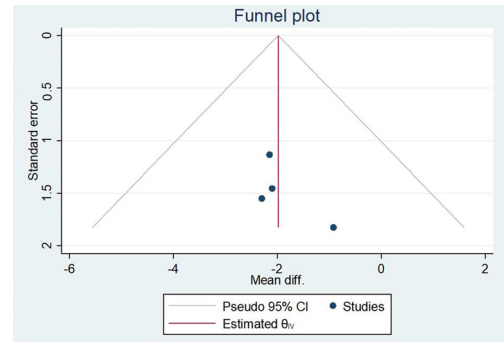
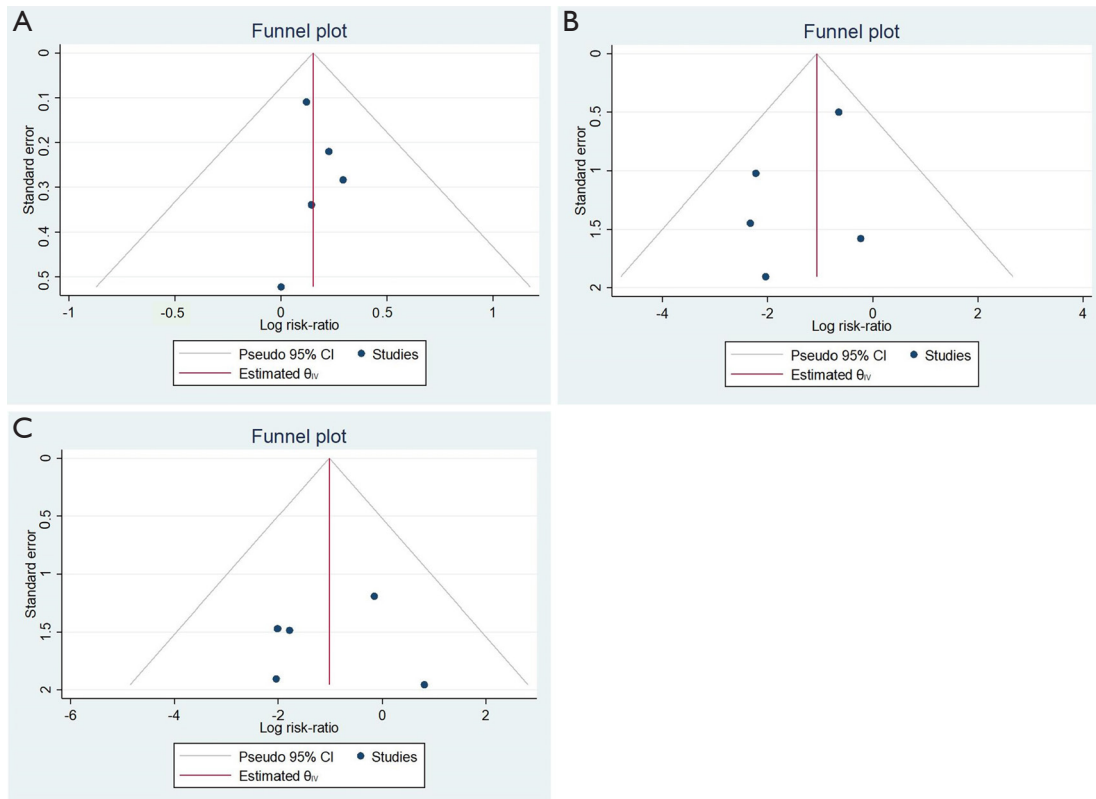


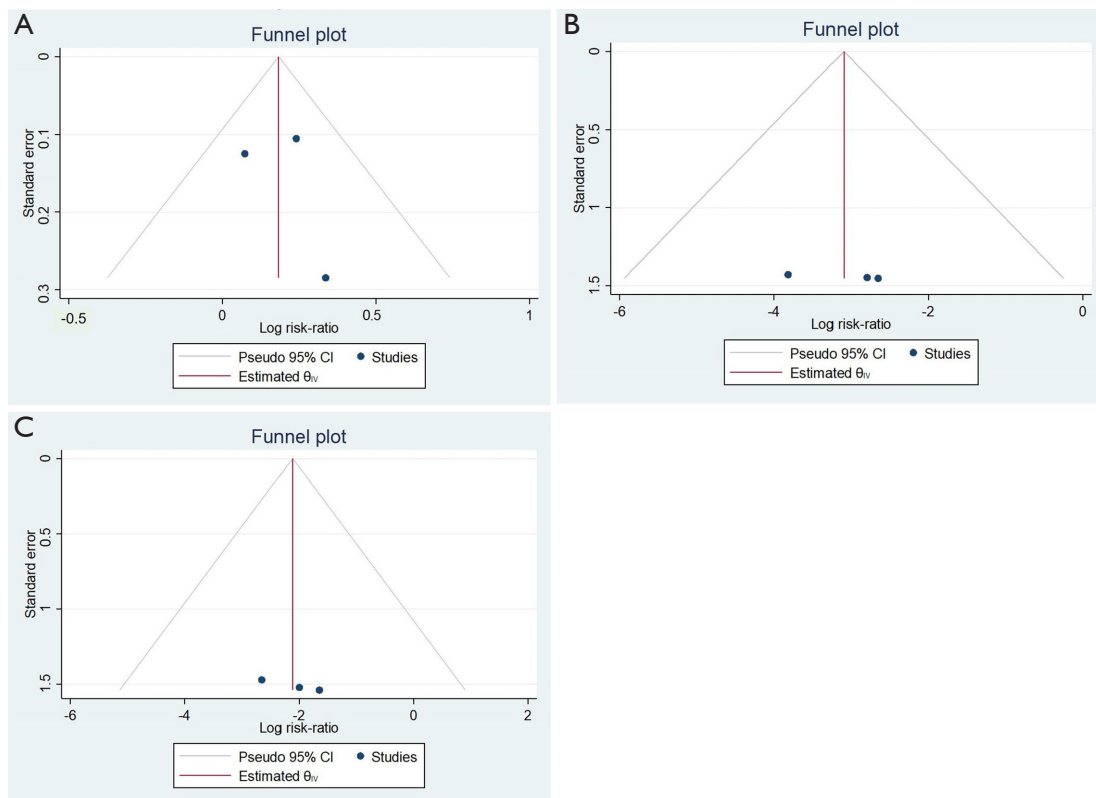
**Figure S1** Funnel plot of meta-analysis of RR of patients with lung cancer in ES and NS among Asians and non-Asians. CI, confidence interval; RR, risk ratio; ES, ever-smokers; NS, never-smokers.



**Figure S2** Funnel plot of meta-analysis of mean difference in age at diagnosis of lung cancer in NS and ES. CI, confidence interval; ES, ever-smokers; NS, never-smokers.



**Figure S3** Funnel plots of meta-analysis of RR of patients with lung cancer in NS and ES according to histology. (A) Funnel plot of meta-analysis of RR of patients with ADC lung cancer in NS and ES. (B) Funnel plot of meta-analysis of RR of patients with SqCC lung cancer in NS and ES. (C) Funnel plot of meta-analysis of RR of patients with SCLC in NS and ES. CI, confidence interval; RR, risk ratio; NS, never-smokers; ES, ever-smokers; ADC, adenocarcinoma; SqCC, squamous cell carcinoma; SCLC, small cell lung carcinoma.



**Figure S4** Funnel plots of meta-analysis of RR of lung cancer lesions in NS and ES according to histology. (A) Funnel plot of meta-analysis of RR of ADC lesions diagnosed in NS and ES. (B) Funnel plot of meta-analysis of RR of SqCC lesions diagnosed in NS and ES. (C) Funnel plot of meta-analysis of RR of SCLC lesions diagnosed in NS and ES. CI, confidence interval; RR, risk ratio; NS, never-smokers; ES, ever-smokers; ADC, adenocarcinoma; SqCC, squamous cell carcinoma; SCLC, small cell lung carcinoma.

**Table S1** A glossary of search terms

Databases	Search terms
PubMed	((tomography, X-ray computed [mesh:noexp] OR tomography, spiral computed[mesh] OR (CT[tiab] OR CAT[tiab] OR HRCT[tiab] OR LDCT[tiab]) OR (comput*[tiab] AND tomograph*[tiab])) AND (lung neoplasms[mesh:noexp] OR "adenocarcinoma of lung"[mesh:noexp] OR bronchial neoplasms[mesh] OR ((lung[tiab] OR bronchial[tiab] OR pulmonary[tiab]) AND (cancer*[tiab] OR tumor[tiab] OR tumors[tiab] OR tumour[tiab] OR tumours[tiab] OR neoplasm*[tiab] OR carcinoma*[tiab] OR adenocarcinoma*[tiab]))) AND (early diagnosis[mesh] OR (early[tiab] AND (diagnosis[tiab] OR detection[tiab])) OR screening[tiab])) AND ((non[tiab] AND smoker*[tiab]) OR (never[tiab] AND smoker*[tiab]))
SCORPUS	(TITLE-ABS-KEY ((ct OR cat OR hrct OR ldct )) OR TITLE-ABS-KEY ((comput*W/5 tomograph*)) AND TITLE-ABS-KEY ((lung OR bronchial)) AND TITLE-ABS-KEY ((cancer* OR tumor* OR tumour* OR neoplasm* OR carcinoma* OR adenocarcinoma*)) AND TITLE-ABS-KEY ((early AND (diagnosis OR detection))) AND TITLE-ABS-KEY ((screening)) AND TITLE-ABS-KEY ((non* AND smoker*)) OR TITLE-ABS-KEY ((never* AND smoker*))

**Table S2** Characteristics, and parameters of the 14 LDCT lung cancer screening studies from 15 publications identified including enrollment criteria, and participant characteristics (7)

Author (ref.)	Publication year	Region	Study period	Inclusion criteria		Participant characteristics						CT characteristics		Results		
				Age (years)	Pack years	No. of participants	Average age (years)	% Male	% Smoker	% Female NS	FH of lung cancer	Thickness (mm)	Screening interval	No. of total lung cancer diagnosed	No. of diagnosed a baseline	Modified NOS
Sobue (9)	2002	Japan	1993–1998	40–79	Any	1,611	60–69	88.0	86.0	NA	NA	10	Twice a year	36	14	8
Sone (10)	2007	Japan	1996–1998	40–74	Any	5,480	64.0	54.2	44.5	43.4	NA	10	Annual	63	38	7
Nojo <sup>†</sup> (11)	2009	Japan	2000–2007	40–59	Any	28,687	47.6	100	67.2	0	NA	10	Annual	24	13	9
Liu (I) (12)	2011	China	1994–2002	≥40	Any	3,348	51–60	63.0	30.0	NA	3.7	10	2 years	36	33	8
Liu (II) (12)	2011	China	2003–2009	≥40	Any	3,582	51–60	74.0	29.0	NA	6.9	0.75	Annual	34	32	7
Nawa (13)	2012	Japan	1998–2006	≥50	Any	25,385	60.0	NA	46.0	38.9	NA	10	Annual	210	169	8
Sone (14)	2014	Japan	2000–2010	≥40	Any	49,786	NA	49.5	44.0	44.8	NA	10	Annual	267	247	9
Henschke (8)	2015	International	2000–2013	40–90	Any	62,124	60	58.2	80.1	9.4	NA	NA	Baseline data	668	668	8
Yi (15)	2015	Korea	2006–2008	Any	Any	5,771	53.8	80.8	74.3	16.5	NA	≤2.5	Annual	59	51	9
Wu (16); Hsu (17)	2016; 2018	Taiwan (China)	2013–2014	40–80	Any	1,763	56.2	58.3	28.8	39.1	16.6	2	NA	29	NA	8
Kang <sup>†</sup> (18); Kim (19)	2019; 2020	Korea	2003–2016; 2009–2018	≥18	Any	37,436	45–49	63.6	52.0	32.9	NA	≤3	NA	207	NA	8
Kakinuma (20)	2020	Japan	2004–2012	>40	Any	12,111	58.0	60.2	50.3	32.0	NA	1,2	5 years (optional, annual)	133	122	9
Zhang (21)	2020	China	2012–2018	Any	Any	8,392	41–55	29.6	10.5	70.3	NA	NA	Annual	179	NA	7
Shan (22)	2021	China	2014–2017	≥40	Any	9,084	55.0	57.2	54.8	NA	1.7	1.25	Nodule: at least annual No nodule: NA	54	NA	8

<sup>†</sup>, publications were included for sub analyses. LDCT, low-dose computed tomography; ref., reference; CT, computed tomography; no., number; NS, never-smokers; FH, family history; NOS, Newcastle-Ottawa Scale; NA, not available.