

S1 Table. Cumulative probability and age-standardized incidence ratio of lung cancer by Lung-RADS after excluding nine subjects

Variable	Initial LDCT findings by Lung-RADS categories					p-value	Total
	Category 1	Category 2	Category 3	Subtotal (1-3)	Category 4		
No. of subjects	3,647	424	182	4,253	103		4,356
Person-years of follow-up	31,567.4	3,571.8	1,530.5	36,669.7	864.5		37534.1
No. of lung cancers							
Diagnosed (O)	3	3	0	6	7		13
Expected (E) ^{a)}	10.90	1.27	0.58	12.75	0.36		13.12
O/E ratio (95% CI)	0.28 (0.06-0.80)	2.37 (0.49-6.92)	0.0	0.47 (0.17-1.02)	19.18 (7.71-39.52)	< 0.001	0.99 (0.53-1.69)
Incidence per 100,000 person-years (95% CI)							
40-54 yr	4.6 (0.6-32.8)	84.7 (21.2-338.6)	0.00	12.0 (3.9-37.3)	823.5 (309.1-2,194.1)	< 0.001	27.6 (13.1-57.8)
55-79 yr	20.2 (5.1-80.8)	82.7 (11.6-586.8)	0.00	25.5 (8.2-79.1)	792.1 (255.5-2,456.0)	< 0.001	49.4 (22.2-110.0)
p-value	0.132	0.511	-	0.192	0.487		0.154
Overall: crude rate	9.5 (3.1-29.5)	84.0 (27.1-260.4)	0.0	16.4 (7.4-36.4)	809.7 (386.0-1,698.5)	< 0.001	34.6 (20.1-59.6)
Age-standardized rate ^{a)}	6.2 (1.3-18.2)	68.1 (13.0-200.5)	0.0	11.9 (4.3-26.1)	645.7 (152.0-1,139.5)		30.9 (17.5-65.5)
Cumulative probability of lung cancer development (%)							
5 Years later	0.03	0.47	0.00	0.07	2.90		0.14
10 Years later	0.12	0.71	0.00	0.17	7.42		0.35

Lung-RADS, Lung Imaging Reporting and Data System; LDCT, low-dose computed tomography; CI, confidence interval. ^{a)}Age-standardized rate using Segi's world standard population.