Lung and Bronchus Cancer in Virginia

Risk Factors

- Cigarette smoking is the strongest risk factor for lung and bronchus cancer.
- Other risk factors include environmental/occupational exposures to second-hand smoke, radon, and asbestos (especially in smokers).
- Genetic factors may increase susceptibility to the disease.
- The most important step an individual can take to prevent lung and bronchus cancer is to not smoke.

Warning Signs and Symptoms

- Chronic cough
- Coughing up blood
- Chest pain
- Recurrent respiratory infections

Early Detection

- There are no screening tests that have been shown to decrease mortality from the disease.
- A large study, the National Lung Screening Trial, is currently underway investigating whether two screening methods, chest x-ray or spiral CT, can reduce mortality among high-risk individuals.

Lung and Bronchus Cancer Facts

- Lung and bronchus cancer is the second most commonly diagnosed cancer (excluding non-melanoma skin cancer) and the leading cause of cancer death among both men and women in the United States. One in thirteen men and one in sixteen women will be diagnosed with lung and bronchus cancer during their lifetime. Incidence and mortality rates among men have fallen over the last two decades. Increasing incidence and mortality rates among women have leveled off in recent years.\(^1\)

- Over the 2004-2008 time period, the incidence rate of lung and bronchus cancer in Virginia was 68.4 cases per 100,000.\(^2\) (U.S. rate=62.0 cases per 100,000)\(^3\)

![Figure 1](image-url)
- Figure 1 shows incidence rates of lung and bronchus cancer by health district in Virginia. Lenowisco, Crater, and Roanoke had the highest incidence rates of lung and bronchus cancer among the 35 health districts.\(^2\)

- Over the 2005–2009 time period, the mortality rate from lung and bronchus cancer in Virginia was 52.7 deaths per 100,000.\(^4\) (U.S. rate=50.6 deaths per 100,000)\(^5\)

- Figure 2 shows lung and bronchus cancer mortality rates by health district in Virginia. Lenowisco, Eastern Shore, and Crater had the highest mortality rates from lung and bronchus cancer among the 35 health districts.\(^4\)

- Incidence rates were higher in men compared to women in Virginia. African-American men were diagnosed with lung and bronchus cancer at an especially high rate. Incidence rate (per 100,000 population) = 105.3 for African-American men, 86.5 for white men, 56.1 for white women, and 49.9 for African-American women.\(^2\)

- Mortality rates were higher in men compared to women in Virginia. African-American men died from lung and bronchus cancer at an especially high rate. Mortality rate (per 100,000 population) = 88.7 for African-American men, 68.2 for white men, 41.9 for white women, and 38.3 for African-American women.\(^4\)

- Lung and bronchus cancer has a five-year relative survival rate of 50 percent if diagnosed in its earliest (local) stage.\(^1\) In Virginia, only 18 percent of lung and bronchus cancer diagnosed was local stage.\(^2\)

- Figure 3 shows the percentage of lung and bronchus cancer cases diagnosed local stage by health district in Virginia. Arlington, Western Tidewater, and Crater had the lowest percentage of lung and bronchus cancer cases diagnosed local stage among the 35 health districts.\(^2\)

- The percentage of lung and bronchus cancer cases diagnosed local stage was low for both whites (19%) and African-Americans (14%) in Virginia.\(^2\)

- According to 2009 health behavior survey data, 19% of adults in Virginia were current smokers (U.S. average=18%).\(^6\)
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- Figure 4 shows current smoking rates by health district in Virginia. Lenowisco, Southside, and Mount Rogers had the highest smoking percentages among the 35 health districts.7
- Prevalence of current smoking was higher among those who were less educated, lower income, and uninsured. Current smoking prevalence was about 20% in African-Americans vs. 18% in whites.7

- In Virginia in 2009, there were 3,210 inpatient hospitalizations for lung and bronchus cancer, at a total cost of over $138 million. The average length of stay was 6.7 days and the average charge per stay was $43,064.8

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1 American Cancer Society Cancer Facts & Figures 2009 (http://www.cancer.org)
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8 VDH Virginia Health Information Hospital Discharge Patient-Level Dataset.