

Epidemiology CANCER STATISTICS, 2023 24 Estimated New Cases Males Females Prostala 288,300 Breast 297,790 31% 13% 8% 7% 4% 3% 3% 3% 100% 29% Lung & trenchus Colon & rectum Urinary bladder 117,550 81,880 62,420 Lung & bronchus Colon & rectum Utertne corpus 120,790 71,160 66,200 125 5% 6% 6% 4% 4% 4% 3% 100% 62,420 58,120 52,360 44,860 39,290 35,670 35,670 35,130 Malanema of the skin Melanoma of the skin 39,490 Non-Hodgkin ly Thyroid 35,670 31,180 Kidney & renel pelvis odgkin lymphoma Oral cavity & pharyns Pancreat 30,920 Leukemia Kidney & renal pelvis 29,440 Pandress All Sites 23,940 948,000 Lecitornia All Sites Estimated Deaths Females Males Lung & tronchus Lung & bronchus 67.160 23% 59.910 21% 34,700 28,470 26,620 43,170 24,080 23,930 Prostete Colon & nictum Breast Colorr & nicitum 11% 9% 8% 6% 4% 4% 4% 100% 15% 9% 5% 5% 5% 3% 3% 5% 100% Pancreas raneplatic bile duct Leukinimia Esophagua Parcreas Overy Uterine corpus Liver & minihepotic bile due 13,270 13,030 10,380 19,000 13,900 12,160 11,780 11,020 322,080 9,810 8,400 7,976 287,740 Univery Bladder Leukamia Hodgkin lymphoma Non-Hodgkin lyn Brain & other ner All Silves Brain & other nervous system All Sites Cancer statistics, 2023. CA: a cancer journal for clinicians, 73(1), 17-48.











TABLE 2	Classification of Smoking Habits
froup 0	Nonsmokers (Less than 1 cigaret per day for more than 20 years) *
1	Light smokers (From 1 to 9 cigarets per day for more than 30 years) * 1
2	Moderately heavy smokers (From 10 to 15 clearets per day for more than 20 years) *
a	Heavy smokers (From 16 to 20 cigarets per day for more than 20 years) *
4	Excessive smokers (From 21 to 34 cigarets per day for more than 20 years) *
5	Chain smokers (35 cigarets or more per day for at least 20 years) *
Pipe and cigar sm gar as 5 cigarets at Includes minimal Ivalent in pipes or c	okers have been included by arbitrarily counting ad 1 pipeful as 2½ eigarets. smokers (from 1 to 4 eigarets a day, or the lgars for more than 20 years).































Characteristic	Low-Dose CT Group (N = 26,722)	Radiography Group (N = 26,732)
	number (	(percent)
Age at randomization		
<55 yr†	2 (<0.1)	4 (<0.1)
5559 yr	11,440 (42.8)	11,420 (42.7)
6064 yr	8,170 (30.6)	8,198 (30.7)
65–69 yr	4,756 (17.8)	4,762 (17.8)
70–74 yr	2,353 (8.8)	2,345 (8.8)
≥75 yr†	1 (<0.1)	3 (<0.1)
Sex		
Male	15,770 (59.0)	15,762 (59.0)
Female	10,952 (41.0)	10,970 (41.0)
Race or ethnic group‡		
White	24,289 (90.9)	24,260 (90.8)
Black	1,195 (4.5)	1,181 (4.4)
Asian	559 (2.1)	536 (2.0)
American Indian or Alaska Native	92 (0.3)	98 (0.4)
Native Hawaiian or other Pacific Islander	91 (0.3)	102 (0.4)
More than one race or ethnic group	333 (1.2)	346 (1.3)
Data missing	163 (0.6)	209 (0.8)
Hispanic ethnic group:		
Hispanic or Latino	479 (1.8)	456 (1.7)
Neither Hispanic nor Latino	26,079 (97.6)	26,039 (97.4)
Data missing	164 (0.6)	237 (0.9)
Smoking status		
Current	12,862 (48.1)	12,900 (48.3)
Former	13,860 (51.9)	13.832 (51.7)

Screening Round	ilts of Three R	ounds of Scree	ming.*			Ches	t Radiography	
	Total No. Screened	Positive Result	Clinically Significan Abnormality Not Suspicious for Lung Cancer	t No or Minor Abnormality	Total No. Screened	Positive Result	Clinically Significant Abnormality Not Suspicious for Lung Cancer	No or Minor Abnormality
			no. (% of screened	)			no. (% of screened)	
то	26,309	7191 (27.3)	2695 (10.2)	16,423 (62.4)	26,035	2387 (9.2)	785 (3.0)	22,863 (87.8)
т1	24,715	6901 (27.9)	1519 (6.1)	16,295 (65.9)	24,089	1482 (6.2)	429 (1.8)	22,178 (92.1)
T2	24,102	4054 (16.8)	1408 (5.8)	18,640 (77.3)	23,346	1174 (5.0)	361 (1.5)	21,811 (93.4)













	Table L baseine Characteristics of the Male Participants at	Randomization."	
	Characteristic	Screening Group (N=6583)	(N=6612)
oculto	Age		
esuits	Median (IQR) — yr	58 (55-63)	58 (54-63)
	Range — yr	46-76	34-89
	Distribution — no./total no. (%) ?		
	<50 yr	3/6560 (<0.1)	6/6571 (0.1)
	50-54 yr	1611/6560 (24.6)	1694/6571 (25.8)
	55-59 yr	2226/6560 (33.9)	2231/6571 (34.0)
	60-64 yr	1554/6560 (23.7)	1475/6571 (22.4)
	65-69 yr	797/6560 (12,1)	781/6571 (11.9)
	70-74 yr	329/6560 (5.0)	337/6571 (5.1)
	≥75 yr	40/6560 (0.6)	47/6571 (0.7)
	Pack-yr of smoking:		
	Median (IQR)	38.0 (29.7-49.5)	38.0 (29.7-49.5)
	Range	0.4-159.5	1.3-156.0
	Cigarettes smoked per day - no./total no. (%)		
	≤10	20/6565 (0.3)	18/6596 (0.3)
	11-15	1470/6565 (22.4)	1437/6596 (21.8)
	16-20	1859/6565 (28.3)	1859/6596 (28.2)
	21-25	1732/6565 (26.4)	1779/6596 (27.0)
	26-30	669/6565 (10.2)	723/6596 (11.0)
	31-40	454/6565 (6.9)	437/6596 (6.6)
	>40	361/6565 (5.5)	343/6596 (5.2)
	Duration of smoking		
	s25 yr	25/6563 (0.4)	21/6594 (0.3)
	26-30 yr	657/6563 (10.0)	722/6594 (10.9)
	31-35 yr	1652/6563 (25.2)	1700/6594 (25.8)
	36-40 yr	2030/6563 (30.9)	2105/6594 (31.9)
	41-45 yr	1451/6563 (22.1)	1317/6594 (20.0)
	a45 yr	748/6563 (11.4)	729/6594 (11.1)
	Age at initiation of smoking - no./total no. (%)		
	<15 yr	1153/6560 (17.6)	1141/6588 (17.3)
	15-29 yr	5376/6560 (82.0)	5407/6588 (82.1)
	≥30 yr	31/6560 (0.5)	40/6588 (0.6)
	Smoking status no./total no. (%)		
	Current	3643/6566 (55.5)	3611/6595 (54.8)
	Former	2923/6566 (44.5)	2984/6595 (45.2)
	Years since cessation of smoking — no./total no. (%)		
	<1	489/2908 (16.8)	493/2963 (16.6)
	1-5	1316/2908 (45.3)	1334/2963 (45.0)
	6-10	1054/2908 (36.2)	1096/2963 (37.0)
	>10	49/2908 (1.7)	40/2963 (1.3)

Table 4. Cause of Death of Deceased Male Participan	ts at 10 Years of Follow-	up or until the Data-Cut	toff Date of Decem	ber 31, 2015.*
Variable	Screening Group (N=868)	Control Group (N = 860)	Total (N = 1728)	Rate Ratio (95% CI)
		number (percent)		
Cause of death — no. (%)				
Lung cancer	160 (18.4)	210 (24.4)	370 (21.4)	0.76 (0.62-0.94
No lung cancer after cause-of-death review, no other specification	6 (0.7)	11 (1.3)	17 (1.0)	0.55 (0.17-1.61
Other neoplasm	318 (36.6)	289 (33.6)	607 (35.1)	1.10 (0.94-1.30
Cardiovascular disease	189 (21.8)	181 (21.0)	370 (21.4)	1.05 (0.85-1.29
Respiratory disease	42 (4.8)	43 (5.0)	85 (4.9)	0.98 (0.62-1.53
Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified	37 (4.3)	20 (2.3)	57 (3.3)	1.86 (1.05-3.37
Diseases of the digestive system	30 (3.5)	21 (2.4)	51 (3.0)	1.43 (0.79-2.63
External causes of illness and death	24 (2.8)	19 (2.2)	43 (2.5)	1.27 (0.67-2.45
Endocrine, nutritional, and metabolic diseases	21 (2.4)	9 (1.0)	30 (1.7)	2.34 (1.03-5.80
Diseases of the nervous system	9 (1.0)	19 (2.2)	28 (1.6)	0.48 (0.19-1.10
Other cause of death	26 (3.0)	28 (3.3)	54 (3.1)	0.93 (0.52-1.65
Unknown	6 (0.7)	10 (1.2)	16 (0.9)	0.60 (0.18-1.83
Total person-yr at risk	62,298	62,484	124,782	
All-cause mortality — deaths per 1000 person-yr	13.93	13.76	13.85	1.01 (0.92-1.11









Source	Recruitment years	Sample size; country	Mean age (ages eligible), y	% Male	Baseline smoking status, %	Eligibility criteria for pack-years; years since quitting	Screening rounds, No.	Screening intervals, y	Total median follow-up, y	Quality
DANTE <sup>12-14</sup>	2001-2006	2472; Italy	65 (60-74)	100	Current: 57	≥20; <10 y	5	0, 1, 2, 3, 4	8.4	Fair
					Former: 43					
				Mean No. of pack-years: 47						
LCST15.16	ST <sup>15,16</sup> 2004-2006	4104; Denmark	58 (50-70)	56	Current: 76	≥20; quit after age 50 and <10 y ago	5	0, 1, 2, 3, 4	9.8	Fair
					Former: 24					
					Mean No. of pack-years: 36					
TALUNG <sup>17</sup>	2004-2006	3206; Italy	61 (55-69)	65	Current: 65	≥20 in the last	4	0, 1, 2, 3	9.3ª	Fair
					Former: 35	10 y or quit within the last				
					Median No. of pack-years: 39	10 y				
LSS18-208	2000-2001	3318; US	NR (55-74)	59	Current: 58	≥30; <10 y	2	0,1	5.2	Fair
					Former: 42					
					Median No. of pack-years: 54					
LUSI <sup>21-23</sup>	2007-2011	4052;	NR (50-69)	65	Current: 62	≥25 y of 15	5 0, 1, 2, 3, 4 8.8	8.8	Fair	
		Germany			Former: 35	cigarettes or ≥30 v of 10				
					Mean No. of pack-years: NR	cigarettes; ≤10 y				
NELSON <sup>34-28</sup> 2003-2006	2003-2006	6 15 792; the Netherlands	Median, 58 (50-74)	84	Current: 55	>15 cigarettes/d 4 for >25 y or >10 cigarettes/d for >30 y; ≤10 y	4	0, 1, 3, 5.5	10	Fair
					Former: 45					
		and Belgium			Median No. of pack-years: 38					
NLST29-376	2002-2004	53 542; US	61 (55-74)	59	Current: 48	≥30; ≤15 y	3	0, 1, 2	7 (and	Good
					Former: 52				posttrial follow-up to 12.3 y)	
					Mean No. of pack-years: 56					

		V
ecommendation Sun	Imary	Cardo
Adults aged 50 to 80 years who have a 20 pack-year moking history and currently moke or have quit within the	The USPSTF recommends annual screening for lung cancer with low-dose computed tomography (LOCT) in adults aged 50 to 80 years who have a 20 pack-year smoking history and currently smoke or have quit within the past 15 years. Screening should be discontinued once a person has not smoked for 15 years or develops a health problem that substantial influences to access the adults or willing near to have quitable lung.	B











