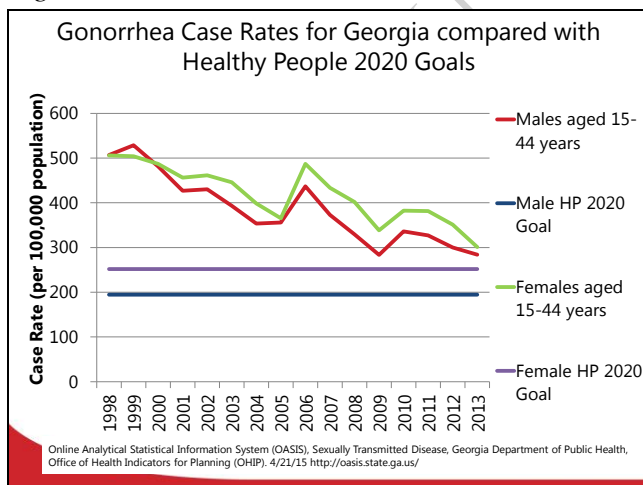
1329 In Georgia, gonorrhea case rates have decreased over the past 15 years but they are still above
1330 the U.S. case rate. Gonorrhea case rates have been dropping over the past 15 years and are
1331 approaching the Healthy People 2020 Goals.
1332

1333 Gonorrhea primarily affects those age 15 to 24 years. There are new screening recommendations
1334 to ensure sexually active women under 25 years old are screened annually for gonorrhea. There
1335 is also a push for doctors to screen Men who have Sex with Men (MSM) for gonorrhea on a
1336 semi-annual or annual basis because it is more prevalent in that population. DPH does not
1337 normally capture this data for gonorrhea cases.
1338

1339 **TREND OVER TIME**

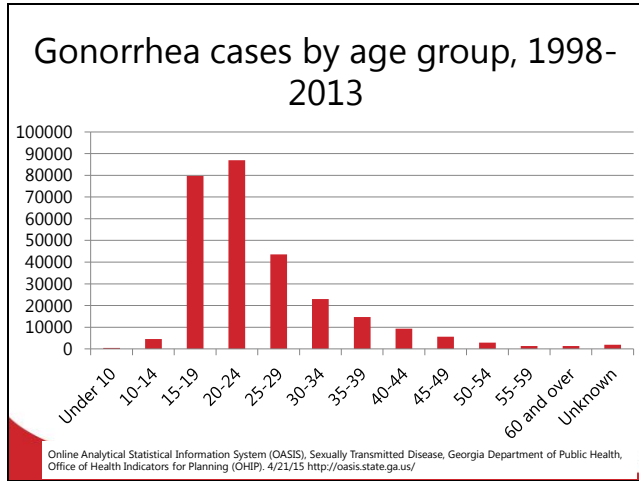


1340
1341 *Figure 95*



1342
1343 *Figure 96*

1344
1345
1346 **DEMOGRAPHIC/EQUITY**



1347
1348
1349

Figure 97

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1350 **HIV Prevention Program**

1351

1352 The HIV Prevention Program coordinates the Statewide HIV Prevention Planning Group,
1353 develops and implements the Georgia HIV Prevention Plan, coordinates the HIV testing program
1354 and data reporting for the state, and provides capacity building and training for community
1355 partners and public health staff

1356

1357 Figure 1 shows new HIV diagnoses and persons living with HIV between 2007 and 2013. New
1358 HIV diagnoses include all new diagnoses, including when the initial diagnosis is at the time of
1359 AIDS. New diagnoses have slightly declined during this time period. In contrast, the number of
1360 persons living with HIV has increased steadily. This increase in prevalence is the result of
1361 effective therapies which have greatly extended the life expectancy of persons with HIV. Figure
1362 2 shows substantial disparities in new diagnoses of HIV in 2013 by race/ethnicity. These
1363 disparities are longstanding. Figure 3 shows the HIV/AIDS mortality rate in Georgia, overall,
1364 and by race/ethnicity, and the US rate. The Georgia rate is higher than the US rate, reflecting the
1365 higher rate of HIV in Georgia compared to the nation as a whole. The graph also highlights
1366 substantial disparities by race/ethnicity.

1367

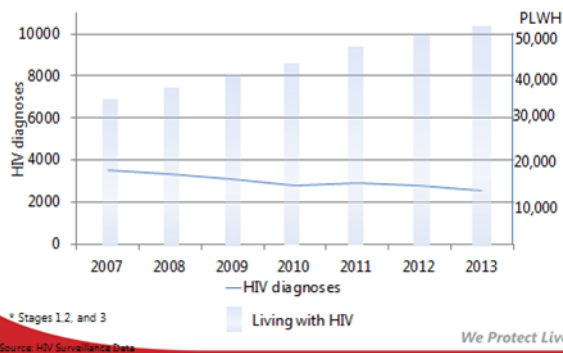
1368

1369

1370

1371 TREND OVER TIME

New HIV diagnoses*, and Persons Living with HIV (PLWH), Georgia 2007-2013

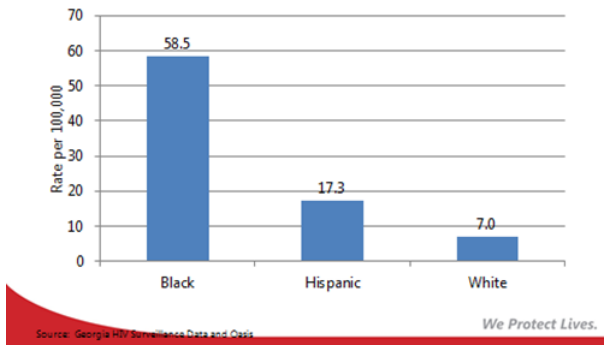


1372

1373 *Figure 98*

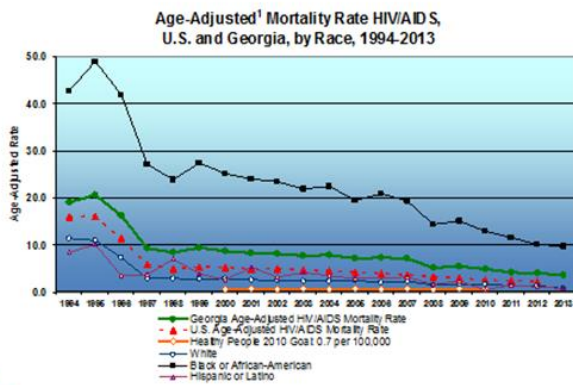
1374 DEMOGRAPHIC/EQUITY

New HIV Diagnoses by Race/Ethnicity, rates per 100,000 population, Georgia 2013



1375
1376
1377

Figure 99



1378
1379
1380
1381

Figure 100

1382 **Environmental Health**

1383 **Lead Poisoning Prevention**

1384 The mission of the Georgia Healthy Homes and Lead Poisoning Prevention Program
1385 (GHHLPPP), in keeping with the proposed Healthy People 2020 objectives, is to eliminate
1386 childhood lead poisoning in Georgia. We strive to reach this goal by informing the public about
1387 housing hazards that can cause unsafe or unhealthy environments; Prevent injury and illness
1388 through monitoring, education, assessment and provision of direct services; and Protect all
1389 generations of Georgians by ensuring that each home is safe and healthy. Since 1994, the
1390 GHHLPPP has partnered with the 18 public health districts to ensure case management of
1391 children with elevated blood lead levels (EBL), provide education and training, and assign cases
1392 to EHS certified as Lead Inspector/Risk Assessors for environmental inspections and risk
1393 assessments.

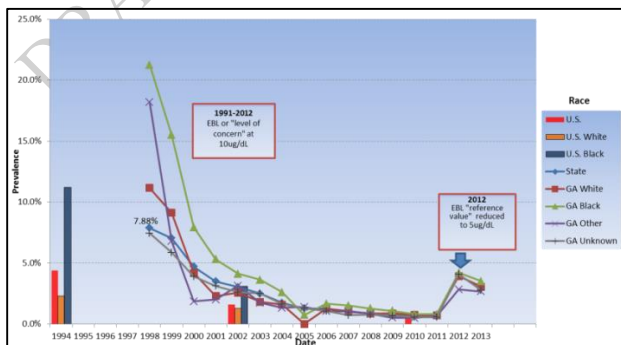
1394
1395 In the last 40 years, the blood lead levels of children have dropped significantly in the U.S. due
1396 to prevention efforts of public health agencies. However, research shows there is no safe blood
1397 lead level in children and low level chronic exposure results in negative health outcome for
1398 children. According to the Centers for Disease Control (CDC), over 535,000 children ages 1 to 5,
1399 in the United States have elevated blood lead levels (EBL) greater than the CDC reference level
1400 of 5 micrograms per deciliter (ug/dL).

1401 To ensure the highest risk children are targeted for prevention efforts, the GHHLPPP program
1402 utilizes census and Medicaid data with GIS technology to identify and target high risk areas of
1403 the state, generally pre-1978 rental housing, where children are potentially being exposed to lead.
1404 This important step protects the health of many children by allowing DPH to target lead
1405 prevention activities for the highest risk children.

1406
1407 The following trend graphs demonstrate that Georgia's elevated blood lead prevalence and
1408 geometric mean have decreased over time compared to national data. While this is considered a
1409 success, there is continued focus to eliminate lead poisoning in Georgia.

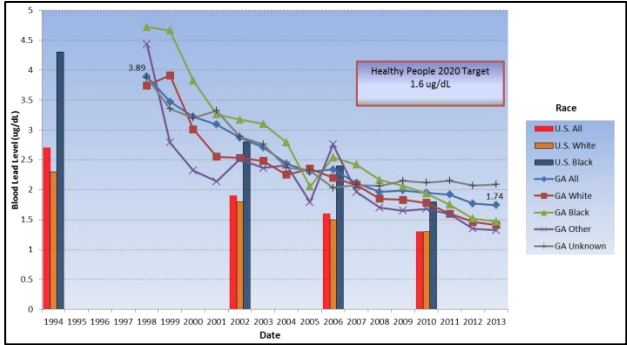
1410
1411 **TRENDS OVER TIME**

1412 **Elevated Blood Lead Prevalence by Race GA, Age 1-5, 1998-2013**



1413

1414 *Figure 101*
1415 Source: STELLAR Database, DPH
1416 Blood Lead Geometric Mean by Race GA, Age 1-5, 1998-2013



1417
1418 *Figure 102*
1419 Source: STELLAR Database, DPH

1420
1421
1422
1423

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1424 **Arboviral Disease Surveillance in Georgia**

1425 The mission of the Public Health Entomology program is to Inform the public of hazards and
1426 disease associated with insect and other arthropod pests of public health importance; Prevent
1427 illness or infestation through monitoring, assessment, education, and collaboration with partners;
1428 and Protect the public from risks associated with insects and other arthropods of public health
1429 importance Three arboviral diseases are currently endemic in Georgia: LaCrosse Encephalitis,
1430 Eastern Equine Encephalitis, and West Nile virus.

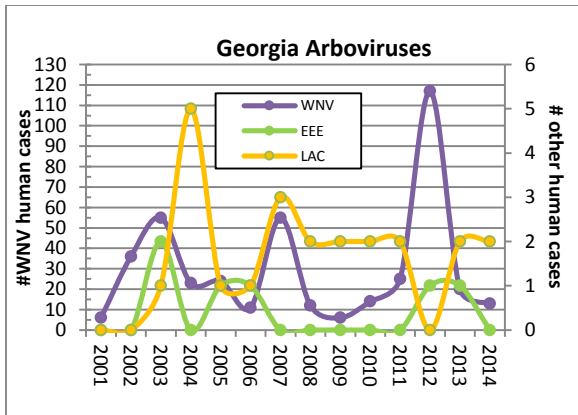
1431
1432 Eastern equine encephalitis virus (EEE) is transmitted to humans by the bite of any number of
1433 different infected mosquitoes. This virus is maintained in birds and is endemic in South Georgia.
1434 The primary vector for La Crosse encephalitis virus (LAC) is *Ochlerotatus triseriatus*, the
1435 treehole mosquito. This virus is maintained in small mammals such as chipmunks and squirrels.

1436
1437 West Nile virus (WNV) is a mosquito-borne viral pathogen that was introduced into the United
1438 States in 1999. Within four years following its initial detection in New York, WNV was detected
1439 in states from the East and West coasts as well as in Mexico and Canada. The presence of WNV
1440 in Georgia was first confirmed in July 2001 when an American crow from Lowndes County
1441 tested positive for the virus. West Nile virus is maintained in birds and the primary mosquito
1442 vector in Georgia is *Culex quinquefasciatus*.

1443 In 2014, Georgia reported 13 cases of WNV, with 1 death. There were no viremic blood donors
1444 reported.

1445
1446 The average age of cases was 53 years (range 9-86). The average age of those with WNV
1447 neurologic illness was 49 years (range 9-76). Nine (69.2%) of the 13 cases were male. The
1448 majority of cases were reported in July, August, and September. No horses tested positive for
1449 WNV in 2014, but 7 horses tested positive for EEE. No birds were reported as being submitted
1450 for testing in 2014. A total of 5,038 pools of mosquitoes (107967 individuals) were sent for
1451 testing with results reported to the DPH. Mosquitoes found WNV+ (56 pools) were *Aedes*
1452 *albopictus* and *Culex quinquefasciatus*, as well as unidentified *Culex* spp; the mosquito species
1453 most commonly found positive (96.4%) was *Cx quinquefasciatus*. In addition to WNV, 2 pools
1454 were found to be EEE+ (Lowndes & Chatham counties). The following trends demonstrate
1455 surveillance activities over time.

1456 **TREND OVER TIME (GA) 2001-2014**

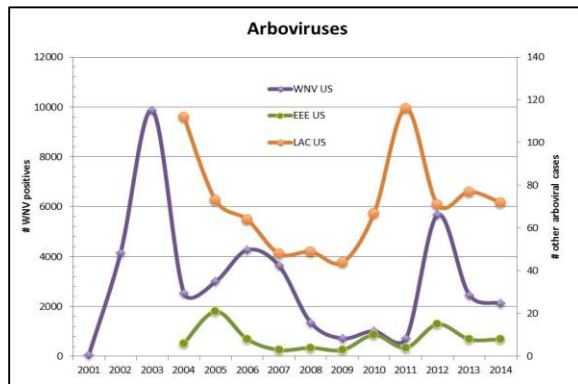


1457

1458 *Figure 103*

1459 Source: OASIS, DPH

1460 **TRENDS OVER TIME (US) 2001-2014**



1461

1462 *Figure 104*

1463 SOURCE: OASIS, DPH

1464

1465

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1466 **Food Service Program**

1467

1468 Foodborne illness in the United States is a major cause of personal distress, preventable death,
1469 and avoidable economic burden. The Centers for Disease Control and Prevention (CDC)
1470 estimates that each year roughly 1 in 6 Americans (or 48 million people) get sick, 128,000 are
1471 hospitalized, and 3,000 people die of foodborne diseases. Food can become contaminated by
1472 bacteria, viruses, chemicals or physical objects and with the threat of terrorism, it is more
1473 important than ever for public health to educate and work with operators to ensure the safety of
1474 our food supply.

1475

1476 The mission of the Department of Public Health (DPH) Food Service program is to minimize
1477 foodborne related illnesses by: Informing the public of foodborne-related hazards; Preventing
1478 foodborne-related illness through monitoring, assessments, and education; and Protecting the
1479 public from risks associated with foodborne illness. Georgia requires all food service
1480 establishments to be permitted and inspected by county health departments utilizing the
1481 Department of Public Health Rules and Regulations for Food Service Establishments.

1482

1483 Environmental health specialists (EHS) are responsible for conducting routine risk-based
1484 inspections, providing food safety education, investigating food-borne related complaints and
1485 illnesses, and enforcing the DPH Rules and Regulations for food service establishments for more
1486 than 30,000 food service establishments in the state.

1487

1488

1489 **RISK FACTORS**

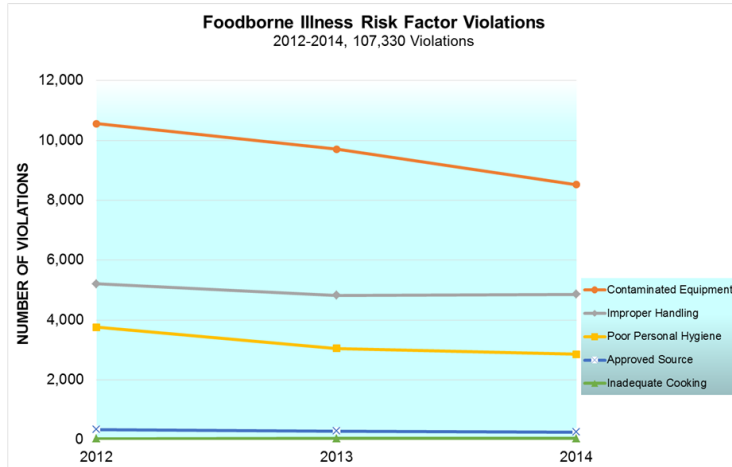
1490 The CDC has designated five broad categories of risk factors contributing to foodborne-related
1491 outbreaks: Improper holding temperatures; Inadequate cooking; Food from unsafe sources; Poor
1492 personal hygiene, and; Contaminated equipment. These risk factors have been identified by the
1493 CDC through epidemiological data as the most prevalent contributing factors of foodborne
1494 illness or injury.

1495 The performance metric for this program is reducing the number of citations for the CDC's top 5
1496 designated violations made during inspections by 10%.

1497 The following graph demonstrates the risk factors cited over time from 2012-2014.

1498

1499 **TRENDS OVER TIME 2012-2014**



1500
1501 *Figure 105*

1502
1503 Source: Digital Health Department, Environmental Health Section, DPH

1504
1505
1506
1507
1508
1509

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1510 **Onsite Sewage Management System Program**

1511

1512 According to the Centers for Disease Control and Prevention, one of the top 10 major public
1513 health achievements in this country is the control of infectious diseases from management of
1514 wastewater. Georgia requires all onsite sewage management systems (OSSM) to be permitted
1515 and inspected by the local county health department utilizing the Department of Public Health
1516 Rules and Regulations for On-site Sewage Management Systems. The mission of the OSSM
1517 system program is to minimize health problems related to untreated human sewage by:
1518 Informing the public of potential health hazards associated with onsite septic systems; Preventing
1519 illness through education, monitoring, assessment, and enforcement; and Protecting the public by
1520 managing science based standards and ensuring a competent workforce. It is estimated there are
1521 over 1.5 million OSSM systems in the state and management of these systems is crucial because
1522 properly functioning OSSM systems protect state waters.

1523 **Onsite Sewage Management System Failures**

1524

1525 When OSSM systems fail within the first five years, it is generally recognized that the problems
1526 are related to poor installation, lack of maintenance, inappropriate system type, improper site
1527 evaluations and/or system abuse. It is important to know the age of systems at the time of failure
1528 and to identify the potential causes of failure, so that proper repairs can be made.

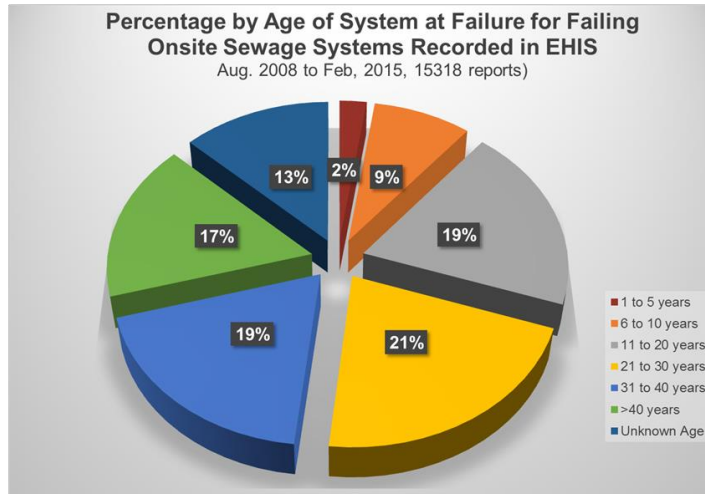
1529

1530 The program established a performance metric to measure the % of OSSM system failures age 5
1531 years or less with a target of no more than 1% of system failure. Preventing system failure within
1532 this age range will help protect public health and save the homeowner time and costly repairs of
1533 their OSSM system.

1534 The following chart demonstrates that from 2008-2015, approximately 2% of systems failed
1535 within the first five years and Georgia's overall estimated failure rate is approximately 1.7% as
1536 reported to the Environmental Protection Agency. This is significantly less than national failure
1537 rates of 10-20 % as reported by E.P.A.

1538

1539 **TRENDS OVER TIME**



1540



1541

1542 *Figure 106*

1543 Source: Digital Health Department, Environmental Health Section, DPH

1544 Public Pool, Spa, and Recreational Water Park Program

1545

1546 The mission of the Public Pool program is to minimize illnesses and injuries by: Informing the
 1547 public of recreational water-related hazards; Preventing waterborne illness and injury through
 1548 monitoring, assessments, and education; and Protecting the public from recreational waterborne
 1549 illness and injury risks with contaminated or hazardous conditions in or around swimming pools.
 1550 According to the United States Census Bureau, swimming is the 3rd most popular U.S. sport or
 1551 exercise activity, with over 314 million visits to recreational venues annually. Swimming
 1552 provides fun and exercise to all ages, but swimming pools and spas must remain safe and clean
 1553 for all to enjoy. All public pools in Georgia are permitted and inspected by the local county
 1554 health departments utilizing a combination of Georgia Department of Public Health or local
 1555 health department rules and regulations.

1556

1557 **Pool Closures**

1558 The local county health department closes a public pool when there are imminent or substantial
 1559 health hazards found during an inspection. The act of closing a pool is an enforcement option
 1560 that is not taken lightly by an EHS. A permit suspension or voluntary closure immediately
 1561 protects the health and safety of any resident, tourist or guest from exposure to the hazard or
 1562 health risk. Violations that may result in a substantial health hazard such as an illness, injury or
 1563 death are identified as critical public health risk factors. Violation of these risk factors requires
 1564 immediate action to be taken to reduce the hazard.

1565

1566 **RISK FACTORS**

1567 From 2012-2014, operators not maintaining an adequate amount of disinfectant in the pool water
1568 is the most commonly cited critical violation. Disinfectants kill and reduce disease causing
1569 microorganisms likes viruses, bacteria and parasites in the pool water.

1570

1571 The performance metric for this program is reducing the number of critical disinfectant residual
1572 violations cited during inspections by 10%.

1573

1574 The following graph demonstrates the risk factors cited from 2012-2014.

1575

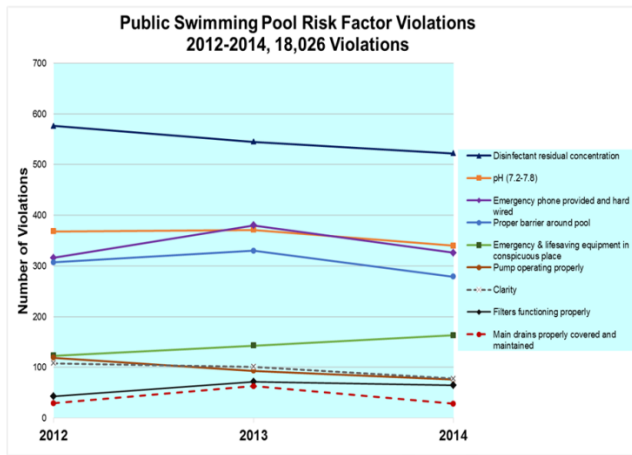
1576

1577

1578

1579 TRENDS OVER TIME 2012-2014

1580



1581

1582 *Figure 107*

1583

1584

1585 Source: Digital Health Department, Environmental Health Section, DPH

1586

1587

1588 **Tourist Accommodation Program**

1589

1590 The mission of the DPH Tourist Accommodation program is to minimize illnesses and injuries
1591 associated with unsanitary or hazardous conditions by: Informing the public of lodging-related
1592 hazards; Preventing illness and injury through monitoring, assessments, and education; and
1593 Protecting the public from risk associated with food-waterborne illness and unsanitary
1594 conditions. Tourism in Georgia is the second leading industry in the state, earning \$34 billion
1595 dollars in revenue annually. Millions of people visit our state for its national and state parks,
1596 urban centers, historic sites, beautiful mountains and scenic coast.

1597

1598 Georgia requires all tourist accommodations to obtain a permit and post inspection reports
1599 completed by the local county health department Environmental Health Specialists. The
1600 Department of Public Health (DPH) develops and maintains rules and regulations to ensure that
1601 the health and safety of its citizens and visitors are protected during their stay in a facility.
1602 Environmental Health Specialists inspect Tourist Accommodations a minimum of two times a
1603 year focusing on risk factors that contribute to illness and injury. Local EHS assign a grade and
1604 identify corrective actions necessary for compliance with the Department of Public Health’s
1605 rules and regulations. This inspection gives the public and operator an indication of the overall
1606 condition of the hotel, campground or bed and breakfast inn.

1607

1608 **RISK FACTORS**

1609 The performance metric for this program is reducing the number of critical and housing public
1610 health risk factor violations cited during inspections by 20%.

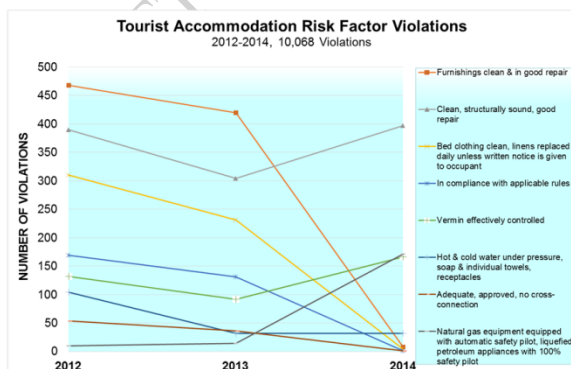
1611

1612 In 2014, DPH updated its tourist rules to focus on risk factors that contribute to illness and injury
1613 and extensive training was provided to all EH staff. This may explain the significant changes in
1614 critical and housing public health risk factors cited in the following graph. The following graph
1615 demonstrates the risk factors cited from 2012-2014.

1616

1617

1618 **TRENDS OVER TIME 2012-2014**



1619

1620 *Figure 108*

1621 Source: Digital Health Department, Environmental Health Section, DPH

1622

1623

1624

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DRAFT FOR PUBLIC COMMENT - NOT FORMATTED

1626 **Injury Prevention**

1627 The mission of the Georgia Injury Prevention Program is to prevent injuries by empowering state
 1628 and local coalitions through the provision of data, training, and leadership, and the leveraging of
 1629 resources for prevention programs. There are intentional and unintentional mechanisms of injury
 1630 across the lifespan. At this time the work of IPP, which is largely funded through grants, is
 1631 focused on unintentional injury.

1632
 1633 Motor Vehicle Crashes (MVC) have traditionally lead all types of injury, both intentional and
 1634 unintentional, however in many states Prescription Drug Overdose (unintentional) and
 1635 suicide/assault (intentional) are competing for the top spots.

1636
 1637 Prescription Drug Overdose is an emerging issue in the field of Injury Prevention. According to
 1638 the CDC, the amount of pain killers prescribed has more than quadrupled since 1999. For the
 1639 first time, an injury topic is overtaking motor vehicle deaths. This has not happened in fifty
 1640 years. Georgia is working with partners on more effective pain management practices, PDMP,
 1641 and other policies to reduce deaths from prescription drug overdose.

1643 Source: CDC WISQARS

Rank	Age Groups											Total	
	<1	1-4	5-9	10-14	15-24	25-34	35-44	45-54	55-64	65+	All Ages		
1	Short Gestation 1,935	Unintentional Injury 437	Unintentional Injury 412	Unintentional Injury 485	Unintentional Injury 4,680	Unintentional Injury 4,991	Unintentional Injury 4,669	Heart Disease 4,637	Heart Disease 12,900	Heart Disease 19,959	Heart Disease 114,461	Heart Disease 163,198	1644
2	Congenital Anomalies 1,786	Homicide 354	Malignant Neoplasms 137	Malignant Neoplasms 117	Homicide 1,612	Homicide 1,611	Heart Disease 4,637	Heart Disease 4,637	Heart Disease 12,900	Heart Disease 19,959	Heart Disease 114,461	Heart Disease 163,198	1645
3	SIDS 1,170	Congenital Anomalies 151	Homicide 53	Homicide 70	Heart Disease 1,382	Heart Disease 1,382	Heart Disease 4,637	Heart Disease 4,637	Heart Disease 12,900	Heart Disease 19,959	Heart Disease 114,461	Heart Disease 163,198	1646
4	Maternal Pregnancy Comp. 516	Malignant Neoplasms 65	Congenital Anomalies 41	Heart Disease 65	Malignant Neoplasms 430	Heart Disease 1,185	HIV 2,488	Cerebrovascular 2,384	Cerebrovascular 3,659	Chronic Low Respiratory Disease 2,363	Chronic Low Respiratory Disease 2,363	Chronic Low Respiratory Disease 2,363	1647
5	Respiratory Disease 434	Heart Disease 69	Heart Disease 38	Congenital Anomalies 56	Heart Disease 416	Malignant Neoplasms 1,145	Heart Disease 1,145	Heart Disease 1,145	Heart Disease 1,145	Heart Disease 1,145	Heart Disease 1,145	Heart Disease 1,145	1648
6	Unintentional Injury 33	Influenza & Pneumonia 34	Benign Neoplasms 18	Heart Disease 18	Heart Disease 140	HIV 1,038	Heart Disease 1,038	Heart Disease 1,038	Heart Disease 1,038	Heart Disease 1,038	Heart Disease 1,038	Heart Disease 1,038	1649
7	Bacterial Sepsis 285	Septicemia 29	Septicemia 16	Benign Neoplasms 18	HIV 127	Diabetes Mellitus 220	Diabetes Mellitus 220	Diabetes Mellitus 220	Diabetes Mellitus 220	Diabetes Mellitus 220	Diabetes Mellitus 220	Diabetes Mellitus 220	1650
8	Hicants Cord Membranes 237	Perinatal Period 24	Chronic Low Respiratory Disease 15	Chronic Low Respiratory Disease 18	Cerebrovascular 72	Cerebrovascular 201	Cerebrovascular 201	Cerebrovascular 201	Cerebrovascular 201	Cerebrovascular 201	Cerebrovascular 201	Cerebrovascular 201	1651
													1652

Figure 110

Source: CDC WISQARS

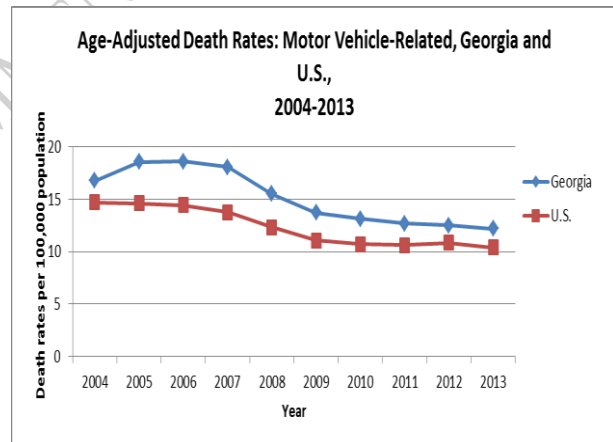
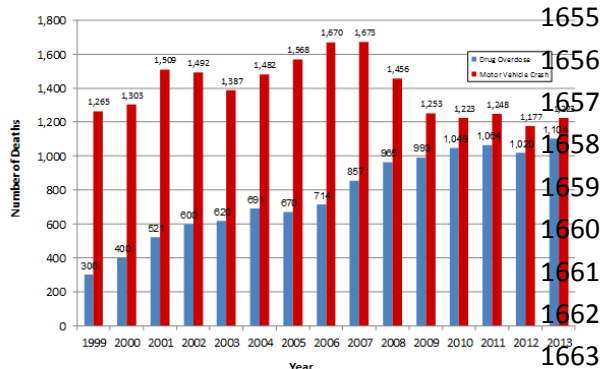


Figure 109

1653 **Deaths Related to Drug Overdose and Motor Vehicle Crashes, Georgia Residents, 1999-2013**



Drug Overdose uses ICD-10 X40-Y44, Y89-Y84 and Y10-Y14 (found in any cause); MVC = underlying cause only.
 Source: Georgia Department of Public Health, Office of Health Indicators for Planning, Death Files accessed 08/13/2015.

Figure 111

1664 Motor Vehicle Crashes: Child Occupant Safety
 1665 Fifty children ages 0-10 years die annually in Georgia and over 1,700 are injured each year.
 1666 In the 5-7 years age group, 46% were riding in a seatbelt during fatal crash. For children under
 1667 age 10 who died, 52% were riding in the front seat and 73% of those were between the ages of 5-
 1668 7 years.

1669
 1670 This graph demonstrates that children are still going into a seat belt too early. This data for
 1671 earlier years indicated the intersection of restraint use and seat belt use was around 3 years of
 1672 age. As booster seat use increases the intersection of these lines moves towards the older ages.
 1673 The blue line is the child safety seat use and the pink line seat belt use. Between 4 and 5 years of
 1674 age is when children switch to being restrained in a seat belt only. The green line is using no
 1675 restraint systems and line is constantly unchanged for all ages. The red dotted lines shows the
 1676 Georgia Child Restraint Law improvements by ages.

1677
 1678 What Works: Specific to child passenger safety and prevention of injuries, the CDC recommends
 1679 the following findings to assist communities in developing prevention programming:

- 1680 • Use of child safety seats
- 1681 • Laws mandating use of child safety seats
- 1682 • Community-wide and law enforcement campaigns
- 1683 • Distribution programs with educational components on the importance of correct use

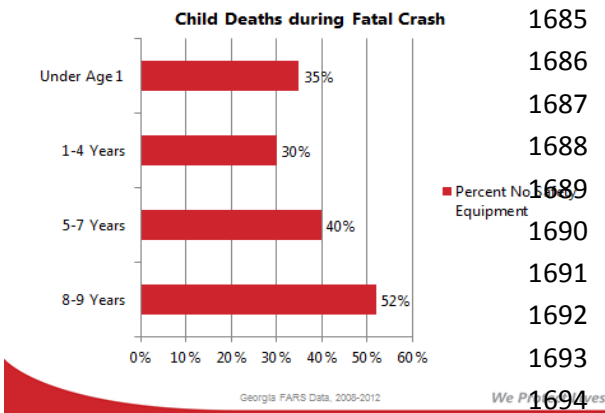


Figure 113

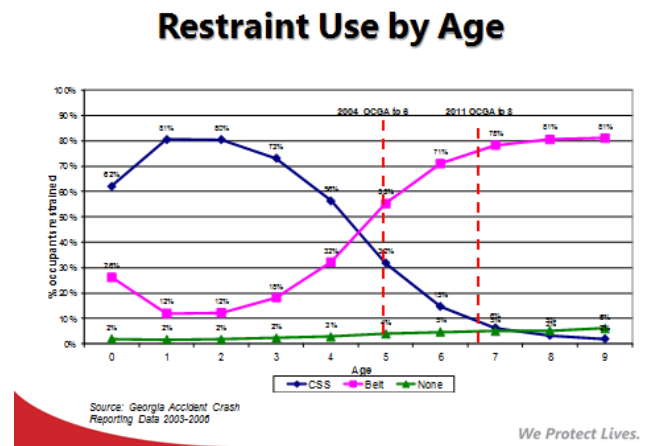
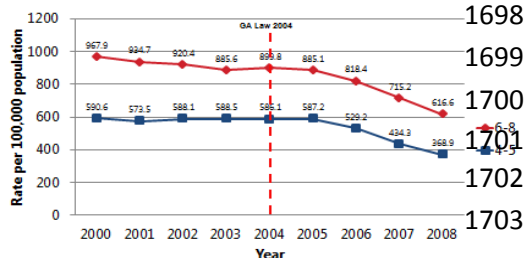


Figure 112

1696
1697

Crash Injury Rates for Children 4 to 8



Source: Georgia Accident Crash reporting Data 2000-2008

Figure 114

1704
1705

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1706 Motor Vehicle Crashes: Older Driver Safety

1707 From 2009-2013, the death rate resulting from motor vehicle crashes was highest among
 1708 Georgians age 65 years and older followed by youth and young adults ages 15-24 years. Overall,
 1709 males were more likely than females to die from motor vehicle crashes.

1710
 1711 From 2009-2013, the rates of hospitalization resulting from motor vehicle crashes were highest
 1712 among Georgians age 85+, followed by young adults ages 15-24 years. The hospitalization rate
 1713 from motor vehicle crashes was higher among males (116.1 per 100,000 population) than among
 1714 females (22.8 per 100,000 population) for all age groups. Persons of other races (114.0 per
 1715 100,000 population) were more likely to be hospitalized than Whites and Blacks (Figure 16). The
 1716 lack of proper seat belt training among other races could be a risk factor.

1717
 1718 Nationwide, older drivers tend to crash less. Older adults drive familiar routes and restrict their
 1719 driving to daylight hours. They might also take a longer route to avoid a left turn. Georgia's
 1720 Older Driver Task Force was convened in 1987 in response to the GOHS Strategic Highway
 1721 Safety Plan. This task force has led efforts to improve outcomes by training engineers in
 1722 improved traffic design, training physicians to talk to their elderly patients and their families
 1723 about driving safety, and raising awareness about safety. In 2008, Georgia was one of only seven
 1724 states selected for the National Center on Senior Transportation Award.

1725
 1726 Source: OASIS, GaDPH

Source: OASIS, GaDPH

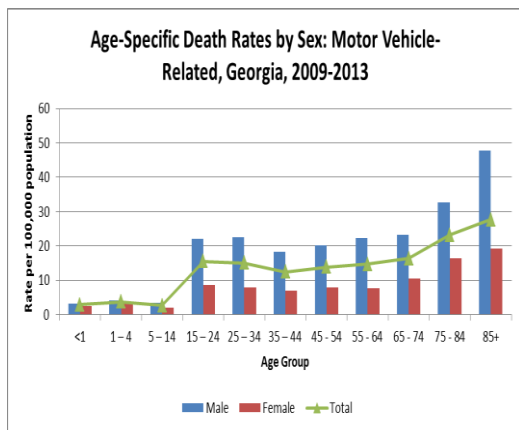


Figure 117

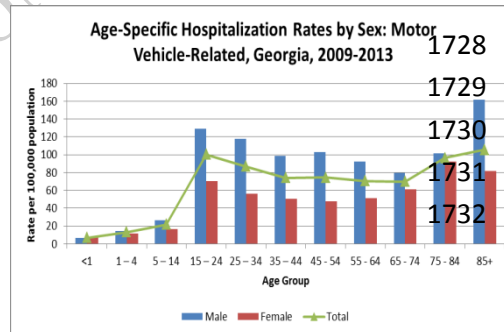


Figure 116

Older Drivers Tend to Have Fewer Crashes

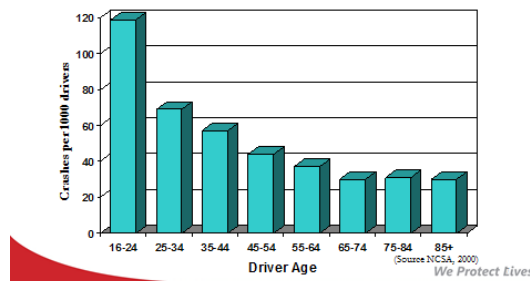


Figure 115

1733 **Sleep-Related Infant Death**

1734
 1735 Sudden infant death syndrome (SIDS) rates declined considerably from 130.3 deaths per 100,000
 1736 live births in 1990 to 39.7 deaths per 100,000 live births in 2013. Most of this drop occurred
 1737 between 1992 and 2001. Since 2001, there has been little change. Accidental suffocation and
 1738 strangulation in bed (ASSB) mortality rates remained unchanged until the late 1990s. Rates
 1739 started to increase beginning in 1998 and reached the highest rate at 20.8 deaths per 100,000 live
 1740 births in 2013.

1741
 1742
 1743 The death rate for African-American infants due to sleep-related circumstances in Georgia has
 1744 been almost twice that of White infants for many years. However, the death rates for other
 1745 external causes of injury, with the exception of motor vehicle crashes, are nearly identical
 1746 between African-American children and White children. Young mothers with low educational
 1747 attainment are also at a higher risk for experiencing a sleep-related infant death.
 1748
 1749 Nearly half of the deaths have occurred in an adult bed (47%). Eighty-three percent (83%) of the
 1750 deaths occurred among infants younger than five months.

1751
 1752 Source: OASIS, GaDPH

SOURCE: OASIS, GADPH

Trend Over Time

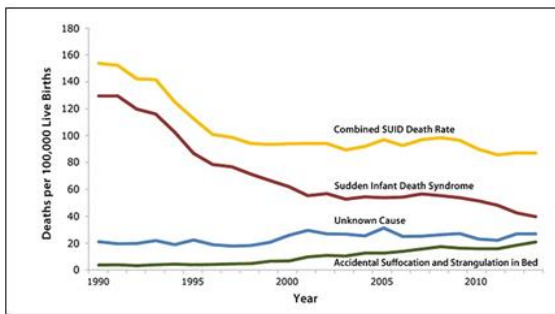


Figure 118

Demographic/Equity

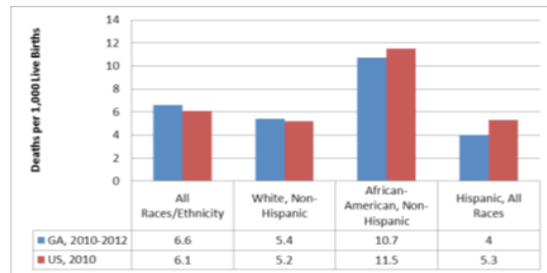


Figure 119

1753
 1754 Source: OASIS, GaDPH

Behaviors

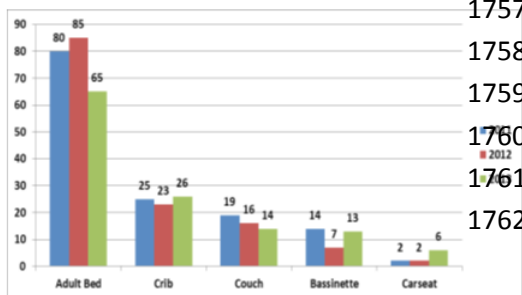


Figure 120

1763
1764
1765
1766
1767
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1769

DRAFT FOR PUBLIC COMMENT - NOT FORMATTED

1770 **Older Adult Falls Prevention**

1771 Fall-related injuries resulting from slipping, tripping,
 1772 or stumbling accounted for 21% of deaths. However,
 1773 half of death certificates did not indicate the type of
 1774 fall. Most fall-related deaths involved injuries to the
 1775 head, followed by injuries to the hip and thigh and to
 1776 the neck. In Georgia, 43% of persons who died as a
 1777 result of a fall suffered a traumatic brain injury (TBI)
 1778 compared to 50% of individuals in the U.S. In Georgia,
 1779 TBI was the primary or associated diagnosis in 3% of
 1780 all causes of death and 11% of all TBI fatalities.

Source: OASIS, DPH

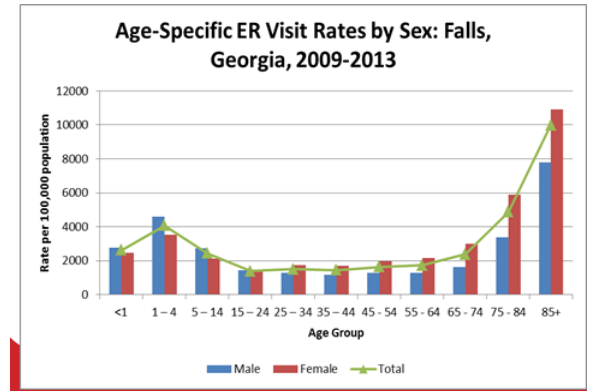


Figure 121

1783 Whites had an overall relatively higher fall-related death rate than African-Americans or other
 1784 racial groups, both among males and females, particularly in the elderly.

1785 The CDC recommends the following to prevent falls in elderly adults:

1786 Regular exercise

1787 Doctor or pharmacist’s review of medications (to reduce side effects and interactions)

1788 Annual eye exams

1789 Home lighting improvements

1790 Reduction of hazards in the home that can lead to falls

1791

1792 Source: OASIS, DPH

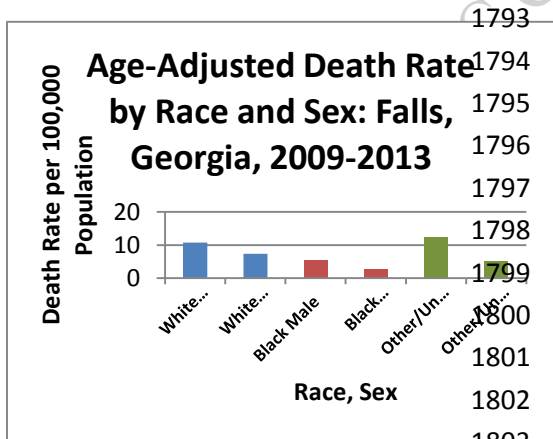


Figure 123

1805 Overall, death rates from drowning in Georgia were
 1806 slightly higher than the U.S. from 2004 to 2011. The
 1807 death rates in Georgia and the U.S. began to decrease
 1808 after 2011.

1809

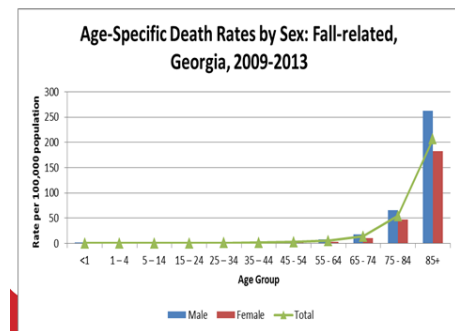


Figure 122

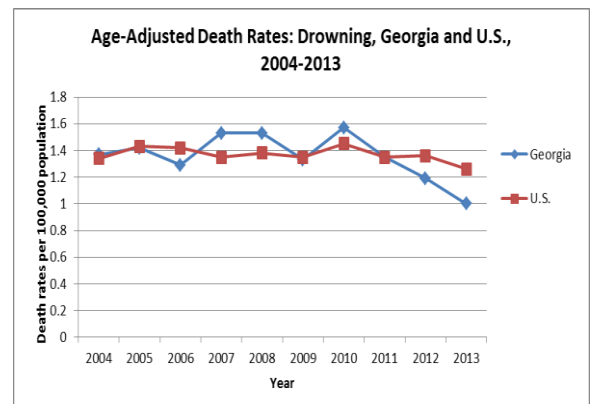


Figure 124

1810 Death rates for males were higher than those for females among Whites, Blacks, and the other
 1811 race category. Males from the other/unknown race category had the highest drowning death rates
 1812 (2.5 per 100,000 population) followed by black males (2.0 per 100,000 population).

1813
 1814 A total of 564 fire-related deaths occurred in Georgia between 2009 and 2013, an average of 113
 1815 deaths per year. More Whites (57%) died from fire-related injuries than Blacks (41%).
 1816 However, the age-adjusted death rate from fire-related injuries was twice as high in Blacks (2.1
 1817 per 100,000 population) than in Whites (1.0 per 100,000 population). More males (~60%) died
 1818 from fire-related injuries than females (~40%). The highest number of fire-related deaths was
 1819 seen in adults ages 45-84 years (See Table 20 in Appendix A). Fire-related death rates were
 1820 highest among persons age 85 years and older (Figure 41).

1821
 1822 Source: OASIS, DPH

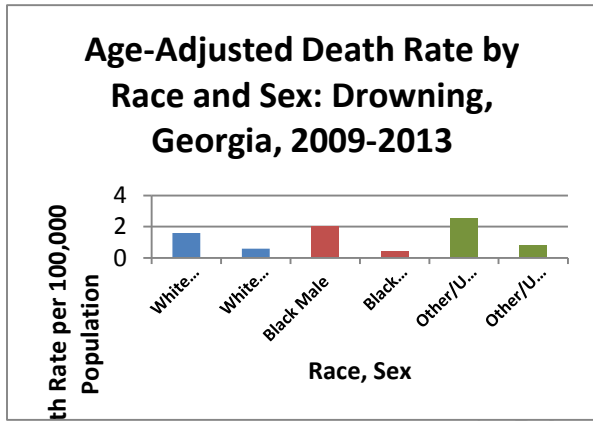


Figure 125 1823

Source: OASIS, GaDPH

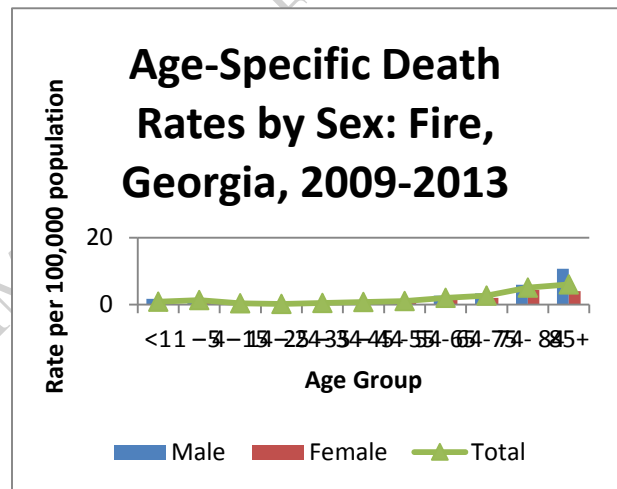


Figure 126

1824
 1825
 1826 Source: OASIS, DPH

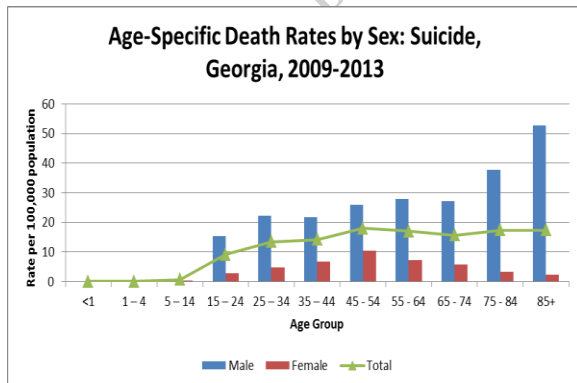


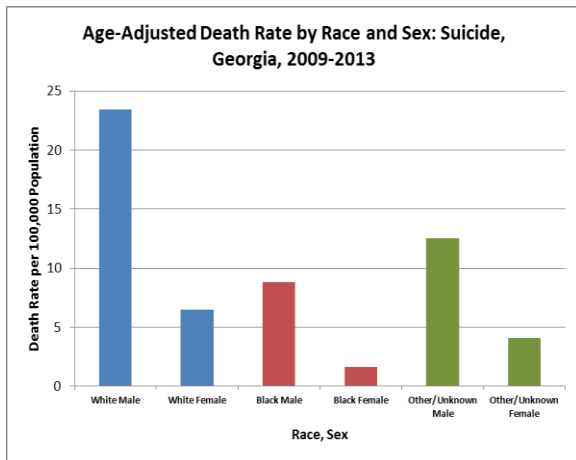
Figure 127 1828
 1829

1830

1831 Suicide is the leading cause of violence-related death, and the eleventh leading cause of overall
1832 deaths in Georgia (CDC WISQARS). During 2009-2013, there were 5,664 suicides in Georgia,
1833 an average of 1,133 deaths per year. The majority of suicides were Whites (84%), and males
1834 (78%).

1835
1836 The suicide rate was over four times greater for males (19.0 per 100,000 population) than for
1837 females (4.8 per 100,000 per population). Whites (15.3 per 100,000 population) were more likely
1838 than Blacks (5.0 per 100,000 population) and people of other races (6.9 per 100,000 population)
1839 to die from suicide.

1840



1841

Figure 1.22 Source: OASIS, DPH

1843

1844

1845

1846

1847

1848

1849

1850

1851

1852

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1854 Access to Care in Georgia

1855 According to the State Office of Rural Health, there are currently approximately 6,100
1856 designated Health Professional Shortage areas (HPSAs) across the state of Georgia. Primary
1857 Care HPSAs are based on a physician to population ratio of 1:3,500. In other words, when there
1858 are 3,500 or more people per primary care physician, an area is eligible to be designated as a
1859 primary care HPSA. Applying this formula, it would take approximately 8,200 additional
1860 primary care physicians to eliminate the current primary care HPSA designations. While the
1861 1:3,500 ratio has been a long standing ratio used to identify high need areas, it is important to
1862 note that there is no generally accepted ratio of physician to population ratio.

1863

1864 Furthermore, primary care needs of an individual community will vary by a number of factors
1865 such as the age of the community's population. Additionally, the formula used to designate
1866 primary care HPSAs does not take into account the availability of additional primary care
1867 services provided by Nurse Practitioners and Physician Assistants in an area.

1868

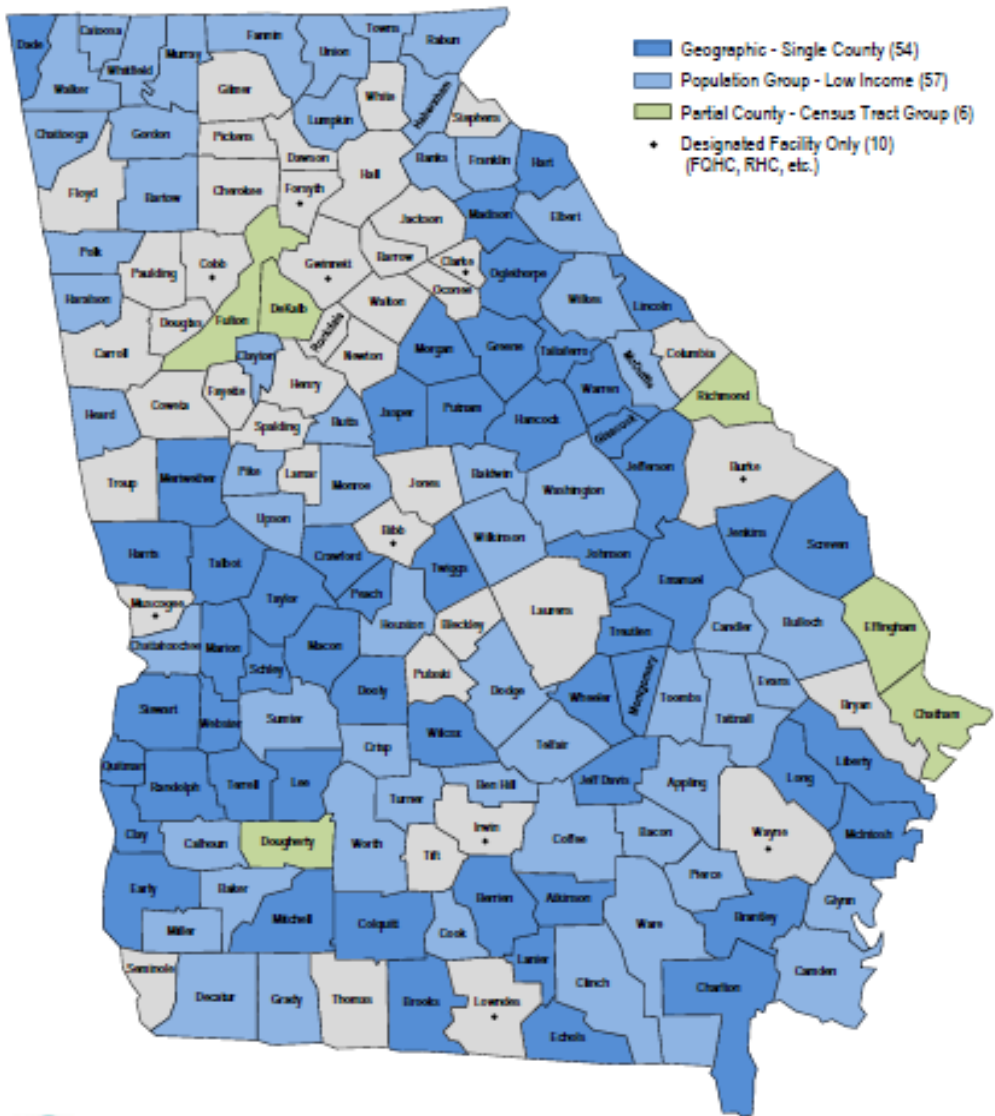
1869 There currently are approximately 4,900 Dental HPSAs. Dental HPSAs are based on a dentist to
1870 population ratio of 1:5,000. In other words, when there are 5,000 or more people per dentist, an
1871 area is eligible to be designated as a dental HPSA. Applying this formula, it would take
1872 approximately 7,300 additional dentists to eliminate the current dental HPSA designations

1873

DRAFT FOR PUBLIC COMMENT NOT FOR MATTER

1874 Primary Care Health Care Shortage Area Map
 1875 54 of Georgia's counties are considered primary care shortage areas; 57 counties are considered
 1876 primary care shortage areas with a low-income population group; 6 counties are considered only
 1877 partially primary care shortage areas, as the shortage only applies to a portion of the county; and
 1878 only 10 counties have a designated facility such as a Federally Qualified Health Center or Rural
 1879 Health Center for primary health care services. The majority of primary care shortages are in the
 1880 rural counties across the state.

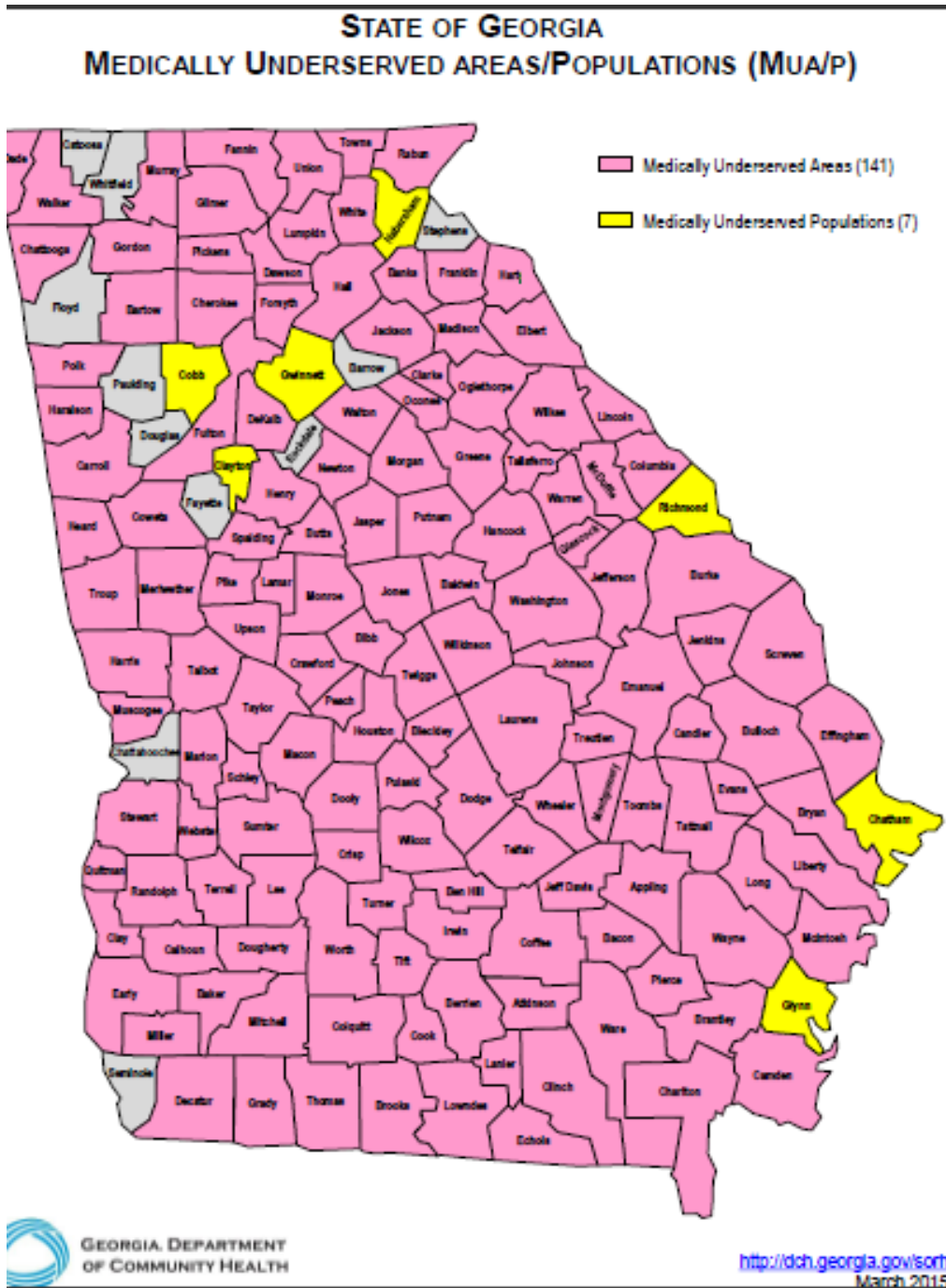
STATE OF GEORGIA
PRIMARY CARE HEALTH PROFESSIONAL SHORTAGE AREA (HPSA)



<http://dch.georgia.gov/som>
February 2015

1881
 1882
 1883

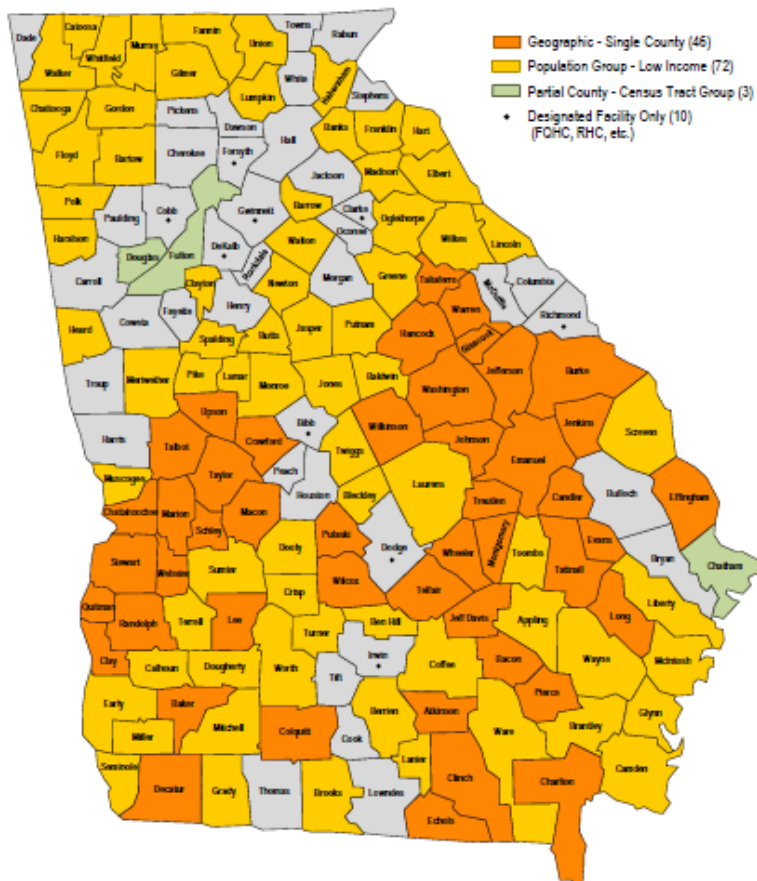
1884 Medically Underserved Areas/Populations
 1885 Of Georgia's 159 counties, 141 have medically underserved areas; 7 of the 159 counties have
 1886 medically underserved populations. Medically underserved areas are as prevalent in some metro
 1887 areas as it is in rural areas across the state.
 1888



1889
 1890

1891 Dental Health Professional Shortage Area
 1892 Forty-eight (48) of Georgia’s counties are considered shortage areas for dental health
 1893 professionals; 72 counties are considered to have a shortage of dental health care professionals
 1894 and a low-income population group; 3 counties are considered to have only a partial shortage, as
 1895 the shortage only applies to a portion of the county; and only 10 counties have a designated
 1896 facility such as a Federally Qualified Health Center or Rural Health Center for services provided
 1897 by dental health professionals. The majority of dental health professional shortages are in the
 1898 rural counties across the state.

**STATE OF GEORGIA
 DENTAL HEALTH PROFESSIONAL SHORTAGE AREA (DHPSA)**

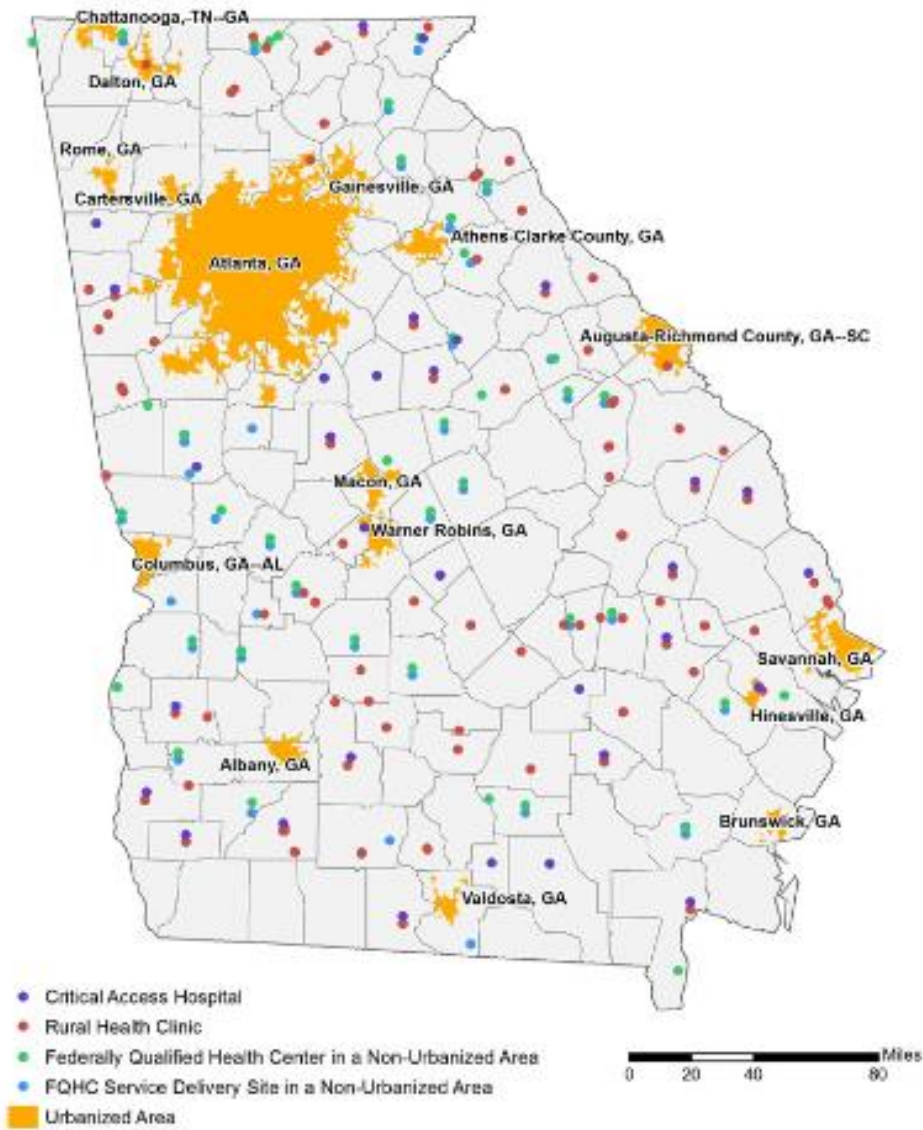


<http://dch.georgia.gov/som>
 February 2015

1899
 1900
 1901
 1902
 1903
 1904

- 1905 Selected Rural Health Care Facilities in Georgia
- 1906 The main take away here is that many of the rural areas do not have access to critical access
- 1907 hospitals. Several counties in the state don't have access to critical access hospitals, rural health
- 1908 clinics or and federally qualified health centers.

Selected Rural Health Care Facilities in Georgia



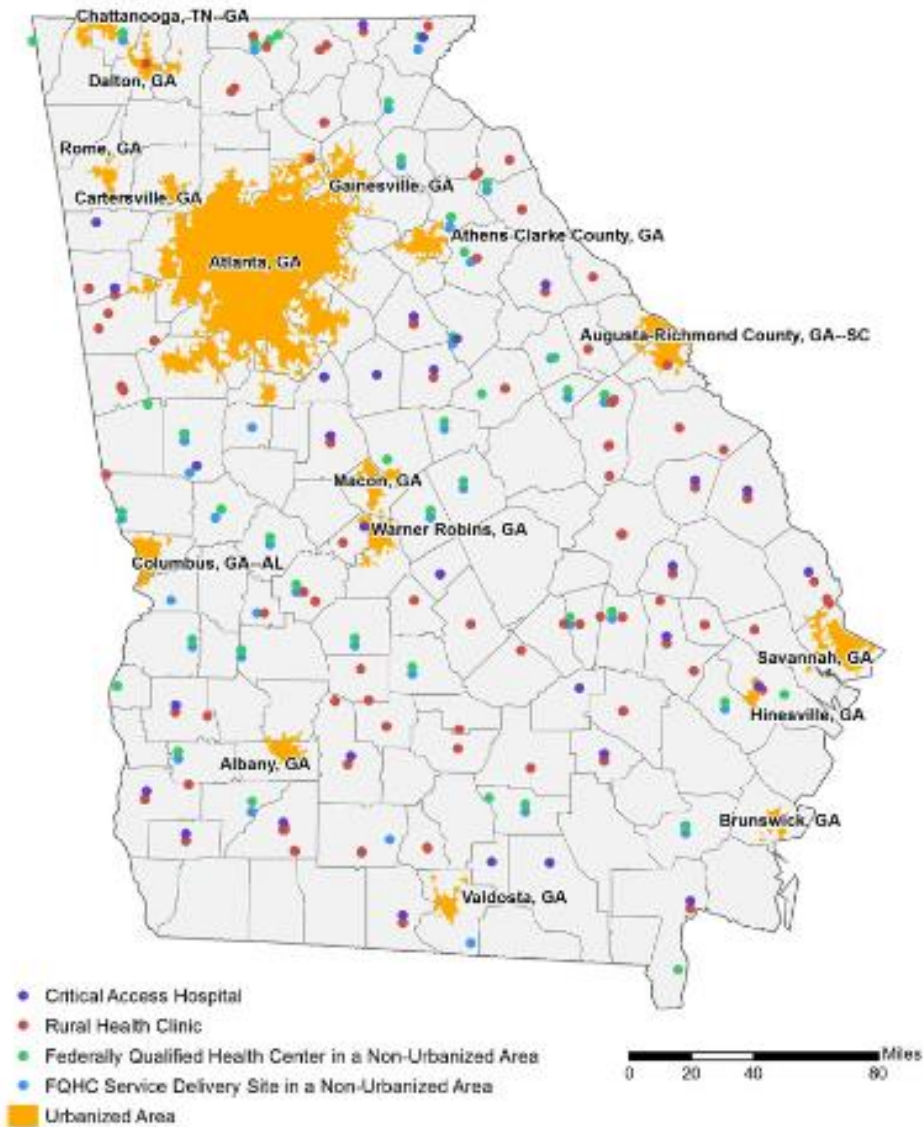
Source: U.S. Census Bureau, 2012 TIGER/Line; Centers for Medicare and Medicaid Services; U.S. Department of Health and Human Services; May 2015.



- 1909
- 1910
- 1911 State of Georgia Hospitals Certified for Critical Access Designation

1912 There are currently 33 rural hospitals across the state. Only 30 hospitals in the state are
1913 designated as critical access hospitals.

Selected Rural Health Care Facilities in Georgia



Sources: U.S. Census Bureau, 2012 TIGER/Line;
Centers for Medicare and Medicaid Services;
U.S. Department of Health and Human Services;
May 2015.



1914
1915 Source: State Office of Rural Health.
1916

1917 Georgia's Public Health System

1918

1919 For over a century, responsibility for Georgia's public health functions has been shared by state
1920 and local governments. The principal actors are the Georgia Department of Public Health (DPH),
1921 the 159 County Boards of Health, and the eighteen District Health Directors. DPH and the
1922 County Boards of Health and the District Health Directors are best thought of as a partnership –
1923 not a partnership in the legal sense, but in the ordinary sense of people working together to
1924 accomplish a common goal.

1925

1926 DPH has responsibility for framing and implementing a statewide public health policy, operating
1927 statewide programs such as the Georgia Public Health Laboratories and disease surveillance, and
1928 establishing standards for numerous matters from reportable diseases to restaurant inspections.

1929

1930 The County Boards of Health have responsibility for assessing local needs, advocating for
1931 county public health programs, approving and presenting the health budget to the county
1932 commission, and providing policy guidance to the District Health Director.

1933

1934 The District Health Directors serve as the chief executive officers of the county health
1935 departments, handling the day to day operation of the county health departments in their districts.
1936 Although they report to the county board of health and to DPH, District Health Directors operate
1937 with broad discretion in the management of county health departments.

1938

1939 The keys to success in achieving the goals of public health are cooperation among these public
1940 health partners, mutual support, open communications, and respect for the unique role that each
1941 partner plays in serving the people of Georgia.

1942

1943 DPH defines its mission this way:

1944

1945 *“To prevent disease, injury, and disability;*

1946 *to promote health and wellbeing;*

1947 *to prepare for and respond to disasters.”*

1948 In order to fulfill that very broad mission, DPH works very closely with its partners in public
1949 health, the 159 County Boards of Health and the eighteen District Health Directors.

1950

1951 Public Health Administration in Georgia

1952

1953 Georgia's “hybrid” public health system.

1954

1955 Unlike some other states, which have a centralized public health system controlled by a single
1956 state agency, Georgia employs a “hybrid” system of public health administration using both a

1957 state public health department and separate county health departments. Although DPH has some
1958 oversight responsibilities toward the county boards of health, they are separate legal entities.²
1959 Not surprisingly, there is much overlap between the operations of DPH and those of the county
1960 health departments. As the Attorney General has noted, “both the state and county have very
1961 broad duties and responsibilities in the area of public health and insofar as the positions taken by
1962 the county and state are not inconsistent, it is evident that they can both function in the same
1963 areas.”³

1964
1965 Georgia’s 159 county health departments are organized into eighteen Health Districts.⁴ Some
1966 Health Districts consist of a single county, while others include more than a dozen counties. The
1967 purpose of organizing county health departments into a Health District is to achieve economy by
1968 avoiding duplication of effort – it allows the county health departments to share a common chief
1969 executive officer and a central administrative staff.

1970
1971 The key link between DPH and the county boards of health is the District Health Director. The
1972 District Health Director is a licensed physician appointed by the DPH Commissioner and
1973 approved by the County Board of Health to serve as the CEO of the county health department.
1974 The DHDs and their District staffs manage the county health department staff, handle budgeting
1975 and billing, coordinate services and programs, provide professional management and
1976 supervision, report to the Commissioner and the County Board of Health, and execute the public
1977 health component of the State’s emergency plans.

1978 Georgia’s Public Health System Assessment

1979

1980 Overview

1981 The Georgia Department of Public Health (DPH) is the lead agency in preventing disease, injury
1982 and disability; promoting health and well-being; and preparing for and responding to disasters
1983 from a health perspective. In 2011, the General Assembly restored DPH to its own state agency
1984 after more than 30 years of consolidation with other departments. At the state level, DPH
1985 functions through numerous divisions, sections, programs and offices. Locally, DPH funds and
1986 collaborates with Georgia’s 159 county health departments and 18 public health districts.

1987 Through the changes, the mission has remained constant – to protect the lives of all Georgians.
1988 Today, DPH’s main functions include: Health Promotion and Disease Prevention, Maternal and
1989 Child Health, Infectious Disease and Immunization, Environmental Health, Epidemiology,
1990 Emergency Preparedness and Response, Emergency Medical Services, Pharmacy, Nursing,

² 1974 Op. Att’y Gen. No. 74-19. *Accord, Ga. Dept. of Human Resources v. Demory*, 138 Ga. App. 888 (1976); *Aldridge v. Georgia Hospitality & Travel Assoc.*, 251 Ga. 234, 237 (1983).

³ 1974 Op. Att’y Gen. No. 74-19.

⁴ See Appendix A for a map of Georgia’s eighteen Health Districts.

1991 Volunteer Health Care, the Office of Health Equity, Vital Records, and the State Public Health
1992 Laboratory.

1993
1994 The Georgia Public Health System Assessment focuses on how well the 10 essential public
1995 health services being provided. The survey looks at the components, activities, competencies,
1996 and capacities of our Georgia public health system. The assessment identifies strengths,
1997 weaknesses and areas for improvement.

1998
1999 The public health system survey was distributed to state, district and county health department
2000 staff. In addition, surveys were distributed to county board of health members. The department
2001 received 376 responses.

2002 Overall Summary of Findings

2003 The majority of respondents (89%) to the survey represent the core partners of the Department of
2004 Public Health (DPH). The District Health Offices, county health departments and the county
2005 board of health together with the DPH form the Georgia Public Health System. County Board of
2006 Health members represent local county/city government, education, healthcare, and vulnerable
2007 populations of the county.

Who do you Represent	Responses	%ages
Health District Staff	146	38.60%
County Health Department Staff	160	42.55%
DPH State Office Staff	42	11.17%
County Board of Health Member	28	7.45%
Total	376	

2008
2009
2010 Respondents indicated that DPH does well in identifying the health status of the state's
2011 population, identifying health threats and identifying health service needs of at risk populations.
2012 Respondents also identified DPH's ability to diagnose and investigate health problems and
2013 hazards as an area of strength. DPH received a significant number of optimal responses in the
2014 areas of disease surveillance and identifying health threats to the population, and surveillance
2015 and investigation of environmental health hazards.

2016
2017 DPH does well in analyzing health problems and planning for response to major health threats.
2018 DPH is doing a satisfactory job of health planning. However, respondents indicate that DPH
2019 should develop a systematic health planning process, such as a community health improvement
2020 plan, that develops and tracks measurable health objectives that establish strategies/actions to
2021 guide health improvement. Responses indicated that DPH needs to do a better job of getting

2022 input from population groups affected by proposed health plans and policies prior to adoption
2023 and in aligning resources to assure successful planning.
2024

2025 DPH does a good job of developing laws, reviewing laws and evaluating laws that impact public
2026 health. Respondents indicated DPH does well informing regulated entities regarding compliance
2027 with laws and regulations. DPH received optimal ratings for their enforcement activities.
2028 Communication is an area with mixed responses. DPH does well in the development of health
2029 information and health promotion activities designed to promote better health. However, DPH
2030 needs to develop partnerships with external organizations to implement and reinforce health
2031 education and health promotion activities. Survey responses indicate that DPH needs to do a
2032 better job of communicating health plans and activities through media advocacy, social
2033 marketing and risk communication to diverse audiences.
2034

2035 One common theme among responses is that DPH needs to improve in the area of community
2036 engagement. Respondents indicated that DPH needs to identify community assets and resources
2037 to promote health and assure the equitable distribution of resources. DPH needs to exercise
2038 leadership in the development of statewide partnerships to fully utilize resources for improving
2039 the state's health status. DPH needs to build and maintain partnerships with other sectors to
2040 provide a coordinated system of health care.
2041 Respondents identified access to health care as a concern. DPH needs to improve in identifying
2042 populations with barriers to health care and assure that access is available to public health
2043 services.
2044 Respondents noted that DPH has the work force capacity to provide population health services
2045 and personal health services. However responses indicated that DPH may not have the salary
2046 structure, retention approaches, and training programs and policies necessary to ensure continual
2047 training and development for public health professionals. Respondents identified development of
2048 leadership, management skills, and cultural competence as areas of concern.
2049

2050 DPH needs a department wide quality improvement program and a performance management
2051 system that enable evaluation of programs and services. Responses noted the need for DPH to
2052 improve in the identification of innovative and cutting edge research to advance public health.
2053 Respondents indicated they were uncertain about DPH's ability to conduct health policy analysis
2054 and public health systems research.
2055
2056

2057 Environment
2058 Water Quality

2059
2060 Georgia's drinking water comes from surface waters (rivers, lakes, streams, ponds and
2061 reservoirs) and from groundwater (springs and wells). More than 80% of the state's population
2062 gets its drinking water from public water systems (Figure 1.1), most of which treat the water
2063 before it is distributed.

2064
2065 In 2007, 94% of the population served by community water systems in
2066 Georgia received water that met all health-based standards. EPA's target for the southeastern
2067 states was 91%.

2068
2069

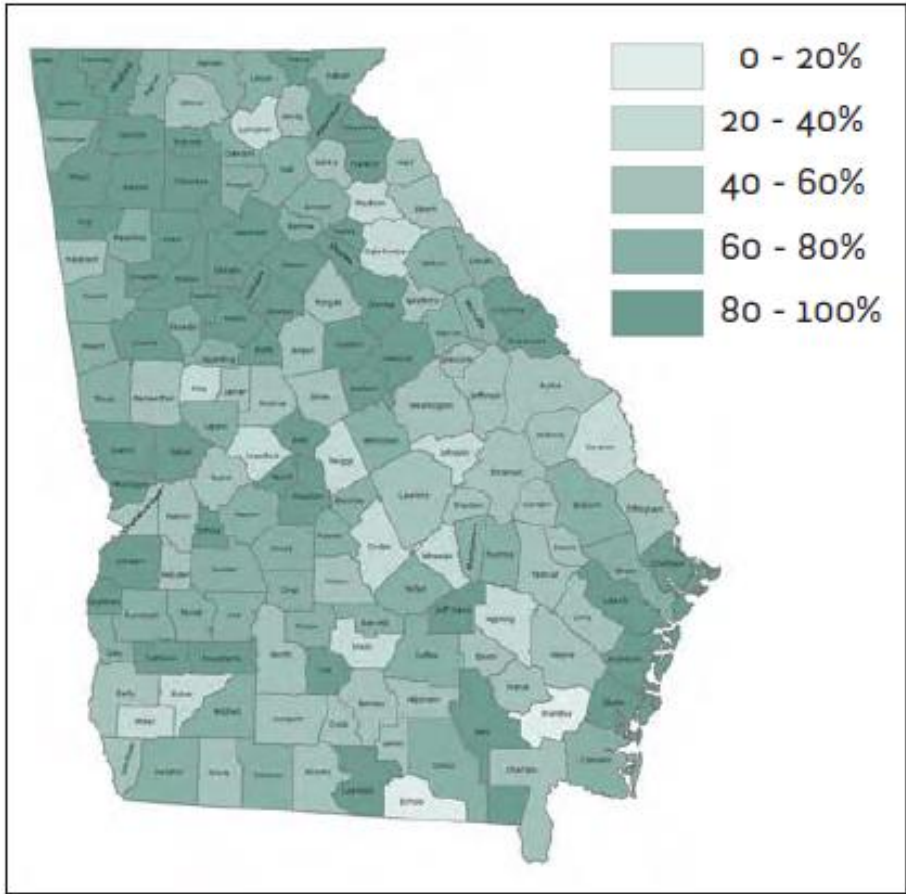


Figure 1.1 Percent of population on a public water system, by county, 2007. (EPD)

2070
2071
2072 Air Quality

2073 Ozone is a gas that forms when nitrogen oxides and volatile organic compounds react in the
 2074 presence of sunlight. This ground level ozone can inflame and damage the lining of the lungs,
 2075 reduce lung function and aggravate asthma.
 2076 Particulate matter includes smoke, dust, fly ash and liquid droplets that can remain suspended in
 2077 air for long periods of time. Fine particulate matter poses the greatest threat to human health.
 2078 Fine particles can penetrate deep into the human respiratory system and contribute to respiratory
 2079 and cardiopulmonary disease.

2080
 2081 Sensitive populations in non-attainment areas:
 2082 Approximately 17% of the state’s population falls into “sensitive” categories, meaning they are
 2083 less than 5 years old, more than 65 years old, or have weakened immune systems or symptoms of
 2084 asthma. People in these sensitive groups may feel greater effects from poor air quality, and air
 2085 quality standards are set at levels to protect them. Of this population, more than 50%,
 2086 approximately 850,000 live in areas that have been declared non-attainment for either ozone or
 2087 particulate matter or both.

2088
 2089 Non-attainment areas are determined by the number of times a pollutant surpasses the air quality
 2090 standards. For ozone and fine particulate matter, levels exceed the standards in several parts of
 2091 Georgia.

2092 Twenty full counties in Georgia have been designated non-attainment for ozone and 24 full
 2093 counties and three partial counties have been designated non-attainment for fine particulates.
 2094 These counties contain more than half of Georgia’s population. Fifty-five (55)% of the state’s
 2095 population lives in counties where ozone levels sometimes exceed the standard and 57% live in
 2096 areas where levels of fine particulates sometimes exceed the standard.

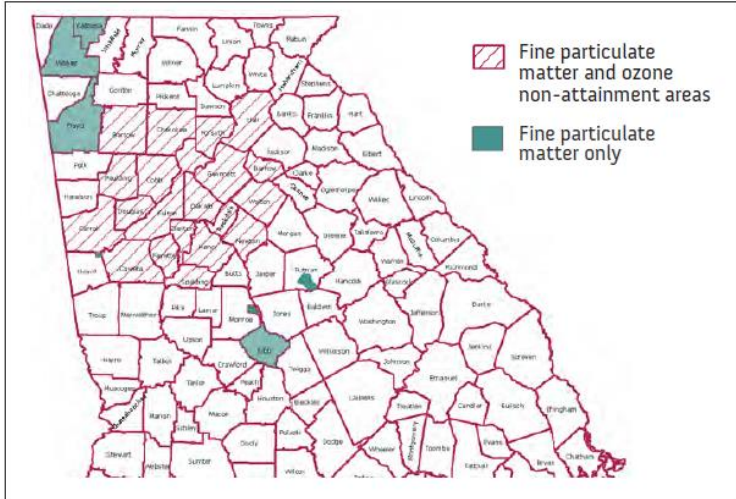
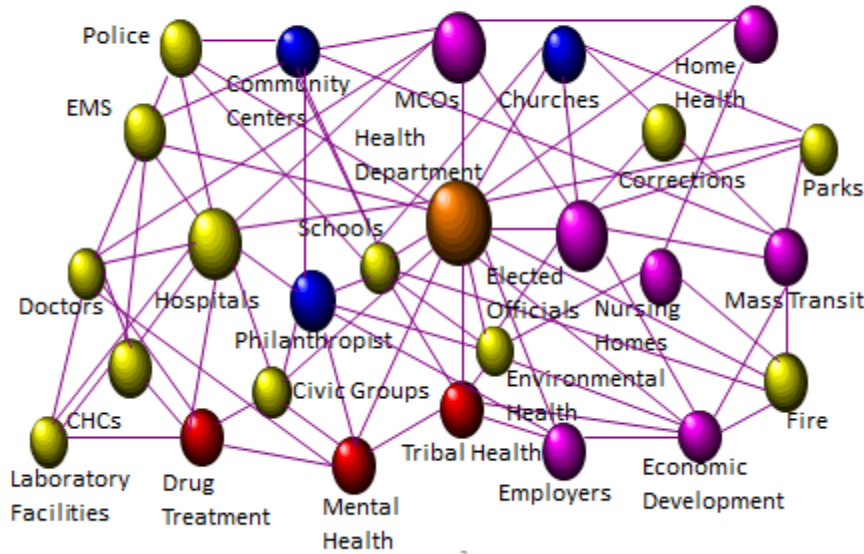


Figure 1.13 Air quality non-attainment areas: Ozone and fine particulate matter, 2008. (EPD)

2097
 2098
 2099
 2100 Assets and Resources

2101 Georgia’s public health system consists of 159 county health departments and county boards of
 2102 health divided into 18 health districts along with a state office. The public health system also
 2103 comprises innumerable partners from the following sectors—health care; education; private
 2104 employers; insurers; agriculture; information technology; non-profit, and local, state and federal
 2105 government. Below is a listing of DPH assets and resources.
 2106

The Local Public Health System



2107
 2108
 2109 DPH Community Assets and Resources:
 2110

AID Atlanta, Inc.
AID Atlanta, Inc.
AID Gwinnett/Ric Crawford Clinic Inc.
American Cancer Society - South Atlantic Division
American Lung Assoc. of the Southeast, Inc.
American Red Cross / DHS / DBHDD / DPH
Assoc. of Public Health Laboratories - NLTN
Assoc. of State & Territorial Health Officials (ASTHO)
Atlanta Breastfeeding Consultants, Inc.
Atlanta Harm Reduction Coalition, Inc.
Atlanta Oncology Assoc.

Atlanta Research and Education Foundation (AREF)
Brain & Spinal Injury Trust Fund Commission
Cancer Coalition of South GA, Inc.
Center for Pan Asian Community Services, Inc.
Central City AIDS Network
Comprehensive AIDS Resource Encounter, Inc.
East GA Cancer Coalition, Inc.
Easter Seals of North GA
Easter Seals West GA, Inc.
Empowerment Resource Center Inc.
Federation of Southern Cooperatives
GA Academy of Family Physicians, Inc. (GAFFP)
Ga American Academy of Pediatrics
GA Assoc. for Primary Health Care, Inc.
GA Assoc. of Emergency Medical Services, Inc.
GA Chapter of the American Academy of Pediatrics
GA CORE - GA Center for Oncology Research & Education
GA Enterprises for Products and Services, Inc.
GA Eye Bank, Inc.
GA Health Care Assoc.
GA Hospital Assoc. Research & Education Foundation
GA MCF - GA Medical Care Foundation
GA Obstetrical Gynecological Society
GA Parent Infant Network for Education Services (GA PINES)
GA Partnership for Telehealth
GA Pharmacy Association
GA Rural Water Assoc.
GA Society to Prevent Blindness
Georgia Asthma Coalition
Georgia Center for Oncology Research and Education
Georgia Hospital Association
Georgia Network to End Sexual Assault,

PRELIMINARY COMMENT - NOT FORMATTED

Inc.
Harambee House, Inc.
Healthy Mothers Healthy Babies Coalition of GA, Inc.
Hemophilia of GA, Inc.
HIV/AIDS Empowerment Resource Center for Young Women, Inc.
International Air Transport Assoc.
Kaiser Family Foundation
March of Dimes
Marcus Autism Center, Inc.
NAPHSIS
National Assoc. of Chronic Disease Directors (NACDD)
National Center on Birth Defects and Developmental Disabilities
National Healthy Mothers Healthy Babies Coalition of GA, Inc.
New Horizon Community Service Board
Not One More Life
Nurses for Newborns Foundation
Parent to Parent of GA, Inc.
Positive Impact, Inc.
Prevent Blindness GA
Rape Crisis of the Coastal Empire, Inc.
Recovery Consultants of Atlanta, Inc.
Healthy Mothers Healthy Babies Coalition of GA, Inc.
Sexual Assault Center of NWGA, Inc.
Sister Love, Inc.
Someone Cares Inc.
STAND, Inc.
The Cooper Institute
Union Mission
United Way of Metropolitan Atlanta
West Central GA Cancer Coalition, Inc.
West Georgia Rape Crisis Center
Women In Need of God's Shelter, Inc.
Youth Empowered Solutions

2111

2112 DPH Institutional Assets and Resources

Albany State University
Athens Regional Medical Center

Atlanta Medical Center, Inc. - Tenet Health System GB, Inc.
Atlanta Police Dept.
Atlanta VA Medical Center
Auditory-Verbal Center, Inc.
Augusta VA Medical Center
Barrow Regional Medical Center
Board of Regents - Ga Archives
Brain & Spinal Injury Trust Fund Commission
Bright from the Start - GA Dept. of Early Care and Learning
Center For The Visually Impaired
Central GA Radiation Oncology Centers
Chatham County Board of Health
Children's Healthcare of Atlanta
Choice Health Care Network, LLC
City of Savannah Housing Dept.
Cobb Center for Radiation Therapy, Inc.
Cobb County Board of Health
Cobb County Police Dept.
Columbus Health Services dba Community Health Pharmacy formerly The Medical Center
Columbus Regional Healthcare System
Columbus Wellness Center Outreach & Prevention Project, Inc.
Community Health Care Systems, Inc.
Consumer Product Safety Commission
Council of Superior Court Clerks of GA
Criminal Justice Coordinating Council
Crisp Regional Health Services
DeKalb County Medical Examiner
DeKalb County Police Dept.
DeKalb Medical
Dept. of Corrections
Dept. of Veterans Affairs
Eastman Youth Detention Center
ECHA Johns Creek, LLC dba Emory Johns Creek Hospital
Effingham Hospital
Emanuel Medical Center

COMMENT - NOT FORMATTED

Emory Clinic (The)
Emory Saint Joseph's, Inc.
Emory Prevention Research Center
Emory University - Rollins School of Public Health
Emory University - Office of Grants & Contracts Accounting
Emory University-Office of Sponsored Programs
Emory University (Emory Prevention Research Center)
Emory University Hospital
Emory University Hospital Midtown (formerly Crawford Long)
Emory University School of Medicine
FBI
Floyd Healthcare Management, Inc. d/b/a Floyd Medical Center
Fulton County, A Political Subdivision of the State of GA
Fulton County Dept. of Health & Human Services
Fulton County Government
Fulton County Medical Examiner's Office
Fulton DeKalb Hospital Authority
Fulton DeKalb Hospital Authority
GA Dept. of Agriculture
GA DBHDD - GA Dept. of Behavioral Health & Developmental Disabilities
GA DBHDD - GA Dept. of Behavioral Health & Developmental Disabilities
GA DCH - GA Dept. of Community Health
GA DCH - GA Dept. of Community Health
GA DCH (PeachCare)
GA DCH, Emory University, and Truven Health Analytics
GA Department of Community Health (DCH)
GA Department of Community Health (DCH)-Medicaid
GA Department of Human Services and Department of Behavioral Health and Developmental Disabilities (DHS/DBHDD)

COMMENT - NOT FORMATTED

GA Dept. of Driver Services
GA Dept. of Early Care and Learning (DECAL)
GA Dept. of Education
GA DHS - DFCS
GA DHS – Div. of Aging Svcs.
GA DHS - GA Dept. of Human Services
GA DHS/Child Support Services
GA DNR - COASTAL RESOURCES DIV
GA DNR - GA Dept. of Natural Resources, Environmental Protection Division
GA DOC - GA Dept. of Corrections
GA DOE - GA Dept. of Education
GA DOL - GA Dept. of Labor
GA DOR- GA Dept. of Revenue
Disability Adjudication Services-GA Vocational Rehabilitation Agency(formerly GA DOL - GA Dept. of Labor)
GA DOT
GA DPH - OEMST GA DCH - Division of Emergency Preparedness and Response
GA DPS- GA Dept. of Public Safety
GA Emergency Management Agency
GA Enterprises (formerly Clayton Co Public School dba Worktec)
GA Enterprises for Products and Services, Inc.
GA Eye Bank, Inc.
Georgia Health Policy Center/GSU
GA Health Sciences University (MCG Health, Inc.)
GA Public Broadcasting
GA Regents University
GA Regents University - MCG Health Inc.
GA Regents University - MCG Health Inc.
GA Southern University
GA Trauma Commission
Gainesville Police Dept.
GBI - GA Bureau of Investigation
Geo Care, Inc.
Georgia Center for Oncology Research and Education

COMMENT - NOT FORMATTED

Georgia Head Start Association
Georgia Regents Research Institute, Inc.
Georgia Regents University
Georgia Southern Univ. Research and Service Foundation, Inc.
Georgia Tech Applied Research Corp
Governor's Office for Children and Families
Grady Burn Center
Grady Health System
Grady Memorial Hospital
Grady Memorial Hospital (GA Poison Ctrl)
Griffin Regional Radiation Therapy Center
GSU - Andrew Young School of Policy
GSU - Ga State University
GSU - GA State University Research Foundation, Inc.
GTA - GA Technology Authority
Gwinnett County Medical Examiner's Office
Gwinnett County Police Dept.
Gwinnett Hospital Inc. (Gwinnett Medical Center)
Gwinnett Hospital System, Inc.
Hall County Coroner's Office
Hamilton Medical Center Inc.
Harbin Clinic Department of Radiation Oncology
Harbin Clinic Infusions formerly Pharmatrend Infusions
Health Care Central GA, Inc.
Henry Radiation Oncology Center, LLC
HIV/AIDS Empowerment Resource Center for Young Women, Inc.
Institute for Radiation Therapy, Inc.
John D. Archbold Memorial Hospital, Inc.
Joseph M. Still Burn Center (Doctors Hospital)
Just Care, Inc.'s Columbia Regional Care Center
Macon-Bibb County Health Department
MCG Health, Inc.
Meadows Regional Medical Center
Medical Center of Central GA, Inc.

COMMENT - NOT FORMATTED

Medical Center, Navicent Health (formerly Medical Center of Central Georgia, Inc.)
Medical College of Georgia Health, Inc. (Maternal)
Medical College of Georgia Health, Inc. (Neonatal)
Medical Ctr. of Central GA (Maternal)
Medical Ctr of Central GA (Neonatal)
Memorial Health University Medical Center, Inc.
Memorial Health University Medical Center, Inc. (Maternal)
Memorial Health University Medical Center, Inc. (Neonatal)
Mercer University (Corporation of)
Midtown Medical Center, Inc. (Maternal)
Midtown Medical Center, Inc. (Neonatal)
Monroe HMA, LLC d/b/a Clearview Regional Medical Center (formerly Walton Regional)
Morehouse School of Medicine Inc.
Morgan Co Hospital Authority
National Assoc. of Chronic Disease Directors (NACDD)
National Center on Birth Defects and Developmental Disabilities
Newnan Regional Radiation Therapy
North Fulton Regional Hospital
Northeast GA Medical Center
Northeast Georgia Health System
Northeast Georgia Medical Center
Northside Hospital
Northside Hospital - Cherokee, Inc.
Northside Hospital, Inc. (Forsyth)
Northside Hospital, Inc. (Atlanta)
Northside Hospital, Inc. (Forsyth)
Northwest GA Regional Cancer Coalition, Inc.
Office of the Child Advocate, Division of Child Fatality Review (OCA/CFR)
Phoebe Putney Memorial Hospital, Inc.
Phoebe Putney Memorial Hospital, Inc. (Maternal)

COMMENT - NOT FORMATTED

Phoebe Putney Memorial Hospital, Inc. (Neonatal)
Phoebe Sumter Medical Center
Piedmont Henry Hospital
Radiotherapy Clinics of GA
Redmond Hospital
Redmond Regional Medical Center
Refugee Health Program
RFP - MCH Call Center
Richmond County Sheriff's Office
Rockdale County Coroner's Office
Rockdale Medical Center
Saint Joseph's Hospital
Saint Joseph's Mercy Care System
Satilla Regional Cancer Treatment Center - Cure Point
South GA Center for Cancer Care
South GA Medical Center
South University Research Corporation
Southeast GA Health System - Brunswick Campus
Southern Crescent Sexual Assault Center
Southern Regional Medical Center
St. Joseph's Mercy Care Services
St. Mary's Healthcare System
State Accounting Office
Taylor Regional Hospital
The Consortium for Southeast Hypertension Control
The Cottage Sexual Assault Center & CAC
Tift Regional Medical Center (Tift County Hospital Authority)
Ty Cobb Regional Medical Center
UGA - Board of Regents
UGA College of Public Health
University Health Services, Inc. dba University Hospital
University of GA
University of GA - IHMD (BOR)
University of GA (BOR) (ITOS)
University of GA Research Foundation

University System of GA on behalf of Valdosta State University
University of Tennessee
US Dept. of Agriculture Animal & Plant Health Inspection Service, Wildlife Services (USDA-APHIS-WS)
US Dept. of Health & Human Services
Valdosta State University (BOR/USG)
Wellstar Cobb Hospital
WellStar Health System
Wellstar Kennestone Hospital
Wellstar Kennestone Regional Medical Center
WellStar Paulding Hospital
West Central GA Cancer Coalition, Inc.
West End Medical Center
West GA Medical Center, Inc.
Westcare GA, Inc.

2113

2114

2115

2116 Chronic Disease additional assets and resources

Community Assets	Institutional Assets
ACS CANCER ACTION NETWORK	Armstrong State University
Alere Wellbeing	Fort Valley State University
American Academy of Pediatrics-Georgia Chapter	Morehouse Prevention Research Center
American Association of Diabetes Educators	Savannah State University
American College of Physicians-Georgia Chapter	University of West Georgia
American Diabetes Association	
Community Health Works	
Coverdell Stroke Registry	
CVS Caremark Pharmacy	
Georgia Breast Cancer Coalition Fund	
Georgia OB/GYN Society	
Good Samaritan Health Center	
Healthcare Georgia Foundation	
HRSA Atlanta Regional Office	
Merck	

Mercy Care Atlanta, Inc.	
Rite Aid Pharmacies	
Susan G. Komen For The Cure-Atlanta Chapter	
The Cottage Sexual Assault Center and CAC	
The Health Initiative (Voice for LGBTQ)	
YWCA, Encore Plus Program	

2117 Maternal and Child Health Additional Assets and Resources

Community Assets	Institutional Assets
Sickle Cell Association of Lower Chattahoochee Region	Georgia State Center for Leadership and Disability
Hands & Voices	Bacon County Hospital
Commission on Hearing Impaired and Deaf Persons	Cartersville Medical
Georgia Lions Lighthouse	Clearview Regional Medical Center
Sickle Cell Foundation of Ga	Coffee Regional Medical Center
	Coliseum Medical Center
	Colquitt Regional Medical Center
	Crisp Regional Hospital
	Doctor's Hospital Augusta
	Dodge County Hospital
	Donalsonville Hospital
	East Georgia Regional
	Emory Eastside Medical Center
	Emory John's Creek Hospital
	Hutcheson Medical Center
	Fairview Hospital
	Fannin Hospital
	Gordon Hospital
	Grady General
	Habersham Medical Center
	Houston Medical Center
	Irwin County Hospital
	Liberty Regional Medical Center
	Mayo Clinic Health System in Waycross
	Memorial Hospital and Manor
	Midwife Group and Birth Center
	Newton Medical Center
	Oconee Regional Medical Center

	Piedmont Fayette Hospital
	Piedmont Hospital (Atlanta)
	Piedmont Mountainside Hospital
	Piedmont Newnan Hospital
	South Georgia Health System
	South East Georgia Health System (Camden)
	Spalding Regional Medical Center
	St Francis Women's Hospital
	Stephens County Hospital
	Tanner Medical Center (Carrollton)
	Tanner Medical Center (Villa Rica)
	Trinity Hospital of Augusta
	Union General Hospital
	University Hospital
	Upton Regional Medical Center
	Washington County Medical Center
	Wayne Memorial Hospital
	Wellstar Douglas Hospital
	Northwest Health District (Rome)
	North Georgia Health District (Dalton)
	North Health District (Gainesville)
	Cobb/Douglas Health District
	Fulton Health District
	Clayton Health District
	Easter Seals of North Georgia
	DeKalb Health District
	LaGrange Health District
	South Central Health District (Dublin)
	North Central Health District (Macon)
	East Central Health District (Augusta)
	West Central Health District (Columbus)
	South Health District (Valdosta)
	Southwest Health District (Albany)
	Coastal Health District
	Southeast Health District (Waycross)
	Northeast Health District (Athens)
	West Georgia Medical Center, Inc.
	Wellstar Kennestone Hospital
	Wellstar Cobb Hospital

	Ty Cobb Memorial Hospital
	Tift Regional Medical Center
	Taylor Regional Hospital
	St. Joseph's Candler Hospital
	Spalding Hospital
	Southern Regional Medical Center
	Southeast Georgia Health System Brunswick Campus
	South Georgia Medical Center
	Saint Mary's Hospital of Athens
	Rockdale Hospital
	Piedmont Henry Medical Center
	Medical Center Novicent Health (MCCG)
	Memorial Health University Medical Center
	East Georgia Regional Medical Center (Statesboro)
	Dorminy Medical Center
	DeKalb Medical Center
	Children's Health Care of Atlanta (Scottish Rite)
	Georgia PINES
	Seaton Consultants
	Georgia State University
	Natus Medical
	PENTA
	Pediatrix Medical Group
	The ENT Center of Central Georgia
	Emory Healthcare
	Children's Hospital of Georgia
	DeKalb Medical Center
	Northside Hospital
	Centers for Disease Control and Prevention
	Department of Education, State Schools
	Atlanta Area School for the Deaf
	Georgia School for the Deaf
	Atlanta Speech School
	Memorial University Medical Center
	Columbus Regional Hospital
	Grady Health System/Emory University

- 2119
- 2120 Environmental Health – additional assets and resources
- 2121 Childhood Lead

Community Assets	Institutional Assets
Safe Kids GA	DPH Tobacco Use Prevention
GA Apartment Owners Association	Bright From the Start
Weir Lead Testing	City of Atlanta, Dept. of Planning & Community Development
Georgia Community Action Ass.(GCAA) Weatherization*	US Environmental Protection Agency
Leadnology Inc.	Georgia Environmental Protection Division
Georgia Realtors Ass.	Centers for Disease Control and Prevention
	US Housing and Urban Development
	City of Atlanta Dept. of Planning and Community Development
	GA. Deputy State Fire Marshall
	Houston Co. Bd. Of Ed., Environmental & Safety

2122 Aborviral Disease

Community Assets
Statesboro Public Works - Mosquito Control
Dougherty County Public Works - Mosquito Control
Chatham County Mosquito Control
Georgia Mosquito Control Association

2123

2124 Food Service Program

Institutional Assets
U.S. Food and Drug Administration (FDA)
Georgia Restaurant Association (GRA)
U.S. Department of Agriculture (USDA)
National Restaurant Association (NRA)

2125 Water and Wastewater

GA Assn of Water Professional
GA Onsite Wastewater Assn
State Onsite Regulator Assn

GA Home Builders Assn
Atlanta Regional Commission
UGA College of AG, Crop and Soil Sciences
UGA College of Ecology, River Basin Center
Metropolitan North GA Water planning District
GA Dept. of Community Affairs
EPA Region IV
NSF, Drinking and Wastewater Programs
CDC, Waterborne disease and Outbreaks

2126 Tourist Accommodations and Public Swimming Pool Program

Community Assets	Institutional Assets
National Swimming Pool Foundation	ChlorKing, Inc.
Association of Pool and Spa Professionals	Artistic Pools
Georgia Hospitality and Lodging Association	Aquatic Training Institute
Asian American Hotel Owners Association	Water Technology
Cobb County Dep. Of Parks and Recs Aquatics	Water Works Inc.
Georgia Pest Control Association	Cheatham and Associates
	CDC, National Center for Environmental Health
	Insurance Commission, Safety Engineering Division
	GDA, Structural Pest Commission
	National Center for Emerging Zoonotic and Infectious Diseases
	The Howell Group
	Orkin Pest Control

2127

2128

2129 Chemical Hazards Program

Community Assets	Institutional Assets
Keep Dalton-Whitfield Beautiful	University of Georgia, Marine Extension Service
Keep Newnan Beautiful	University of Georgia, Agricultural & Environmental Services Lab
Glynn Environmental Coalition	Emory University, Environmental Health Research Center

Eco-Action	Dalton State College
West Atlanta Watershed Alliance	Georgia State University, Center of Excellence on Health Disparities Research
	Georgia State University, Georgia Health Policy Center
	Dept. of Natural Resources (DNR), Coastal Resources Division
	DNR, Environmental Protection Division, Brownfields Program
	DNR, Environmental Protection Division, Hazardous Waste Corrective Action
	DNR, Environmental Protection Division, Hazardous Waste Response & Remediation
	CDC, National Center for Environmental Health, Healthy Community Design Initiative
	Environmental Protection Agency, Brownfields Program
	Environmental Protection Agency, Office of Environmental Justice and Sustainability
	Agency for Toxic Substances and Disease Registry, Regional Headquarters
	Agency for Toxic Substances and Disease Registry, Brownfields Program
	Association of State & Territorial Health Officials, Environmental Health
	MARTA, Office of Research & Analysis
	Atlanta Regional Commission
	Southface Energy Institute
	Atlanta Beltline

2130 EH - Emergency Preparedness

Community Assets	Institutional Assets
American Red Cross / Georgia	Atlanta Fire Rescue
American Red Cross / Georgia	CDC Division of Env. Haz and Health Effects
Ga Funeral Directors Association	Disability Resource Advocate / EPR Consultant
Georgia Critical Incident Stress Foundation	Epidemiologist / Heumann Health Consult. Portland, OR
	FBI / Special Agent / Special Events
	FDA Consumer Safety Officer, Indi., IN

	FDA SE Regional Laboratory, Chemist , Atlanta
	GBI Mass Fatality Trailers contact
	GEMA Public Assistance Division
	GEMA State Operations Director
	Generac
	Georgia Coroners Association
	Georgia Hospital Association / Train & Exercise Coord.
	Georgia State Patrol (GDPS) / GEMA Liaison
	GER Global Emergency Resources
	Goings Consulting Services / Mass Fatality Planning
	Guardian Centers
	Mortech Manufacturing
	Mortuary Response Solutions
	Mower Doc / Generac Generator Maintenance
	NYC Medical Examiner
	Southern LINC Wireless / Southern Company
	USDA / Atlanta office
	Veteran Corps / Installation Emerg. Mgr.

2131 Health Protection Emergency Preparedness – Trauma system Additional Assets and Resources

2132

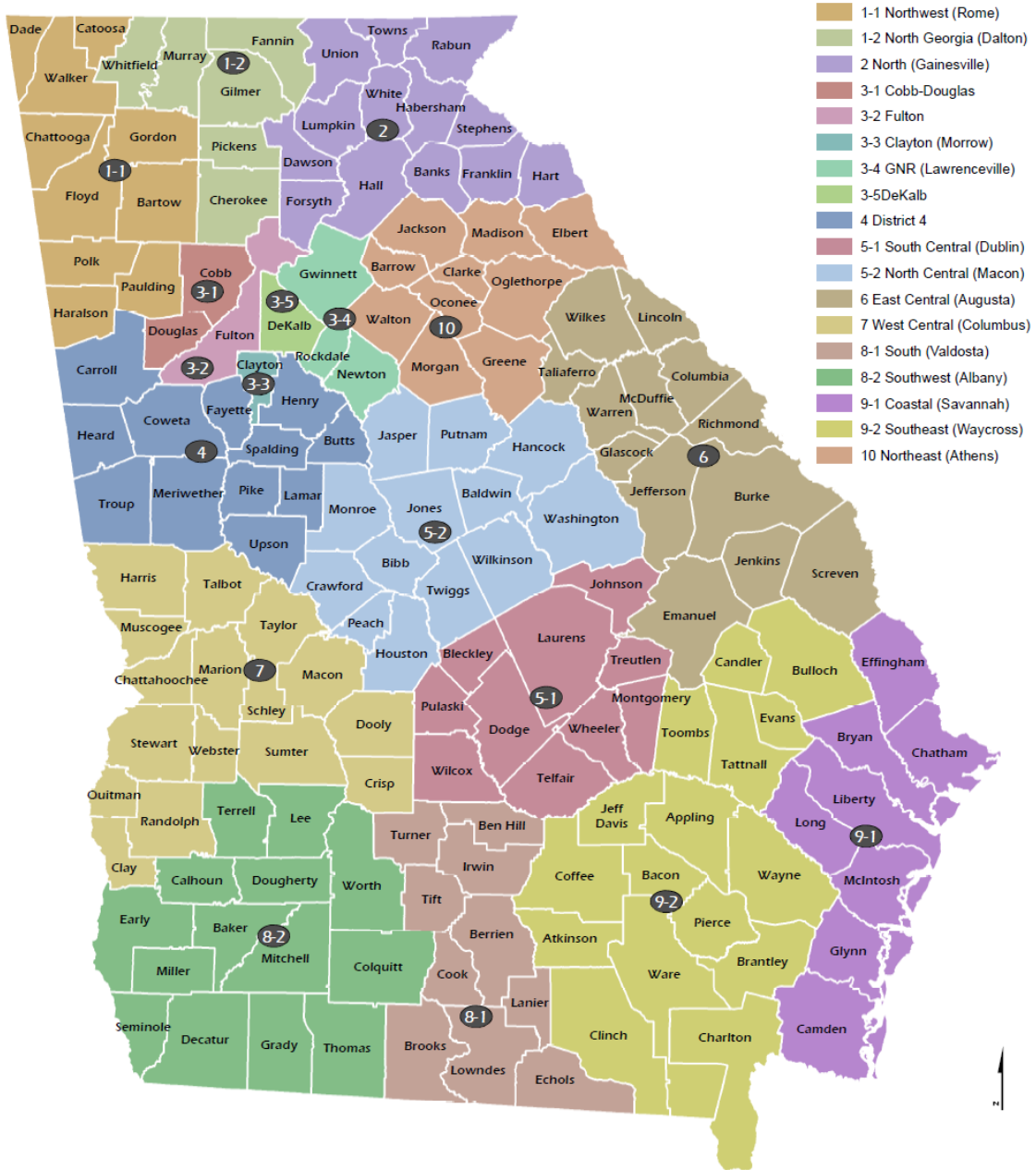
Community Assets
GA EMS Association
GA Hospital Association
Gov. Office of Highway Safety
Georgia Trauma Care Network Commission
GA Committee on Trauma Excellence

2133

Institutional Assets
Archbold Memorial Hospital
Athens Regional Medical Center
Atlanta Medical Center
CHOA - Egleston
CHOA - Scottish Rite
Clearview Regional Medical Center
Crisp Regional
Joseph M Still Burn Center
Effingham Hospital
Emanuel Medical Center
Floyd Medical Center
Georgia Regents University
Grady Burn Center
Grady Memorial Hospital
Gwinnett Medical Center
Hamilton Medical Center
Meadows Regional Hospital
Medical Center Navicent Health
Memorial Health University
Midtown Medical Center
Morgan Memorial Hospital
North Fulton Hospital
Northeast Georgia Medical Center
Redmond Hospital
Taylor Regional
Trinity Hospital of Augusta
Wellstar Kennestone Regional Medical Center
Appling Healthcare System
Cartersville Medical Center
Doctors Hospital of Augusta
Fairview Park Hospital
Hutcheson Medical Center
Phoebe Putney Memorial Hospital
South Georgia Medical Center
Shepherd Spinal Center
Winn Army Community Hospital

2134 Women Infants and Children Additional Assets and Resources

Georgia Public Health Districts



Office of Health Indicators for Planning (OHIP)
Georgia Department of Public Health

0 12.5 25 50 Miles

Created: September, 2015
Source: Department of Public Health
Projection: Georgia Statewide Lambert Conformal Conic