

ETS AND LUNG CANCER META-ANALYSES

Endpoint	Estimates included	Number of estimates	Relative risk (95% confidence limits)*	
			Fixed-effects meta analysis	Random-effects meta-analysis
Husband smoked [†]	All	62	1.17 (1.11-1.24)	1.22 (1.13-1.33)
	N America	20	1.11 (1.01-1.22)	1.11 (1.01-1.22)
	Europe	13	1.25 (1.10-1.44)	1.29 (1.08-1.54)
	Asia	29	1.19 (1.09-1.29)	1.30 (1.13-1.49)
	- Japan	7	1.25 (1.04-1.49)	1.25 (1.04-1.49)
	- HongKong	4	1.45 (1.13-1.86)	1.42 (0.95-2.14)
	- 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 1990-2003	37	1.11 (1.04-1.18)	1.16 (1.04-1.28)
	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 1999-2003	15	1.18 (1.05-1.34)	1.19 (1.03-1.36)
	1-49 cases	16	1.32 (1.03-1.70)	1.32 (1.03-1.70)
	50-99	21	1.35 (1.17-1.55)	1.34 (1.12-1.60)
	100-199	11	1.14 (1.01-1.28)	1.14 (1.01-1.28)
	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	53	1.16 (1.09-1.24)	1.22 (1.11-1.34)
	Prospective	9	1.23 (1.05-1.45)	1.23 (1.05-1.45)
	Not age adjusted	12	1.55 (1.32-1.82)	1.58 (1.29-1.95)
Age adjusted	50	1.12 (1.06-1.20)	1.16 (1.07-1.26)	
Dose-response results: reported	20	1.00 (0.90-1.11)	1.09 (0.92-1.29)	
not reported	41	1.25 (1.17-1.34)	1.28 (1.18-1.39)	
Spouse the index	46	1.17 (1.10-1.24)	1.23 (1.12-1.35)	
Spouse not the index	16	1.20 (1.03-1.39)	1.20 (1.00-1.44)	
Wife smoked [†]	All	21	1.13 (0.95-1.35)	1.13 (0.95-1.35)
	N America	10	1.03 (0.79-1.35)	1.03 (0.79-1.35)
	Europe	6	1.19 (0.91-1.57)	1.19 (0.91-1.57)
	Asia	5	1.28 (0.80-2.07)	1.25 (0.64-2.45)

ETS AND LUNG CANCER META-ANALYSES (Continued)

Endpoint	Estimates included	Number of estimates	Relative risk (95% confidence limits)*	
			Fixed-effects meta analysis	Random-effects meta-analysis
Husband or wife smoked ^{†,‡}	All	78	1.17 (1.11-1.23)	1.22 (1.13-1.31)
	N America	28	1.10 (1.01-1.21)	1.10 (1.01-1.21)
	Europe	16	1.24 (1.10-1.40)	1.27 (1.09-1.48)
	Asia	34	1.19 (1.09-1.29)	1.29 (1.13-1.48)
	- Japan	9	1.29 (1.09-1.54)	1.29 (1.09-1.54)
	- HongKong	4	1.45 (1.13-1.86)	1.42 (0.95-2.14)
	- 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 1990-2003	45	1.10 (1.03-1.17)	1.14 (1.03-1.25)
	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 1999-2003	17	1.15 (1.03-1.29)	1.14 (0.99-1.32)
	1-49 cases	17	1.59 (1.21-2.08)	1.59 (1.21-2.08)
	50-99	27	1.26 (1.10-1.45)	1.24 (1.04-1.49)
	100-199	13	1.20 (1.06-1.35)	1.20 (1.06-1.35)
	200-399	14	1.26 (1.12-1.41)	1.24 (1.07-1.45)
	400+	7	1.03 (0.94-1.13)	1.06 (0.89-1.26)
	Case-control	66	1.16 (1.09-1.23)	1.21 (1.11-1.32)
	Prospective	12	1.21 (1.05-1.41)	1.22 (1.04-1.44)
	Not age adjusted	15	1.53 (1.31-1.80)	1.56 (1.27-1.91)
Age adjusted	63	1.13 (1.06-1.19)	1.16 (1.07-1.25)	
Dose-response results not reported	24	1.00 (0.91-1.11)	1.06 (0.91-1.23)	
Dose-response results reported	53	1.26 (1.18-1.34)	1.28 (1.18-1.39)	
Spouse the index	58	1.17 (1.11-1.25)	1.24 (1.14-1.35)	
Spouse not the index	20	1.14 (1.00-1.30)	1.12 (0.94-1.34)	
Workplace ETS exposure [§]	All	30	1.21 (1.11-1.31)	1.21 (1.11-1.31)
	N America	13	1.18 (1.04-1.33)	1.16 (0.99-1.35)
	Europe	7	1.16 (0.97-1.39)	1.16 (0.97-1.39)
	Asia	10	1.28 (1.11-1.47)	1.28 (1.11-1.47)
Childhood ETS exposure ^{**}	From any cohabitant	29	1.07 (0.99-1.16)	1.18 (1.00-1.40)
	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	5	0.69 (0.54-0.88)	0.69 (0.54-0.88)
Household ETS exposure ^{††}	Any	37	1.10 (1.02-1.19)	1.10 (1.02-1.20)
	From sources other than the spouse	8	1.04 (0.87-1.24)	1.17 (0.83-1.65)

ETS AND LUNG CANCER META-ANALYSES (Continued 2)

Endpoint	Estimates included	Number of estimates	Relative risk (95% confidence limits)*	
			Fixed-effects meta analysis	Random-effects meta-analysis
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	23	1.19 (1.07-1.34)	1.23 (1.02-1.49)

* 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 56 estimates for women, 16 for men and 6 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 relative risks combined, significance tests of heterogeneity and other detail.

References

1. Lee PN. *Epidemiological evidence on environmental tobacco smoke and lung cancer*. 2004. www.pnlee.co.uk
2. Lee PN, Forey BA. *Detailed meta-analysis on ETS and lung cancer*. 2004. www.pnlee.co.uk

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