Numerous national medical societies and government advisory organizations now recommend annual low dose chest CT screening in patients 55 years or older with a history of heavy smoking (greater than 30 pack-years). Annual screening is currently recommended by the American Cancer Society, US Preventive Health Services Task Force, National Comprehensive Cancer Network, American College of Chest Physicians, American Thoracic Society, American Society of Clinical Oncologists, American Association of Thoracic Surgeons, and the American Lung Association.

Some of the organizations suggest screening patients 50 years or older with a 20 pack-year smoking history who also have an additional risk factor such as family history of lung cancer, prior history of smoking related malignancy or lymphoma, radon exposure or certain occupational exposures (asbestos, arsenic, cadmium, chromium, nickel, diesel fumes, beryllium).