2016 Georgia Adult Disparities in Tobacco Use

Tobacco Free Georgia

Georgia Tobacco Use Prevention Program dph.ga.gov/tobacco

Report

Acknowledgements

Georgia Department of Public Health

Brenda Fitzgerald, MD Commissioner, State Health Officer

Health Protection

J. Patrick O'Neal, MD Division Director

Epidemiology Program

Cherie L. Drenzek, DVM, MS State Epidemiologist

Chronic Disease, Healthy Behaviors and Injury Epidemiology Section

Rana Bayakly, MPH Chief Epidemiologist

Tobacco Use Epidemiology

Alina Chung, MPH Epidemiologist

Chronic Disease Prevention Section

Jean O'Connor, JD, DrPH Chronic Disease Prevention Director

Tobacco Use Prevention Program

Kenneth Ray, MPH Deputy Director

For more information on tobacco surveillance in Georgia, please contact:

Tobacco Epidemiologist
Chronic Disease, Healthy Behaviors and Injury Epidemiology Section
Division of Health Protection
Georgia Department of Public Health
2 Peachtree Street NW, 14th Floor
Atlanta, GA 30303-3142
(404) 657-2588
http://dph.georgia.gov/georgia-tobacco-use-surveillance

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Cigarettes

Tobacco use is the leading cause of preventable illness and deaths in tobacco users and non-users in Georgia. About 10.1% of deaths among Georgia adults are linked to smoking¹. There are approximately 600 ingredients in cigarettes, when burned, they create more than 7,000 chemicals. At least 69 of these chemicals are known to cause cancer, and many are poisonous.

Most first use of cigarettes occurs by age 18 (87%), with nearly all first use by 26 years of age (98%)². Although cigarette smoking has declined significantly since 1964, a very large disparities in tobacco use remain across groups defined by race, ethnicity, educational level, and socioeconomic status and across regions of the country². To ultimately eliminate tobacco-related disparities, equity in tobacco prevention and control must be achieved by removing avoidable structural and social barriers and equally implementing tobacco control programs and policies².

Sex and Age Group

In 2014, 17.4% (1.24 million) of adult Georgians smoked cigarettes³.

- Smoking prevalence among adult males (21.4%; 740,000) is significantly higher than among females (13.6%; 510,000) (Figure 1).
- The overall smoking prevalence in Georgia is highest among adults' ages 25-34 years (23.5%; 292,000) (Figure 2).
- More males ages 25-34 years (29.4%; 184,000) and 35-44 years (23.6%; 147,000) smoke than males of any other age groups (Figure 3).
- Females' ages 25-34 years (17.5%; 109,000) and 55-64 years (16.7%; 93,500) are more likely to smoke than any other age groups (Figure 3).

Figure 1. Percentage of current adult smokers, by sex, Georgia, 2014

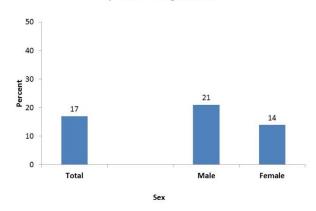


Figure 2. Percentage of adult smokers, by age group, Georgia, 2014

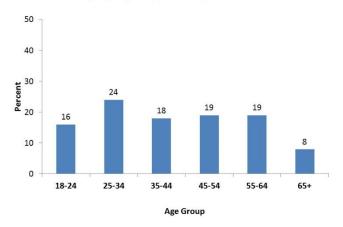
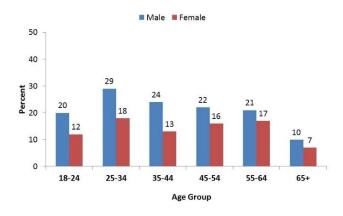


Figure 3. Percentage of adult smokers, by sex and age group, Georgia, 2014



Race and Ethnicity

- In Georgia, smoking prevalence is highest among non-Hispanic (NH) white (19.3%; 785,000) followed by Hispanics (15.6%; 92,000) and NH blacks (14.6%; 301,000) (Figure 4).
- Among NH whites, young adults' ages 25-34 years (29.5%; 182,000) have the highest smoking prevalence than any other age groups (Figure 5).
- Among NH blacks, smoking prevalence is highest ages 55-64 years (20.3%; 70,300) (Figure 5).

Annual Household Income

- As annual household income increases, for both males and females, smoking prevalence decreases (Figure 6).
- Georgia adults with an annual household income of less than \$15K have the highest smoking prevalence at 33.5% (275,000); households with income \$75K or more have significantly lower smoking prevalence (8.2%; 139,000) (Figure 6).
- Males with annual household incomes of less than \$15K (42.5%; 142,000) are more likely to smoke than males in other income groups (Figure 6).
- NH white smokers (42.8%; 118,000) and NH black smokers (33.1%; 130,000) with annual household incomes of less than \$15K have significantly highest smoking prevalence than any other income groups (Figure 7).

Figure 4. Percentage of current adult smokers, by race/ethnicity, Georgia, 2014

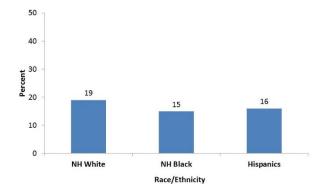


Figure 5. Percentage of current adult smokers, by race/ethnicity and age group, Georgia, 2014

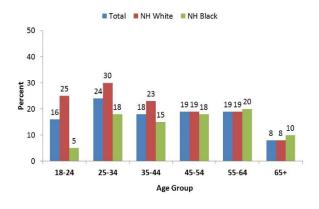


Figure 6. Percentage of current adult smokers, by sex and annual household income, Georgia, 2014

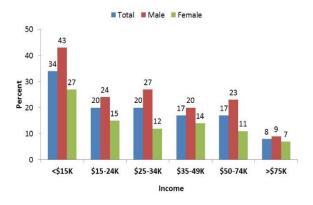
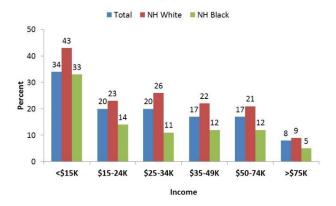


Figure 7. Percentage of current adult smokers, by race/ethnicity and annual household income, Georgia, 2014



Educational Attainment

- Cigarette smoking is six times more common among adults without high school education (31.8%; 365,000) than among adults with college education (5.6%; 100,000).
- Adult males (40.7%; 250,000) with less than a high school education are significantly more likely to smoke compared to any other groups (Figure 8).
- A significantly lower percentage of males (5.8%; 48,500) and females (5.4%; 52,000) with a college degree smoke than those without a college degree (Figure 8).
- NH white smokers (42.0%; 194,000) and NH black smokers (31.7%; 113,000) with less than high school have significantly higher smoking prevalence than any other groups (Figure 9).

Health Coverage Status

- One-fourth (25.0%) of Georgia adults did not have any form of health coverage.
- Smoking prevalence is about twice as high among adults without health coverage (31.4%; 455,000) than adults with health coverage (15.4%; 682,000) (Figure 10).
- Former smokers are more likely to have health coverage (20%). (Figure 10).

Figure 8. Percentage of current adult smokers, by sex and educational attainment, Georgia, 2014

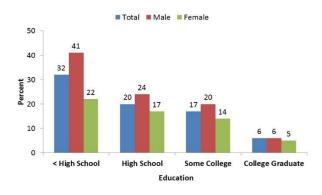


Figure 9. Percentage of current adult smokers, by race/ethnicity and educational attainment, Georgia, 2014

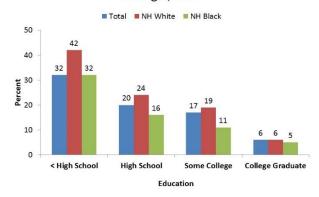
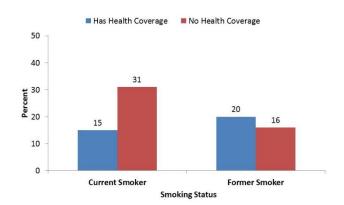


Figure 10. Percentage of adults by health coverage and smoking status, Georgia, 2014



- Male (18.0%; 381,500) and female (13.0%; 300,000) smokers are less likely to have health coverage than male (38.3%; 299,000) and female (23.4%; 156,000) nonsmokers (Figure 11).
- Approximately 45.1% (231,000) of NH white smokers and 29.8% (139,000) of NH black smokers do not have any form of health coverages (Figure 12).

Figure 11. Percentage of adults with health coverage by smoking status and sex, Georgia, 2014

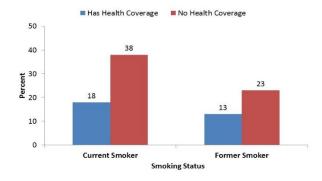
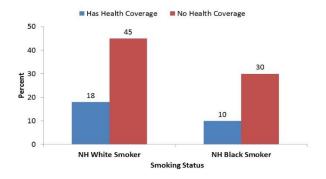


Figure 12. Percentage of adults with health coverage by smoking status and race/ethnicity, Georgia, 2014



Employment Status

- Unemployed adults are more likely to smoke (22.9%; 415,000) than adults who are either employed (17.1%; 720,000) or retired (9.7%; 109,000) (Figure 13).
- Unemployed females are more likely to smoke (42.4%; 215,000) than unemployed males (27.1%; 200,000) (Figure 14).
- Unemployed NH blacks (43.6%; 132,000) have a higher smoking prevalence than NH whites (30.5%; 240,000) and Hispanics (21.4%: 20,000) (Figure 15).

Figure 13. Percentage of current adult smokers, by employment status, Georgia, 2014

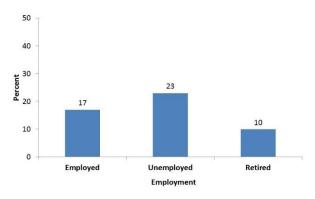


Figure 14. Percentage of unemployed adult smokers, by sex, Georgia, 2014

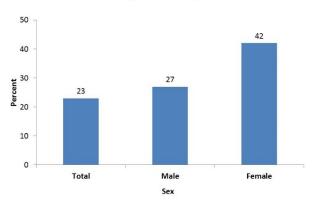
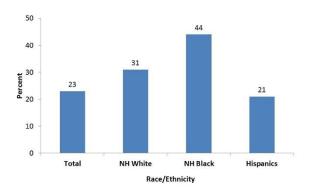


Figure 15. Percentage of unemployed adult smokers, by race/ethnicity, Georgia, 2014



Source: 2014 Georgia Behavior Risk Factor Surveillance System (BRFSS)

Occupational Status

- Georgia added industry and occupation questions to the Behavioral Risk Factor Surveillance System (BRFSS) in 2012, 2013, and 2014. Responses were coded using the NIOSH Industry and Occupation Computerized Coding System (NIOCCS). Three years of data were combined to provide smoking prevalence by 22 major occupation groups.
- Overall, 18.8% (803,000) of employed adults were Cigarette smokers during 2012-2014.
- Cigarette smoking is significantly higher among adults employed in construction and extraction occupation (32.2%); installation, maintenance, and repair occupations (32.0%); food preparation and serving related occupations (31.4%); and transportation and material moving occupations (27.8%) compared to employed adults overall (Table1).

Table 1. Smoking Prevalence by 22 Major Occupation Groups 2012-2014³

Occupation*	Smoking Prevalence (%)
Construction and Extraction	32.2
Installation, Repair, and Maintenance	32.0
Food Preparation and Serving Related Occupations	31.4
Transportation and Material Moving	27.8
Production Occupations	24.8
Building and Grounds Cleaning and Maintenance	21.9
Personal Care and Service Occupations	18.5
Computer and Mathematical Occupations	17.2
Sales and Related Occupations	16.9
Management	16.3
Office and Administrative Support	15.8
Arts, Design, Entertainment, Sports, and Media	14.6
Healthcare Support Occupations	13.8
Protective Services Occupations	13.4
Architecture and Engineering	12.5
Business and Financial Operations	12.1
Healthcare Practitioners and Technical Occupations	11.0
Community and Social Services	5.8
Legal Occupations	4.7
Life, Physical, and Social Sciences	4.5
Education, Training, and Library Occupations	3.9
Farming, Forestry, and Fishing	~

Source: 2012-2014 Georgia Behavior Risk Factor Surveillance System (BRFSS)

^{*2002} Bureau of Census 22 Major Occupation Groups

[~]Prevalence not shown due to denominator less than 50

Occupation Status by Age Group

- Employed adults aged 18-44 year current smoking prevalence is 21.0% while,15.9% of employed adults aged 45 years and older are current smokers (Figure 16).
- Employed adults in installation, repair, and maintenance fields have a significantly higher smoking prevalence (40.6%) among 18-44 age groups when compared to 45 years and older (Figure 16).
- Employed adults in construction and extraction fields have a significantly lower smoking prevalence (28.9%) among age 45 years and older age groups (Figure 16).

Occupation Status by Annual Household Income

- About 25.3% of employed adults with an annual household income of \$50K or less smoke cigarettes as compared to 12.1% of employed adults with an annual household income greater than \$50K (Figure 17).
- Employed adults in construction and extraction fields with an annual household income of \$50K or less have a significantly higher smoking prevalence (35.4%) than those who earn greater than \$50K (21.5%). (Figure 17).

Occupation Status by Educational Attainment

- About 24.7% of employed adults with a high school level education or less smoke cigarettes when compared to employed adults with greater than a high school level education (15.2%).
- Employed adults in construction and extraction fields with greater than a high school level education have a significantly higher smoking prevalence (38.0%) than those with a high school level education or less (27.8%).

Figure 16. Percentage of employed adult smokers, by occupation and age group, Georgia, 2012-2014

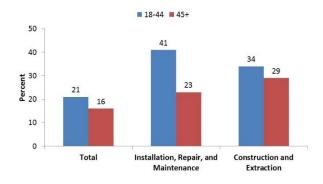


Figure 17. Percentage of employed adult smokers, by occupation and annual household income, Georgia, 2012-2014

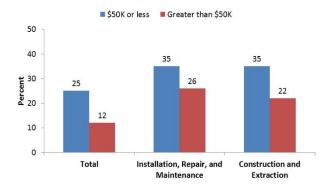
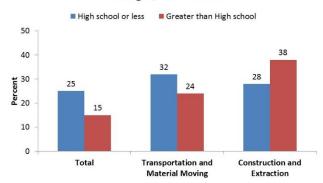


Figure 18. Percentage of employed adult smokers, by occupation and educational attainment,

Georgia, 2012-2014



Occupation Status by Health Coverage Status

- One third (33.0%) of employed adults who do not have health coverage smoke cigarettes, while 14.6% of employed adults who have health coverage smoke cigarettes (Figure 19).
- Employed adults in transportation and material moving fields who have no health coverage have a significantly higher smoking prevalence (40.5%) when compared to those with health coverage (22.1%) (Figure 19).

Chronic Disease Condition

Smoking is associated with deaths related to cancer, respiratory diseases, and cardiovascular disease⁷

- •Smoking cessation reduces the risk of cardiovascular disease; the risk of heart attack and stroke falls considerably after quitting smoking entirely⁸. Almost 21% (48,500) of stroke patients are current smokers.
- Among patients who had a heart attack, 22.0% were current smokers. Males (24.2%; 45,000) who had a heart attack are more likely to be current smokers than females (18.0%; 22,500) (Figure 20).
- NH white smokers are more likely to have suffered from heart attack (21.6%; 41,500) than NH black smokers (18.5%: 16,500) (Figure 21).
- NH black smokers (28.6%; 17,500) have a significantly higher prevalence angina/coronary/heart disease (CHD) than NH white smokers (16.8%; 35,500) (Figure 21).
- Despite the fact that smoking may trigger asthma attacks, Georgia adults with asthma continue to smoke. One-fourth (25.0%; 151,500) of adults who have asthma are current Smokers (Figure 22).
- NH white smokers are more likely to have suffered from asthma (24.1%; 80,500) than NH black smokers (19.2%; 38,100) (Figure 22).

Figure 19. Percentage of employed adult smokers, by occupation and health coverage status, Georgia, 2012-2014

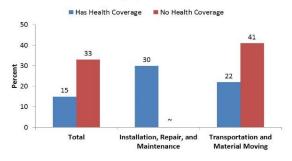


Figure 20. Percentage of current adult smokers, by cardiovascular disease and sex, Georgia, 2014

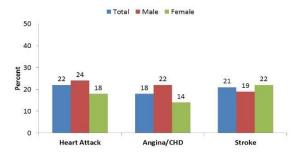


Figure 21. Percentage of current adult smokers, by cardiovascular disease and race/ethnicity, Georgia. 2014

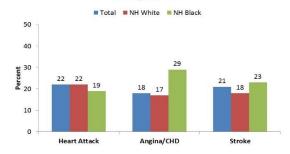
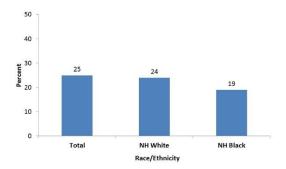


Figure 22. Percentage of current adult smokers, by asthma status, Georgia, 2014



Lung cancer is the second most common cancer diagnosed among both males and females in Georgia and accounts for 14% of all cancer diagnoses⁴.

- The age-adjusted lung cancer incidence and mortality rates among adults 35 years and older are significantly lower among Georgia females than males (Figure 23 and 24).
- The age-adjusted incidence rate of lung cancer among 35 years and older NH black males in Georgia is 87.3 per 100,000 (3,930 cases), similar to that of NH white males in Georgia (89.9 per 100,000; 13,414 cases) (Figure 23).
- Age-adjusted lung cancer incidence rate among 35 years and older NH black females is 42.0 per 100,000 (2,809 cases), which is significantly lower than the incidence rate for NH white females in Georgia (59.4 per 100,000; 10,805 cases) (Figure 23).
- The age-adjusted lung cancer mortality rate among NH white males 35 years and older in Georgia is 65.7 per 100,000 (9,818 cases), is similar to that of NH black males in Georgia (66.7 per 100,000; 2,898 cases) (Figure 24).
- The age-adjusted lung cancer incidence rate among 35 years and older NH white females is 39.0 per 100,000 (7,313 cases), which is significantly higher than the incidence rate for NH black females in Georgia (28.3 per 100,000; 1,836 cases) (Figure 24).
- During 2008-2013, about 87% of lung cancer deaths among men in Georgia were due to smoking while 68% of lung cancer deaths among females were due to smoking (Table 2).
- Among tobacco related cancers, the major cause of death was trachea, lung, and bronchial cancer (Table 2).

Figure 23. Age-adjusted lung cancer incidence rates among 35 years and older by race and sex, Georgia, 2009-2013

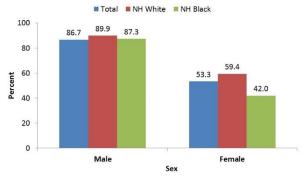
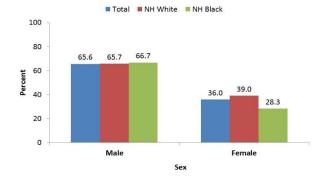


Figure 24. Age-adjusted lung cancer mortality rates among 35 years and older by race and sex, Georgia, 2008-2013*



Source: 2014 Behavioral Risk Factor Surveillance System (BRFSS)

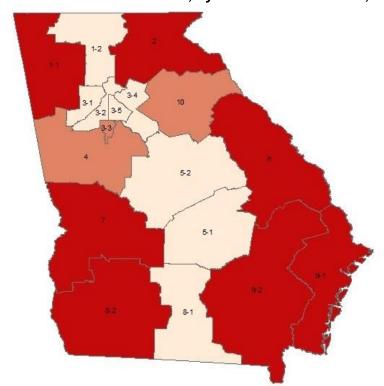
- In Georgia, during 2008-2013, smoking caused an estimated average of 10,350 deaths annually among adults ages 35 years and older.
- An estimated 17% of all deaths among adults ages 35 years and older in Georgia were the result of cigarette smoking. Of these deaths, smoking caused 44% of all cancer deaths, 30% of all respiratory deaths, and 26% of all cardiovascular death.

Table 2. Percent of Cancers due to Smoking by Sex, Georgia, 2008-2013⁴

Cancer Type	% Attributable to Smoking, Total	% Attributable to Smoking, Female	% Attributable to Smoking, Male
Trachea, Lung, Bronchus	79%	68%	87%
Larynx	79%	71%	81%
Lip, Oral cavity, Pharynx	63%	43%	71%
Esophagus	66%	54%	69%

Public Health District

• The North (2-0 Gainesville, 23.9%; 88,000), West Central (7-0 Columbus, 22.8%; 63,000), and Northwest (1-1 Rome, 22.3%; 97,000) Public Health Districts have significantly higher smoking prevalence than the overall state average rate (17.4%; 1.24 million) (Map 1; Table 3).



Map 1. Percentage of Current Adult Smokers, by Public Health District, Georgia, 2014

Table 3. Smoking Prevalence among Adults, by Public Health District, Georgia, 2014

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Public Health District	Smoking	Estimated Number
	Prevalence (%)	of Adult Smokers
1-1 Northwest (Rome)*	22.3	97,000
1-2 North Georgia (Dalton)	13.8	39,100
2-0 North (Gainesville)*	23.9	88,000
3-1 Cobb/Douglas	13.4	76,000
3-2 Fulton	13.0	72,000
3-3 Clayton County (Jonesboro)	19.4	31,000
3-4 East Metro (Lawrenceville)	14.2	88,000
3-5 DeKalb	10.3	39,000
4-0 LaGrange	18.1	89,000
5-1 South Central (Dublin)	16.2	22,000
5-2 North Central (Macon)	16.8	54,000
6-0 East Central (Augusta)*	21.3	74,000
7-0 West Central (Columbus)*	22.8	63,000
8-1 South (Valdosta)	16.7	32,000
8-2 Southwest (Albany)*	20.6	57,000
9-1 Coastal (Savannah)*	22.1	93,000
9-2 Southeast (Waycross)*	21.6	63,000
10-0 Northeast (Athens)	19.6	58,000

Source: 2014 Behavior Risk Factor Surveillance System (BRFSS)

^{*}Significantly higher than the state average

Smokeless Tobacco

Smokeless tobacco is known to cause cancer of the oral cavity and pancreas, and should not be considered a safe substitute for smoking cigarettes⁹.

- Smokeless tobacco products contain tobacco that is chewed, and/or sucked on or sniffed.
- The body absorbs 3-4 times the amount of nicotine from smokeless tobacco products compared to normal cigarettes¹⁰.
- The two main types of smokeless tobacco sold in the United States are chewing tobacco and snuff.

Sex and Age Group

Based on the BRFSS, 4.7% (340,000) of Georgia adults reported using smokeless tobacco³.

- Males (8.3%; 286,000) are significantly more likely to use smokeless tobacco when compared to adult females (1.5%; 54,000) in Georgia (Figure 25).
- Smokeless tobacco prevalence is highest among young adults' ages 25-34 years (5.7%; 70,500) in Georgia, when compared to other age groups (Figure 26).

Race and Ethnicity

• The prevalence of smokeless tobacco use among NH white adults (5.8%; 237,000) are more likely to use smokeless tobacco than NH black (3.6%; 74,000) and Hispanic (2.6%; 15,000) (Figure 27).

Figure 25. Percentage of adults who use smokeless tobacco, by sex, Georgia, 2014

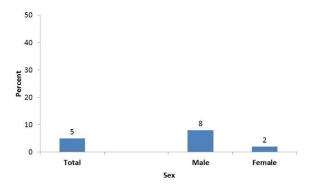


Figure 26. Percentage of adults who use smokeless tobacco, by age group, Georgia, 2014

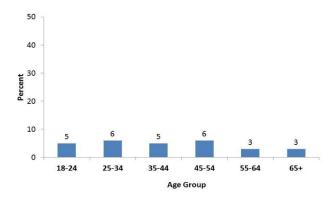
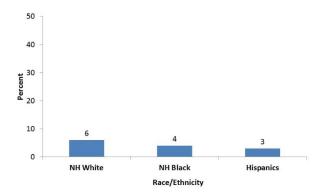


Figure 27. Percentage of adults who use smokeless tobacco, by race/ethnicity, Georgia, 2014



Annual Household Income

 Georgia adults with an annual household income of less than \$15K have the highest smokeless tobacco prevalence at 6.9% (55,500); households with income \$75K or more have significantly lower smokeless tobacco prevalence (3.0%; 50,500) (Figure 28).

Educational Attainment

• Smokeless tobacco use is about four times more common among adults without high school education (8.8%; 100,000) than among adults with college education (2.1%; 37,000) (Figure 29).

Health Coverage Status

 Adults without health insurance coverage (5.8%; 83,000) have similar prevalence of smokeless tobacco use as those with health coverage (4.8%; 215,000) (Figure 30).

Employment Status

• Unemployed adults are more likely to use smokeless tobacco (6.1%; 110,000) than adults who are either employed (4.7%; 198,000) or retired (2.9%; 33,000) (Figure 31).

Figure 28. Percentage of adults who use smokeless tobacco, by annual household income,

Georgia, 2014

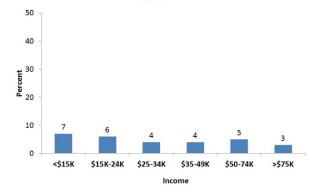


Figure 29. Percentage of adults who use smokeless tobacco, by educational attainment, Georgia, 2014

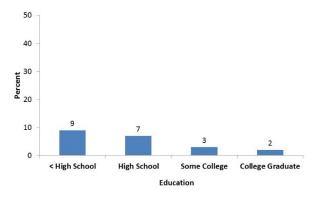


Figure 30. Percentage of adults who use smokeless tobacco, by health coverage, Georgia, 2014

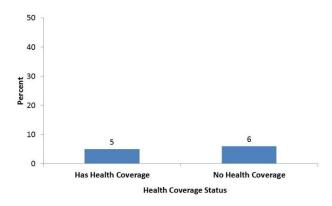
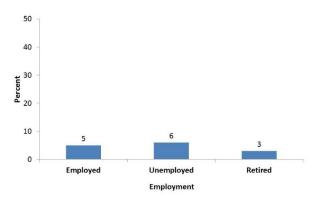


Figure 31. Percentage of adults who use smokeless tobacco, by employment status, Georgia, 2014



Public Health District

• The Northeast (10-0 Athens, 9.2%; 28,000), Southeast (9-2 Waycross, 8.1%; 24,000), South (8-1 Valdosta, 7.6%; 14,500), and Coastal (9-1 Savannah, 7.6%; 31,500) Public Health Districts have significantly higher smokeless use prevalence than the overall state average rate (4.7%; 340,000) (Map 2; Table 4).

Map 2. Percentage of Adults who Use Smokeless Tobacco, by Public Health District, Georgia, 2014

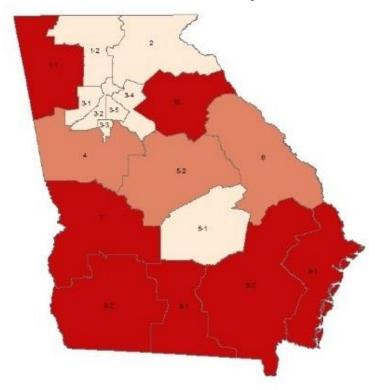


Table 4. Smokeless Tobacco Prevalence among Adults, by Public Health District, Georgia, 2014

Public Health District	Smokeless Tobacco	Estimated Number
	Prevalence (%)	of Adult Smokers
1-1 Northwest (Rome)*	7.0	31,000
1-2 North Georgia (Dalton)	3.8	11,000
2-0 North (Gainesville)	4.0	15,000
3-1 Cobb/Douglas	2.5	15,000
3-2 Fulton	2.4	14,000
3-3 Clayton County (Jonesboro)	0.8	1,500
3-4 East Metro (Lawrenceville)	2.7	17,000
3-5 DeKalb	1.9	7,000
4-0 LaGrange	5.0	25,000
5-1 South Central (Dublin)	2.5	4,000
5-2 North Central (Macon)	5.8	19,000
6-0 East Central (Augusta)	4.6	16,000
7-0 West Central (Columbus)*	6.4	18,000
8-1 South (Valdosta)*	7.6	15,000
8-2 Southwest (Albany)*	6.3	17,000
9-1 Coastal (Savannah)*	7.6	32,000
9-2 Southeast (Waycross)*	8.1	24,000
10-0 Northeast (Athens)*	9.2	28,000

Source: 2014 Behavior Risk Factor Surveillance System (BRFSS)

^{*}Significantly higher than the state average

References:

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