

Appendix
Lung Cancer Screening Inconsistent With U.S. Preventive Services Task Force Recommendations
Richards et al.

Appendix Table 1. Questions and Answer Choices,^a 2015 National Health Interview Survey

Questions wording and answer choices	n	Weighted % (95% CI)
The next set of questions is about tests of your chest area. These questions ask about chest x-rays and CT scans, but not mammograms. In the last 12 months, did you have a chest x-ray?		
Yes	4,476	20.9 (20.1, 21.8)
No	16,095	78.6 (77.7, 79.4)
Don't know	101	0.5 (0.4, 0.6)
Total	20,672	100.0
Were any of the chest x-rays you had in the last 12 months done to check for lung cancer, rather than for some other reason?		
Yes, to check for lung cancer	579	13.0 (11.6, 14.4)
No, for some other reason	3,825	85.4 (83.9, 86.9)
Don't know	71	1.6 (1.1, 2.3)
Total	4,475	100.0
The following questions are about CT scans, also called CAT scans. During this test, you are lying down and moved through a donut shaped x-ray machine while holding your breath. Have you EVER HAD a CT or CAT scan?		
Yes	9,142	43.6 (42.5, 44.7)
No	11,316	55.5 (54.4, 56.6)
Don't know	202	0.9 (0.8, 1.1)
Total	20,660	100.0
Were any of the CT or CAT scans you had done of your chest area?		
Yes	3,718	39.4 (38.0, 40.9)
No	4,399	50.3 (48.9, 51.7)
Several areas of upper body region	755	7.5 (6.7, 8.5)
Don't know	269	2.7 (2.3, 3.2)
Total	9,141	100.0
The next questions are only about CT or CAT scans to check or screen for lung cancer. Do not include any CT or CAT scans of your chest area that were done for other reasons. Were any of the CAT scans of your chest area done to check for lung cancer, rather than for some other reason?		
Yes, to check for lung cancer	595	13.8 (12.5, 15.3)
No, for some other reason	3,797	84.6 (83.0, 86.0)
Don't know	79	1.6 (1.2, 2.2)
Total	4,471	100.0
When did you have your MOST RECENT CT or CAT scan of your chest area to check or screen for lung cancer?		
A year ago or less	317	51.2 (45.4, 56.9)
More than 1 year but not more than 2 years ago	88	14.7 (11.3, 19.0)
More than 2 years but not more than 3 years ago	51	7.4 (5.0, 10.9)
More than 3 years but not more than 5 years ago	39	6.1 (4.0, 9.2)
Over 5 years ago	95	19.4 (15.4, 24.2)
Don't know	5	1.1 (0.4, 2.9)
Total	595	100.0
Among respondents with a chest CT for lung cancer screening a year ago or less, how many CT or CAT scans to check or screen for lung cancer have you had in the last 3 years?		

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0	5	1.6 (0.4, 5.7)
1	123	41.4 (33.6, 49.7)
2	68	18.1 (13.1, 24.4)
3	51	16.9 (12.0, 23.2)
≥4	65	22.1 (15.8, 30.0)
Total	312	100.0
Among respondents with a chest CT for lung cancer screening a year ago or less, when do you expect to have your next CT scan of your chest area to check or screen for lung cancer?		
Less than a year from now	148	49.6 (42.2, 57.0)
One year from now	27	7.4 (4.7, 11.5)
More than one year from now	13	5.4 (2.6, 10.9)
When doctor recommends it	78	19.9 (14.9, 26.0)
Never	28	9.8 (5.1, 18.0)
Don't know	23	8.0 (4.8, 13.0)
Total	317	100.0

^aRespondents are adults aged ≥40 years without lung cancer.

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Appendix Table 2. Adults Reporting Lung Cancer Screening With Chest CT, by Age, 2010 and 2015^a

Survey year and age criteria (in years)	Met USPSTF smoking criteria ^b	Reported lung cancer screening with chest CT (95% CI) ^b	Weighted percent screened with chest CT (95% CI) ^c
2010			
55–74	8,746,000	283,000 (192,000, 415,000)	3.2 (2.2, 4.8)
55–75	8,986,000	312,000 (217,000, 448,000)	3.5 (2.4, 5.0)
55–76	9,112,000	312,000 (216,000, 447,000)	3.4 (2.4, 4.9)
55–77	9,241,000	331,000 (235,000, 463,000)	3.6 (2.5, 5.0)
55–78	9,366,000	338,000 (242,000, 496,000)	3.6 (2.6, 5.3)
55–79	9,487,000	354,000 (254,000, 489,000)	3.7 (2.7, 5.2)
55–80	9,620,000	361,000 (262,000, 497,000)	3.8 (2.7, 5.2)
2015			
55–74	7,455,000	305,000 (195,000, 473,000)	4.1 (2.6, 6.3)
55–75	7,580,000	305,000 (196,000, 472,000)	4.0 (2.6, 6.2)
55–76	7,740,000	333,000 (215,000, 509,000)	4.3 (2.8, 6.6)
55–77	7,966,000	343,000 (223,000, 523,000)	4.3 (2.8, 6.6)
55–78	7,954,000	349,000 (230,000, 527,000)	4.4 (2.9, 6.6)
55–79	8,027,000	351,000 (231,000, 530,000)	4.4 (2.9, 6.6)
55–80	8,098,000	360,000 (240,000, 535,000)	4.4 (3.0, 6.6)

^aRespondents are adults aged ≥ 40 years without lung cancer.

^bNumbers are rounded to the nearest one thousand.

CT, computed tomography; USPSTF, U.S. Preventive Services Task Force.

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Appendix Table 3. Population Estimates for Adults Who Reported Lung Cancer Screening, 2010 and 2015^a

Lung cancer screening category	2010	2015
	U.S. estimate (95% CI)	U.S. estimate (95% CI)
Consistent with USPSTF recommendations		
Met USPSTF criteria and reported lung cancer screening with a chest CT scan	361,000 (262,000, 497,000)	360,000 (240,000, 535,000)
Inconsistent with USPSTF recommendations		
Met USPSTF criteria and reported lung cancer screening with a chest x-ray	741,000 (584,000, 935,000)	689,000 (526,000, 898,000)
Did not meet USPSTF criteria and reported lung cancer screening with a chest x-ray	2,690,000 (2,367,000, 3,052,000)	3,259,000 (2,850,000, 3,724,000)
Did not meet USPSTF criteria and reported lung cancer screening with a chest CT scan	1,397,000 (1,177,000, 1,668,000)	1,806,000 (1,495,000, 2,173,000)

^aRespondents are adults aged ≥ 40 years without lung cancer. Estimates are rounded to nearest thousand. Lung cancer screening categories are not mutually exclusive.

CT, computed tomography; USPSTF, U.S. Preventive Services Task Force.