

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	65	1.17 (1.10-1.24)	1.22 (1.12-1.32)
	N America	20	1.11 (1.01-1.22)	1.11 (1.01-1.22)
	Europe	15	1.21 (1.06-1.37)	1.23 (1.04-1.45)
	Asia	30	1.19 (1.10-1.30)	1.30 (1.14-1.48)
	- Japan	7	1.25 (1.04-1.49)	1.25 (1.04-1.49)
	- HongKong	5	1.43 (1.16-1.76)	1.41 (1.05-1.90)
	- China	13	1.01 (0.90-1.14)	1.20 (0.95-1.51)
	- Other	5	1.54 (1.25-1.89)	1.54 (1.25-1.89)
	Published in 1981-1989	25	1.38 (1.23-1.55)	1.38 (1.23-1.55)
	Published in 1990 onwards	40	1.11 (1.04-1.18)	1.15 (1.04-1.27)
	Published in 1981-1986	12	1.30 (1.11-1.52)	1.30 (1.09-1.55)
	Published in 1987-1989	13	1.49 (1.26-1.77)	1.49 (1.26-1.77)
	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 onwards	18	1.17 (1.05-1.31)	1.17 (1.03-1.32)
	1-49 cases	16	1.32 (1.03-1.70)	1.32 (1.03-1.70)
	50-99	22	1.33 (1.16-1.53)	1.33 (1.12-1.57)
	100-199	13	1.14 (1.02-1.27)	1.14 (1.02-1.27)
	200-399	9	1.35 (1.19-1.53)	1.35 (1.19-1.53)
	400+	5	1.00 (0.90-1.10)	1.01 (0.82-1.26)
	Case-control	55	1.16 (1.09-1.23)	1.21 (1.11-1.33)
	Prospective	10	1.22 (1.05-1.43)	1.22 (1.05-1.43)
	Not age adjusted	12	1.55 (1.32-1.82)	1.58 (1.29-1.95)
Age adjusted	53	1.12 (1.06-1.19)	1.15 (1.06-1.25)	
Dose-response results:				
not reported	20	1.00 (0.90-1.11)	1.09 (0.92-1.29)	
reported	44	1.24 (1.16-1.33)	1.27 (1.17-1.37)	
Spouse the index	47	1.16 (1.09-1.23)	1.22 (1.11-1.34)	
Spouse not the index	18	1.21 (1.05-1.39)	1.21 (1.04-1.41)	
Wife smoked [†]	All	24	1.14 (0.97-1.34)	1.14 (0.97-1.34)
	N America	10	1.03 (0.79-1.35)	1.03 (0.79-1.35)
	Europe	8	1.16 (0.89-1.50)	1.16 (0.89-1.50)
	Asia	6	1.31 (0.93-1.84)	1.28 (0.81-2.02)

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	83	1.17 (1.11-1.23)	1.21 (1.12-1.30)
	N America	28	1.10 (1.01-1.21)	1.10 (1.01-1.21)
	Europe	19	1.19 (1.07-1.34)	1.21 (1.04-1.40)
	Asia	36	1.20 (1.11-1.30)	1.30 (1.14-1.47)
	- Japan	9	1.29 (1.09-1.54)	1.29 (1.09-1.54)
	- HongKong	6	1.42 (1.17-1.71)	1.40 (1.11-1.78)
	- China	15	1.00 (0.89-1.13)	1.14 (0.92-1.42)
	- Other	6	1.55 (1.26-1.90)	1.55 (1.26-1.90)
	Published in 1981-1989	33	1.40 (1.25-1.57)	1.40 (1.25-1.57)
	Published in 1990 onwards	50	1.10 (1.04-1.17)	1.13 (1.04-1.24)
	Published in 1981-1986	18	1.32 (1.14-1.53)	1.32 (1.13-1.54)
	Published in 1987-1989	15	1.52 (1.28-1.80)	1.52 (1.28-1.80)
	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 onwards	22	1.15 (1.04-1.27)	1.13 (1.00-1.28)
	1-49 cases	17	1.59 (1.21-2.08)	1.59 (1.21-2.08)
	50-99	28	1.25 (1.09-1.42)	1.23 (1.04-1.46)
	100-199	15	1.16 (1.03-1.31)	1.16 (1.03-1.31)
	200-399	16	1.27 (1.14-1.41)	1.26 (1.11-1.44)
	400+	7	1.03 (0.94-1.13)	1.06 (0.89-1.26)
	Case-control	70	1.16 (1.09-1.23)	1.21 (1.11-1.31)
	Prospective	13	1.20 (1.04-1.39)	1.21 (1.04-1.40)
	Not age adjusted	15	1.53 (1.31-1.80)	1.56 (1.27-1.91)
Age adjusted	68	1.13 (1.06-1.19)	1.15 (1.07-1.24)	
Dose-response results:				
not reported	24	1.00 (0.91-1.11)	1.06 (0.91-1.23)	
results reported	58	1.25 (1.17-1.33)	1.27 (1.17-1.37)	
Spouse the index	60	1.17 (1.10-1.24)	1.23 (1.13-1.34)	
Spouse not the index	23	1.16 (1.04-1.31)	1.16 (1.00-1.33)	
Workplace ETS exposure [§]	All	32	1.20 (1.11-1.31)	1.20 (1.10-1.31)
	N America	13	1.18 (1.04-1.33)	1.16 (0.99-1.35)
	Europe	9	1.15 (0.97-1.36)	1.15 (0.97-1.36)
	Asia	10	1.28 (1.11-1.47)	1.28 (1.11-1.47)
Childhood ETS exposure ^{**}	From any cohabitant	32	1.07 (0.99-1.16)	1.18 (1.01-1.37)
	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	12	1.32 (1.15-1.52)	1.41 (1.04-1.93)
	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)

ETS AND LUNG CANCER META-ANALYSES (Continued /2)

Exposure	Estimates included	Number of estimates	Relative risk (95% confidence limits)*	
			Fixed-effects meta analysis	Random-effects meta-analysis
Household ETS exposure ^{††}	Any	39	1.12 (1.04-1.20)	1.12 (1.03-1.21)
	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	24	1.19 (1.06-1.33)	1.22 (1.02-1.46)

* 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 58 estimates for women, 18 for men and 7 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 J. *Epidemiological evidence on environmental tobacco smoke and lung cancer*. 2005. www.pnlee.co.uk
2. Lee PN, Forey BA, Hamling J. *Detailed meta-analysis on ETS and lung cancer*. 2005. www.pnlee.co.uk

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