

# Lung Cancer among Females in Georgia

## 2011-2015

### Lung and Bronchus Cancer - Georgia

Lung cancer is the second most common cancer diagnosed in Georgia; lung cancer accounts for 12% of all newly diagnosed cancers and 25% of all cancer deaths among females in Georgia.

#### Incidence

- During 2011-2015, the lung cancer incidence rate among Georgia females (52.4/100,000) was similar to the lung cancer incidence rate among U.S. females (52.6/100,000).
- Yearly, an average of 2,910 new cases of lung cancer are diagnosed among Georgia females
- In 2015, 2,978 new cases of lung cancer were diagnosed in Georgia females.
- During 2011-2015, lung cancer incidence rates among females increased at an average annual rate of 0.7%, followed by a decrease of 1.9% per year during 2008-2013 (Figure 1).

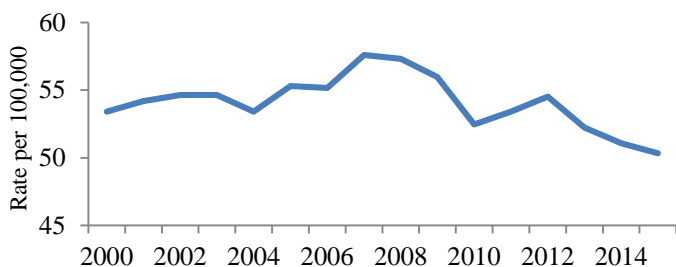


Figure 1. Age-Adjusted Lung Cancer Incidence Trend Among Females, Georgia, 2000-2015

#### Mortality

- During 2011-2015, lung cancer mortality rates were higher among U.S. females than among Georgia females by 3% .
- Yearly, an average of 1,875 Georgia females die from lung cancer.
- In 2015, 1,798 lung cancer deaths occurred among Georgia females.
- During 1990-2003, lung cancer mortality rates among females increased at an average annual rate of 1.6%. From 2003-2013, the rates decreased by 1.7% per year (Figure 2).

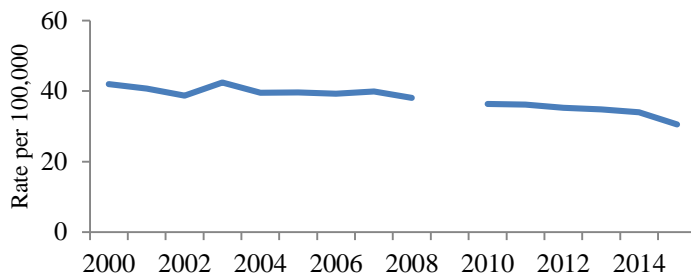


Figure 2. Age-Adjusted Lung Cancer Mortality Trend Among Females, Georgia, 2000-2015\*

#### Race/Ethnicity

- The lung cancer incidence rate was 41% higher among Non-Hispanic (NH) White females than among NH Black females in Georgia (Figure 3).

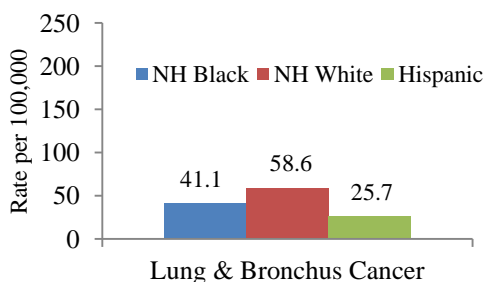


Figure 3. Age-Adjusted Lung Cancer Incidence Rates Among Females, by Race/Ethnicity, Georgia, 2011-2015

#### Race

- Lung cancer mortality rates among NH White females are higher than those among NH Black females in Georgia (Figure 4).

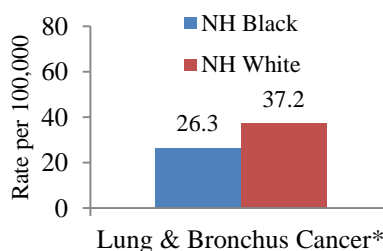


Figure 4. Age-Adjusted Lung Cancer Mortality Rates Among Females, by Race, Georgia, 2011-2015

\*Due to data quality issues, 2009 mortality data are not used for analysis



## Stage of disease and survival among Georgia females

- Finding cancer at an early stage (Insitu or local) improves chances of survival.
- Georgia females with lung cancer who were diagnosed at local stage had a 55% survival rate, 31% when diagnosed at the localized stage, and 5% when diagnosed at distant stage for both NH Black and White females (*Figure 5*).
- In Georgia, only 15% of lung cancer cases among NH Black female and 19% of lung cancer cases among NH White female were found at a localized stage (Table 1).

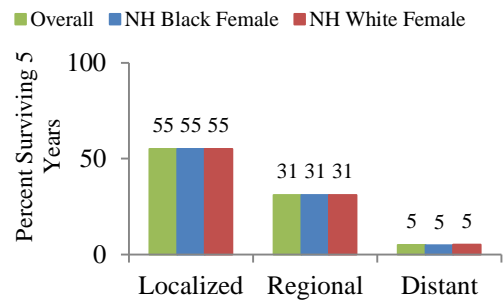


Figure 5. Survival by Stage at Diagnosis for Lung and Bronchus Cancer; Females, Georgia, 2007-2013.

		Localized	Regional	Distant
% of tumors found at this stage*	NH Black Females	15%	24%	58%
	NH White Females	19%	24%	53%

Table 1. Percent of tumors found by stage; Females, Georgia 2007-2003.

\*Unstaged tumors are not shown.

## Lung Cancer Incidence

### By District

The Northwest (1-1), North Georgia (1-2), North Central (5-2), and Coastal (9-1) Public Health Districts had significantly higher lung cancer incidence rates than the state rate (*Figure 6*).

### By Cancer Coalition Region

50% of the counties in the Northwest Georgia Regional Cancer Coalition had significantly higher lung cancer incidence rates than the state rate (*Figure 8*).

### By County

Bacon, Barrow, Barton, Bibb, Carroll, Colquitt, Crawford, Dade, Douglas, Effingham, Floyd, Gordon, Haralson, Heard, Jackson, Lamar, Paulding, Pickens, Polk, Spalding, Tift, and Walker counties had significantly higher lung cancer incidence rates than the overall state rate (*Figure 10*).

## Lung Cancer Mortality

### District

Northwest (1-1), North Georgia (1-2), North Central (5-2), and Southwest (8-2) Public Health Districts have significantly higher lung cancer mortality rates than the overall state rate (*Figure 7*).

### Cancer Coalition Region

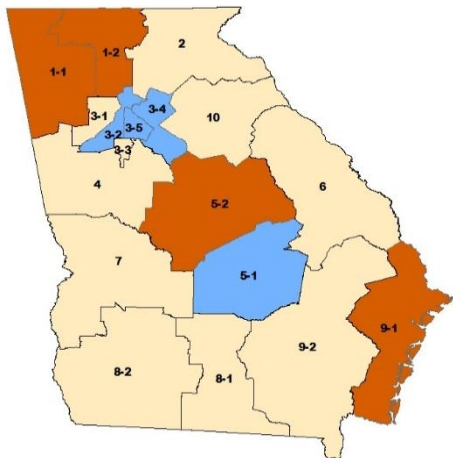
50% of the counties in the Northwest Georgia Regional Cancer Coalition had significantly higher lung cancer mortality rates than the state rate (*Figure 9*).

### County

Bacon, Barrow, Bartow, Colquitt, Effingham, Gordon, Jackson, Lee, Newton, Paulding, Pickens, Polk, Stephens, Walker, and Whitfield counties had significantly higher lung cancer mortality rates than the state rate (*Figure 11*).

# Lung Cancer among Females in Georgia 2011-2015

## Georgia Lung Cancer Maps 2011-2015



■ Significantly higher than state rate  
■ No significant difference  
■ Significantly lower than state rate  
 Rate not calculated (<16 deaths)

Figure 6. Age-Adjusted Lung and Bronchus Cancer Incidence Rates among Females by Public Health District, Georgia, 2011-2015.

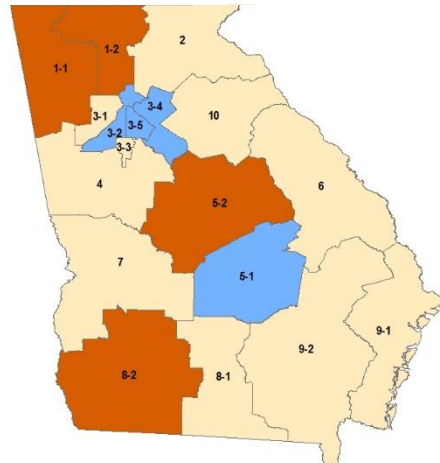


Figure 7. Age-Adjusted Lung and Bronchus Cancer Mortality Rates among Females by Public Health District, Georgia, 2011-2015.\*

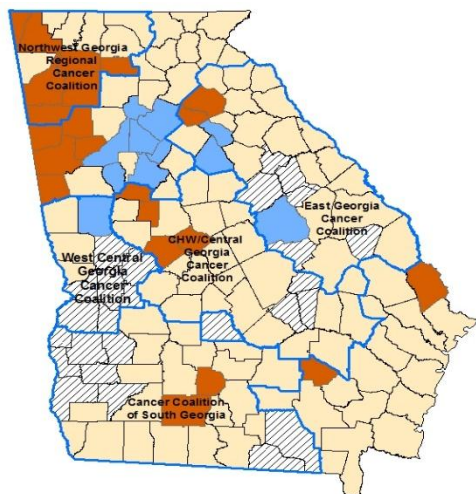


Figure 8. Age-Adjusted Lung and Bronchus Cancer Incidence Rates among Females by Cancer Coalition, Georgia, 2011-2015.

■ Significantly higher than state rate  
■ No significant difference  
■ Significantly lower than state rate  
 Rate not calculated (<16 deaths)

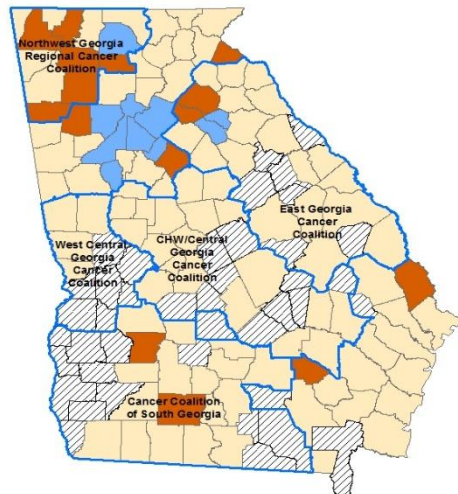


Figure 9. Age-Adjusted Lung and Bronchus Cancer Mortality Rates among Females by County, Georgia, 2011-2015.\*

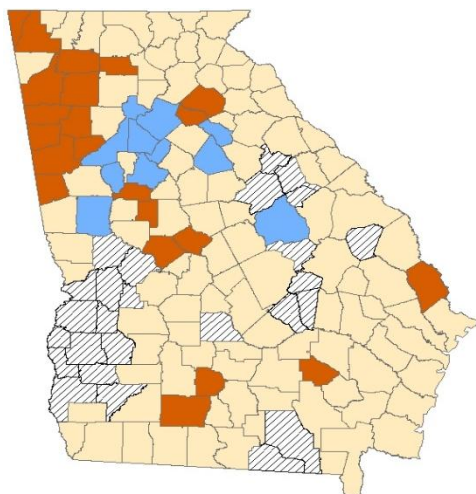


Figure 10. Age-Adjusted Lung and Bronchus Cancer Incidence Rates among Females by County, Georgia, 2011-2015.

■ Significantly higher than state rate  
■ No significant difference  
■ Significantly lower than state rate  
 Rate not calculated (<16 deaths)

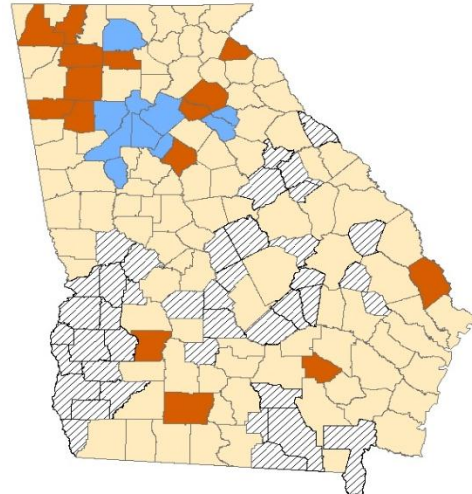


Figure 11. Age-Adjusted Lung and Bronchus Cancer Mortality Rates among Females by County, Georgia, 2011-2015.\*

\*Due to data quality issues, 2009 mortality data are not used for analysis

# Lung Cancer among Females in Georgia 2011-2015

## Lung Cancer Incidence Among Females, Georgia, 2011-2015

Public Health District	Counties	Public Health District Age-Adjusted Rate/ 100,000 (95% CI)	Cancer Coalition Region	Counties	Cancer Coalition Age-Adjusted Rate/ 100,000 (95%CI)
1-1 Northwest	Bartow, Catoosa, Chattooga, Dade, Floyd, Gordon, Haralson, Paulding, Polk, Walker	65.0 (61.4, 68.6)	Northwest Georgia Regional Cancer Coalition	Bartow, Catoosa, Chattooga, Dade, Floyd, Gordon, Haralson, Paulding, Polk, Walker	63.7 (60.7, 66.8)
1-2 North Georgia	Cherokee, Fannin, Gilmer, Gilmer, Murray, Pickens, Whitfield	59.0 (54.7, 63.2)	Northwest Georgia Regional Cancer Coalition	Fannin, Gilmer, Murray, Pickens, Whitfield	63.7 (60.7, 66.8)
2-0 North	Banks, Dawson, Forsyth, Franklin, Habersham, Hall, Hart, Lumpkin, Rabun, Stephens, Towns, Union, White	51.8 (48.6, 54.9)	Secondary Service Area of CRCCG (1)	Cherokee	48.7 (47.5, 49.9)
			Secondary Service Area of CRCCG (1)	Dawson, Forsyth, Habersham, Hall, Lumpkin, Rabun, Stephens, Towns, Union, White	48.7 (47.5, 49.9)
3-1 Cobb-Douglas	Cobb & Douglas	51.7 (48.4, 54.8)	East Georgia Cancer Coalition	Banks, Franklin, Hart	51.9 (49.3, 54.4)
			Secondary Service Area of CRCCG (1)	Cobb & Douglas	48.7 (47.5, 49.9)
3-2 Fulton	Fulton	43.6 (40.8, 46.2)	Secondary Service Area of CRCCG (1)	Fulton	48.7 (47.5, 49.9)
3-3 Clayton	Clayton	52.3 (45.9, 58.7)	Secondary Service Area of CRCCG (1)	Clayton	48.7 (47.5, 49.9)
3-4 East Metro	Gwinnett, Rockdale, Newton	47.1 (44.1, 50.0)	Secondary Service Area of CRCCG (1)	Gwinnett, Newton, Rockdale	48.7 (47.5, 49.9)
3-5 DeKalb	DeKalb	44.2 (41.03, 47.3)	Secondary Service Area of CRCCG (1)	DeKalb	48.7 (47.5, 49.9)
4-0 LaGrange	Butts, Carroll, Coweta, Fayette, Heard, Henry, Lamar, Meriwether, Pike, Spalding, Troup, Upson	52.8 (49.8, 55.7)	Secondary Service Area of CRCCG (1)	Butts, Carroll, Coweta, Fayette, Heard, Henry, Spalding	48.7 (47.5, 49.9)
			West Central Georgia Cancer Coalition	Troup, Meriwether	52.8 (48.5, 57.2)
			CHW/Central Georgia	Lamar, Pike, Upson	55.7 (52.8, 58.6)
5-1 South Central	Bleckley, Dodge, Johnson, Laurens, Montgomery, Pulaski, Telfair, Treutlen, Wheeler, Wilcox	45.8 (39.8, 51.7)	CHW/Central Georgia	Bleckley, Dodge, Laurens, Montgomery, Pulaski, Telfair, Treutlen, Wheeler, Wilcox	55.7 (52.8, 58.6)
			East Georgia Cancer Coalition	Johnson	51.9 (49.3, 54.4)
5-2 North Central	Baldwin, Bibb, Crawford, Hancock, Houston, Jasper, Jones, Monroe, Peach, Putnam, Twiggs, Washington, Wilkinson	57.0 (53.2, 60.6)	CHW/Central Georgia	Baldwin, Bibb, Crawford, Houston, Jasper, Jones, Monroe, Peach, Putnam, Twiggs, Wilkinson	55.7 (52.8, 58.6)
			East Georgia Cancer Coalition	Hancock, Washington	51.9 (49.3, 54.4)
6-0 East Central	Burke, Columbia, Emanuel, Glascock, Jefferson, Jenkins, Lincoln, McDuffie, Richmond, Screven, Taliaferro, Warren, Wilkes	50.9 (47.1, 54.6)	East Georgia Cancer Coalition	Burke, Columbia, Emanuel, Glascock, Jefferson, Jenkins, Lincoln, McDuffie, Richmond, Screven, Taliaferro, Warren, Wilkes	51.9 (49.3, 54.4)
7-0 West Central	Chattahoochee, Clay, Crisp, Dooly, Harris, Macon, Marion, Muscogee, Quitman, Randolph, Schley, Stewart, Sumter, Talbot, Taylor, Webster	51.8 (47.5, 55.5)	West Central Georgia Cancer Coalition	Chattahoochee, Harris, Marion, Muscogee, Schley, Stewart, Talbot, Taylor, Webster	52.8 (48.5, 57.2)
			Cancer Coalition of South Georgia	Clay, Crisp, Quitman, Randolph, Sumter	55.1 (52.1, 58.2)
			CHW/Central Georgia	Dooly, Macon	55.7 (52.8, 58.6)
8-1 South	Ben Hill, Berrien, Brooks, Cook, Echols, Irwin, Lanier, Lowndes, Tift, Turner	57.1 (51.5, 62.5)	Cancer Coalition of South Georgia	Ben Hill, Berrien, Brooks, Cook, Echols, Irwin, Lanier, Lowndes, Tift, Turner	55.1 (52.1, 58.2)
8-2 Southwest	Baker, Calhoun, Colquitt, Decatur, Dougherty, Early, Grady, Lee, Miller, Mitchell, Seminole, Terrell, Thomas, Worth	55.1 (50.7, 59.4)	Cancer Coalition of South Georgia	Baker, Calhoun, Colquitt, Decatur, Dougherty, Early, Grady, Lee, Miller, Mitchell, Seminole, Terrell, Thomas, Worth	55.1 (52.1, 58.2)
9-1 Coastal	Bryan, Camden, Chatham, Effingham, Glynn, Liberty, Long, McIntosh	57.1 (53.4, 60.7)	Secondary Service Area of CRCCG (2)	Bryan, Camden, Chatham, Effingham, Glynn, Liberty, Long, McIntosh	57.0 (53.9, 60.2)
9-2 Southeast	Appling, Atkinson, Bacon, Brantley, Bulloch, Candler, Charlton, Clinch, Coffee, Evans, Jeff Davis, Pierce, Tattnall, Toombs, Ware, Wayne	56.1 (51.5, 60.7)	CHW/Central Georgia	Appling, Bacon, Candler, Jeff Davis, Tattnall, Toombs,	55.7 (52.8, 58.6)
			Cancer Coalition of South Georgia	Atkinson, Clinch, Coffee	55.1 (52.1, 58.2)
			Secondary Service Area of CRCCG (2)	Bulloch, Brantley, Charlton, Evans, Pierce, Ware, Wayne	57.0 (53.9, 60.2)
10 Northeast	Barrow, Clarke, Elbert, Greene, Jackson, Madison, Morgan, Oconee, Oglethorpe, Walton	55.1 (51.0, 59.0)	East Georgia Cancer Coalition	Barrow, Clarke, Elbert, Greene, Jackson, Madison, Morgan, Oconee, Oglethorpe, Walton	51.9 (49.3, 54.4)

## Lung Cancer Risks and Prevention

### Lung Cancer Risk Factors

- Tobacco use (accounts for about 80% of all lung cancer deaths)
- Exposure to environmental (second-hand) tobacco smoke
- Exposure to certain industrial substances such as arsenic, diesel exhaust, radon, and asbestos, particularly for person who smoke
- Radiation exposure from occupational, medical, and environmental sources
- Air pollution

### Lung Cancer Prevention

The best strategy for preventing lung cancer is to not smoke or to stop smoking and to avoid exposure to environmental or second-hand smoke. People who work with potentially cancer-causing chemicals should take appropriate protective measures to avoid harmful exposure.

### Need Help Quitting?

**Ask Your Georgia Health Care Provider about Georgia cAARds**

**Referring to the Georgia Tobacco Quitline (GTQL):**

**Georgia cAARds Program: Ask, Advise, and Refer with with Follow-up:**

*Ask* all patients about tobacco use during each visit

*Advise* them about the benefits of tobacco cessation

*Refer* them to the Georgia Tobacco Quit Line for a free “Quit Kit”, individualized plan and behavioral counseling : 1-877-270- STOP

*Complete* the Georgia Tobacco Quit Line fax Referral Form with the patient

*GTQL Fax Referral Form can be downloaded from DPH’s website*

*Inform* the patient they will be contacted by a Georgia Tobacco Quit Like staff member within 48 hours or less

**Georgia Tobacco Quit Line: 1-877-270-STOP (7867)**

**Spanish: 1-855 DEJELO-YA (335-35692)**

**Hearing Impaired: 1-877-777-6534**

Open 24 hours/ 7 days a week