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Supplementary Table 1. List of 52 included meta-analyses, systematic reviews, and reports on the association between secondhand smoke (SHS) exposure and lung cancer risk.

First Author, Year [reference]	Type of publication
Biggerstaff, 1994 [1]	Meta-analysis
Blot, 1986 [2]	Pooled-analysis
Boffetta, 2000 [3]	Meta-analysis
Boffetta, 2002 [4]	Meta-analysis
Brennan, 2004 [5]	Pooled-analysis
Brown, 1999 [6]	Meta-analysis
CalEPA, 2005 [7]	Report
Chappell, 1996 [8]	Meta-analysis
Cheng, 2022 [9]	Pooled-analysis
Dockery, 1997 [10]	Meta-analysis
Du, 2020 [11]	Meta-analysis
Faghani, 2022 [12]	Review
Fry, 2000 [13]	Meta-analysis
Fry, 2001 [14]	Meta-analysis
Gross, 1995 [15]	Review
Hackshaw, 1997 [16]	Meta-analysis
Hauri, 2011 [17]	Meta-analysis
Hori, 2016 [18]	Meta-analysis
Huang, 2022 [19]	Meta-analysis
IARC, 2004 [20]	Report
IARC, 2012 [21]	Report
Jayes, 2016 [22]	Review
Kim, 2014 [23]	Pooled-analysis
Kim, 2015 [24]	Pooled-analysis
Kim, 2018 [25]	Meta-analysis
Law, 1996 [26]	Meta-analysis
Lee, 2001 [27]	Meta-analysis
Lee, 2002 [28]	Meta-analysis
Lee, 2002 [29]	Meta-analysis
Letzel, 1988 [30]	Meta-analysis
LeVois, 1994 [31]	Review
Li, 2018 [32]	Meta-analysis
Ni, 2018 [33]	Meta-analysis
Okazaki, 2016 [34]	Review
Park, 2014 [35]	Meta-analysis
Saracci, 1989 [36]	Meta-analysis
SGR, 2001 [37]	Report
SGR, 2006 [38]	Report
Sheng, 2018 [39]	Meta-analysis
Spitzer, 1990 [40]	Review
Stayner, 2007 [41]	Meta-analysis
Taylor, 2001 [42]	Meta-analysis
Taylor, 2007 [43]	Meta-analysis

Tweedie, 1992 [44]	Meta-analysis
Tweedie, 1996 [45]	Meta-analysis
Wald, 1986 [46]	Meta-analysis
Wang, 1997 [47]	Meta-analysis
Wang, 2023 [48]	Review
Wells, 1998 [49]	Meta-analysis
Zhang, 2022 [50]	Review
Zhao, 2006 [51]	Meta-analysis
Zhong, 2000 [52]	Meta-analysis

CalEPA: California Environmental Protection Agency; IARC: International Agency for Research on Cancer; SGR: Surgeon General Report.

Supplementary Table 2. List of 137 publications retrieved from the umbrella review and excluded from the meta-analysis, and corresponding reason of exclusion.

First author, Year [reference]	Study design	Reason of exclusion
Alavanja, 1994 [53]	CC	Book or symposium or thesis
Asomaning, 2008 [54]	CC	No RR available
Behera, 2005 [55]	CC	Smokers included
Bennett, 1999 [56]	Case-series	Case only
Bock, 2005 [57]	CC	No RR available
Boffetta, 1998 [58]	CC	Book or symposium or thesis
Boffetta, 1999 [59]	CC	Letter
Bonner, 2006 [60]	Case-series	Case only
Brennan, 2000 [61]	CC	Letter
Brownson, 1987 [62]	CC	Controls with cancer
Buffler, 1984 [63]	CC	Book or symposium or thesis
Butler, 1988 [64]	CO	Book or symposium or thesis
Chan, 1979 [65]	CC	No information on SHS
Chan, 1982 [66]	CC	Book or symposium or thesis
Chen, 2009 [67]	CO	Book or symposium or thesis
Chiou, 2005 [68]	CC	No information on SHS
Choi, 1989 [69]	CC	Not in English
Correa, 1984 [70]	CC	Book or symposium or thesis
Dai, 1997 [71]	CC	Not in English
de Andrade, 2004 [72]	CO	No RR available
Du, 1993 [73]	CC	Book or symposium or thesis
Du, 1995 [74]	CC	Book or symposium or thesis
Fang, 2006 [75]	CC	Not in English
Franco-Marina, 2006 [76]	CC	Smokers included
Garfinkel, 1985 [77]	CC	Controls with cancer or other diseases
Geng, 1988 [78]	CC	Book or symposium or thesis
Ger, 1993 [79]	CC	Smokers included
Gillis, 1984 [80]	CC	No RR available
Guan, 2020 [81]	CC	Not in English
Hackshaw, 1997 [16]	MA	Not original estimates
He, 2011 [82]	CO	Not on lung cancer
Hirayama, 1981 [83]	CC	Letter
Hirayama, 1983 [84]	CO	Letter
Hirayama, 1984 [85]	CO	Book or symposium or thesis
Hirayama, 1984 [86]	CO	Book or symposium or thesis
Hirayama, 1987 [87]	CO	Book or symposium or thesis
Hirayama, 1990 [88]	CO	Not in English
Hosgood, 2012 [89]	CC	Smokers included
Huang, 2011 [90]	CC	Not in English

Humble, 1987 [91]	CC	95% CIs not computable
Inoue, 1988 [92]	CC	Book or symposium or thesis
Izumi, 2004 [93]	CO	All cancer sites combined
Jang, 2015 [94]	Case-series	Case only
Jee, 2004 [95]	CO	No information on SHS
Jiang, 2010 [96]	CC	Not in English
Jin, 2009 [97]	CC	No information on SHS
Jo, 2008 [98]	CC	No information on SHS
Jockel, 1991 [99]	CC	Not in English
Jou, 2009 [100]	CC	No RR available
Kabat, 1984 [101]	CC	No RR available
Kabat, 1990 [102]	CC	Book or symposium or thesis
Katada, 1998 [103]	CC	Not in English
Kim, 2014 [104]	CC	No RR available
Kiyohara, 2003 [105]	CC	Wrong reference group
Kiyohara, 2010 [106]	CC	No RR available
Kleinerman, 2000 [107]	CC	Abstract only
Kleinerman, 2002 [108]	CC	No information on SHS
Ko, 2000 [109]	CC	No RR available
Koo, 1983 [110]	CC	Not in English
Koo, 1984 [111]	CC	Not in English
Koo, 1985 [112]	CC	Not original estimates
Lam, 1985 [113]	CC	Book or symposium or thesis
Lam, 1988 [114]	CC	Book or symposium or thesis
Lan, 2004 [115]	CC	No information on SHS
Lan, 2008 [116]	CC	Smokers included
Layard, 1995 [117]	CC	Not on lung cancer
Lee, 1984 [118]	CC	Book or symposium or thesis
Lee, 1988 [119]	NA	Book or symposium or thesis
Lee, 2010 [120]	Case-series	Case only
Li, 2000 [121]	CC	Not in English
Li, 2005 [122]	CC	Not in English
Li, 2008 [123]	CC	Not in English
Li, 2010 [124]	CC	No RR available
Li, 2011 [125]	CC	Not in English
Li, 2020 [126]	CC	Not in English
Liang, 2009 [127]	CC	Wrong reference group
Liang, 2009 [128]	CC	Not original estimates
Lin, 1994 [129]	CC	Not in English
Lin, 1996 [130]	CC	Not in English
Lin, 2010 [131]	CC	Book or symposium or thesis
Liu, 1990 [132]	CC	Not in English
Liu, 2001 [133]	CC	Not in English

Liu, 2010 [134]	CC	Not in English
Liu, 2015 [135]	CC	Not in English
Luo, 1996 [136]	CC	Smokers included
Lv, 2003 [137]	CC	Not in English
Ma, 2021 [138]	CC	Not in English
Mu, 2021 [139]	CC	Not in English
Pan, 2014 [140]	CC	Not in English
Pan, 2018 [141]	CC	No RR available
Phukan, 2014 [142]	CC	Smokers included
Ren, 2015 [143]	CC	No RR available
Reynolds, 1996 [144]	Comment	Letter
Sandler, 1985 [145]	CC	Smokers included
Sandler, 1985 [146]	CC	Smokers included
Schwartz, 2007 [147]	CC	No RR available
Seow, 2002 [148]	CC	No RR available
Shen, 1996 [149]	CC	No RR available
Shen, 2014 [150]	CC	No RR available
Shi, 2005 [151]	CC	Not in English
Shi, 2006 [152]	CC	Not in English
Shimizu, 1988 [153]	CC	Controls with cancer or other diseases
Shiraishi, 2009 [154]	CC	No RR available
Sobue, 1990 [155]	CC	Not in English
Song, 1999 [156]	CC	Not in English
Stayner, 2007 [41]	MA	Not original estimates
Su, 2013 [157]	CC	Not in English
Sun, 1995 [158]	CC	Not in English
Sun, 1996 [159]	CC	Book or symposium or thesis
Taylor, 2007 [43]	MA	Not original estimates
Trichopoulos, 1983 [160]	CC	Letter
Tse, 2011 [161]	CC	Smokers included
Varela, 1987 [162]	CC	Book or symposium or thesis
Wang, 1995 [163]	CC	Abstract only
Wang, 1996 [164]	CC	Not in English
Wang, 1996 [165]	CC	Abstract only
Wang, 2002 [166]	CC	Not in English
Wenzlaff, 2005 [167]	CC	No RR available
Wenzlaff, 2005 [168]	CC	No RR available
Wu, 2009 [169]	CC	No RR available
Wu-Williams, 1990 [170]	CC	Not original estimates
Xiang, 2003 [171]	CC	Not in English
Xu, 1989 [172]	CC	Smokers included
Xu, 2001 [173]	CC	No RR available
Xue, 2013 [174]	CC	No RR available

Yoon, 2008 [175]	CC	No RR available
Yu, 1996 [176]	CC	Abstract only
Yu, 2015 [177]	CC	Not in English
Zaridze, 1994 [178]	CC	Not in English
Zaridze, 1995 [179]	CC	Not in English
Zaridze, 1998 [180]	CC	Controls with cancer
Zhao, 2013 [181]	CC	Not in English
Zheng, 1997 [182]	CC	Not in English
Zhong, 1995 [183]	CC	Not in English
Zhong, 2000 [52]	MA	Not original estimates
Zhou, 2000 [184]	CC	Not in English
Ziegler, 1984 [185]	CC	No RR available

CC: case-control study; CO: cohort study; CI: confidence interval; NA: not available; MA: meta-analysis; RR: relative-risk.

Supplementary Table 3. List of 27 eligible publications excluded from the meta-analysis because of duplicated data from the same studies, and corresponding reason of exclusion.

First author, Year [reference]	Study design	Reason of exclusion
Chuang, 2011 [186]	CO	Included in Vineis, 2007 [187]
Fang, 2016 [188]	CC	Included in Qu, 2019 [189] and Ren, 2013 [190]
Fontham, 1991 [191]	CC	Majority of subjects included in Fontham, 1994 [192]
Fowke, 2011 [193]	NCC	Included in Weiss, 2008 [194]
Garfinkel, 1981 [195]	CO	Included in Enstrom, 2003 [196]
Gorlova, 2008 [197]	CC	Included in Spitz, 2011 [198]
Gorlova, 2011 [199]	CC	Included in Spitz, 2011 [198]
He, 2017 [200]	CC	Same cases of Zhuang, 2022 [201]
Hirayama, 1981 [202]	CO	Included in Hirayama, 1984 [203]
Hosseini, 2009 [204]	CC	Included in Masjedi, 2013 [205]
Kabat, 1996 [206]	CC	Included in Kabat, 1995 [207]
Ko, 1997 [208]	CC	Included in Lee, 2000 [209]
Kreuzer, 2002 [210]	CC	Included in Kreuzer, 2000 [211]
Kubik, 2001 [212]	CC	Included in Zatloukal, 2003 [213]
Kubik, 2002 [214]	CC	Included in Zatloukal, 2003 [213]
Lo, 2010 [215]	CC	Included in Lo, 2013 [216] and Lo, 2011 [217]
Nyberg, 1998 [218]	CC	Included in Boffetta, 1998 [219]
Olivo-Marston, 2009 [220]	CC	Included in Spitz, 2011 [198] and Kim, 2014 [23]
Schwartz, 1996 [221]	CC	Included in Kim, 2014 [23]
Torres-Durán, 2015 [222]	CC	Included in Tubío-Pérez, 2022 [223]
Trichopoulos, 1981 [224]	CC	Included in Kalandidi, 1990 [225]
Vineis, 2005 [226]	NCC	Included in Vineis, 2007 [187]
Wang, 1994 [227]	CC	Included in Wu-Williams, 1990 [228]
Yang, 2008 [229]	CC	Included in Spitz, 2011 [198]
Yang, 2019 [230]	CC	Included in Qu, 2019 [189] and Ren, 2013 [190]
Yu, 2006 [231]	CC	Included in Wang, 2009 [232]
Zhong, 1999 [233]	CC	Included in Zhong, 1999 [234]

CC: case-control study; CO: cohort study, NCC: nested case-control.

Supplementary Table 4. Main characteristics of the 71 case-control studies on the association between secondhand smoke (SHS) exposure and lung cancer risk included in the review, and corresponding information contributing to the meta-analysis.

First Author, Year [reference]	Country	Type of controls	N. of cases	N. of controls	Type of exposure						Dose-response			Subtypes				
					Partner	Home	Work	Home-work	Non-specified settings	Childhood	Intensity	Duration	Pack-years	Adenocarcinoma	SQ	LC	SCLC	NSCLC
Akiba, 1986 [235]	Japan	P	113	380	X ^b	X ^b					X ^b	X ^b						
Al-Zoughool, 2013 [236]	Canada	P	44	436	X	X			X	X			X					
Boffetta, 1998 [219]	Europe	M	650 ^a	1542 ^a	X	X	X	X		X	X	X	X	X	X		X	O
Boffetta, 1999 [237]	Europe	M	70	178	X	X	X	X		X		X	X	X				
Brennan, 2004 [5]	USA, Germany, Italy, Sweden, United Kingdom, France, Spain and Portugal	M	1263 ^a	2740 ^a								X						
Brenner, 2010 [238]	Canada	M	156	466		X	X	X		X		X						
Brownson, 1992 [239]	USA	P	431	1166	X	X				X			X					
Chan-Yeung, 2003 [240]	China	H	158	209		X		X	X									
Cheng, 2022 (a) [241]	Australia	P	58	1316					O	O								
Correa, 1983 [242]	USA	H	30	313	O	O							O					
Dalager, 1986 [243]	USA	M	99	736	X	X					X	X	X	X				X
Du, 1996 [244]	China	P	75 ^a	128 ^a							O							
Fontham, 1994 [192]	USA	P	653 ^a	1253 ^a	X	X	X		O	X			X	X				X
Galeone, 2008 [245]	China	H	60	216				X										
Gallegos-Arreola, 2008 [246]	Mexico	P	32	138					X									

Gao, 1987 [247]	China	P	246	375	X	X				X		X						
Gorlova, 2006 [248]	USA	H	280 ^a	242 ^a		O	O	O										
Han, 2017 [249]	China	P	99	99			X						X				X	
Janerich, 1990 [250]	USA	P	191	191	X	X			X			X						
Jockel, 1998 [251]	Germany	P	55	160	X	X			O									
Johnson, 2001 [252]	Canada	P	71	761		O	O	X		O		X						
Kabat, 1995 [207]	USA	H	110	304	X	X	X			X	X							
Kalandidi, 1990 [225]	Greece	H	91	120	X	X	X						X				X	
Kim, 2015 [24]	North America, Europe, Asia/Oceania	M	170 ^a	3035 ^a														
Kim, 2014 [25]	North America, Europe, Asia/Oceania	M	2504	7276		X	X	X	X	X		X		X	X	X	X	O
Koo, 1987 [253]	China	P	88	137	X	O			X	O	X	X						O
Kreuzer, 2001 [254]	Germany	P	58 ^a	803 ^a														
Kreuzer, 2000 [211]	Germany	P	292	1338	X	X	X		X	X			X	X				X
Lam, 1987 [255]	China	P	199	335	X	X				X			X	X	X	X	X	O
Lee, 2000 [209]	Taiwan	H	268	445	O	X	O	X		X			O					
Lee, 1986 [256]	UK	H	47	96	X	O	O											
Lei, 1996 [257]	China	P	75	128	X	X				X	X							
Li, 2016 [258]	China	P	103 ^a	375 ^a										X				X
Liang, 2019 [259]	China	P	1086	2172		X	X											
Lin, 2012 [260]	China	P	226 ^a	269								X						
Liu, 1993 [261]	China	H	38	69	X	X				X								
Liu, 1991 [262]	China	P	-	-		X												
Liu, 2020 [263]	China	P	388	1574					X									
Lo, 2013 [216]	Taiwan	H	1540	1540	X	X	X	X										
Lo, 2011 [217]	Taiwan	H	462 ^a	462 ^a					O			O		O				
Malats, 2000 [264]	Sweden, Germany, France, Italy, Russia, Romania, Poland, and Brazil	M	122	121	X	X		X										
Masjedi, 2013 [205]	Iran	M	81	289					X									

McGhee, 2005 [265]	China	P	324	663		X												
Mu, 2013 [266]	China	P	179	285		X	O	O										
Nyberg, 1998 [267]	Sweden	P	124	235	X	X	X	X		X	X	X	X					
Qu, 2019 [189]	China	H	345	351					X									
Rachtan, 2002 [268]	Poland	P	54	251		X				X					X		X	X
Rapiti, 1999 [269]	India	M	58	123	X	X				X								
Ren, 2013 [190]	China	H	764	983					X					X				X
Seki, 2013 [270]	Japan	H	362	2410	X	X								X	X		X	O
Shen, 1998 [271]	China	P	70	70					X		X	X		X				
Sobue, 1990 [272]	Japan	H	144	731	X	X				X								
Spitz, 2011 [198]	USA	M	451 ^a	708 ^a														X
Stockwell, 1992 [273]	USA	P	210	301	X	X				X				X				X
Svensson, 1989 [274]	Sweden	M	34	174		X		X		X								
Torres-Durán, 2014 [275]	Spain	H	177 ^a	272 ^a								O						
Tse, 2009 [276]	China	P	132	536		X	X	X				X	X	X				X
Tubío-Pérez, 2022 [223]	Spain	H	457	631		X												
Wang, 2000 [277]	China	P	228	521		X				X				X				
Wang, 2009 [232]	China	P	213	292				X										
Wang, 1996 (a) [278]	China	P	135	135	X	X	X		X	X	X	X						
Wang, 1996 (b) [279]	China	H	83	-				X										
Wu, 1985 [280]	USA	P	31	92	X	X	X			X				X				X
Wu-Williams, 1990 [228]	China	P	417	602	X	X	X											
Yang, 2015 [281]	China	P	735	914	X	X			X	X								
Yin, 2014 (a) [282]	China	H	154 ^a	170 ^a										X				
Yin, 2014 (b) [283]	China	H	306	318					X									
Zatloukal, 2003 [213]	Czech Republic	P	84	889		X		X		X				X				X
Zhong, 1999 [234]	China	P	504	601	X	X	X	O		X	X	X		X				X
Zhou, 2000 [284]	China	P	72 ^a	72 ^a										X				X
Zhuang, 2022 [201]	China	P	623	985		O	O	X						X	X			O
TOTAL (1983-2022)			15,647	36,804	32	48	23	20	18	27	13	19	13	21	7	2	5	24

H: hospital; LC: large cell carcinoma; M: mixed; NSCLC: non-small-cell lung cancer; O symbol indicates that estimates were derived from the information provided in the original study publication; P: population; SCLC: small-cell lung cancer; SQ: squamous cell carcinoma; X symbol indicates that estimates were provided in the original study publication. ^a Number of subjects not included in the total, because overall estimates are already included in other articles; ^b IC recomputed.

Supplementary Table 5. Main characteristics of the 27 cohort studies on the association between secondhand smoke (SHS) exposure and lung cancer risk included in the review, and corresponding information contributing to the meta-analysis.

First Author, Year [reference]	Country (cohort name)	Endpoint	N. of cases	Type of exposure						Dose-response			Subtypes					
				Partner	Home	Work	Home-work	Non-specified settings	Childhood	Intensity	Duration	Pack-years	Adenocarcinoma	SQ	LC	SCLC	NSCLC	
Abdel-Rahman, 2020 [285]	USA (PLCO)	IM	136		O	O	X		X									
Cardenas, 1997 [286]	USA (CPS-II)	M	247	X	X					X	X	X						
Cheng, 2022 (a) [9]	Australia (45 and Up Study)	I	226					O										
Cheng, 2022 (b) [241]	China (China Kadoorie Biobank)	M	979		X			X			O							
de Waard, 1995 [287]	Netherlands (Cancer Registry)	I	23					O										
Enstrom, 2003 [196]	USA (CPS I)	M	365	X	X													
Erhunmwunsee, 2022 [288]	USA (Black Women's Health Study)	I	77		X	X												X
Hansen, 2021 [289]	Norway (NOWAC)	I	96		X													
He, 2012 [290]	China (4th Military Medical University teaching hospital)	M	16		X	X	X											
Hill, 2007 [291]	New Zealand (New Zealand Census Mortality Study)	M	309		X													
Hirayama, 1984 [203]	Japan (29 Health Center Districts in Japan)	M	264	O	O					O								
Hole, 1989 [292]	UK (Renfrew and Paisley)	M	9		X													
Jee, 1999 [293]	Korea (KMIC)	I	79	X	X					X	X							

Kurahashi, 2008 [294]	Japan (JPHC Study (I and II))	I	109	X	X	X	X	X	X	X		X	X				X
Li, 2020 [295]	China (Qibao urban-rural integration town)	I	152				X										
Miller, 1994 [296]	USA (ECSSH)	M	28					X									
Nishino, 2001 [297]	Japan (two towns in Miyagi Prefecture)	I	24	X	X												
Ozasa, 2007 [298]	Japan (JACC study)	M	231		X				X								
Pershagen, 1987 [299]	Sweden (National Census of Sweden and the "old" Swedish twin register)	M	92	X	X												
Pirie, 2016 [300]	UK (Million Women Study)	I	1469	X	X				X				X				X
Speizer, 1999 [301]	USA (Nurses' Health)	I	58					X									
Veglia, 2007 [302]	Europe (EPIC)	I	752														
Vineis, 2007 [187]	Europe (EPIC)	I	-		X	X	X		X								
Wang, 2015 [303]	USA (WHI-OS)	I	152		X	X	X		X		X						
Weiss, 2008 [194]	China (Shanghai Women's Health)	I	198				X										
Wen, 2006 [304]	China (Shanghai Women's Health)	M	-	X	X	X		X	X		X	X					
Zhang, 2022 [305]	USA (NHANES study)	M	-				O			X							
TOTAL (1984-2022)			6091	9	19	7	8	7	7	5	5	3	2	0	0	0	3

CPS: American Cancer Society's Cancer Prevention Study; ECSSH: Erie County Study on Smoking and Health; EPIC: European Prospective Investigation into Cancer and Nutrition; I: Incidence; JACC: Japan Collaborative Cohort Study for Evaluation of Cancer Risk; JPHC: Japan Public Health Center-based prospective Study; KMIC: Korea Medical Insurance Corporation; LC: large cell carcinoma; M: Mortality; NHANES: National Health and Nutrition Examination Survey; NOWAC: Norwegian Women and Cancer Study; NSCLC: non-small-cell lung cancer; PLCO: The Prostate, Lung, Colorectal and Ovarian Cancer Screening Trial; SCLC: small-cell lung cancer; SQ: squamous cell carcinoma; WHI-OS: Women's Health Initiative Observational Study.

Note that Cheng, 2022 (a) [9] is reported in both Supplementary Table 1 and Supplementary Table 2 because it is a pooled analysis considering both a case-control study and a cohort study.

Supplementary Table 6. List of publications for which data have been partially excluded from the meta-analysis and reason for exclusion.

First author, Year [reference]	Excluded estimates	Reason
Boffetta, 1998 [219]	Duration	Included in Brennan, 2004 [5]
Brennan, 2004 [5]	Exposure from partner, exposure at workplace, exposure in non-specified settings	Included in Boffetta, 1998 [219] and Fontham, 1994 [192]
Du, 1996 [244]	Duration, exposure from partner	Included in Lei, 1996 [257]
Fontham, 1994 [192]	Duration	Included in Brennan, 2004 [5]
Kim, 2015 [24]	Duration, exposure at home, exposure at workplace, exposure at home or at workplace, exposure during childhood, adenocarcinoma	Included in Kim, 2014 [23]
Li, 2016 [258]	Exposure at home or at workplace, adenocarcinoma	Included in Tse, 2009 [276]
Lin, 2012 [260]	Exposure at home or at workplace	Included in Zhuang, 2022 [201]
Spitz, 2011 [198]	Results from Mayo Clinic Study	Partially included in Kim, 2014 [23]
Torres-Durán, 2014 [275]	Exposure at home	Included in Tubío-Pérez, 2022 [223]
Veglia, 2007 [302]	Exposure at workplace	Included in Vineis, 2007 [187]
Wen, 2006 [304]	Exposure at home or at workplace	Included in Weiss, 2008 [194]
Yin, 2014 [282]	Exposure in non-specified settings	Included in Yin, 2014 [283]
Zhou, 2000 [284]	Duration, exposure from partner, exposure at workplace, exposure during childhood	Included in Wang, 1996 [278]
Wells, 1991 [305] (Reporting Sandler, 1985 a [145])	Exposure from partner	Included in Wells, 1998 [49]

Supplementary Table 7. Quality evaluation of the 71 case-control studies included in the present meta-analysis using the New-Castle Ottawa (NOS) scale^a.

Author, Year	SELECTION				COMPARABILITY	EXPOSURE			TOTAL NOS SCORE
	Adequate definition of cases	Representativeness of cases	Selection of Controls	Definition of controls	Comparability of cases and controls ^b	Ascertainment of exposure	Same methods of ascertainment of exposure	Non-response rate	
Akiba, 1986 [235]	☆	☆	☆	-	☆	☆	☆	☆	7
Al-Zoughool, 2013 [306]	☆	☆	☆	-	☆	-	☆	-	5
Boffetta, 1998 [219]	☆	-	-	-	☆	-	☆	-	3
Boffetta, 1999 [237]	☆	☆	-	-	☆	-	☆	☆	5
Brennan, 2004 [5]	☆	-	-	☆	☆	-	☆	-	4
Brenner, 2010 [238]	☆	☆	-	-	☆	-	☆	☆	5
Brownson, 1992 [239]	☆	☆	☆	-	☆	-	☆	☆	6
Chan-Yeung, 2003 [240]	☆	☆	-	-	☆☆	-	☆	☆	6
Cheng, 2022 [9]	-	-	☆	-	☆☆	-	☆	-	4
Correa, 1983 [242]	☆	-	-	-	☆	-	☆	-	3
Dalager, 1986 [243]	☆	-	-	-	☆	-	☆	-	3
Du, 1996 [244]	☆	☆	☆	-	☆	-	☆	-	5
Fontham, 1994 [192]	☆	☆	☆	☆	☆☆	-	☆	-	7
Galeone, 2008 [245]	☆	-	-	-	☆☆	-	☆	☆	5
Gallegos-Arreola, 2008 [246]	☆	☆	☆	-	-	-	☆	☆	5
Gao, 1987 [247]	☆	☆	☆	-	☆	-	☆	-	5
Gorlova, 2006 [248]	☆	☆	-	☆	☆	-	☆	☆	6
Han, 2017 [249]	☆	☆	☆	☆	☆	-	☆	-	6
Janerich, 1990 [250]	☆	☆	☆	-	☆	-	☆	-	5
Jockel, 1998 [251]	☆	-	☆	-	☆	-	☆	☆	5
Johnson, 2001 [252]	☆	-	☆	-	☆	☆	☆	☆	6
Kabat, 1995 [207]	☆	-	-	-	☆	-	☆	☆	4
Kalandidi, 1990 [225]	☆	☆	-	-	☆	-	☆	-	4

Kim, 2014 [23]	-	-	-	-	☆	-	☆	-	2
Kim, 2015 [24]	-	-	-	-	☆	-	☆	☆	3
Koo, 1987 [253]	☆	-	☆	-	☆	-	☆	☆	5
Kreuzer, 2000 [211]	☆	-	☆	-	☆	-	☆	-	4
Kreuzer, 2001 [254]	☆	☆	☆	-	☆☆	-	☆	-	6
Lam, 1987 [255]	☆	☆	-	-	☆	☆	☆	☆	6
Lee, 1986 [256]	☆	-	-	-	☆	-	☆	-	3
Lee, 2000 [209]	☆	☆	-	-	☆☆	-	☆	☆	6
Lei, 1996 [257]	☆	☆	☆	☆	☆	-	☆	☆	7
Li, 2016 [258]	☆	☆	☆	☆	☆☆	-	☆	-	7
Liang, 2019 [259]	☆	-	☆	☆	☆☆	-	☆	☆	7
Lin, 2012 [260]	☆	☆	☆	-	☆☆	-	☆	-	6
Liu, 1991 [262]	☆	-	☆	-	☆☆	-	☆	☆	6
Liu, 1993 [261]	☆	☆	-	-	☆	-	☆	☆	5
Liu, 2020 [263]	☆	☆	☆	-	☆☆	-	☆	-	6
Lo, 2011 [217]	☆	-	-	-	☆	-	☆	☆	4
Lo, 2013 [216]	☆	☆	-	☆	☆	-	☆	☆	6
Malats, 2000 [264]	☆	-	-	-	☆	-	☆	-	3
Masjedi, 2013 [205]	☆	-	-	-	☆	-	☆	☆	4
McGhee, 2005 [265]	☆	☆	☆	-	-	☆	☆	-	5
Mu, 2013 [266]	☆	☆	☆	☆	☆	-	☆	☆	7
Nyberg, 1998 [267]	☆	☆	☆	-	☆☆	-	☆	☆	7
Qu, 2019 [189]	☆	☆	-	-	☆☆	-	☆	-	5
Rachtan, 2002 [268]	☆	-	☆	-	☆	-	☆	☆	5
Rapiti, 1999 [269]	☆	☆	-	-	☆	-	☆	-	4
Ren, 2013 [190]	☆	-	-	-	-	-	☆	-	2
Seki, 2013 [270]	☆	☆	-	☆	☆☆	-	☆	☆	7
Shen, 1998 [271]	☆	☆	☆	-	☆	-	☆	-	5
Sobue, 1990 [272]	☆	☆	-	-	☆	-	☆	☆	5
Spitz, 2011 [198]	☆	☆	-	☆	☆	-	☆	☆	6
Stockwell, 1992 [273]	☆	☆	☆	-	☆	-	☆	☆	6

Svensson, 1989 [274]	☆	☆	-	-	☆	-	☆	-	4
Torres-Durán, 2014 [275]	☆	-	-	-	☆	-	☆	☆	4
Tse, 2009 [276]	☆	☆	☆	-	☆	-	☆	-	5
Tubío-Pérez, 2022 [223]	☆	-	-	-	☆☆	-	☆	☆	5
Wang, 1996 [279]	☆	-	-	-	☆	-	☆	-	3
Wang, 1996 [278]	☆	☆	☆	-	☆	-	☆	-	5
Wang, 2000 [277]	☆	☆	☆	-	☆	-	☆	☆	6
Wang, 2009 [232]	☆	☆	☆	☆	☆☆	-	☆	-	7
Wu, 1985 [280]	☆	☆	☆	☆	☆	-	☆	☆	7
Wu-Williams, 1990 [228]	☆	☆	☆	-	☆	-	☆	-	5
Yang, 2015 [281]	☆	-	☆	-	☆	-	☆	-	4
Yin, 2014 [283]	☆	-	-	☆	☆	-	☆	-	4
Yin, 2014 [282]	☆	☆	-	-	☆	-	☆	-	4
Zatloukal, 2003 [213]	☆	☆	☆	-	☆	-	☆	-	5
Zhong, 1999 [234]	☆	☆	☆	-	☆☆	-	☆	☆	7
Zhou, 2000 [284]	☆	☆	☆	-	☆☆	-	☆	-	6
Zhuang, 2022 [201]	☆	-	☆	-	☆☆	-	☆	☆	6

^a Each item could be scored with a maximum of one star, except for the item “Comparability of cases and controls” which could receive a maximum of two stars; ^b Studies controlling for age or sex in the design or in the analysis received one star. Studies with all the previous variables and at least one of the following variables: exposure to pollutants (e.g., air pollution, radon, asbestos) and family history of lung cancer, received two stars.

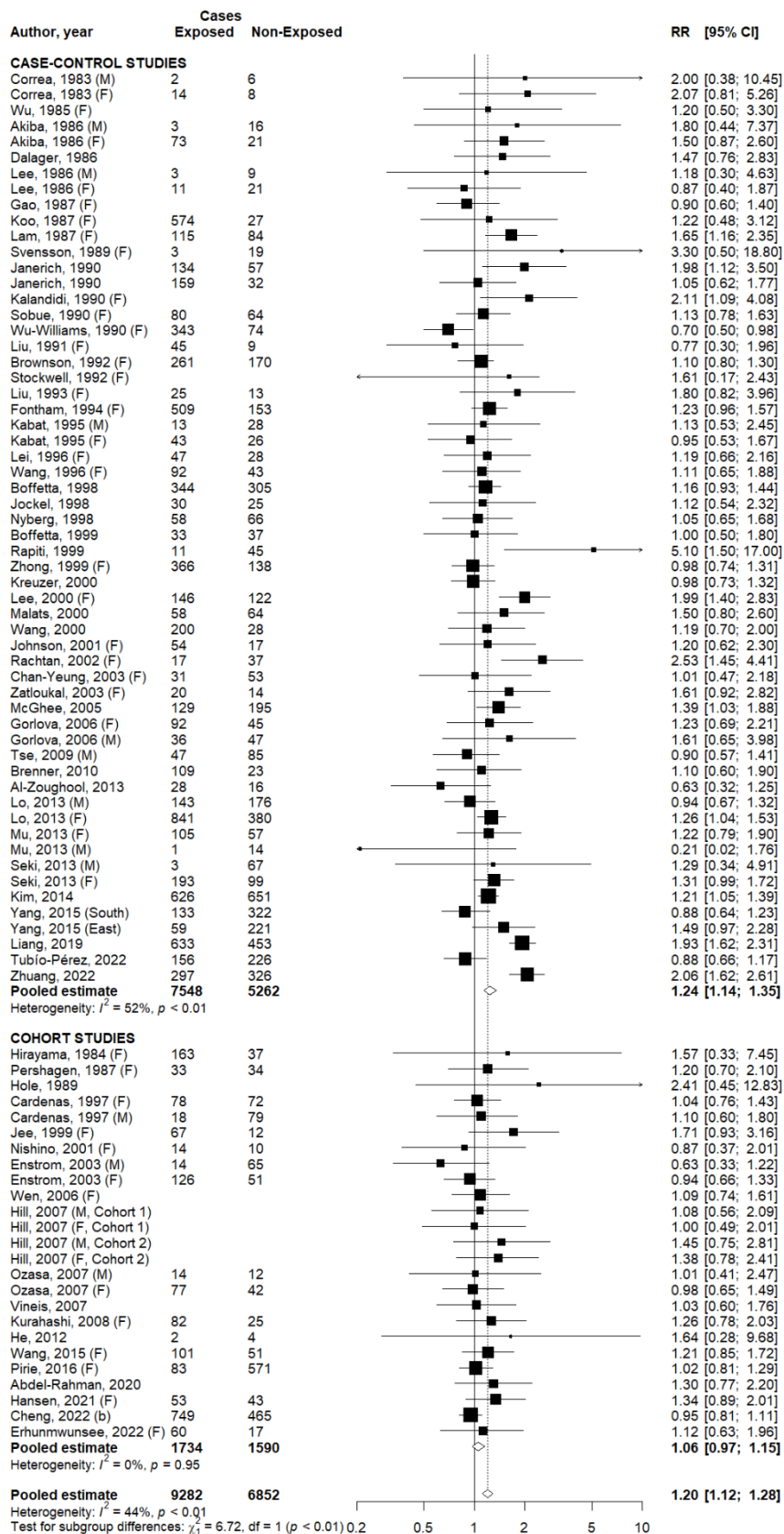
Supplementary Table 8. Quality evaluation of the 27 cohort studies included in the present meta-analysis using the New-Castle Ottawa (NOS) scale^a.

Author, Year	SELECTION				COMPARABILITY	EXPOSURE			TOTAL NOS SCORE
	Representativeness of the exposed cohort	Selection of the non-exposed cohort	Ascertainment of exposure	Outcome of interest not present at start of study	Comparability of cohorts ^b	Ascertainment of outcome	Follow-up long enough for outcome to occur ^c	Adequacy of follow-up cohorts ^d	
Abdel-Rahman, 2020 [285]	☆	☆	☆	☆	☆☆	☆	☆	-	8
Cardenas, 1997 [286]	☆	☆	☆	-	☆☆	☆	-	☆	7
Cheng, 2022 [9]	☆	☆	-	☆	☆☆	☆	-	-	6
Cheng, 2022 [241]	☆	☆	☆	☆	☆☆	☆	☆	-	8
de Waard, 1995 [287]	☆	☆	-	-	-	☆	☆	-	4
Enstrom, 2003 [196]	☆	☆	☆	☆	☆	☆	☆	☆	8
Erhunmwunsee, 2022 [288]	☆	☆	☆	-	☆☆	☆	☆	-	7
Hansen, 2021 [289]	☆	☆	☆	☆	☆	☆	☆	☆	8
He, 2012 [290]	☆	☆	☆	-	☆	☆	☆	☆	7
Hill, 2007 [291]	☆	☆	☆	-	☆	☆	-	☆	6
Hirayama, 1984 [203]	☆	☆	☆	-	-	☆	☆	-	5
Hole, 1989 [292]	☆	☆	☆	-	☆	☆	☆	-	6
Jee, 1999 [293]	-	☆	☆	-	☆	☆	-	☆	5
Kurahashi, 2008 [307]	☆	☆	☆	☆	☆☆	☆	☆	☆	9
Li, 2020 [295]	-	☆	☆	☆	☆☆	☆	-	-	6
Miller, 1994 [296]	☆	☆	☆	-	-	☆	☆	-	5
Nishino, 2001 [297]	☆	☆	☆	☆	☆	☆	-	-	6
Ozasa, 2007 [298]	-	-	☆	-	-	-	-	-	1
Pershagen, 1987 [299]	☆	☆	☆	-	☆	☆	☆	-	6
Pirie, 2016 [300]	☆	☆	☆	☆	☆	☆	☆	-	7
Speizer, 1999 [301]	-	☆	☆	☆	☆	☆	☆	-	6

Veglia, 2007 [302]	☆	☆	☆	-	☆	☆	-	-	5
Vineis, 2007 [187]	☆	☆	☆	-	☆	☆	-	-	5
Wang, 2015 [303]	☆	☆	☆	-	☆☆	☆	☆	-	7
Weiss, 2008 [194]	☆	☆	☆	☆	-	☆	-	-	5
Wen, 2006 [304]	☆	☆	☆	-	☆	☆	-	☆	6
Zhang, 2022 [305]	☆	☆	☆	-	☆	-	-	-	4

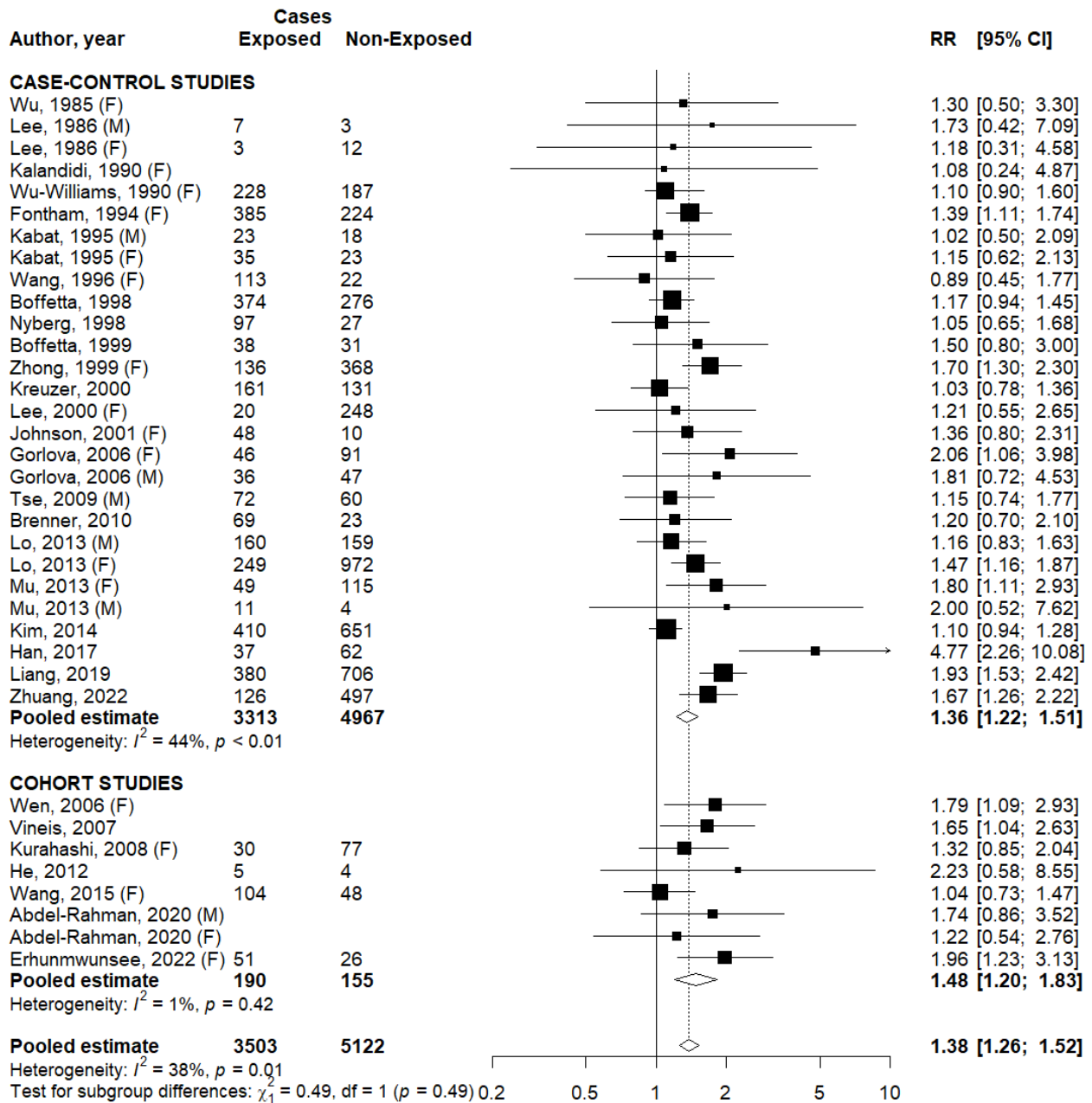
^a Each item could be scored with a maximum of one star, except for the item “Comparability of cohorts” which could receive a maximum of two stars; ^b Studies controlling for age or sex in the design or in the analysis received one star. Studies with all the previous variables and at least one of the following variables: exposure to pollutants (e.g., air pollution, radon, asbestos) and family history of lung cancer, received two stars; ^c Studies with follow-up time ≥ 10 years received one star; ^d Studies with follow-up rate $\geq 80\%$ or with a description of those lost at follow-up received one star.

Supplementary Figure 1. Forest plot of study-specific and pooled relative risk (RR) of lung cancer for secondhand smoke (SHS) exposure at home, by study design.



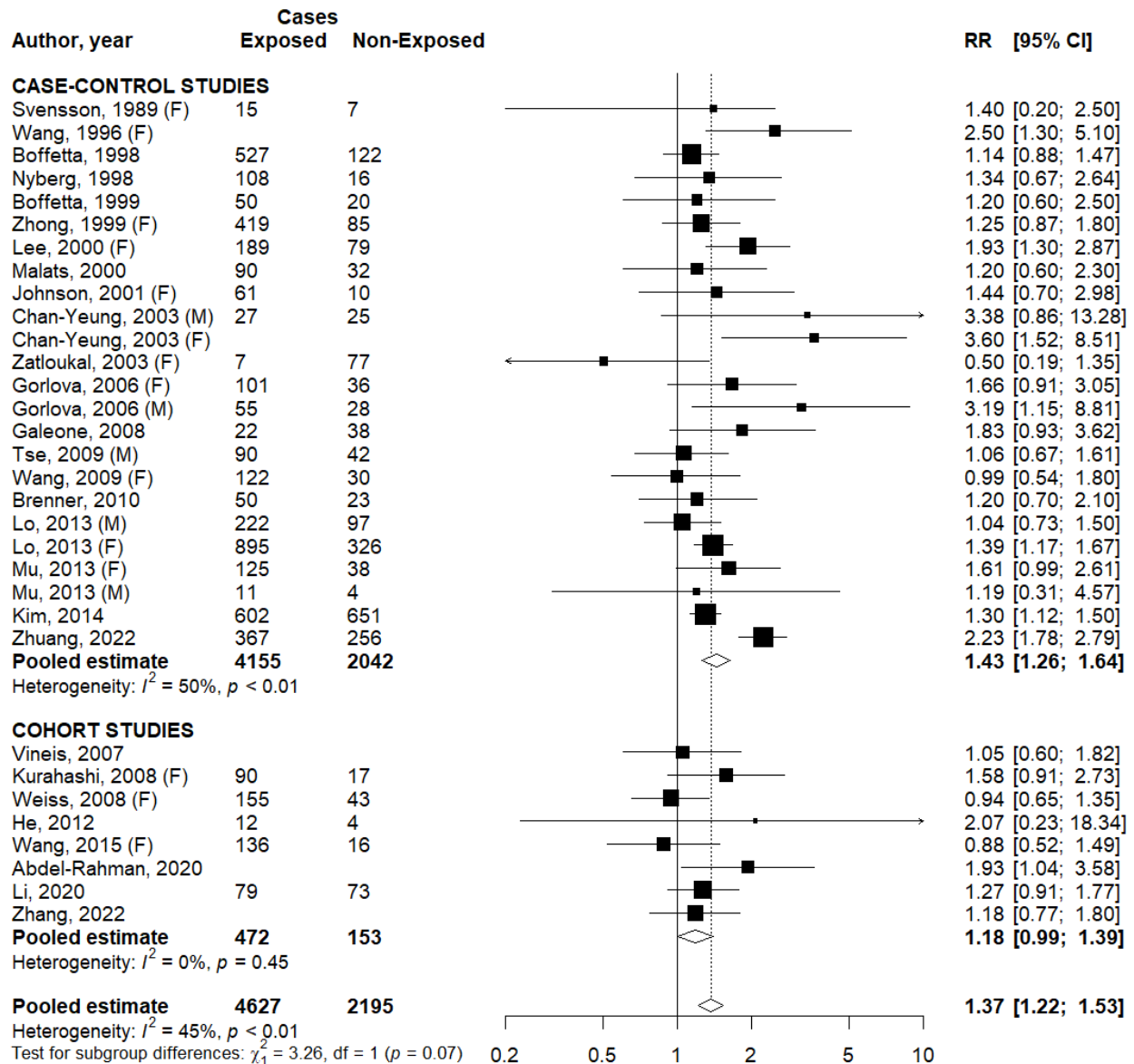
F: females; M: males.

Supplementary Figure 2. Forest plot of study-specific and pooled relative risk (RR) of lung cancer for secondhand smoke (SHS) exposure at workplace, by study design.



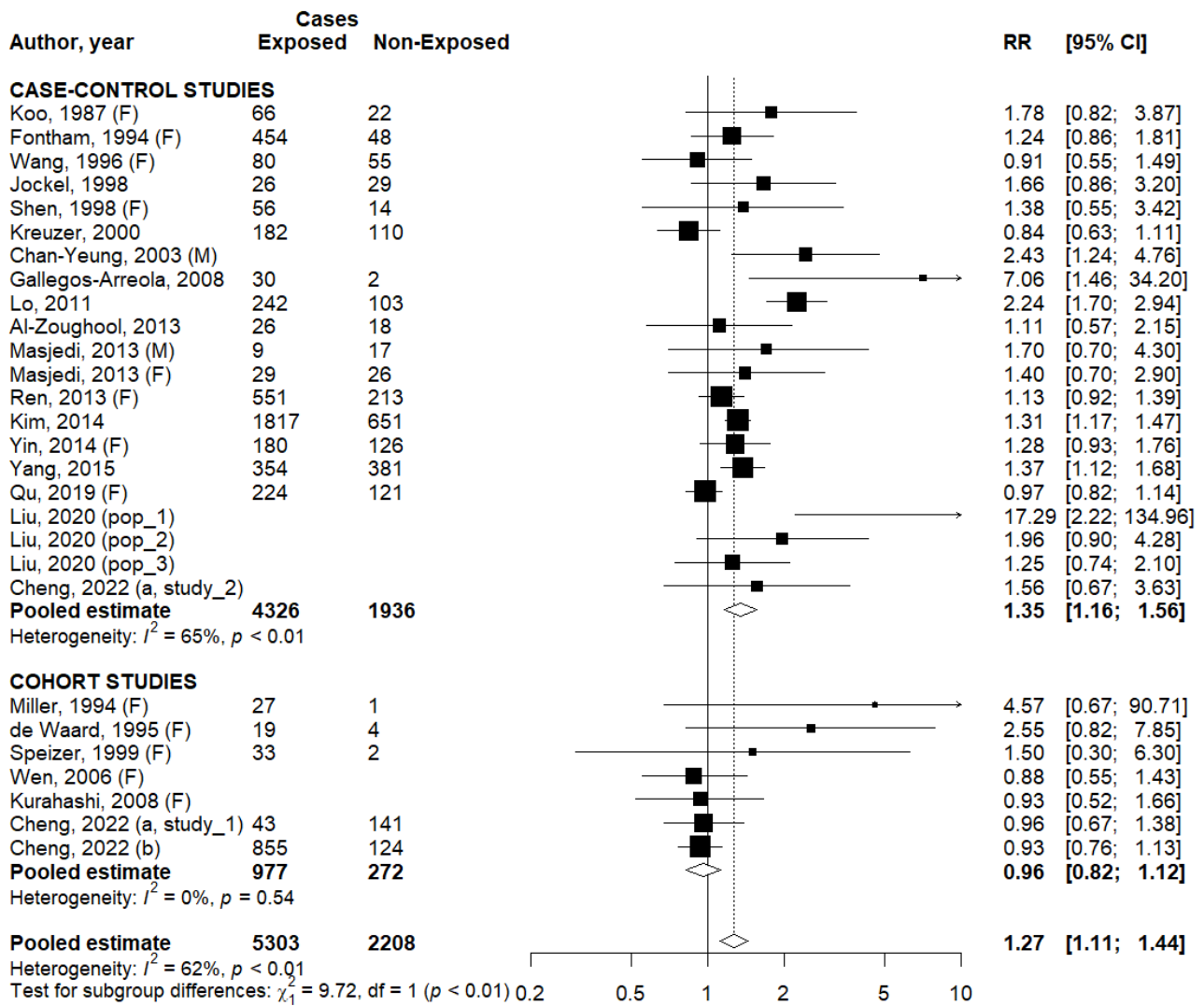
F: females; M: males.

Supplementary Figure 3. Forest plot of study-specific and pooled relative risk (RR) of lung cancer for secondhand smoke (SHS) exposure at home or workplace, by study design.



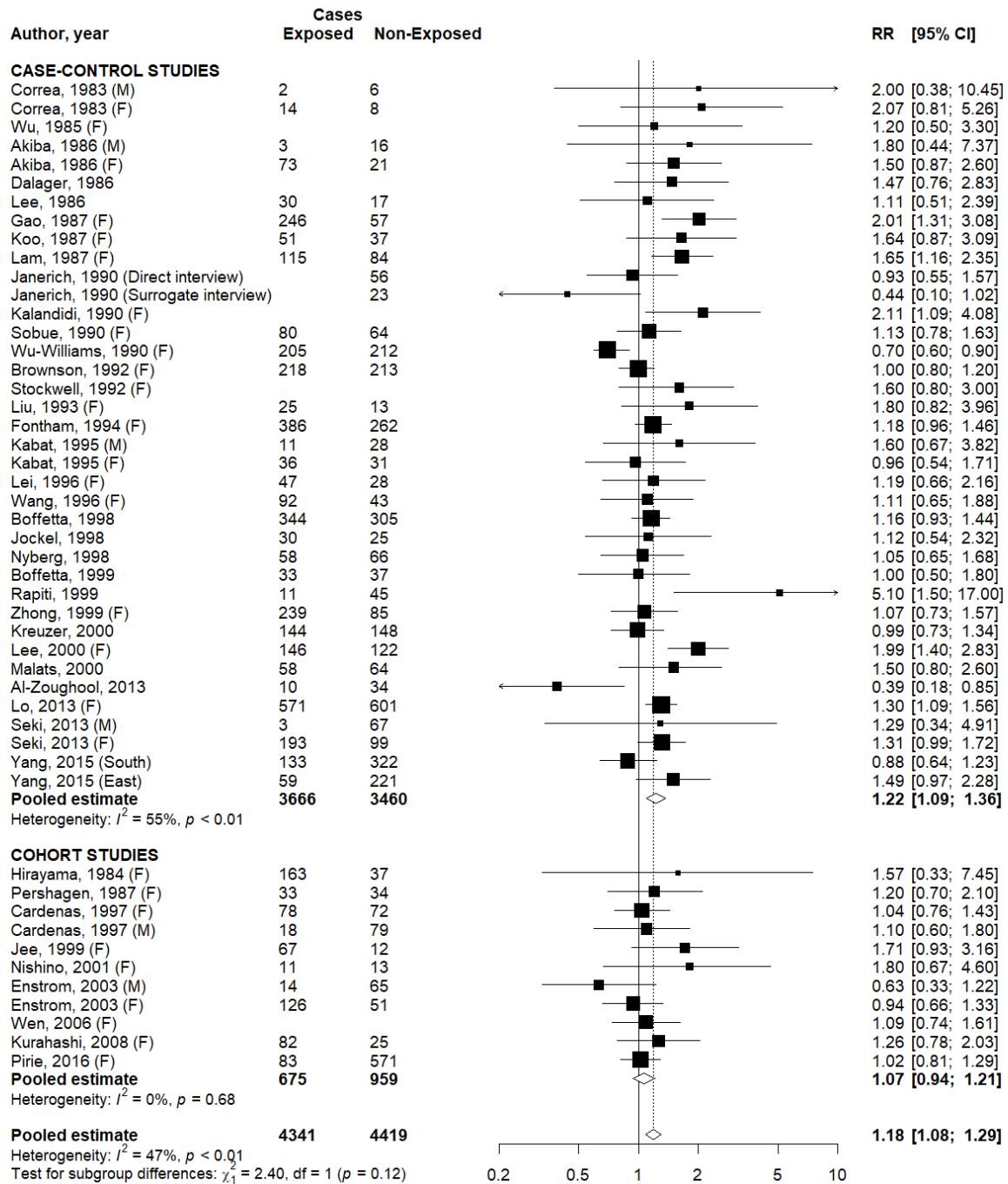
F: females; M: males.

Supplementary Figure 4. Forest plot of study-specific and pooled relative risk (RR) of lung cancer for secondhand smoke (SHS) exposure in non-specified settings, by study design.



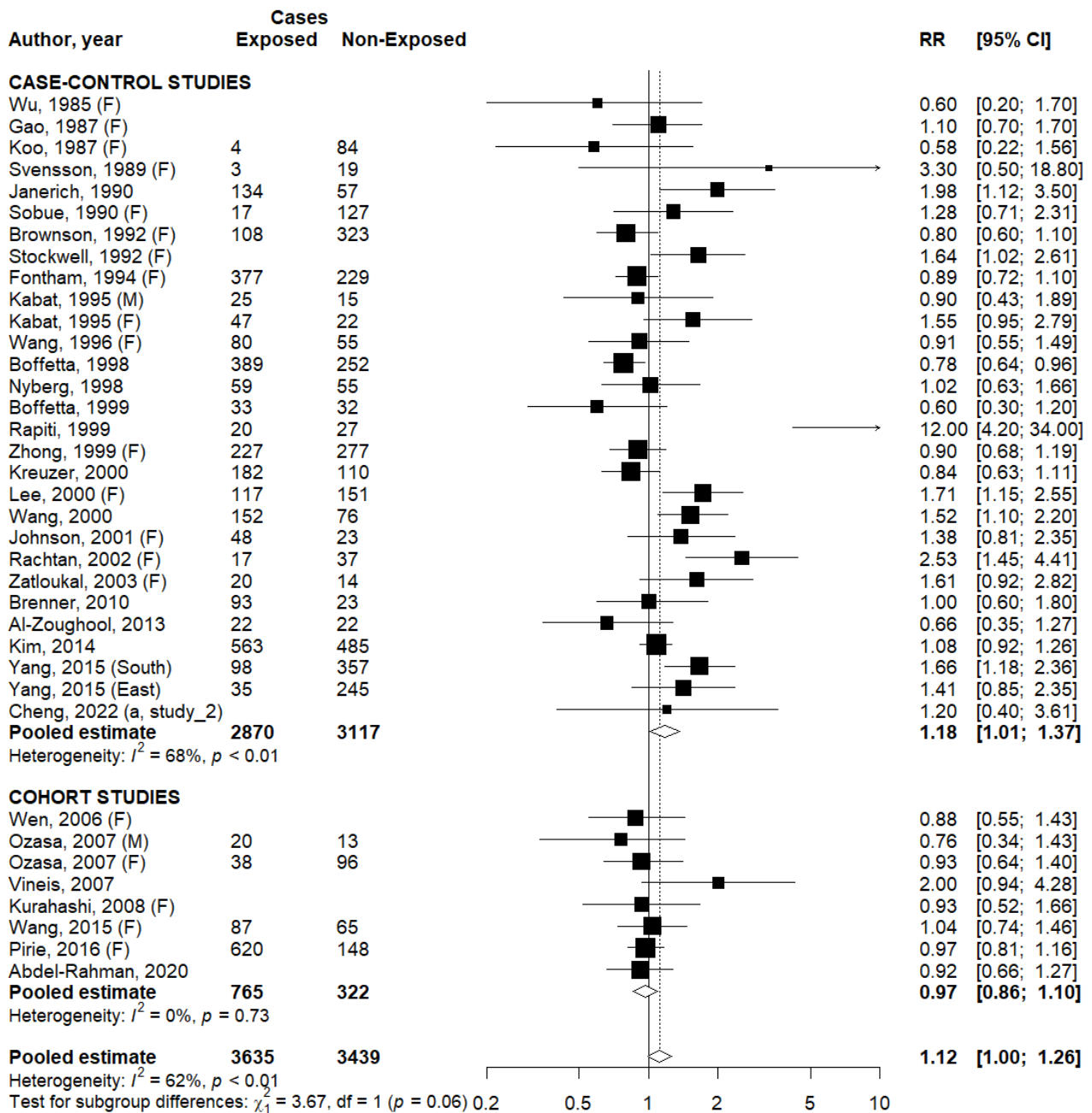
F: females; M: males.

Supplementary Figure 5. Forest plot of study-specific and pooled relative risk (RR) of lung cancer for secondhand smoke (SHS) exposure from partner, by study design.



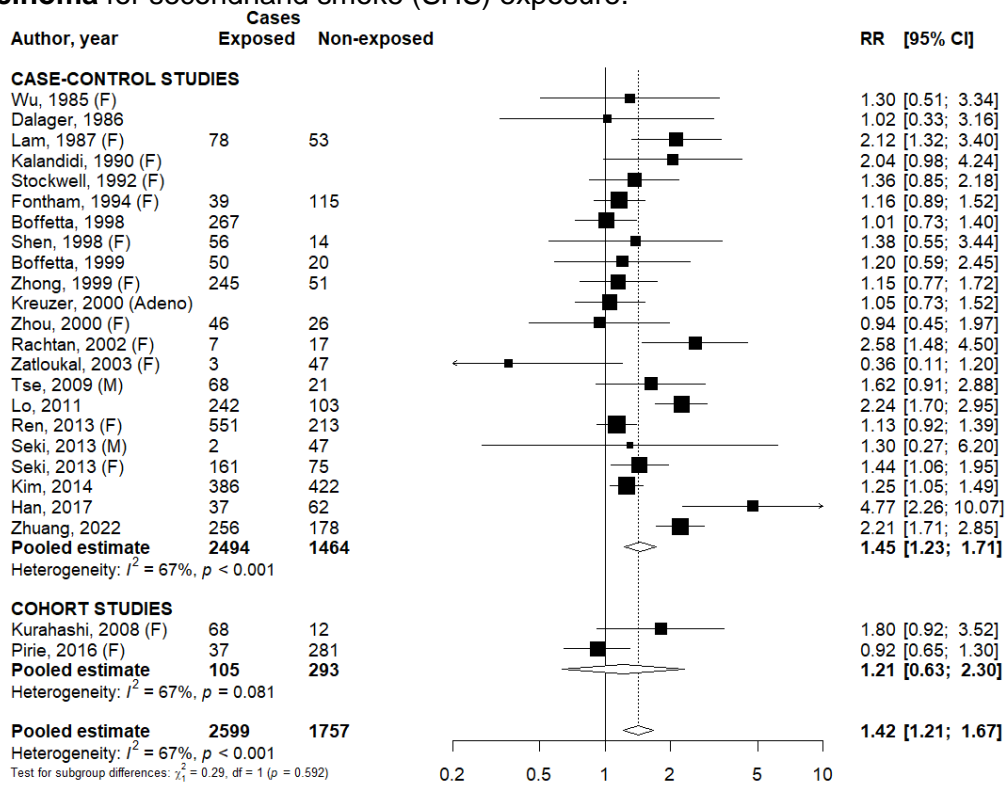
F: females; M: males.

Supplementary Figure 6. Forest plot of study-specific and pooled relative risk (RR) of lung cancer for secondhand smoke (SHS) exposure during childhood, by study design.



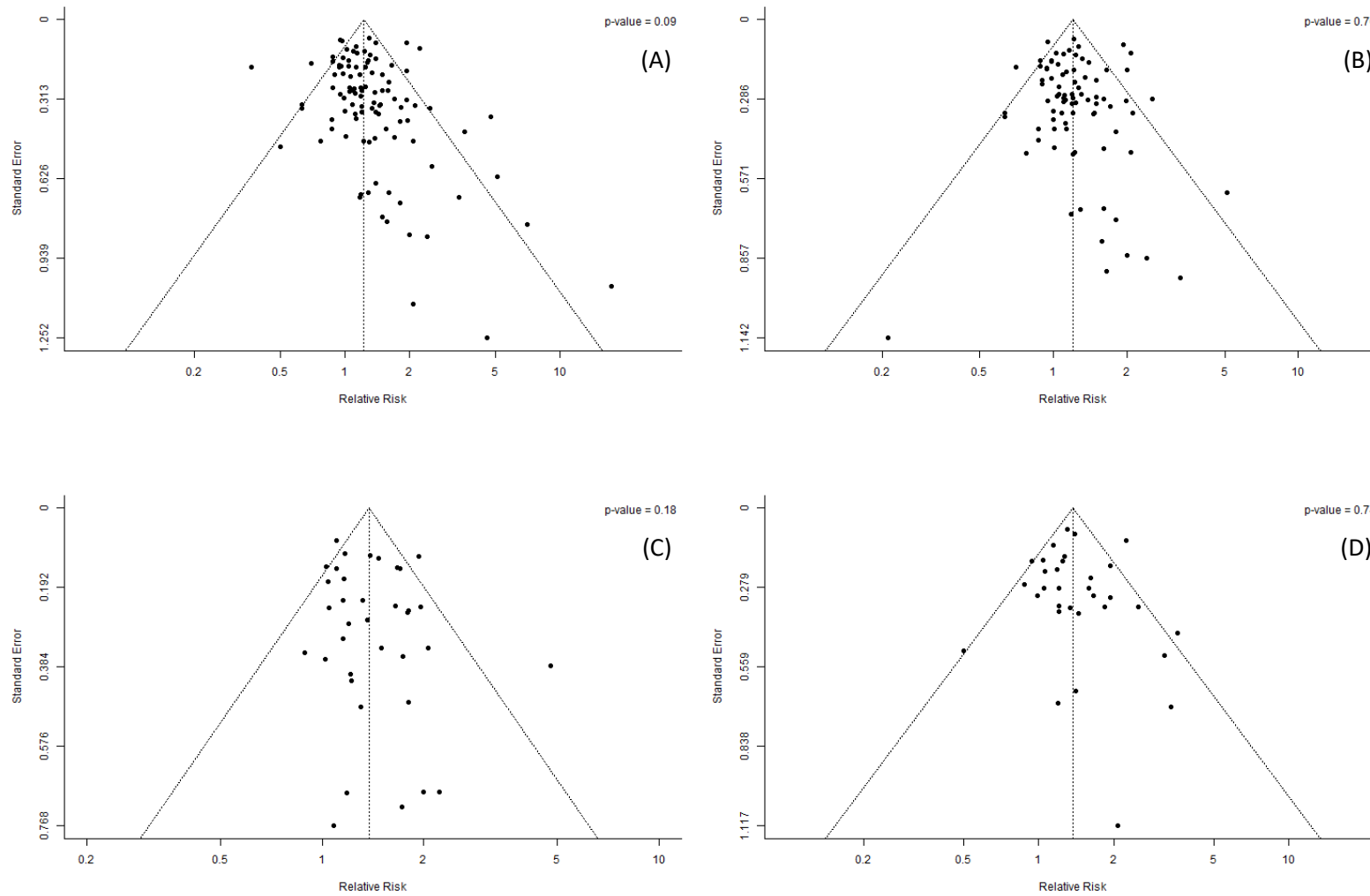
F: females; M: males.

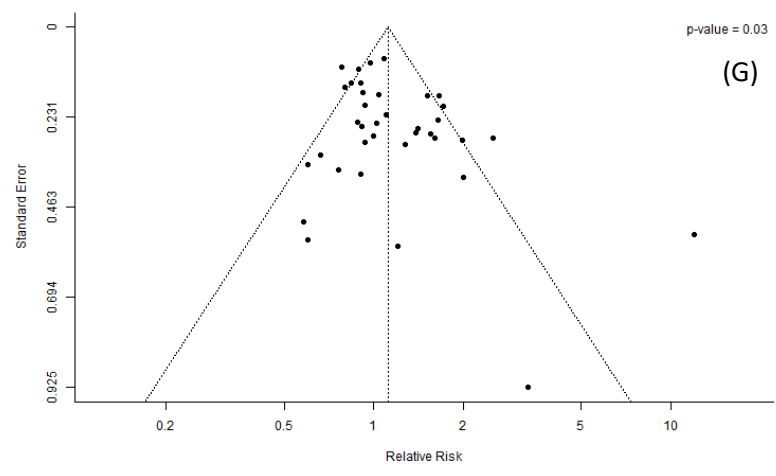
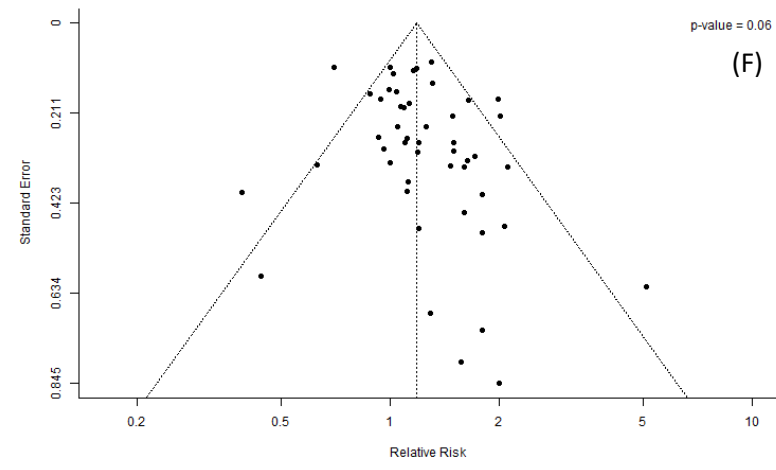
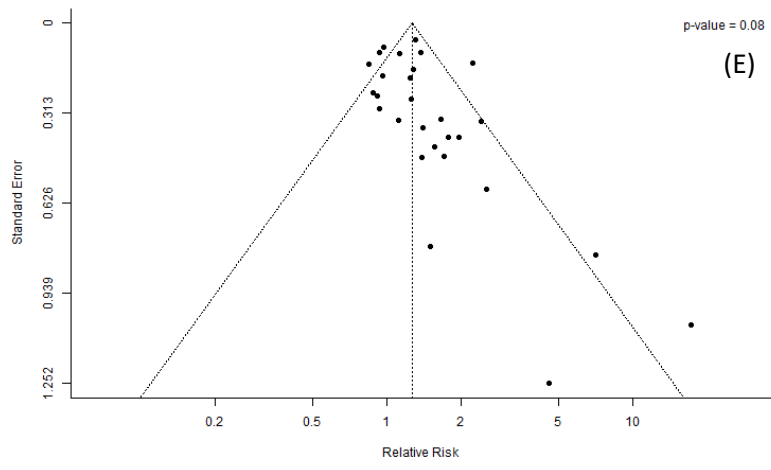
Supplementary Figure 7. Forest plot of study-specific and pooled relative risk (RR) of lung adenocarcinoma for secondhand smoke (SHS) exposure.



F: females; M: males.

Supplementary Figure 8. Funnel plots of studies on the association between overall exposure (panel A), at home exposure (panel B), at work exposure (panel C), at home or at work exposure (panel D), exposure in non-specified settings (panel E), exposure from partner (panel F), and childhood exposure (panel G) to secondhand smoke (SHS) and lung cancer risk.





Supplementary Table 9. Pooled relative risk (RR) and corresponding 95% confidence interval (CI) of lung cancer for never smokers exposed to secondhand smoke (SHS) versus non-exposed to SHS in studies with high quality (Newcastle Ottawa Scale ≥ 7).

Strata	N. studies	Pooled RR (95% CI)	p-value^a
Total	20	1.21 (1.08-1.37)	<0.01
Settings of SHS exposure			
At home ^b	19	1.17 (1.04-1.31)	<0.01
At workplace	11	1.51 (1.30-1.76)	0.23
At home or workplace	8	1.31 (1.08-1.59)	<0.01
Non-specified	3	1.00 (0.82-1.21)	0.40
Specific sources			
From partner	11	1.11 (1.01-1.23)	0.88
During childhood	8	0.94 (0.85-1.11)	0.98

^ap-value for heterogeneity within strata; ^bIncluding exposure from partner.

Supplementary Box 1. Literature search strings for the update of the last available comprehensive review used in PubMed/MEDLINE and Embase.

Source	Date	Search string	N
PubMed	10/05/2023	(lung) OR (trachea) OR (bronchus) AND (cancer OR neoplasm OR carcinoma OR adenocarcinoma OR Neoplasms [MeSH Terms]) AND (“secondhand” OR “second-hand” OR “environmental tobacco” OR “passive smok*” OR "tobacco smoke pollution"[Mesh]) AND (English[Language]) AND ("2008"[Date - Publication] : "2023"[Date - Publication])	723
Embase	10/05/2023	(secondhand:ti OR second-hand:ti OR “environmental tobacco”:ti) AND (lung:ab,ti OR trachea:ab,ti OR bronchus:ab,ti) AND (cancer:ab,ti OR neoplasm:ab,ti OR carcinoma:ab,ti OR adenocarcinoma:ab,ti) AND (article:it OR review:it) AND [english]/lim AND [2008-2023]/py	108
TOT	10/05/2023	-	728 Non-duplicates

Supplementary Box 2. Functions of the linear and spline models used to estimate the associations between secondhand smoke (SHS) duration (in years), intensity (in number of daily cigarettes), and pack-years of exposure and the risk of lung cancer.

SHS duration (years)

$$f(x) = \begin{cases} 0.0000000828x^3 + 0.0225906x & 0 \leq x < 15.0 \\ 0.0000033920x^3 - 0.000590201x^2 + 0.0367554x - 0.113319 & 15.0 \leq x < 43.2 \\ 0.00252373x + 0.548493 & x \geq 43.2 \end{cases}$$

SHS intensity (cigarettes/day)

$$f(x) = 0.009516851x$$

SHS Pack-Years

$$f(x) = 0.01016343x$$

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