

ETS AND LUNG CANCER META-ANALYSES

Exposure	Estimates included	Number of estimates	Relative risk (95% confidence limits) [*]	
			Fixed-effects meta analysis	Random-effects meta-analysis
Husband smoked [†]	All	72	1.17 (1.11-1.24)	1.21 (1.13-1.30)
	N America	21	1.11 (1.01-1.22)	1.11 (1.01-1.22)
	Europe	16	1.21 (1.07-1.37)	1.23 (1.05-1.44)
	Asia	33	1.19 (1.10-1.29)	1.28 (1.14-1.45)
	- Japan	8	1.25 (1.05-1.48)	1.25 (1.05-1.48)
	- Hong Kong	6	1.42 (1.17-1.74)	1.41 (1.10-1.81)
	- China	14	1.02 (0.91-1.14)	1.18 (0.96-1.45)
	- Other	5	1.54 (1.25-1.89)	1.54 (1.25-1.89)
	Other	2	1.22 (0.78-1.89)	1.22 (0.78-1.89)
	Published in 1981-1989	25	1.38 (1.23-1.55)	1.38 (1.23-1.55)
	Published in 1990-1999	27	1.09 (1.01-1.17)	1.15 (1.02-1.30)
	Published in 2000 onwards	20	1.18 (1.06-1.31)	1.18 (1.06-1.31)
	Published in 1981-1986	12	1.30 (1.11-1.52)	1.30 (1.09-1.55)
	Published in 1987-1989	13	1.50 (1.26-1.78)	1.50 (1.26-1.78)
	Published in 1990-1994	11	0.99 (0.89-1.09)	1.04 (0.84-1.28)
	Published in 1995-1998	11	1.23 (1.08-1.40)	1.25 (1.07-1.47)
	Published in 1999-2002	13	1.25 (1.10-1.43)	1.25 (1.10-1.43)
	Published in 2003 onwards	12	1.09 (0.94-1.26)	1.09 (0.94-1.26)
	1-49 cases	17	1.33 (1.04-1.69)	1.33 (1.04-1.69)
	50-99	23	1.32 (1.15-1.51)	1.31 (1.11-1.55)
	100-199	18	1.18 (1.07-1.30)	1.18 (1.07-1.30)
	200-399	9	1.31 (1.15-1.50)	1.31 (1.15-1.50)
	400+	5	1.00 (0.90-1.10)	1.01 (0.82-1.26)
	Case-control	58	1.16 (1.09-1.23)	1.21 (1.11-1.33)
	Prospective	14	1.21 (1.06-1.38)	1.21 (1.06-1.38)
	Not age adjusted	12	1.55 (1.32-1.82)	1.58 (1.29-1.95)
	Age adjusted	60	1.13 (1.06-1.20)	1.15 (1.07-1.24)
	Dose-response results:			
	not reported	25	1.03 (0.93-1.13)	1.11 (0.96-1.28)
	reported	46	1.24 (1.16-1.32)	1.26 (1.16-1.36)
	Spouse the index	49	1.16 (1.09-1.23)	1.22 (1.11-1.33)
	Spouse not the index	23	1.22 (1.07-1.38)	1.22 (1.07-1.38)
Wife smoked [†]	All	28	1.16 (1.00-1.35)	1.16 (1.00-1.35)
	N America	11	1.06 (0.82-1.37)	1.06 (0.82-1.37)
	Europe	9	1.17 (0.91-1.50)	1.17 (0.91-1.50)
	Asia	6	1.31 (0.93-1.84)	1.28 (0.81-2.02)
	Other	2	1.25 (0.78-1.99)	1.25 (0.78-1.99)

ETS AND LUNG CANCER META-ANALYSES (Continued)

Exposure	Estimates included	Number of estimates	Relative risk (95% confidence limits)*	
			Fixed-effects meta analysis	Random-effects meta-analysis
Husband or wife smoked ^{†,‡}	All	93	1.17 (1.11-1.23)	1.20 (1.13-1.29)
	N America	30	1.11 (1.01-1.21)	1.11 (1.01-1.21)
	Europe	20	1.20 (1.07-1.34)	1.21 (1.05-1.40)
	Asia	39	1.20 (1.11-1.30)	1.28 (1.14-1.44)
	- Japan	10	1.29 (1.09-1.52)	1.29 (1.09-1.52)
	- Hong Kong	7	1.41 (1.17-1.70)	1.40 (1.14-1.73)
	- China	16	1.01 (0.90-1.13)	1.13 (0.93-1.39)
	- Other	6	1.55 (1.26-1.90)	1.55 (1.26-1.90)
	Other	4	1.23 (0.90-1.70)	1.23 (0.90-1.70)
	Published in 1981-1989	33	1.40 (1.25-1.57)	1.40 (1.25-1.57)
	Published in 1990-1999	33	1.09 (1.01-1.17)	1.15 (1.02-1.28)
	Published in 2000 onwards	27	1.16 (1.06-1.27)	1.16 (1.05-1.28)
	Published in 1981-1986	18	1.32 (1.14-1.53)	1.32 (1.13-1.54)
	Published in 1987-1989	15	1.53 (1.28-1.81)	1.53 (1.28-1.81)
	Published in 1990-1994	12	0.99 (0.89-1.10)	1.05 (0.85-1.29)
	Published in 1995-1998	16	1.21 (1.08-1.37)	1.22 (1.07-1.39)
	Published in 1999-2002	14	1.22 (1.09-1.38)	1.22 (1.09-1.38)
	Published in 2003 onwards	18	1.10 (0.96-1.25)	1.10 (0.96-1.25)
	1-49 cases	18	1.56 (1.21-2.00)	1.56 (1.21-2.00)
	50-99	28	1.25 (1.09-1.42)	1.23 (1.04-1.46)
	100-199	22	1.19 (1.08-1.32)	1.19 (1.08-1.32)
	200-399	18	1.25 (1.12-1.39)	1.25 (1.11-1.40)
	400+	7	1.03 (0.94-1.13)	1.06 (0.89-1.26)
	Case-control	74	1.16 (1.10-1.23)	1.21 (1.12-1.31)
	Prospective	19	1.20 (1.06-1.35)	1.20 (1.06-1.35)
	Not age adjusted	15	1.53 (1.31-1.80)	1.56 (1.27-1.91)
	Age adjusted	78	1.13 (1.07-1.20)	1.15 (1.08-1.23)
	Dose-response results:			
	not reported	32	1.04 (0.95-1.14)	1.09 (0.97-1.23)
	results reported	60	1.24 (1.17-1.32)	1.26 (1.17-1.35)
	Spouse the index	62	1.17 (1.10-1.24)	1.22 (1.12-1.33)
	Spouse not the index	31	1.18 (1.07-1.32)	1.18 (1.07-1.32)
Workplace ETS exposure [§]	All	37	1.24 (1.15-1.34)	1.24 (1.13-1.35)
	N America	15	1.21 (1.07-1.36)	1.20 (1.03-1.39)
	Europe	10	1.18 (1.00-1.39)	1.18 (0.99-1.41)
	Asia	12	1.31 (1.15-1.50)	1.31 (1.15-1.50)
Childhood ETS exposure ^{**}	From any cohabitant	34	1.06 (0.98-1.15)	1.15 (1.00-1.34)
	N America	9	0.98 (0.86-1.12)	1.03 (0.85-1.24)
	Europe	11	0.94 (0.81-1.08)	1.03 (0.81-1.32)
	Asia	14	1.26 (1.11-1.44)	1.32 (1.00-1.73)
	From the mother specifically	9	0.96 (0.77-1.20)	0.98 (0.77-1.25)
	From the father specifically	11	0.90 (0.80-1.00)	1.00 (0.78-1.29)
	From parents specifically	7	0.74 (0.60-0.91)	0.74 (0.60-0.91)

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Exposure	Estimates included	Number of estimates	Relative risk (95% confidence limits) [*] Fixed-effects meta analysis	Relative risk (95% confidence limits) [*] Random-effects meta-analysis
Household ETS exposure ^{††}	Any	46	1.12 (1.04-1.20)	1.12 (1.04-1.20)
	From sources other than the spouse	8	1.04 (0.87-1.24)	1.17 (0.83-1.65)
ETS exposure in travel ^{‡‡}	All	8	1.24 (1.01-1.53)	1.34 (0.94-1.93)
Social ETS exposure ^{‡‡}	All	12	1.04 (0.92-1.17)	1.02 (0.80-1.28)
Total ETS exposure	All	26	1.19 (1.07-1.32)	1.22 (1.03-1.43)

^{*} Relative risk estimates and 95% confidence limits used in these meta-analyses are adjusted for covariates if adjusted data are available, and otherwise are unadjusted. If the source publication provides more than one adjusted estimate, the data that are normally presented are those adjusted for most covariates.

[†] Index of exposure based on smoking by the spouse or, if not available, the nearest equivalent.

[‡] Based on 64 estimates for women, 21 for men and 8 for sexes combined.

[§] Results are based on analyses limited to the working population, if available. Otherwise the unexposed group includes those who do not work.

^{**} Where estimates are available for more than one period of childhood, those for the earliest period have been used.

^{††} Where estimates are only available for specific household members, those for the mother have been used.

^{‡‡} Where estimates are available for more than one index of social or travel ETS exposure, those for the index with the highest frequency of exposure have been used.

A document¹ and a full computer output² provide more information on the individual relative risks, significance tests of heterogeneity and other detail.

References

1. Lee PN, Forey BA, Hamling JS. *Epidemiological evidence on environmental tobacco smoke and lung cancer*. Sutton, Surrey: P N Lee Statistics and Computing Ltd; 2008. www.pnlee.co.uk/reflist.htm [Download LEE2008G]
2. Lee PN, Forey BA, Hamling JS. *Detailed meta-analysis on ETS and lung cancer*. Sutton, Surrey: P N Lee Statistics and Computing Ltd; 2008. www.pnlee.co.uk/reflist.htm [Download LEE2008I]

This work was supported by the tobacco industry. The accuracy of the material presented is the responsibility of the authors alone.