# The Importance of Screening for Lung Cancer

Lung cancer is the #1 cause of cancer deaths. Screening may result in detecting lung cancer earlier<sup>1</sup>

# The Prevalence of Lung Cancer in the United States

of all cancer deaths are from lung cancer, making it the leading cause of cancer death

among men and women in the United States<sup>1</sup>.

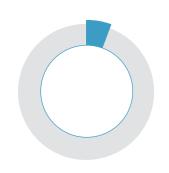
In 2023, the American Cancer Society's estimates for lung cancer in the United States are<sup>1</sup>:

- About 238,340 new cases of lung cancer (117,550 men and 120,790 women)
- About 127,070 deaths from lung cancer (67,160 men and 59,910 women)

### THE IMPORTANCE OF SCREENING FOR LUNG CANCER<sup>4</sup>

Patients who are at a high-risk for lung cancer and are screened with a low-dose computed tomography (LDCT) may be 20% less likely to die from lung cancer when compared with those patients who did not undergo screening.<sup>2,3,5</sup>

Symptoms of lung cancer usually do not appear until the disease is at an advanced stage.<sup>6</sup> This makes screening of patients who are at a high risk a valuable tool.<sup>5</sup>



**5.8%** of eligible patients who are at a high-risk for lung cancer received LDCT screening in 2019<sup>5</sup>



compared with 65% of average-risk breast cancer patients in 2019<sup>6</sup>

# The Unequal Impact of Lung Cancer in the United States

- Black men have a 15% higher mortality rate than White men (2015-2019)<sup>7</sup>
- 5-year relative survival rate is slightly lower for Black people at 20% vs 22% for White men and women
- Even when diagnosed at an early stage,
   Black people are less likely than White people to receive surgery—the most effective treatment for survival<sup>7</sup>



Black men are diagnosed with lung cancer at a rate 12% higher than that for White men (2014-2018).<sup>7</sup>



Hispanic people are slightly less likely to be diagnosed with localized disease<sup>8</sup>:

- 22% in Hispanic patients
- 25% in non-Hispanic White patients



In 2021, the U.S. Preventive Services Task Force (USPSTF) recommendations were revised, which has expanded the eligibility for screening. Now more women and Black people are eligible.<sup>9</sup>

# **Determine Eligibility for Screening**

#### PATIENTS AT A HIGH-RISK FOR LUNG CANCER

The U.S. Preventive Services Task Force (USPSTF) recommends annual screening with LDCT for adults who meet all 3 of the following criteria<sup>10</sup>:



Are **50 to 80** years of age

AND



Currently smoke or have quit in the past 15 years

AND



Have at least a

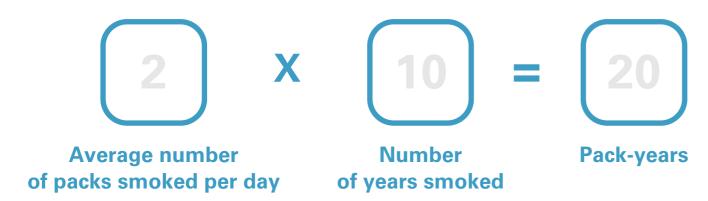
20-pack year history

of smoking\*

<sup>\*</sup>For example, patients who smoked 1 pack a day for 20 years or 2 packs a day for 10 years.<sup>10</sup>

# Determine Eligibility for Screening (continued)

#### **HOW TO CALCULATE PACK YEARS\***†



<sup>\*20</sup> cigarettes = 1 pack.

# **Encourage Your Eligible Patients to Get Screened for Lung Cancer**<sup>10</sup>

#### 1. DISCUSS IF THIS IS RIGHT FOR YOUR PATIENT

- Talk through your patient's health history to determine eligibility for lung cancer screening with LDCT<sup>11</sup>
- Encourage eligible patients to get screened for lung cancer with LDCT every year<sup>9</sup>

Earlier detection of lung cancer is vital. Once symptoms develop, the cancer may have reached a more advanced stage.

#### 2. DISCUSS ALL RELATED ISSUES WITH PATIENT

- Describe the benefits and risks of cancer screening<sup>11</sup>
- Educate on the importance of quitting smoking<sup>9,11</sup>
- Remind eligible patients to continue regular health care, including getting an annual LDCT scan<sup>9,11</sup>

## 3. AGREE ON NEXT STEPS<sup>12</sup>

- If the patient agrees to the screening, document the discussion and decision in the patient's medical record and provide a written order for the LDCT scan
- If the patient declines, document the discussion and decision in the patient's medical record
- Schedule a follow-up visit if the patient is unsure

<sup>&</sup>lt;sup>†</sup>Number of packs of cigarettes smoked per day × the number of years the person has smoked.<sup>10</sup>

# Support Shared Decision-Making With Your Patients<sup>14</sup>

Be sure to involve and engage your patient in any decisions regarding screening.<sup>14</sup> Consider if the benefits may outweigh the potential risks for screening your patient for lung cancer.<sup>10</sup> Here are a few important points to discuss<sup>14</sup>:

#### BENEFITS OF SCREENING<sup>11,16</sup>

Screening may lead to an earlier diagnosis

#### POTENTIAL RISKS OF SCREENING<sup>15</sup>

- False-positive readings
- Overdiagnosis
- Cumulative radiation exposure

# Shared decision-making may be the best approach when deciding on screening 14,17

References: 1. American Cancer Society. Key statistics for lung cancer. Last revised January 12, 2023. Accessed January 20, 2023. https://www.cancer.org/cancer/lungcancer/about/key-statistics.html **2.** de Koning HJ, van der Aalst CM, de Jong PA, et al. Reduced lung-cancer mortality with volume CT screening in a randomized trial. N Engl J Med. 2020;382(6):503-513. doi:10.1056/NEJMoa1911793 3. Low-dose CT FAQ. The University of Kansas Cancer Center. Accessed January 20, 2023. https:// www.kucancercenter.org/cancer/cancer-types/lung-cancer/lung-cancer-diagnosis-screening/low-dose-ct-faq 4. Cancer facts & figures 2023. American Cancer Society. https://www.cancer.org/content/dam/cancer-org/research/cancer-facts-and-statistics/annual-cancer-facts-and-figures/2023/2023-cancer-facts-andfigures.pdf 5. State of lung cancer: lung cancer key findings. American Lung Association. Last updated November 17, 2022. Accessed December 9, 2022. https:// www.lung.org/research/state-of-lung-cancer/key-findings 6. Breast cancer facts & figures 2022-2024. American Cancer Society. Published 2022. Last updated November 17, 2022. Accessed December 9, 2022. https://www.cancer.org/content/dam/cancer-org/research/cancer-facts-and-statistics/breast-cancer-facts-andfigures/breast-cancer-facts-and-figures-2022-2024.pdf 7. Cancer facts & figures for African American/Black people 2022-2024. American Cancer Society. Published 2022. Accessed June 4, 2023. https://www.cancer.org/content/dam/cancer-org/research/cancer-facts-and-statistics/cancer-facts-and-figures-for-african-americans/ 2022-2024-cff-aa.pdf 8. Cancer facts & figures for Hispanic/Latino people 2021-2023. American Cancer Society. Published 2021. Accessed June 4, 2023. https:// www.cancer.org/content/dam/cancer-org/research/cancer-facts-and-statistics/cancer-facts-and-figures-for-hispanics-and-latinos/hispanic-latino-2021-2023-cancerfacts-and-figures.pdf 9. US Preventive Services Task Force issues final recommendation statement on screening for lung cancer. US Preventive Services Task ForceBulletin. Published March 9, 2021. Accessed January 12, 2023. https://www.uspreventiveservicestaskforce.org/uspstf/sites/default/files/file/ supporting documents/lung-cancer-newsbulletin.pdf 10. Krist AH, Davidson KW, Mangione CM, et al; US Preventive Services Task Force. Screening for lung cancer: US Preventive Services Task Force recommendation statement. JAMA. 2021;325(10):962-970. doi:10.1001/jama.2021.1117 11. Should my patient be screened for lung cancer? American Lung Association. Accessed June 5, 2023. https://www.lung.org/lung-health-diseases/lung-disease-lookup/lung-cancer/screening-resources/ should-my-patient-be-screened 12. Guidelines for medical record documentation. National Committee for Quality Assurance. July 20, 2018. Accessed June 6, 2023. https://www.ncga.org/wp-content/uploads/2018/07/20180110\_Guidelines\_Medical\_Record\_Documentation.pdf 13. Cancer stat facts: lung and bronchus cancer. National Cancer Institute: Surveillance Epidemiology, and End Results Program. Accessed May 26, 2023. https://seer.cancer.gov/statfacts/html/lungb.html 14. Signs and symptoms of lung cancer. American Cancer Society. Last updated October 1, 2019. Accessed February 28, 2022. https://www.cancer.org/cancer/lung-cancer/detectiondiagnosis-staging/signs-symptoms.html 15. Strategy 61: shared decisionmaking. Agency for Healthcare Research and Quality. Last reviewed April 2023. Accessed June 23, 2023. https://www.ahrq.gov/cahps/quality-improvement/improvement-guide/6-strategies-for-improving/communication/strategy6i-shared-decisionmaking.html 16. Who should be screened for lung cancer? Centers for Disease Control and Prevention. Last reviewed October 25, 2022. Accessed June 22, 2023. https://www.cdc.gov/ cancer/lung/basic\_info/screening.htm 17. Tan NQP, Nishi SPE, Lowenstein LM,et al. Impact of the shared decision-making process on lung cancer screening decisions. Cancer Med. 2022;11(3):790-797. doi:10.1002/cam4.4445



