

Detailed meta-analysis on ETS and Heart Disease  
Authors: P.N. Lee, B.A. Forey and J.S. Hamling  
02-AUG-13

The output provides full details of a variety of meta-analyses of ETS and heart disease.

For each table, the output shows, for each individual estimate selected for the meta-analysis, the value of that estimate (RR) and its 95% confidence interval. A study may provide multiple estimates relevant to the exposure being considered in the table. Choice of which to include is governed by an order of preference based on one or more characteristics of the estimate. For example, for Table 1 (spouse or nearest equivalent) data for spousal exposure are chosen if available, otherwise household exposure, and failing that total exposure. Similarly, in adjusted analyses, adjusted RRs are used if available, otherwise unadjusted RRs are used (see below).

Tables 1-15 give information for spouse ETS exposure ever (or nearest equivalent)

1. Overall	- adjusted	
2. "	- unadjusted	
3. By sex	- adjusted	
4. "	- unadjusted	
5. By continent	- adjusted	
6. "	- unadjusted	
7. By publication year (grouped)	- adjusted	
8. "	- unadjusted	
9. By number of heart disease cases (grouped)		- adjusted
10. By study type (case-control, prospective, cross-sectional)		- adjusted
11. By total number of confounders considered in the study (grouped)		- adjusted
12. By any study results available on dose-response or not		- adjusted
13. By spouse the index or not		- adjusted
14. By heart disease type 1 (fatal, non-fatal, both)		- adjusted
15. By heart disease type 2 (IHD, MI, other, mixed)		- adjusted

Tables 16-30 similarly give information for spouse ETS exposure current (or nearest equivalent), with Table 16 corresponding to Table 1, Table 17 to Table 2 and so on.

Tables 31-38 give information for workplace ETS exposure (using data for workers only if available). These tables correspond to the first 8 tables in the list of 15 above.

Tables 39 and 40 give information on total ETS exposure, for adjusted and unadjusted data.

Tables 41 and 42 give information on ETS exposure assessed by biomarker, for adjusted and unadjusted data.

Some tables for spouse ETS exposure ever (or nearest equivalent) are then repeated but excluding study Enstrom in Tables 43-50 (corresponding to Tables 1-8) and similarly for spouse ETS exposure current (or nearest equivalent) in Tables 51-58 (corresponding to Tables 16-23).

The term "relative risk" (RR) is taken to include direct estimates of the relative risks from prospective studies, and indirect estimates (odds ratios) from case-control or cross-sectional studies.

"Adjusted" implies that covariate adjusted estimates are chosen if available with unadjusted estimates used otherwise. Where the source publication provides more than one adjusted estimate, the data chosen are those adjusted for most covariates. "Unadjusted" implies that covariate unadjusted estimates are used if available with adjusted estimates used otherwise.

In all tables, estimates for males and females separately are chosen if available in preference to a combined estimate, and estimates relating to CVD excluding Stroke are chosen in preference to those for CVD. The other variables used in selecting the estimates, and their values for each estimate chosen, are shown in the output and explained in fuller detail in the footnotes to that table. For each estimate, the table also shows:

StN	The study reference number as used in the database from which the output is produced
Ref	The study 6-letter reference on the database
NRR	The number of the estimate within that study on the database
SEX	The sex of the estimate, m = male, f = female or c = combined
ADJ	The number of adjustment factors (excluding sex) in the estimate (20 indicates adjusted for an unknown number of factors)

The estimates are shown in blocks according to the "factor" relevant to that table, e.g. sex for Table 3, continent for Table 5, etc. Note that these factors relate to the study as a whole, with the exception of sex, spouse the index, and heart disease type 1 which relate to the individual estimates.

For Tables 1, 2, 16, 17, 31, 32, 39-44, 51 and 52, which are not subdivided by factor, a second block of output gives further details regarding each estimate:

Ys	= log RR
Ws	= the weight of the study = 1/(variance Ys)
Q	= the deviation of the study estimate from the mean = Ws (Ys - $\bar{Y}$ ) where $\bar{Y}$ is the mean of Ys (this is an approximate chisquared on 1 degree of freedom)
P	= the two-tailed probability value.

/cont

-----

For these tables, the output then shows the meta-analysis results, as follows:

N = number of estimates combined  
NS = number of studies from which estimates taken  
Wt = the sum of the individual estimate weights  
Het Chi = heterogeneity chisquared (between estimates)  
Het df = heterogeneity degrees of freedom  
Het P = heterogeneity probability value, expressed as \*\*\* p<0.01; \*\* p<0.01; \* p<0.05; (\*) p<0.1;  
NS p>= 0.1  
Fixed RR = fixed-effect meta-analysis relative risk estimate  
RRl, RRu = the corresponding lower and upper 95% confidence limits  
P = the corresponding probability value, expressed as +++, --- p<0.001; ++, -- P<0.01; +, - p<0.05;  
(+), (-) p<0.1; NS P>=0.1, with plus signs indicating significant increases and minus signs  
significant decreases  
Random RR = random-effect meta-analysis relative risk estimated, together with corresponding confidence limits  
and probability value  
AsymmP = the publication bias probability value based on Egger's test

For the other tables, this information is not only given for all the studies combined, but also by factor level. Additionally results of heterogeneity tests for variation by factor level are shown.

Between Chi = for the overall data this is the chisquared for heterogeneity, by factor level this is the contribution to the overall chisquared from the data for that level  
Between df = The degrees of freedom for the test of heterogeneity between factor levels  
Between P = Heterogeneity probability value, expressed as for Het P

The methods used for meta-analysis are described in Fleiss and Gross (1991), *Journal of Clinical Epidemiology*, 44, 127-139. Egger's test is described in Egger *et al* (1997), *BMJ*, 315, 629-634.

This document is available at [www.pnlee.co.uk](http://www.pnlee.co.uk), download LEE2013I.pdf. The results are also summarized in the following documents: download LEE2013G.pdf (which includes references to the individual studies, and a description of the type of heart disease studied by each), LEE2013H.pdf and LEE2013J.pdf.

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

-----

Table 1  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Overall - adjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
*2	GARLAN	5	f	s	e	f	2	5	-	-	-	-	2.70	( 0.63- 11.58)
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
Subtotal 3														
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)
*6	BUTLER	2	f	s	e	f	2	1	-	-	-	-	1.07	( 0.65- 1.75)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8														
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
Subtotal 9														
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
Subtotal 10														
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
Subtotal 12														
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47- 2.53)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52- 3.09)
Subtotal 13														
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
Subtotal 14														
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90- 1.05)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98- 1.08)
Subtotal 15														
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17														
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98- 1.21)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93- 1.16)
Subtotal 19														
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18	( 0.55- 2.52)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73	( 0.89- 3.36)
Subtotal 22														
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82	( 0.55- 1.22)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15	( 1.18- 3.92)
Subtotal 23														
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94- 2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26														
27	ROSENL	2	m	s	e	n	2	8	-	-	-	-	0.96	( 0.64- 1.44)
27	ROSENL	14	f	s	e	n	2	8	-	-	-	-	1.53	( 0.95- 2.44)
Subtotal 27														
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
*29	ENSTRO	16	m	s	e	f	2	8	-	-	-	-	0.93	( 0.83- 1.04)
*29	ENSTRO	32	f	s	e	f	2	8	-	-	-	-	0.99	( 0.92- 1.08)
Subtotal 29														
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95- 2.04)
Subtotal 33														
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81- 1.38)
36	STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65- 1.50)
36	STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67- 2.51)
Subtotal 36														

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 1  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Overall - adjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27-	1.48)
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72-	1.37)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88-	1.23)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83-	1.17)
Subtotal 40													1.01	( 0.90-	1.14)
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96-	1.44)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98-	1.66)
Subtotal 41													1.21	( 1.03-	1.42)
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31-	2.18)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81-	3.47)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25-	5.64)
Subtotal 43													1.58	( 0.82-	3.05)
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80-	1.20)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01-	2.27)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92-	4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04-	5.59)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76-	6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69-	6.33)
Subtotal 49													2.17	( 1.00-	4.70)
Partial Totals									386	1253	319	777			

\*prospective study

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Ys	Ws	Qs	Ps
*1	HIRAYA	6	f	s	e	f	2	1	0.15	87.29	0.24	0.1655
*2	GARLAN	5	f	s	e	f	2	5	0.99	1.81	1.46	0.1811
3	LEE	2	m	s	m	n	2	2	0.22	6.59	0.09	0.5808
3	LEE	4	f	s	m	n	2	2	-0.07	12.04	0.34	0.8012
Subtotal 3									0.03	18.63	0.44	
4	MARTIN	1	f	s	e	n	2	6	0.96	6.33	4.67	0.0162
*5	SVENDS	2	m	s	c	b	2	6	0.48	14.27	2.06	0.0720
*6	BUTLER	2	f	s	e	f	2	1	0.07	15.67	0.01	0.7889
*8	HOLE	3	m	h	e	f	2	5	0.55	13.29	2.71	0.0457
*8	HOLE	2	f	h	e	f	2	5	0.50	7.04	1.15	0.1838
Subtotal 8									0.53	20.33	3.86	
9	JACKSO	4	m	h	c	b	2	2	0.06	3.80	0.01	0.9095
9	JACKSO	2	f	h	c	b	2	2	1.32	2.76	4.12	0.0285
Subtotal 9									0.59	6.56	4.13	
*10	SANDLE	2	m	h	c	f	2	4	0.27	77.28	2.33	0.0176
*10	SANDLE	4	f	h	c	f	2	4	0.17	213.52	1.28	0.0110
Subtotal 10									0.20	290.80	3.61	
*11	HUMBLE	1	f	s	c	f	8	4	0.46	16.88	2.28	0.0567
12	DOBSON	4	m	h	c	b	2	2	-0.03	8.90	0.14	0.9276
12	DOBSON	2	f	h	c	b	2	2	0.90	14.40	9.30	0.0006
Subtotal 12									0.54	23.30	9.44	
13	LAVECC	2	m	s	e	n	2	0	0.09	5.43	0.00	0.8393
13	LAVECC	1	f	s	e	n	2	0	0.24	4.84	0.10	0.6013
Subtotal 13									0.16	10.27	0.10	
14	LAYARD	2	m	s	e	f	2	2	-0.03	48.72	0.79	0.8316
14	LAYARD	10	f	s	e	f	2	2	-0.01	147.49	1.67	0.9029
Subtotal 14									-0.02	196.21	2.46	
*15	LEVOIS	1	m	s	e	f	2	2	-0.03	646.64	10.43	0.4386
*15	LEVOIS	6	f	s	e	f	2	2	0.03	1627.60	7.30	0.2331
Subtotal 15									0.01	2274.24	17.72	
17	MUSCAT	1	m	s	e	n	2	0	0.32	8.14	0.42	0.3546
17	MUSCAT	2	f	s	e	n	2	0	0.28	5.82	0.20	0.4970
Subtotal 17									0.31	13.96	0.62	
18	TUNSTA	2	c	t	c	n	2	4	0.29	77.54	2.98	0.0100
*19	STEENL	3	m	s	e	f	2	12	0.09	345.72	0.04	0.1091
*19	STEENL	4	f	s	e	f	2	13	0.04	314.64	1.03	0.4866
Subtotal 19									0.06	660.35	1.07	
20	JANGHO	1	f	s	e	n	2	0	0.32	27.39	1.39	0.0922
*21	KAWACH	11	f	h	c	b	2	15	0.43	9.45	1.02	0.1912
22	CIRUZZ	7	m	s	c	n	2	9	0.17	6.63	0.03	0.6699
22	CIRUZZ	8	f	s	c	n	2	9	0.55	8.71	1.78	0.1058

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 1  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Overall - adjusted

Overall

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Ys	Ws	Qs	Ps
Subtotal 22								0.38	15.34	1.81	
23 MCELDU 4		m	t	c	b	2	4	-0.20	24.21	2.11	0.3288
23 MCELDU 2		f	t	c	b	2	4	0.77	10.66	4.77	0.0124
Subtotal 23								0.10	34.87	6.88	
25 HE1 2		f	s	e	n	2	6	0.47	12.11	1.69	0.1020
26 IRIBAR 4		m	h	c	n	2	11	0.12	268.97	0.18	0.0450
26 IRIBAR 19		f	h	c	n	2	11	0.18	495.01	3.64	0.0000
Subtotal 26								0.16	763.97	3.82	
27 ROSENL 2		m	s	e	n	2	8	-0.04	23.37	0.44	0.8436
27 ROSENL 14		f	s	e	n	2	8	0.43	17.27	1.87	0.0772
Subtotal 27								0.16	40.64	2.31	
28 PITSAV 9		c	h	c	n	a	6	0.29	23.73	0.84	0.1648
*29 ENSTRO 16		m	s	e	f	2	8	-0.07	302.04	8.64	0.2072
*29 ENSTRO 32		f	s	e	f	2	8	-0.01	597.66	6.79	0.8059
Subtotal 29								-0.03	899.71	15.42	
30 CHEN 10		c	h	c	n	2	10	0.18	11.72	0.09	0.5326
31 NISHTA 3		c	s	e	n	1	1	0.87	5.64	3.35	0.0395
33 MCGHEE 1		m	h	p	f	2	2	0.26	24.91	0.69	0.1904
33 MCGHEE 2		f	h	p	f	2	2	0.33	26.31	1.43	0.0912
Subtotal 33								0.30	51.22	2.11	
*34 QURESH 1		f	s	m	b	2	7	0.05	54.13	0.12	0.7196
36 STRANG 22		m	h	e	n	2	0	-0.02	21.86	0.28	0.9391
36 STRANG 14		f	h	e	n	2	0	0.26	8.82	0.24	0.4361
Subtotal 36								0.06	30.68	0.52	
37 TEO 1		c	t	c	n	2	6	0.31	656.19	31.27	0.0000
*38 WEN 17		f	s	m	f	2	9	-0.01	37.13	0.42	0.9512
*40 HILL1 2		m	h	c	f	2	9	0.04	137.04	0.45	0.6461
*40 HILL1 4		f	h	c	f	2	9	-0.02	130.35	1.78	0.8176
Subtotal 40								0.01	267.40	2.23	
*41 HILL2 2		m	h	c	f	2	9	0.17	93.46	0.44	0.1096
*41 HILL2 4		f	h	c	f	2	9	0.24	55.32	1.12	0.0754
Subtotal 41								0.19	148.79	1.57	
42 HE2 8		f	t	t	n	4	12	0.52	59.24	10.86	0.0001
43 SULO 2		m	s	c	n	4	14	0.52	7.26	1.29	0.1622
43 SULO 4		f	s	c	n	4	14	0.17	1.58	0.01	0.8268
Subtotal 43								0.46	8.84	1.30	
44 VOZORI 2		c	t	c	n	4	7	0.00	93.46	0.87	1.0000
45 DING 2		f	h	e	n	2	11	0.42	23.43	2.43	0.0427
*46 GALLO 17		c	s	c	f	2	5	0.69	6.48	2.27	0.0798
*48 JEFFER 2		c	s	c	b	2	16	0.88	5.43	3.33	0.0403
*49 HE3 2		m	t	e	f	2	9	0.81	3.29	1.66	0.1433
*49 HE3 4		f	t	e	f	2	9	0.74	3.13	1.30	0.1894
Subtotal 49								0.78	6.42	2.96	

Relative risks

N	63
NS	42
Wt	7027.87
Het Chi	158.03
Het df	62
Het P	***
Fixed RR	1.10
RRl	1.08
RRu	1.13
P	+++
Random RR	1.18
RRl	1.12
RRu	1.24
P	+++
Asymm P	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 2  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Overall - unadjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	3	f	s	e	f	2	0	376	69645	118	21895	1.00	( 0.82- 1.23)
*2	GARLAN	1	f	s	e	f	2	0	17	492	2	203	3.51	( 0.82- 15.04)
3	LEE	1	m	s	m	n	2	0	15	40	26	93	1.34	( 0.64- 2.80)
3	LEE	3	f	s	m	n	2	0	55	229	22	89	0.97	( 0.56- 1.69)
Subtotal 3													1.09	( 0.70- 1.70)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	1	m	s	c	b	2	0	21	286	48	959	1.47	( 0.89- 2.41)
*6	BUTLER	1	f	s	e	f	2	0	20	10579	60	43052	1.36	( 0.82- 2.25)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8													1.70	( 1.10- 2.63)
9	JACKSO	3	m	h	c	b	2	0	-	-	-	-	1.10	( 0.40- 3.00)
9	JACKSO	1	f	h	c	b	2	0	-	-	-	-	4.00	( 1.35- 13.10)
Subtotal 9													1.94	( 0.91- 4.13)
*10	SANDLE	1	m	h	c	f	2	0	122	1248	248	2914	1.15	( 0.93- 1.41)
*10	SANDLE	3	f	h	c	f	2	0	551	9551	437	5322	0.70	( 0.62- 0.79)
Subtotal 10													0.80	( 0.72- 0.88)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	3	m	h	c	b	2	0	22	34	161	259	1.04	( 0.59- 1.84)
12	DOBSON	1	f	h	c	b	2	0	43	99	117	433	1.61	( 1.06- 2.43)
Subtotal 12													1.39	( 0.99- 1.93)
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47- 2.53)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52- 3.09)
Subtotal 13													1.17	( 0.64- 2.16)
14	LAYARD	1	m	s	e	f	2	0	97	215	378	783	0.93	( 0.71- 1.22)
14	LAYARD	9	f	s	e	f	2	0	455	961	459	969	1.00	( 0.85- 1.17)
Subtotal 14													0.98	( 0.86- 1.13)
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90- 1.05)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98- 1.08)
Subtotal 15													1.01	( 0.97- 1.06)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17													1.36	( 0.80- 2.30)
18	TUNSTA	1	c	t	c	n	2	0	329	1216	99	483	1.32	( 1.03- 1.69)
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98- 1.21)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93- 1.16)
Subtotal 19													1.07	( 0.99- 1.15)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
22	CIRUZZ	5	m	s	c	n	2	0	15	22	141	206	1.00	( 0.50- 1.99)
22	CIRUZZ	6	f	s	c	n	2	0	29	25	151	193	1.48	( 0.83- 2.64)
Subtotal 22													1.26	( 0.81- 1.96)
23	MCELDU	3	m	t	c	b	2	0	53	172	145	373	0.79	( 0.55- 1.14)
23	MCELDU	1	f	t	c	b	2	0	31	147	54	479	1.87	( 1.16- 3.02)
Subtotal 23													1.08	( 0.81- 1.45)
25	HE1	1	f	s	e	n	2	0	76	95	39	113	2.32	( 1.44- 3.72)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26													1.17	( 1.09- 1.26)
27	ROSENL	1	m	s	e	n	2	0	53	113	141	285	0.95	( 0.65- 1.39)
27	ROSENL	13	f	s	e	n	2	0	65	119	59	144	1.33	( 0.87- 2.05)
Subtotal 27													1.10	( 0.83- 1.47)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
*29	ENSTRO	8	m	s	e	f	2	1	-	-	-	-	0.94	( 0.85- 1.05)
*29	ENSTRO	24	f	s	e	f	2	1	-	-	-	-	1.01	( 0.94- 1.08)
Subtotal 29													0.99	( 0.93- 1.05)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
33	MCGHEE	5	m	h	p	f	2	0	74	71	285	347	1.27	( 0.88- 1.82)
33	MCGHEE	6	f	h	p	f	2	0	113	150	112	195	1.31	( 0.94- 1.84)
Subtotal 33													1.29	( 1.01- 1.65)
*34	QURESH	2	f	s	m	b	2	0	140	1823	79	1209	1.18	( 0.90- 1.53)
36	STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65- 1.50)
36	STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67- 2.51)
Subtotal 36													1.07	( 0.75- 1.52)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 2  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Overall - unadjusted

Overall

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
37 TEO 1		c	t	c	n	2	6	-	-	-	-	1.37 ( 1.27- 1.48)	
*38 WEN 17		f	s	m	f	2	9	-	-	-	-	0.99 ( 0.72- 1.37)	
*40 HILL1 1		m	h	c	f	2	2	-	-	-	-	1.00 ( 0.85- 1.18)	
*40 HILL1 3		f	h	c	f	2	2	-	-	-	-	0.98 ( 0.83- 1.15)	
Subtotal 40												0.99 ( 0.88- 1.11)	
*41 HILL2 1		m	h	c	f	2	2	-	-	-	-	1.07 ( 0.86- 1.32)	
*41 HILL2 3		f	h	c	f	2	2	-	-	-	-	1.26 ( 0.98- 1.63)	
Subtotal 41												1.15 ( 0.97- 1.35)	
42 HE2 1		f	t	t	n	4	0	200	277	231	501	1.57 ( 1.23- 1.99)	
43 SULO 1		m	s	c	n	4	1	-	-	-	-	1.76 ( 0.98- 3.18)	
43 SULO 3		f	s	c	n	4	1	-	-	-	-	1.05 ( 0.48- 2.30)	
Subtotal 43												1.46 ( 0.91- 2.34)	
44 VOZORI 1		c	t	c	n	4	0	293	11991	1480	34776	0.57 ( 0.51- 0.65)	
45 DING 1		f	h	e	n	2	0	95	65	219	254	1.70 ( 1.18- 2.44)	
*46 GALLO 17		c	s	c	f	2	5	-	-	-	-	1.99 ( 0.92- 4.29)	
*48 JEFFER 1		c	s	c	b	2	2	-	-	-	-	2.17 ( 0.97- 4.84)	
*49 HE3 1		m	t	e	f	2	0	14	271	5	168	1.74 ( 0.64- 4.73)	
*49 HE3 3		f	t	e	f	2	0	18	340	4	131	1.73 ( 0.60- 5.03)	
Subtotal 49												1.73 ( 0.84- 3.60)	
Partial Totals								3778	111529	5639	117605		

\*prospective study

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Ys	Ws	Qs	Ps
*1 HIRAYA 3		f	s	e	f	2	0	0.00	90.30	0.25	0.9867
*2 GARLAN 1		f	s	e	f	2	0	1.25	1.81	2.61	0.0912
3 LEE 1		m	s	m	n	2	0	0.29	7.10	0.41	0.4340
3 LEE 3		f	s	m	n	2	0	-0.03	12.62	0.09	0.9185
Subtotal 3								0.09	19.72	0.49	
4 MARTIN 1		f	s	e	n	2	6	0.96	6.33	5.14	0.0162
*5 SVENDS 1		m	s	c	b	2	0	0.38	15.65	1.69	0.1296
*6 BUTLER 1		f	s	e	f	2	0	0.30	15.03	0.94	0.2372
*8 HOLE 3		m	h	e	f	2	5	0.55	13.29	3.24	0.0457
*8 HOLE 2		f	h	e	f	2	5	0.50	7.04	1.40	0.1838
Subtotal 8								0.53	20.33	4.64	
9 JACKSO 3		m	h	c	b	2	0	0.10	3.78	0.01	0.8529
9 JACKSO 1		f	h	c	b	2	0	1.39	2.98	5.28	0.0168
Subtotal 9								0.66	6.76	5.28	
*10 SANDLE 1		m	h	c	f	2	0	0.14	90.22	0.64	0.1881
*10 SANDLE 3		f	h	c	f	2	0	-0.35	262.43	43.55	0.0000
Subtotal 10								-0.23	352.64	44.19	
*11 HUMBLE 1		f	s	c	f	8	4	0.46	16.88	2.83	0.0567
12 DOBSON 3		m	h	c	b	2	0	0.04	11.77	0.00	0.8905
12 DOBSON 1		f	h	c	b	2	0	0.47	22.62	4.00	0.0240
Subtotal 12								0.33	34.39	4.00	
13 LAVECC 2		m	s	e	n	2	0	0.09	5.43	0.01	0.8393
13 LAVECC 1		f	s	e	n	2	0	0.24	4.84	0.16	0.6013
Subtotal 13								0.16	10.27	0.17	
14 LAYARD 1		m	s	e	f	2	0	-0.07	52.96	0.79	0.6223
14 LAYARD 9		f	s	e	f	2	0	-0.00	155.06	0.47	0.9954
Subtotal 14								-0.02	208.02	1.26	
*15 LEVOIS 1		m	s	e	f	2	2	-0.03	646.64	4.65	0.4386
*15 LEVOIS 6		f	s	e	f	2	2	0.03	1627.60	1.00	0.2331
Subtotal 15								0.01	2274.24	5.65	
17 MUSCAT 1		m	s	e	n	2	0	0.32	8.14	0.59	0.3546
17 MUSCAT 2		f	s	e	n	2	0	0.28	5.82	0.30	0.4970
Subtotal 17								0.31	13.96	0.89	
18 TUNSTA 1		c	t	c	n	2	0	0.28	62.37	3.11	0.0283
*19 STEENL 3		m	s	e	f	2	12	0.09	345.72	0.35	0.1091
*19 STEENL 4		f	s	e	f	2	13	0.04	314.64	0.07	0.4866
Subtotal 19								0.06	660.35	0.42	
20 JANGHO 1		f	s	e	n	2	0	0.32	27.39	1.96	0.0922
*21 KAWACH 11		f	h	c	b	2	15	0.43	9.45	1.30	0.1912
22 CIRUZZ 5		m	s	c	n	2	0	-0.00	8.06	0.03	0.9912
22 CIRUZZ 6		f	s	c	n	2	0	0.39	11.59	1.34	0.1800

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 2  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Overall - unadjusted

Overall

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Ys	Ws	Qs	Ps
Subtotal 22								0.23	19.65	1.36	
23	MCELDU 3	m	t	c	b	2	0	-0.23	29.19	2.40	0.2093
23	MCELDU 1	f	t	c	b	2	0	0.63	16.76	5.48	0.0104
Subtotal 23								0.08	45.95	7.88	
25	HE1 1	f	s	e	n	2	0	0.84	17.19	10.63	0.0005
26	IRIBAR 4	m	h	c	n	2	11	0.12	268.97	1.24	0.0450
26	IRIBAR 19	f	h	c	n	2	11	0.18	495.01	8.10	0.0000
Subtotal 26								0.16	763.97	9.34	
27	ROSENL 1	m	s	e	n	2	0	-0.05	26.10	0.30	0.7851
27	ROSENL 13	f	s	e	n	2	0	0.29	20.97	1.14	0.1879
Subtotal 27								0.10	47.07	1.44	
28	PITSAV 9	c	h	c	n	a	6	0.29	23.73	1.26	0.1648
*29	ENSTRO 8	m	s	e	f	2	1	-0.06	344.13	4.65	0.2510
*29	ENSTRO 24	f	s	e	f	2	1	0.01	797.17	1.57	0.7788
Subtotal 29								-0.01	1141.29	6.22	
30	CHEN 10	c	h	c	n	2	10	0.18	11.72	0.19	0.5326
31	NISHTA 3	c	s	e	n	1	1	0.87	5.64	3.72	0.0395
33	MCGHEE 5	m	h	p	f	2	0	0.24	29.42	0.99	0.1963
33	MCGHEE 6	f	h	p	f	2	0	0.27	33.81	1.59	0.1147
Subtotal 33								0.26	63.24	2.59	
*34	QURESH 2	f	s	m	b	2	0	0.16	54.27	0.62	0.2341
36	STRANG 22	m	h	e	n	2	0	-0.02	21.86	0.11	0.9391
36	STRANG 14	f	h	e	n	2	0	0.26	8.82	0.38	0.4361
Subtotal 36								0.06	30.68	0.49	
37	TEO 1	c	t	c	n	2	6	0.31	656.19	44.51	0.0000
*38	WEN 17	f	s	m	f	2	9	-0.01	37.13	0.15	0.9512
*40	HILL1 1	m	h	c	f	2	2	0.00	142.80	0.42	1.0000
*40	HILL1 3	f	h	c	f	2	2	-0.02	144.50	0.80	0.8081
Subtotal 40								-0.01	287.30	1.23	
*41	HILL2 1	m	h	c	f	2	2	0.07	83.70	0.01	0.5359
*41	HILL2 3	f	h	c	f	2	2	0.23	59.36	1.85	0.0750
Subtotal 41								0.14	143.06	1.87	
42	HE2 1	f	t	t	n	4	0	0.45	66.96	10.40	0.0002
43	SULO 1	m	s	c	n	4	1	0.57	11.09	2.90	0.0598
43	SULO 3	f	s	c	n	4	1	0.05	6.26	0.00	0.9029
Subtotal 43								0.38	17.35	2.90	
44	VOZORI 1	c	t	c	n	4	0	-0.55	238.05	88.35	0.0000
45	DING 1	f	h	e	n	2	0	0.53	29.06	6.51	0.0044
*46	GALLO 17	c	s	c	f	2	5	0.69	6.48	2.60	0.0798
*48	JEFFER 1	c	s	c	b	2	2	0.77	5.95	3.09	0.0588
*49	HE3 1	m	t	e	f	2	0	0.55	3.82	0.94	0.2811
*49	HE3 3	f	t	e	f	2	0	0.55	3.39	0.83	0.3109
Subtotal 49								0.55	7.21	1.78	

Relative risks

N	63
NS	42
Wt	7565.03
Het Chi	295.98
Het df	62
Het P	***
Fixed RR	1.06
RRl	1.03
RRu	1.08
P	+++
Random RR	1.16
RRl	1.09
RRu	1.24
P	+++
Asymm P	**

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)



Table 3  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By sex - adjusted

combined

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80- 1.20)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
Partial Totals									0	0	0	0		

\*prospective study

male

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47- 2.53)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90- 1.05)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98- 1.21)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18	( 0.55- 2.52)
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82	( 0.55- 1.22)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
27	ROSENL	2	m	s	e	n	2	8	-	-	-	-	0.96	( 0.64- 1.44)
*29	ENSTRO	16	m	s	e	f	2	8	-	-	-	-	0.93	( 0.83- 1.04)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
36	STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65- 1.50)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81- 3.47)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
Partial Totals									185	416	142	314		

\*prospective study

female

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
*2	GARLAN	5	f	s	e	f	2	5	-	-	-	-	2.70	( 0.63- 11.58)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*6	BUTLER	2	f	s	e	f	2	1	-	-	-	-	1.07	( 0.65- 1.75)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52- 3.09)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98- 1.08)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93- 1.16)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73	( 0.89- 3.36)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15	( 1.18- 3.92)
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94- 2.90)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
27	ROSENL	14	f	s	e	n	2	8	-	-	-	-	1.53	( 0.95- 2.44)
*29	ENSTRO	32	f	s	e	f	2	8	-	-	-	-	0.99	( 0.92- 1.08)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 3  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By sex - adjusted

female

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95-	2.04)
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81-	1.38)
36	STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67-	2.51)
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72-	1.37)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83-	1.17)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98-	1.66)
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31-	2.18)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25-	5.64)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01-	2.27)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69-	6.33)
Partial Totals									201	837	177	463			

\*prospective study

combined                      male                      female                      Total

Relative risks

N	8	22	33	63
NS	8	22	33	63
Wt	880.19	2091.85	4055.82	7027.87
Het Chi	13.19	28.99	77.11	158.03
Het df	7	21	32	62
Het P	(*)	N.S.	***	***
Fixed RR	1.33	1.04	1.09	1.10
RRl	1.25	1.00	1.05	1.08
RRu	1.42	1.09	1.12	1.13
P	+++	(+)	+++	+++
Random RR	1.32	1.07	1.20	1.18
RRl	1.14	1.01	1.12	1.12
RRu	1.54	1.14	1.29	1.24
P	+++	+	+++	+++
Asymm P	N.S.	*	***	***
Between Chi		37.09	29.88	38.74
Between df		1	1	2
Between P		---	---	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 4  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By sex - unadjusted

combined

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
18	TUNSTA	1	c	t	c	n	2	0	329	1216	99	483	1.32	( 1.03- 1.69)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
44	VOZORI	1	c	t	c	n	4	0	293	11991	1480	34776	0.57	( 0.51- 0.65)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	1	c	s	c	b	2	2	-	-	-	-	2.17	( 0.97- 4.84)
Partial Totals									622	13207	1579	35259		

\*prospective study

male

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
3	LEE	1	m	s	m	n	2	0	15	40	26	93	1.34	( 0.64- 2.80)
*5	SVENDS	1	m	s	c	b	2	0	21	286	48	959	1.47	( 0.89- 2.41)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
9	JACKSO	3	m	h	c	b	2	0	-	-	-	-	1.10	( 0.40- 3.00)
*10	SANDLE	1	m	h	c	f	2	0	122	1248	248	2914	1.15	( 0.93- 1.41)
12	DOBSON	3	m	h	c	b	2	0	22	34	161	259	1.04	( 0.59- 1.84)
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47- 2.53)
14	LAYARD	1	m	s	e	f	2	0	97	215	378	783	0.93	( 0.71- 1.22)
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90- 1.05)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98- 1.21)
22	CIRUZZ	5	m	s	c	n	2	0	15	22	141	206	1.00	( 0.50- 1.99)
23	MCELDU	3	m	t	c	b	2	0	53	172	145	373	0.79	( 0.55- 1.14)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
27	ROSENL	1	m	s	e	n	2	0	53	113	141	285	0.95	( 0.65- 1.39)
*29	ENSTRO	8	m	s	e	f	2	1	-	-	-	-	0.94	( 0.85- 1.05)
33	MCGHEE	5	m	h	p	f	2	0	74	71	285	347	1.27	( 0.88- 1.82)
36	STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65- 1.50)
*40	HILL1	1	m	h	c	f	2	2	-	-	-	-	1.00	( 0.85- 1.18)
*41	HILL2	1	m	h	c	f	2	2	-	-	-	-	1.07	( 0.86- 1.32)
43	SULO	1	m	s	c	n	4	1	-	-	-	-	1.76	( 0.98- 3.18)
*49	HE3	1	m	t	e	f	2	0	14	271	5	168	1.74	( 0.64- 4.73)
Partial Totals									671	2888	1720	6701		

\*prospective study

female

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	3	f	s	e	f	2	0	376	69645	118	21895	1.00	( 0.82- 1.23)
*2	GARLAN	1	f	s	e	f	2	0	17	492	2	203	3.51	( 0.82- 15.04)
3	LEE	3	f	s	m	n	2	0	55	229	22	89	0.97	( 0.56- 1.69)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*6	BUTLER	1	f	s	e	f	2	0	20	10579	60	43052	1.36	( 0.82- 2.25)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
9	JACKSO	1	f	h	c	b	2	0	-	-	-	-	4.00	( 1.35- 13.10)
*10	SANDLE	3	f	h	c	f	2	0	551	9551	437	5322	0.70	( 0.62- 0.79)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	1	f	h	c	b	2	0	43	99	117	433	1.61	( 1.06- 2.43)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52- 3.09)
14	LAYARD	9	f	s	e	f	2	0	455	961	459	969	1.00	( 0.85- 1.17)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98- 1.08)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93- 1.16)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
22	CIRUZZ	6	f	s	c	n	2	0	29	25	151	193	1.48	( 0.83- 2.64)
23	MCELDU	1	f	t	c	b	2	0	31	147	54	479	1.87	( 1.16- 3.02)
25	HE1	1	f	s	e	n	2	0	76	95	39	113	2.32	( 1.44- 3.72)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
27	ROSENL	13	f	s	e	n	2	0	65	119	59	144	1.33	( 0.87- 2.05)
*29	ENSTRO	24	f	s	e	f	2	1	-	-	-	-	1.01	( 0.94- 1.08)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 4  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By sex - unadjusted

female

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
33	MCGHEE	6	f	h	p	f	2	0	113	150	112	195	1.31	( 0.94-	1.84)
*34	QURESH	2	f	s	m	b	2	0	140	1823	79	1209	1.18	( 0.90-	1.53)
36	STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67-	2.51)
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72-	1.37)
*40	HILL1	3	f	h	c	f	2	2	-	-	-	-	0.98	( 0.83-	1.15)
*41	HILL2	3	f	h	c	f	2	2	-	-	-	-	1.26	( 0.98-	1.63)
42	HE2	1	f	t	t	n	4	0	200	277	231	501	1.57	( 1.23-	1.99)
43	SULO	3	f	s	c	n	4	1	-	-	-	-	1.05	( 0.48-	2.30)
45	DING	1	f	h	e	n	2	0	95	65	219	254	1.70	( 1.18-	2.44)
*49	HE3	3	f	t	e	f	2	0	18	340	4	131	1.73	( 0.60-	5.03)
Partial Totals									2485	95434	2340	75645			

\*prospective study

combined                      male                      female                      Total

Relative risks

N	8	22	33	63
NS	8	22	33	63
Wt	1010.13	2169.83	4385.08	7565.03
Het Chi	143.31	24.95	122.76	295.98
Het df	7	21	32	62
Het P	***	N.S.	***	***
Fixed RR	1.12	1.03	1.05	1.06
RR1	1.05	0.99	1.02	1.03
RRu	1.19	1.07	1.09	1.08
P	+++	N.S.	+++	+++
Random RR	1.33	1.04	1.20	1.16
RR1	0.90	0.99	1.10	1.09
RRu	1.98	1.10	1.30	1.24
P	N.S.	N.S.	+++	+++
Asymm P	N.S.	*	**	**
Between Chi		4.95	2.97	4.96
Between df		1	1	2
Between P		-	(-)	(*)

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 5  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By continent - adjusted

NAmerica

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
*2	GARLAN	5	f	s	e	f	2	5	-	-	-	-	2.70	( 0.63-	11.58)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20-	5.70)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96-	2.71)
*6	BUTLER	2	f	s	e	f	2	1	-	-	-	-	1.07	( 0.65-	1.75)
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05-	1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04-	1.36)
Subtotal 10													1.22	( 1.09-	1.37)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99-	2.57)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73-	1.28)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84-	1.16)
Subtotal 14													0.98	( 0.86-	1.13)
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90-	1.05)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98-	1.08)
Subtotal 15													1.01	( 0.97-	1.06)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70-	2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59-	2.99)
Subtotal 17													1.36	( 0.80-	2.30)
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98-	1.21)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93-	1.16)
Subtotal 19													1.07	( 0.99-	1.15)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81-	2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00-	1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09-	1.30)
Subtotal 26													1.17	( 1.09-	1.26)
*29	ENSTRO	16	m	s	e	f	2	8	-	-	-	-	0.93	( 0.83-	1.04)
*29	ENSTRO	32	f	s	e	f	2	8	-	-	-	-	0.99	( 0.92-	1.08)
Subtotal 29													0.97	( 0.91-	1.03)
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81-	1.38)
36	STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65-	1.50)
36	STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67-	2.51)
Subtotal 36													1.07	( 0.75-	1.52)
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80-	1.20)
Partial Totals									282	1093	116	320			

\*prospective study

Europe

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58-	2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53-	1.64)
Subtotal 3													1.03	( 0.65-	1.62)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01-	2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79-	3.46)
Subtotal 8													1.70	( 1.10-	2.63)
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47-	2.53)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52-	3.09)
Subtotal 13													1.17	( 0.64-	2.16)
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07-	1.67)
27	ROSENL	2	m	s	e	n	2	8	-	-	-	-	0.96	( 0.64-	1.44)
27	ROSENL	14	f	s	e	n	2	8	-	-	-	-	1.53	( 0.95-	2.44)
Subtotal 27													1.17	( 0.86-	1.59)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89-	1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70-	2.20)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81-	3.47)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25-	5.64)
Subtotal 43													1.58	( 0.82-	3.05)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92-	4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04-	5.59)
Partial Totals									41	60	66	157			

\*prospective study

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 5

ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
By continent - adjusted

Asia								Number Exposed		Non-exposed		RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16 ( 0.94- 1.43)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38 ( 0.95- 2.01)
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60 ( 0.94- 2.90)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38 ( 1.04- 5.42)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30 ( 0.88- 1.93)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39 ( 0.95- 2.04)
Subtotal 33													1.35 ( 1.02- 1.77)
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99 ( 0.72- 1.37)
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69 ( 1.31- 2.18)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52 ( 1.01- 2.27)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24 ( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10 ( 0.69- 6.33)
Subtotal 49													2.17 ( 1.00- 4.70)
Partial Totals									63	100	137	300	

\*prospective study

Other								Number Exposed		Non-exposed		RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case		
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06 ( 0.39- 2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74 ( 1.15- 12.19)
Subtotal 9													1.80 ( 0.84- 3.87)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97 ( 0.50- 1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46 ( 1.47- 4.13)
Subtotal 12													1.72 ( 1.15- 2.59)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18 ( 0.55- 2.52)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73 ( 0.89- 3.36)
Subtotal 22													1.47 ( 0.89- 2.42)
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82 ( 0.55- 1.22)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15 ( 1.18- 3.92)
Subtotal 23													1.10 ( 0.79- 1.53)
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37 ( 1.27- 1.48)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04 ( 0.88- 1.23)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98 ( 0.83- 1.17)
Subtotal 40													1.01 ( 0.90- 1.14)
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18 ( 0.96- 1.44)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27 ( 0.98- 1.66)
Subtotal 41													1.21 ( 1.03- 1.42)
Partial Totals									0	0	0	0	

\*prospective study

NAmerica      Europe      Asia      Other      Total

## Relative risks

N	24	15	11	13	63
NS	16	10	9	7	42
Wt	5341.92	223.62	309.87	1152.45	7027.87
Het Chi	45.24	9.38	12.59	37.12	158.03
Het df	23	14	10	12	62
Het P	**	N.S.	N.S.	***	***
Fixed RR	1.05	1.33	1.35	1.26	1.10
RR1	1.02	1.17	1.21	1.19	1.08
RRu	1.08	1.52	1.51	1.33	1.13
P	+++	+++	+++	+++	+++
Random RR	1.07	1.33	1.37	1.24	1.18
RR1	1.02	1.17	1.20	1.07	1.12
RRu	1.13	1.52	1.57	1.44	1.24
P	++	+++	+++	++	+++
Asymm P	*	N.S.	(*)	N.S.	***
Between Chi		12.28	18.62	30.97	53.70
Between df		1	1	1	3
Between P		+++	+++	+++	***

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 6  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By continent - unadjusted

NAmerica

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
*2	GARLAN	1	f	s	e	f	2	0	17	492	2	203	3.51	( 0.82-	15.04)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20-	5.70)
*5	SVENDS	1	m	s	c	b	2	0	21	286	48	959	1.47	( 0.89-	2.41)
*6	BUTLER	1	f	s	e	f	2	0	20	10579	60	43052	1.36	( 0.82-	2.25)
*10	SANDLE	1	m	h	c	f	2	0	122	1248	248	2914	1.15	( 0.93-	1.41)
*10	SANDLE	3	f	h	c	f	2	0	551	9551	437	5322	0.70	( 0.62-	0.79)
Subtotal 10													0.80	( 0.72-	0.88)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99-	2.57)
14	LAYARD	1	m	s	e	f	2	0	97	215	378	783	0.93	( 0.71-	1.22)
14	LAYARD	9	f	s	e	f	2	0	455	961	459	969	1.00	( 0.85-	1.17)
Subtotal 14													0.98	( 0.86-	1.13)
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90-	1.05)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98-	1.08)
Subtotal 15													1.01	( 0.97-	1.06)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70-	2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59-	2.99)
Subtotal 17													1.36	( 0.80-	2.30)
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98-	1.21)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93-	1.16)
Subtotal 19													1.07	( 0.99-	1.15)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81-	2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00-	1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09-	1.30)
Subtotal 26													1.17	( 1.09-	1.26)
*29	ENSTRO	8	m	s	e	f	2	1	-	-	-	-	0.94	( 0.85-	1.05)
*29	ENSTRO	24	f	s	e	f	2	1	-	-	-	-	1.01	( 0.94-	1.08)
Subtotal 29													0.99	( 0.93-	1.05)
*34	QURESH	2	f	s	m	b	2	0	140	1823	79	1209	1.18	( 0.90-	1.53)
36	STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65-	1.50)
36	STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67-	2.51)
Subtotal 36													1.07	( 0.75-	1.52)
44	VOZORI	1	c	t	c	n	4	0	293	11991	1480	34776	0.57	( 0.51-	0.65)
Partial Totals									1998	38239	3307	90507			

\*prospective study

Europe

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
3	LEE	1	m	s	m	n	2	0	15	40	26	93	1.34	( 0.64-	2.80)
3	LEE	3	f	s	m	n	2	0	55	229	22	89	0.97	( 0.56-	1.69)
Subtotal 3													1.09	( 0.70-	1.70)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01-	2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79-	3.46)
Subtotal 8													1.70	( 1.10-	2.63)
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47-	2.53)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52-	3.09)
Subtotal 13													1.17	( 0.64-	2.16)
18	TUNSTA	1	c	t	c	n	2	0	329	1216	99	483	1.32	( 1.03-	1.69)
27	ROSENL	1	m	s	e	n	2	0	53	113	141	285	0.95	( 0.65-	1.39)
27	ROSENL	13	f	s	e	n	2	0	65	119	59	144	1.33	( 0.87-	2.05)
Subtotal 27													1.10	( 0.83-	1.47)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89-	1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70-	2.20)
43	SULO	1	m	s	c	n	4	1	-	-	-	-	1.76	( 0.98-	3.18)
43	SULO	3	f	s	c	n	4	1	-	-	-	-	1.05	( 0.48-	2.30)
Subtotal 43													1.46	( 0.91-	2.34)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92-	4.29)
*48	JEFFER	1	c	s	c	b	2	2	-	-	-	-	2.17	( 0.97-	4.84)
Partial Totals									558	1777	413	1251			

\*prospective study

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 6  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By continent - unadjusted

Asia								Number Exposed		Non-exposed		RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case		
*1	HIRAYA	3	f	s	e	f	2	0	376	69645	118	21895	1.00 ( 0.82- 1.23)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38 ( 0.95- 2.01)
25	HE1	1	f	s	e	n	2	0	76	95	39	113	2.32 ( 1.44- 3.72)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38 ( 1.04- 5.42)
33	MCGHEE	5	m	h	p	f	2	0	74	71	285	347	1.27 ( 0.88- 1.82)
33	MCGHEE	6	f	h	p	f	2	0	113	150	112	195	1.31 ( 0.94- 1.84)
Subtotal 33													1.29 ( 1.01- 1.65)
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99 ( 0.72- 1.37)
42	HE2	1	f	t	t	n	4	0	200	277	231	501	1.57 ( 1.23- 1.99)
45	DING	1	f	h	e	n	2	0	95	65	219	254	1.70 ( 1.18- 2.44)
*49	HE3	1	m	t	e	f	2	0	14	271	5	168	1.74 ( 0.64- 4.73)
*49	HE3	3	f	t	e	f	2	0	18	340	4	131	1.73 ( 0.60- 5.03)
Subtotal 49													1.73 ( 0.84- 3.60)
Partial Totals									1029	71014	1150	23904	

\*prospective study

Other								Number Exposed		Non-exposed		RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case		
9	JACKSO	3	m	h	c	b	2	0	-	-	-	-	1.10 ( 0.40- 3.00)
9	JACKSO	1	f	h	c	b	2	0	-	-	-	-	4.00 ( 1.35- 13.10)
Subtotal 9													1.94 ( 0.91- 4.13)
12	DOBSON	3	m	h	c	b	2	0	22	34	161	259	1.04 ( 0.59- 1.84)
12	DOBSON	1	f	h	c	b	2	0	43	99	117	433	1.61 ( 1.06- 2.43)
Subtotal 12													1.39 ( 0.99- 1.93)
22	CIRUZZ	5	m	s	c	n	2	0	15	22	141	206	1.00 ( 0.50- 1.99)
22	CIRUZZ	6	f	s	c	n	2	0	29	25	151	193	1.48 ( 0.83- 2.64)
Subtotal 22													1.26 ( 0.81- 1.96)
23	MCELDU	3	m	t	c	b	2	0	53	172	145	373	0.79 ( 0.55- 1.14)
23	MCELDU	1	f	t	c	b	2	0	31	147	54	479	1.87 ( 1.16- 3.02)
Subtotal 23													1.08 ( 0.81- 1.45)
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37 ( 1.27- 1.48)
*40	HILL1	1	m	h	c	f	2	2	-	-	-	-	1.00 ( 0.85- 1.18)
*40	HILL1	3	f	h	c	f	2	2	-	-	-	-	0.98 ( 0.83- 1.15)
Subtotal 40													0.99 ( 0.88- 1.11)
*41	HILL2	1	m	h	c	f	2	2	-	-	-	-	1.07 ( 0.86- 1.32)
*41	HILL2	3	f	h	c	f	2	2	-	-	-	-	1.26 ( 0.98- 1.63)
Subtotal 41													1.15 ( 0.97- 1.35)
Partial Totals									193	499	769	1943	

\*prospective study

NAmerica      Europe      Asia      Other      Total

Relative risks

N	24	15	11	13	63
NS	16	10	9	7	42
Wt	5802.63	224.99	344.11	1193.30	7565.03
Het Chi	155.90	9.48	21.75	38.34	295.98
Het df	23	14	10	12	62
Het P	***	N.S.	*	***	***
Fixed RR	1.00	1.31	1.31	1.23	1.06
RR1	0.98	1.15	1.18	1.16	1.03
RRu	1.03	1.49	1.46	1.30	1.08
P	N.S.	+++	+++	+++	+++
Random RR	1.03	1.31	1.39	1.18	1.16
RR1	0.95	1.15	1.17	1.03	1.09
RRu	1.13	1.49	1.66	1.37	1.24
P	N.S.	+++	+++	+	+++
Asymm P	N.S.	N.S.	(*)	N.S.	**
Between Chi		15.54	23.65	41.68	70.51
Between df		1	1	1	3
Between P		+++	+++	+++	***

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)



Table 7  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By publication year (grouped) - adjusted

1984-89

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
*1	HIRAYA 6	f	s	e	f	2	1	-	-	-	-	1.16 ( 0.94- 1.43)	
*2	GARLAN 5	f	s	e	f	2	5	-	-	-	-	2.70 ( 0.63- 11.58)	
3	LEE 2	m	s	m	n	2	2	-	-	-	-	1.24 ( 0.58- 2.67)	
3	LEE 4	f	s	m	n	2	2	-	-	-	-	0.93 ( 0.53- 1.64)	
Subtotal 3												1.03 ( 0.65- 1.62)	
4	MARTIN 1	f	s	e	n	2	6	-	-	-	-	2.60 ( 1.20- 5.70)	
*5	SVENDS 2	m	s	c	b	2	6	-	-	-	-	1.61 ( 0.96- 2.71)	
*6	BUTLER 2	f	s	e	f	2	1	-	-	-	-	1.07 ( 0.65- 1.75)	
*8	HOLE 3	m	h	e	f	2	5	-	-	-	-	1.73 ( 1.01- 2.96)	
*8	HOLE 2	f	h	e	f	2	5	-	-	-	-	1.65 ( 0.79- 3.46)	
Subtotal 8												1.70 ( 1.10- 2.63)	
9	JACKSO 4	m	h	c	b	2	2	-	-	-	-	1.06 ( 0.39- 2.91)	
9	JACKSO 2	f	h	c	b	2	2	-	-	-	-	3.74 ( 1.15- 12.19)	
Subtotal 9												1.80 ( 0.84- 3.87)	
*10	SANDLE 2	m	h	c	f	2	4	-	-	-	-	1.31 ( 1.05- 1.64)	
*10	SANDLE 4	f	h	c	f	2	4	-	-	-	-	1.19 ( 1.04- 1.36)	
Subtotal 10												1.22 ( 1.09- 1.37)	
Partial Totals								0	0	0	0		
*prospective study													

1990-97

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
*11	HUMBLE 1	f	s	c	f	8	4	-	-	-	-	1.59 ( 0.99- 2.57)	
12	DOBSON 4	m	h	c	b	2	2	-	-	-	-	0.97 ( 0.50- 1.86)	
12	DOBSON 2	f	h	c	b	2	2	-	-	-	-	2.46 ( 1.47- 4.13)	
Subtotal 12												1.72 ( 1.15- 2.59)	
13	LAVECC 2	m	s	e	n	2	0	9	21	55	140	1.09 ( 0.47- 2.53)	
13	LAVECC 1	f	s	e	n	2	0	32	39	11	17	1.27 ( 0.52- 3.09)	
Subtotal 13												1.17 ( 0.64- 2.16)	
14	LAYARD 2	m	s	e	f	2	2	-	-	-	-	0.97 ( 0.73- 1.28)	
14	LAYARD 10	f	s	e	f	2	2	-	-	-	-	0.99 ( 0.84- 1.16)	
Subtotal 14												0.98 ( 0.86- 1.13)	
*15	LEVOIS 1	m	s	e	f	2	2	-	-	-	-	0.97 ( 0.90- 1.05)	
*15	LEVOIS 6	f	s	e	f	2	2	-	-	-	-	1.03 ( 0.98- 1.08)	
Subtotal 15												1.01 ( 0.97- 1.06)	
17	MUSCAT 1	m	s	e	n	2	0	20	25	48	83	1.38 ( 0.70- 2.75)	
17	MUSCAT 2	f	s	e	n	2	0	28	27	18	23	1.33 ( 0.59- 2.99)	
Subtotal 17												1.36 ( 0.80- 2.30)	
18	TUNSTA 2	c	t	c	n	2	4	-	-	-	-	1.34 ( 1.07- 1.67)	
*19	STEENL 3	m	s	e	f	2	12	-	-	-	-	1.09 ( 0.98- 1.21)	
*19	STEENL 4	f	s	e	f	2	13	-	-	-	-	1.04 ( 0.93- 1.16)	
Subtotal 19												1.07 ( 0.99- 1.15)	
20	JANGHO 1	f	s	e	n	2	0	63	100	137	300	1.38 ( 0.95- 2.01)	
*21	KAWACH 11	f	h	c	b	2	15	-	-	-	-	1.53 ( 0.81- 2.90)	
Partial Totals								152	212	269	563		
*prospective study													

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 7

ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
By publication year (grouped) - adjusted

1998-04

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
22 CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18 ( 0.55-	2.52)
22 CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73 ( 0.89-	3.36)
Subtotal 22													
23 MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82 ( 0.55-	1.22)
23 MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15 ( 1.18-	3.92)
Subtotal 23													
25 HE1	2	f	s	e	n	2	6	-	-	-	-	1.60 ( 0.94-	2.90)
26 IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13 ( 1.00-	1.27)
26 IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20 ( 1.09-	1.30)
Subtotal 26													
27 ROENL	2	m	s	e	n	2	8	-	-	-	-	0.96 ( 0.64-	1.44)
27 ROENL	14	f	s	e	n	2	8	-	-	-	-	1.53 ( 0.95-	2.44)
Subtotal 27													
28 PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33 ( 0.89-	1.99)
*29 ENSTRO	16	m	s	e	f	2	8	-	-	-	-	0.93 ( 0.83-	1.04)
*29 ENSTRO	32	f	s	e	f	2	8	-	-	-	-	0.99 ( 0.92-	1.08)
Subtotal 29													
30 CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20 ( 0.70-	2.20)
31 NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38 ( 1.04-	5.42)
Partial Totals								0	0	0	0		

\*prospective study

2005-07

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
33 MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30 ( 0.88-	1.93)
33 MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39 ( 0.95-	2.04)
Subtotal 33													
*34 QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05 ( 0.81-	1.38)
36 STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98 ( 0.65-	1.50)
36 STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30 ( 0.67-	2.51)
Subtotal 36													
37 TEO	1	c	t	c	n	2	6	-	-	-	-	1.37 ( 1.27-	1.48)
*38 WEN	17	f	s	m	f	2	9	-	-	-	-	0.99 ( 0.72-	1.37)
*40 HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04 ( 0.88-	1.23)
*40 HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98 ( 0.83-	1.17)
Subtotal 40													
*41 HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18 ( 0.96-	1.44)
*41 HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27 ( 0.98-	1.66)
Subtotal 41													
Partial Totals								234	1041	50	214		

\*prospective study

2008 onwards

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
42 HE2	8	f	t	t	n	4	12	-	-	-	-	1.69 ( 1.31-	2.18)
43 SULO	2	m	s	c	n	4	14	-	-	-	-	1.68 ( 0.81-	3.47)
43 SULO	4	f	s	c	n	4	14	-	-	-	-	1.19 ( 0.25-	5.64)
Subtotal 43													
44 VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00 ( 0.80-	1.20)
45 DING	2	f	h	e	n	2	11	-	-	-	-	1.52 ( 1.01-	2.27)
*46 GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99 ( 0.92-	4.29)
*48 JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41 ( 1.04-	5.59)
*49 HE3	2	m	t	e	f	2	9	-	-	-	-	2.24 ( 0.76-	6.59)
*49 HE3	4	f	t	e	f	2	9	-	-	-	-	2.10 ( 0.69-	6.33)
Subtotal 49													
Partial Totals								0	0	0	0		

\*prospective study

-----  
Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 7  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By publication year (grouped) - adjusted

	1984-89	1990-97	1998-04	2005-07	2008 onwa	Total
Relative risks						
N	13	16	14	11	9	63
NS	9	10	9	7	7	42
Wt	461.70	3309.60	1807.72	1245.54	203.31	7027.87
Het Chi	13.35	28.19	35.12	23.12	16.35	158.03
Het df	12	15	13	10	8	62
Het P	N.S.	*	***	*	*	***
Fixed RR	1.25	1.04	1.07	1.23	1.34	1.10
RRl	1.14	1.01	1.03	1.16	1.17	1.08
RRu	1.37	1.08	1.13	1.30	1.53	1.13
P	+++	+	++	+++	+++	+++
Random RR	1.27	1.09	1.14	1.15	1.54	1.18
RRl	1.13	1.01	1.02	1.04	1.19	1.12
RRu	1.41	1.16	1.27	1.28	1.99	1.24
P	+++	+	+	++	++	+++
Asymm P	*	*	(*)	N.S.	(*)	***
Between Chi		13.35	8.12	0.07	0.70	41.90
Between df		1	1	1	1	4
Between P		---	--	N.S.	N.S.	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 8  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By publication year (grouped) - unadjusted

1984-89

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
*1	HIRAYA	3	f	s	e	f	2	0	376	69645	118	21895	1.00	( 0.82-	1.23)
*2	GARLAN	1	f	s	e	f	2	0	17	492	2	203	3.51	( 0.82-	15.04)
3	LEE	1	m	s	m	n	2	0	15	40	26	93	1.34	( 0.64-	2.80)
3	LEE	3	f	s	m	n	2	0	55	229	22	89	0.97	( 0.56-	1.69)
Subtotal 3													1.09	( 0.70-	1.70)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20-	5.70)
*5	SVENDS	1	m	s	c	b	2	0	21	286	48	959	1.47	( 0.89-	2.41)
*6	BUTLER	1	f	s	e	f	2	0	20	10579	60	43052	1.36	( 0.82-	2.25)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01-	2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79-	3.46)
Subtotal 8													1.70	( 1.10-	2.63)
9	JACKSO	3	m	h	c	b	2	0	-	-	-	-	1.10	( 0.40-	3.00)
9	JACKSO	1	f	h	c	b	2	0	-	-	-	-	4.00	( 1.35-	13.10)
Subtotal 9													1.94	( 0.91-	4.13)
*10	SANDLE	1	m	h	c	f	2	0	122	1248	248	2914	1.15	( 0.93-	1.41)
*10	SANDLE	3	f	h	c	f	2	0	551	9551	437	5322	0.70	( 0.62-	0.79)
Subtotal 10													0.80	( 0.72-	0.88)
Partial Totals									1177	92070	961	74527			
*prospective study															

1990-97

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99-	2.57)
12	DOBSON	3	m	h	c	b	2	0	22	34	161	259	1.04	( 0.59-	1.84)
12	DOBSON	1	f	h	c	b	2	0	43	99	117	433	1.61	( 1.06-	2.43)
Subtotal 12													1.39	( 0.99-	1.93)
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47-	2.53)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52-	3.09)
Subtotal 13													1.17	( 0.64-	2.16)
14	LAYARD	1	m	s	e	f	2	0	97	215	378	783	0.93	( 0.71-	1.22)
14	LAYARD	9	f	s	e	f	2	0	455	961	459	969	1.00	( 0.85-	1.17)
Subtotal 14													0.98	( 0.86-	1.13)
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90-	1.05)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98-	1.08)
Subtotal 15													1.01	( 0.97-	1.06)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70-	2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59-	2.99)
Subtotal 17													1.36	( 0.80-	2.30)
18	TUNSTA	1	c	t	c	n	2	0	329	1216	99	483	1.32	( 1.03-	1.69)
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98-	1.21)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93-	1.16)
Subtotal 19													1.07	( 0.99-	1.15)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95-	2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81-	2.90)
Partial Totals									1098	2737	1483	3490			
*prospective study															

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 8  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By publication year (grouped) - unadjusted

1998-04

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
22	CIRUZZ 5	m	s	c	n	2	0	15	22	141	206	1.00	( 0.50- 1.99)
22	CIRUZZ 6	f	s	c	n	2	0	29	25	151	193	1.48	( 0.83- 2.64)
Subtotal 22													
23	MCELDU 3	m	t	c	b	2	0	53	172	145	373	0.79	( 0.55- 1.14)
23	MCELDU 1	f	t	c	b	2	0	31	147	54	479	1.87	( 1.16- 3.02)
Subtotal 23													
25	HE1 1	f	s	e	n	2	0	76	95	39	113	2.32	( 1.44- 3.72)
26	IRIBAR 4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR 19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26													
27	ROSENL 1	m	s	e	n	2	0	53	113	141	285	0.95	( 0.65- 1.39)
27	ROSENL 13	f	s	e	n	2	0	65	119	59	144	1.33	( 0.87- 2.05)
Subtotal 27													
28	PITSAV 9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
*29	ENSTRO 8	m	s	e	f	2	1	-	-	-	-	0.94	( 0.85- 1.05)
*29	ENSTRO 24	f	s	e	f	2	1	-	-	-	-	1.01	( 0.94- 1.08)
Subtotal 29													
30	CHEN 10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA 3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
Partial Totals								322	693	730	1793		

\*prospective study

2005-07

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
33	MCGHEE 5	m	h	p	f	2	0	74	71	285	347	1.27	( 0.88- 1.82)
33	MCGHEE 6	f	h	p	f	2	0	113	150	112	195	1.31	( 0.94- 1.84)
Subtotal 33													
*34	QURESH 2	f	s	m	b	2	0	140	1823	79	1209	1.18	( 0.90- 1.53)
36	STRANG 22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65- 1.50)
36	STRANG 14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67- 2.51)
Subtotal 36													
37	TEO 1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*38	WEN 17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72- 1.37)
*40	HILL1 1	m	h	c	f	2	2	-	-	-	-	1.00	( 0.85- 1.18)
*40	HILL1 3	f	h	c	f	2	2	-	-	-	-	0.98	( 0.83- 1.15)
Subtotal 40													
*41	HILL2 1	m	h	c	f	2	2	-	-	-	-	1.07	( 0.86- 1.32)
*41	HILL2 3	f	h	c	f	2	2	-	-	-	-	1.26	( 0.98- 1.63)
Subtotal 41													
Partial Totals								561	3085	526	1965		

\*prospective study

2008 onwards

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
42	HE2 1	f	t	t	n	4	0	200	277	231	501	1.57	( 1.23- 1.99)
43	SULO 1	m	s	c	n	4	1	-	-	-	-	1.76	( 0.98- 3.18)
43	SULO 3	f	s	c	n	4	1	-	-	-	-	1.05	( 0.48- 2.30)
Subtotal 43													
44	VOZORI 1	c	t	c	n	4	0	293	11991	1480	34776	0.57	( 0.51- 0.65)
45	DING 1	f	h	e	n	2	0	95	65	219	254	1.70	( 1.18- 2.44)
*46	GALLO 17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER 1	c	s	c	b	2	2	-	-	-	-	2.17	( 0.97- 4.84)
*49	HE3 1	m	t	e	f	2	0	14	271	5	168	1.74	( 0.64- 4.73)
*49	HE3 3	f	t	e	f	2	0	18	340	4	131	1.73	( 0.60- 5.03)
Subtotal 49													
Partial Totals								620	12944	1939	35830		

\*prospective study

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 8  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By publication year (grouped) - unadjusted

	1984-89	1990-97	1998-04	2005-07	2008 onwa	Total
Relative risks						
N	13	16	14	11	9	63
NS	9	10	9	7	7	42
Wt	528.57	3317.33	2076.21	1271.88	371.05	7565.03
Het Chi	55.22	20.56	41.37	25.86	95.10	295.98
Het df	12	15	13	10	8	62
Het P	***	N.S.	***	**	***	***
Fixed RR	0.92	1.04	1.08	1.22	0.83	1.06
RRl	0.84	1.00	1.03	1.15	0.75	1.03
RRu	1.00	1.07	1.12	1.29	0.92	1.08
P	(-)	+	+++	+++	---	+++
Random RR	1.30	1.06	1.15	1.14	1.44	1.16
RRl	1.01	1.00	1.03	1.02	0.89	1.09
RRu	1.66	1.12	1.28	1.28	2.34	1.24
P	+	+	+	+	N.S.	+++
Asymm P	***	**	N.S.	N.S.	*	**
Between Chi		6.58	10.26	29.18	2.07	57.87
Between df		1	1	1	1	4
Between P		+	++	+++	N.S.	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 9

ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
By number of heart disease cases (grouped) - adjusted

1-99

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*2	GARLAN	5	f	s	e	f	2	5	-	-	-	-	2.70	( 0.63- 11.58)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)
*6	BUTLER	2	f	s	e	f	2	1	-	-	-	-	1.07	( 0.65- 1.75)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69- 6.33)
Subtotal 49													2.17	( 1.00- 4.70)
Partial Totals									0	0	0	0		
*prospective study														

100-199

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
Subtotal 3													1.03	( 0.65- 1.62)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8													1.70	( 1.10- 2.63)
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47- 2.53)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52- 3.09)
Subtotal 13													1.17	( 0.64- 2.16)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17													1.36	( 0.80- 2.30)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94- 2.90)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81- 3.47)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25- 5.64)
Subtotal 43													1.58	( 0.82- 3.05)
Partial Totals									89	112	132	263		
*prospective study														

200-999

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
Subtotal 9													1.80	( 0.84- 3.87)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
Subtotal 12													1.72	( 1.15- 2.59)
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18	( 0.55- 2.52)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73	( 0.89- 3.36)
Subtotal 22													1.47	( 0.89- 2.42)
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82	( 0.55- 1.22)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15	( 1.18- 3.92)
Subtotal 23													1.10	( 0.79- 1.53)
27	ROENL	2	m	s	e	n	2	8	-	-	-	-	0.96	( 0.64- 1.44)
27	ROENL	14	f	s	e	n	2	8	-	-	-	-	1.53	( 0.95- 2.44)
Subtotal 27													1.17	( 0.86- 1.59)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95- 2.04)
Subtotal 33													1.35	( 1.02- 1.77)
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81- 1.38)
36	STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65- 1.50)
36	STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67- 2.51)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 9  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By number of heart disease cases (grouped) - adjusted

200-999

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
Subtotal	36											1.07	( 0.75- 1.52)
*38 WEN	17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72- 1.37)
42 HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31- 2.18)
45 DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01- 2.27)
*46 GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
Partial Totals								297	1141	187	514		

\*prospective study

1000+

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
*10 SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
*10 SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
Subtotal 10												1.22	( 1.09- 1.37)
14 LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
14 LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
Subtotal 14												0.98	( 0.86- 1.13)
*15 LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90- 1.05)
*15 LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98- 1.08)
Subtotal 15												1.01	( 0.97- 1.06)
*19 STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98- 1.21)
*19 STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93- 1.16)
Subtotal 19												1.07	( 0.99- 1.15)
26 IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26 IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26												1.17	( 1.09- 1.26)
*29 ENSTRO	16	m	s	e	f	2	8	-	-	-	-	0.93	( 0.83- 1.04)
*29 ENSTRO	32	f	s	e	f	2	8	-	-	-	-	0.99	( 0.92- 1.08)
Subtotal 29												0.97	( 0.91- 1.03)
37 TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*40 HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*40 HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83- 1.17)
Subtotal 40												1.01	( 0.90- 1.14)
*41 HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
*41 HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98- 1.66)
Subtotal 41												1.21	( 1.03- 1.42)
44 VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80- 1.20)
Partial Totals								0	0	0	0		

\*prospective study

1-99      100-199      200-999      1000+      Total

Relative risks

N	9	12	24	18	63
NS	8	7	17	10	42
Wt	72.45	93.60	610.69	6251.12	7027.87
Het Chi	6.70	3.87	35.17	76.70	158.03
Het df	8	11	23	17	62
Het P	N.S.	N.S.	(*)	***	***
Fixed RR	1.69	1.39	1.28	1.08	1.10
RRl	1.35	1.14	1.18	1.05	1.08
RRu	2.13	1.71	1.38	1.10	1.13
P	+++	++	+++	+++	+++
Random RR	1.69	1.39	1.29	1.08	1.18
RRl	1.35	1.14	1.16	1.02	1.12
RRu	2.13	1.71	1.44	1.15	1.24
P	+++	++	+++	++	+++
Asymm P	*	N.S.	N.S.	N.S.	***
Between Chi		1.56	5.11	14.73	35.59
Between df		1	1	1	3
Between P		N.S.	-	---	***

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)



Table 10  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By study type - adjusted

case-control

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
3 LEE 2		m	s	m	n	2	2	-	-	-	-	1.24 ( 0.58-	2.67)
3 LEE 4		f	s	m	n	2	2	-	-	-	-	0.93 ( 0.53-	1.64)
Subtotal 3												1.03 ( 0.65-	1.62)
9 JACKSO 4		m	h	c	b	2	2	-	-	-	-	1.06 ( 0.39-	2.91)
9 JACKSO 2		f	h	c	b	2	2	-	-	-	-	3.74 ( 1.15-	12.19)
Subtotal 9												1.80 ( 0.84-	3.87)
12 DOBSON 4		m	h	c	b	2	2	-	-	-	-	0.97 ( 0.50-	1.86)
12 DOBSON 2		f	h	c	b	2	2	-	-	-	-	2.46 ( 1.47-	4.13)
Subtotal 12												1.72 ( 1.15-	2.59)
13 LAVECC 2		m	s	e	n	2	0	9	21	55	140	1.09 ( 0.47-	2.53)
13 LAVECC 1		f	s	e	n	2	0	32	39	11	17	1.27 ( 0.52-	3.09)
Subtotal 13												1.17 ( 0.64-	2.16)
14 LAYARD 2		m	s	e	f	2	2	-	-	-	-	0.97 ( 0.73-	1.28)
14 LAYARD 10		f	s	e	f	2	2	-	-	-	-	0.99 ( 0.84-	1.16)
Subtotal 14												0.98 ( 0.86-	1.13)
17 MUSCAT 1		m	s	e	n	2	0	20	25	48	83	1.38 ( 0.70-	2.75)
17 MUSCAT 2		f	s	e	n	2	0	28	27	18	23	1.33 ( 0.59-	2.99)
Subtotal 17												1.36 ( 0.80-	2.30)
20 JANGHO 1		f	s	e	n	2	0	63	100	137	300	1.38 ( 0.95-	2.01)
22 CIRUZZ 7		m	s	c	n	2	9	-	-	-	-	1.18 ( 0.55-	2.52)
22 CIRUZZ 8		f	s	c	n	2	9	-	-	-	-	1.73 ( 0.89-	3.36)
Subtotal 22												1.47 ( 0.89-	2.42)
23 MCELDU 4		m	t	c	b	2	4	-	-	-	-	0.82 ( 0.55-	1.22)
23 MCELDU 2		f	t	c	b	2	4	-	-	-	-	2.15 ( 1.18-	3.92)
Subtotal 23												1.10 ( 0.79-	1.53)
25 HE1 2		f	s	e	n	2	6	-	-	-	-	1.60 ( 0.94-	2.90)
27 ROENL 2		m	s	e	n	2	8	-	-	-	-	0.96 ( 0.64-	1.44)
27 ROENL 14		f	s	e	n	2	8	-	-	-	-	1.53 ( 0.95-	2.44)
Subtotal 27												1.17 ( 0.86-	1.59)
28 PITSAV 9		c	h	c	n	a	6	-	-	-	-	1.33 ( 0.89-	1.99)
31 NISHTA 3		c	s	e	n	1	1	-	-	-	-	2.38 ( 1.04-	5.42)
33 MCGHEE 1		m	h	p	f	2	2	-	-	-	-	1.30 ( 0.88-	1.93)
33 MCGHEE 2		f	h	p	f	2	2	-	-	-	-	1.39 ( 0.95-	2.04)
Subtotal 33												1.35 ( 1.02-	1.77)
36 STRANG 22		m	h	e	n	2	0	156	370	39	91	0.98 ( 0.65-	1.50)
36 STRANG 14		f	h	e	n	2	0	78	671	11	123	1.30 ( 0.67-	2.51)
Subtotal 36												1.07 ( 0.75-	1.52)
37 TEO 1		c	t	c	n	2	6	-	-	-	-	1.37 ( 1.27-	1.48)
43 SULO 2		m	s	c	n	4	14	-	-	-	-	1.68 ( 0.81-	3.47)
43 SULO 4		f	s	c	n	4	14	-	-	-	-	1.19 ( 0.25-	5.64)
Subtotal 43												1.58 ( 0.82-	3.05)
45 DING 2		f	h	e	n	2	11	-	-	-	-	1.52 ( 1.01-	2.27)
Partial Totals								386	1253	319	777		

\*prospective study

prospective

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
*1 HIRAYA 6		f	s	e	f	2	1	-	-	-	-	1.16 ( 0.94-	1.43)
*2 GARLAN 5		f	s	e	f	2	5	-	-	-	-	2.70 ( 0.63-	11.58)
*5 SVENDS 2		m	s	c	b	2	6	-	-	-	-	1.61 ( 0.96-	2.71)
*6 BUTLER 2		f	s	e	f	2	1	-	-	-	-	1.07 ( 0.65-	1.75)
*8 HOLE 3		m	h	e	f	2	5	-	-	-	-	1.73 ( 1.01-	2.96)
*8 HOLE 2		f	h	e	f	2	5	-	-	-	-	1.65 ( 0.79-	3.46)
Subtotal 8												1.70 ( 1.10-	2.63)
*10 SANDLE 2		m	h	c	f	2	4	-	-	-	-	1.31 ( 1.05-	1.64)
*10 SANDLE 4		f	h	c	f	2	4	-	-	-	-	1.19 ( 1.04-	1.36)
Subtotal 10												1.22 ( 1.09-	1.37)
*11 HUMBLE 1		f	s	c	f	8	4	-	-	-	-	1.59 ( 0.99-	2.57)
*15 LEVOIS 1		m	s	e	f	2	2	-	-	-	-	0.97 ( 0.90-	1.05)
*15 LEVOIS 6		f	s	e	f	2	2	-	-	-	-	1.03 ( 0.98-	1.08)
Subtotal 15												1.01 ( 0.97-	1.06)
*19 STENL 3		m	s	e	f	2	12	-	-	-	-	1.09 ( 0.98-	1.21)
*19 STEENL 4		f	s	e	f	2	13	-	-	-	-	1.04 ( 0.93-	1.16)
Subtotal 19												1.07 ( 0.99-	1.15)

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 10  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By study type - adjusted

prospective

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
*29	ENSTRO	16	m	s	e	f	2	8	-	-	-	-	0.93	( 0.83- 1.04)
*29	ENSTRO	32	f	s	e	f	2	8	-	-	-	-	0.99	( 0.92- 1.08)
Subtotal 29														
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81- 1.38)
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72- 1.37)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83- 1.17)
Subtotal 40														
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98- 1.66)
Subtotal 41														
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69- 6.33)
Subtotal 49														
Partial Totals									0	0	0	0	2.17	( 1.00- 4.70)

\*prospective study

cross-sectional

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26														
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31- 2.18)
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80- 1.20)
Partial Totals									0	0	0	0		

\*prospective study

case-cont    prospecti    cross-sec    Total

Relative risks

N	30	26	7	63
NS	18	18	6	42
Wt	1199.02	4816.58	1012.26	7027.87
Het Chi	44.95	46.39	15.75	158.03
Het df	29	25	6	62
Het P	*	**	*	***
Fixed RR	1.28	1.04	1.20	1.10
RR1	1.21	1.01	1.13	1.08
RRu	1.36	1.07	1.28	1.13
P	+++	++	+++	+++
Random RR	1.27	1.08	1.25	1.18
RR1	1.15	1.03	1.10	1.12
RRu	1.40	1.14	1.41	1.24
P	+++	++	+++	+++
Asymm P	N.S.	***	N.S.	***
Between Chi		42.12	2.45	50.93
Between df		1	1	2
Between P		---	N.S.	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 11  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By total number of confounders considered in the study (grouped) - adjusted

0-2

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
Subtotal 3													1.03	( 0.65- 1.62)
*6	BUTLER	2	f	s	e	f	2	1	-	-	-	-	1.07	( 0.65- 1.75)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
Subtotal 14													0.98	( 0.86- 1.13)
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90- 1.05)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98- 1.08)
Subtotal 15													1.01	( 0.97- 1.06)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95- 2.04)
Subtotal 33													1.35	( 1.02- 1.77)
Partial Totals									63	100	137	300		
*prospective study														

3-4

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
Subtotal 10													1.22	( 1.09- 1.37)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
Subtotal 12													1.72	( 1.15- 2.59)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17													1.36	( 0.80- 2.30)
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82	( 0.55- 1.22)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15	( 1.18- 3.92)
Subtotal 23													1.10	( 0.79- 1.53)
Partial Totals									48	52	66	106		
*prospective study														

5+

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*2	GARLAN	5	f	s	e	f	2	5	-	-	-	-	2.70	( 0.63- 11.58)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8													1.70	( 1.10- 2.63)
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
Subtotal 9													1.80	( 0.84- 3.87)
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47- 2.53)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52- 3.09)
Subtotal 13													1.17	( 0.64- 2.16)
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98- 1.21)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93- 1.16)
Subtotal 19													1.07	( 0.99- 1.15)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18	( 0.55- 2.52)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73	( 0.89- 3.36)
Subtotal 22													1.47	( 0.89- 2.42)
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94- 2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26													1.17	( 1.09- 1.26)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 11

ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
By total number of confounders considered in the study (grouped) - adjusted

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
27	ROSENL	2	m	s	e	n	2	8	-	-	-	-	0.96	( 0.64- 1.44)
27	ROSENL	14	f	s	e	n	2	8	-	-	-	-	1.53	( 0.95- 2.44)
Subtotal 27														
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
*29	ENSTRO	16	m	s	e	f	2	8	-	-	-	-	0.93	( 0.83- 1.04)
*29	ENSTRO	32	f	s	e	f	2	8	-	-	-	-	0.99	( 0.92- 1.08)
Subtotal 29														
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81- 1.38)
36	STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65- 1.50)
36	STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67- 2.51)
Subtotal 36														
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72- 1.37)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83- 1.17)
Subtotal 40														
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98- 1.66)
Subtotal 41														
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31- 2.18)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81- 3.47)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25- 5.64)
Subtotal 43														
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80- 1.20)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01- 2.27)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69- 6.33)
Subtotal 49														
Partial Totals									275	1101	116	371		
*prospective study														

0-2                      3-4                      5+                      Total

## Relative risks

	N	12	10	41	63
	NS	8	6	28	42
	Wt	2676.30	457.35	3894.21	7027.87
	Het Chi	14.31	16.65	100.51	158.03
	Het df	11	9	40	62
	Het P	N.S.	(*)	***	***
Fixed	RR	1.03	1.27	1.14	1.10
	RRl	0.99	1.16	1.10	1.08
	RRu	1.07	1.39	1.17	1.13
	P	N.S.	+++	+++	+++
Random	RR	1.04	1.32	1.19	1.18
	RRl	0.98	1.13	1.11	1.12
	RRu	1.11	1.55	1.27	1.24
	P	N.S.	+++	+++	+++
Asymm	P	*	N.S.	*	***
Between	Chi		17.60	16.76	26.55
Between	df		1	1	2
Between	P		+++	+++	***

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 12

ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
By any study results available on dose-response or not - adjusted

none								Number Exposed				Non-exposed				RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case	Cont	Case	Cont			
*2	GARLAN	5	f	s	e	f	2	5	-	-	-	-	-	-	2.70 ( 0.63- 11.58)		
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	-	-	2.60 ( 1.20- 5.70)		
*6	BUTLER	2	f	s	e	f	2	1	-	-	-	-	-	-	1.07 ( 0.65- 1.75)		
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	-	-	1.31 ( 1.05- 1.64)		
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	-	-	1.19 ( 1.04- 1.36)		
Subtotal 10																	
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	-	-	1.59 ( 0.99- 2.57)		
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	-	-	0.97 ( 0.50- 1.86)		
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	-	-	2.46 ( 1.47- 4.13)		
Subtotal 12																	
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	-	-	0.82 ( 0.55- 1.22)		
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	-	-	2.15 ( 1.18- 3.92)		
Subtotal 23																	
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	-	-	1.10 ( 0.79- 1.53)		
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	-	-	1.05 ( 0.81- 1.38)		
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	-	-	1.04 ( 0.88- 1.23)		
Subtotal 40																	
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	-	-	0.98 ( 0.83- 1.17)		
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	-	-	1.01 ( 0.90- 1.14)		
Subtotal 41																	
43	SULO	2	m	s	c	n	4	14	-	-	-	-	-	-	1.18 ( 0.96- 1.44)		
43	SULO	4	f	s	c	n	4	14	-	-	-	-	-	-	1.27 ( 0.98- 1.66)		
Subtotal 43																	
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	-	-	1.21 ( 1.03- 1.42)		
Partial Totals																	
									0	0	0	0					
*prospective study																	

## results given

								Number Exposed				Non-exposed				RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case	Cont	Case	Cont			
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	-	-	1.16 ( 0.94- 1.43)		
3	LEE	2	m	s	m	n	2	2	-	-	-	-	-	-	1.24 ( 0.58- 2.67)		
3	LEE	4	f	s	m	n	2	2	-	-	-	-	-	-	0.93 ( 0.53- 1.64)		
Subtotal 3																	
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	-	-	1.03 ( 0.65- 1.62)		
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	-	-	1.61 ( 0.96- 2.71)		
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	-	-	1.73 ( 1.01- 2.96)		
Subtotal 8																	
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	-	-	1.65 ( 0.79- 3.46)		
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	-	-	1.70 ( 1.10- 2.63)		
Subtotal 9																	
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.06 ( 0.39- 2.91)				
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	3.74 ( 1.15- 12.19)				
Subtotal 13																	
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	-	-	1.80 ( 0.84- 3.87)		
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	-	-	1.09 ( 0.47- 2.53)		
Subtotal 14																	
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	-	-	1.27 ( 0.52- 3.09)		
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	-	-	1.17 ( 0.64- 2.16)		
Subtotal 15																	
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	0.97 ( 0.86- 1.13)				
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	0.97 ( 0.90- 1.05)				
Subtotal 17																	
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	-	-	1.03 ( 0.98- 1.08)		
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	-	-	1.01 ( 0.97- 1.06)		
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	-	-	1.38 ( 0.70- 2.75)		
Subtotal 19																	
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.33 ( 0.59- 2.99)				
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	-	-	1.36 ( 0.80- 2.30)		
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	-	-	1.34 ( 1.07- 1.67)		
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	-	-	1.09 ( 0.98- 1.21)		
Subtotal 22																	
25	HE1	2	f	s	e	n	2	6	-	-	-	-	-	-	1.04 ( 0.93- 1.16)		
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	-	-	1.07 ( 0.99- 1.15)		
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	-	-	1.38 ( 0.95- 2.01)		
-----																	

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 12

ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By any study results available on dose-response or not - adjusted

results given

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
Subtotal 26														
27	ROSENL	2	m	s	e	n	2	8	-	-	-	-	0.96	( 0.64- 1.44)
27	ROSENL	14	f	s	e	n	2	8	-	-	-	-	1.53	( 0.95- 2.44)
Subtotal 27														
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
*29	ENSTRO	16	m	s	e	f	2	8	-	-	-	-	0.93	( 0.83- 1.04)
*29	ENSTRO	32	f	s	e	f	2	8	-	-	-	-	0.99	( 0.92- 1.08)
Subtotal 29														
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95- 2.04)
Subtotal 33														
36	STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65- 1.50)
36	STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67- 2.51)
Subtotal 36														
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72- 1.37)
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31- 2.18)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01- 2.27)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69- 6.33)
Subtotal 49														
Partial Totals									386	1253	319	777	2.17	( 1.00- 4.70)

\*prospective study

none no assoc sig assoc results g Total

Relative risks

N	18	45	63
NS	12	30	42
Wt	962.28	6065.58	7027.87
Het Chi	33.09	123.38	158.03
Het df	17	44	62
Het P	*	***	***
Fixed RR	1.14	1.09	1.10
RRl	1.07	1.07	1.08
RRu	1.22	1.12	1.13
P	+++	+++	+++
Random RR	1.19	1.18	1.18
RRl	1.07	1.11	1.12
RRu	1.32	1.25	1.24
P	++	+++	+++
Asymm P	*	**	***
Between Chi		1.56	1.56
Between df		1	1
Between P	N.S.	N.S.	N.S.

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 13  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By spouse the index or not - adjusted

									Number Exposed		Non-exposed		RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case	Cont		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16 ( 0.94- 1.43)	
*2	GARLAN	5	f	s	e	f	2	5	-	-	-	-	2.70 ( 0.63- 11.58)	
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24 ( 0.58- 2.67)	
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93 ( 0.53- 1.64)	
Subtotal 3													1.03 ( 0.65- 1.62)	
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60 ( 1.20- 5.70)	
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61 ( 0.96- 2.71)	
*6	BUTLER	2	f	s	e	f	2	1	-	-	-	-	1.07 ( 0.65- 1.75)	
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59 ( 0.99- 2.57)	
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09 ( 0.47- 2.53)	
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27 ( 0.52- 3.09)	
Subtotal 13													1.17 ( 0.64- 2.16)	
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97 ( 0.73- 1.28)	
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99 ( 0.84- 1.16)	
Subtotal 14													0.98 ( 0.86- 1.13)	
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97 ( 0.90- 1.05)	
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03 ( 0.98- 1.08)	
Subtotal 15													1.01 ( 0.97- 1.06)	
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38 ( 0.70- 2.75)	
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33 ( 0.59- 2.99)	
Subtotal 17													1.36 ( 0.80- 2.30)	
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09 ( 0.98- 1.21)	
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04 ( 0.93- 1.16)	
Subtotal 19													1.07 ( 0.99- 1.15)	
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38 ( 0.95- 2.01)	
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18 ( 0.55- 2.52)	
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73 ( 0.89- 3.36)	
Subtotal 22													1.47 ( 0.89- 2.42)	
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60 ( 0.94- 2.90)	
27	ROENL	2	m	s	e	n	2	8	-	-	-	-	0.96 ( 0.64- 1.44)	
27	ROENL	14	f	s	e	n	2	8	-	-	-	-	1.53 ( 0.95- 2.44)	
Subtotal 27													1.17 ( 0.86- 1.59)	
*29	ENSTRO	16	m	s	e	f	2	8	-	-	-	-	0.93 ( 0.83- 1.04)	
*29	ENSTRO	32	f	s	e	f	2	8	-	-	-	-	0.99 ( 0.92- 1.08)	
Subtotal 29													0.97 ( 0.91- 1.03)	
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38 ( 1.04- 5.42)	
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05 ( 0.81- 1.38)	
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99 ( 0.72- 1.37)	
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68 ( 0.81- 3.47)	
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19 ( 0.25- 5.64)	
Subtotal 43													1.58 ( 0.82- 3.05)	
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99 ( 0.92- 4.29)	
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41 ( 1.04- 5.59)	
Partial Totals									152	212	269	563		
*prospective study														

									Number Exposed		Non-exposed		RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case	Cont		
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73 ( 1.01- 2.96)	
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65 ( 0.79- 3.46)	
Subtotal 8													1.70 ( 1.10- 2.63)	
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06 ( 0.39- 2.91)	
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74 ( 1.15- 12.19)	
Subtotal 9													1.80 ( 0.84- 3.87)	
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31 ( 1.05- 1.64)	
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19 ( 1.04- 1.36)	
Subtotal 10													1.22 ( 1.09- 1.37)	
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97 ( 0.50- 1.86)	
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46 ( 1.47- 4.13)	
Subtotal 12													1.72 ( 1.15- 2.59)	
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34 ( 1.07- 1.67)	
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53 ( 0.81- 2.90)	
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82 ( 0.55- 1.22)	
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15 ( 1.18- 3.92)	

Within each study, results are included (in the following order of preference) for:  
 1) EXP Exposure = spouse (s), household (h), total (t)  
 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)  
 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD  
 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 13  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By spouse the index or not - adjusted

No								Number Exposed		Non-exposed		RR	95.00%CI
StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case	Cont		
Subtotal 23												1.10 ( 0.79- 1.53)	
26	IRIBAR 4	m	h	c	n	2	11	-	-	-	-	1.13 ( 1.00- 1.27)	
26	IRIBAR 19	f	h	c	n	2	11	-	-	-	-	1.20 ( 1.09- 1.30)	
Subtotal 26												1.17 ( 1.09- 1.26)	
28	PITSAV 9	c	h	c	n	a	6	-	-	-	-	1.33 ( 0.89- 1.99)	
30	CHEN 10	c	h	c	n	2	10	-	-	-	-	1.20 ( 0.70- 2.20)	
33	MCGHEE 1	m	h	p	f	2	2	-	-	-	-	1.30 ( 0.88- 1.93)	
33	MCGHEE 2	f	h	p	f	2	2	-	-	-	-	1.39 ( 0.95- 2.04)	
Subtotal 33												1.35 ( 1.02- 1.77)	
36	STRANG 22	m	h	e	n	2	0	156	370	39	91	0.98 ( 0.65- 1.50)	
36	STRANG 14	f	h	e	n	2	0	78	671	11	123	1.30 ( 0.67- 2.51)	
Subtotal 36												1.07 ( 0.75- 1.52)	
37	TEO 1	c	t	c	n	2	6	-	-	-	-	1.37 ( 1.27- 1.48)	
*40	HILL1 2	m	h	c	f	2	9	-	-	-	-	1.04 ( 0.88- 1.23)	
*40	HILL1 4	f	h	c	f	2	9	-	-	-	-	0.98 ( 0.83- 1.17)	
Subtotal 40												1.01 ( 0.90- 1.14)	
*41	HILL2 2	m	h	c	f	2	9	-	-	-	-	1.18 ( 0.96- 1.44)	
*41	HILL2 4	f	h	c	f	2	9	-	-	-	-	1.27 ( 0.98- 1.66)	
Subtotal 41												1.21 ( 1.03- 1.42)	
42	HE2 8	f	t	t	n	4	12	-	-	-	-	1.69 ( 1.31- 2.18)	
44	VOZORI 2	c	t	c	n	4	7	-	-	-	-	1.00 ( 0.80- 1.20)	
45	DING 2	f	h	e	n	2	11	-	-	-	-	1.52 ( 1.01- 2.27)	
*49	HE3 2	m	t	e	f	2	9	-	-	-	-	2.24 ( 0.76- 6.59)	
*49	HE3 4	f	t	e	f	2	9	-	-	-	-	2.10 ( 0.69- 6.33)	
Subtotal 49												2.17 ( 1.00- 4.70)	
Partial Totals								234	1041	50	214		

\*prospective study

	Yes	No	Total
N	33	30	63
NS	23	19	42
Wt	4428.76	2599.11	7027.87
Het Chi	46.53	57.41	158.03
Het df	32	29	62
Het P	*	**	***
Fixed RR	1.03	1.23	1.10
RRl	1.00	1.19	1.08
RRu	1.06	1.28	1.13
P	(+)	+++	+++
Random RR	1.06	1.24	1.18
RRl	1.01	1.16	1.12
RRu	1.12	1.33	1.24
P	+	+++	+++
Asymm P	***	N.S.	***
Between Chi		54.09	54.09
Between df		1	1
Between P		+++	***

---

Within each study, results are included (in the following order of preference) for:  
 1) EXP Exposure = spouse (s), household (h), total (t)  
 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)  
 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD  
 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)



Table 14  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By heart disease type 1 - adjusted

Fatal

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
*2	GARLAN	5	f	s	e	f	2	5	-	-	-	-	2.70	( 0.63- 11.58)
*6	BUTLER	2	f	s	e	f	2	1	-	-	-	-	1.07	( 0.65- 1.75)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8														
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
Subtotal 10														
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
Subtotal 14														
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90- 1.05)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98- 1.08)
Subtotal 15														
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98- 1.21)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93- 1.16)
Subtotal 19														
*29	ENSTRO	16	m	s	e	f	2	8	-	-	-	-	0.93	( 0.83- 1.04)
*29	ENSTRO	32	f	s	e	f	2	8	-	-	-	-	0.99	( 0.92- 1.08)
Subtotal 29														
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95- 2.04)
Subtotal 33														
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72- 1.37)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83- 1.17)
Subtotal 40														
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98- 1.66)
Subtotal 41														
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69- 6.33)
Subtotal 49														
Partial Totals									0	0	0	0	2.17	( 1.00- 4.70)

\*prospective study

Nonfatal

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
Subtotal 3														
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47- 2.53)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52- 3.09)
Subtotal 13														
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17														
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18	( 0.55- 2.52)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73	( 0.89- 3.36)
Subtotal 22														
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94- 2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26														
27	ROENL	2	m	s	e	n	2	8	-	-	-	-	0.96	( 0.64- 1.44)
27	ROENL	14	f	s	e	n	2	8	-	-	-	-	1.53	( 0.95- 2.44)
Subtotal 27														
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.17	( 0.86- 1.59)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 14  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By heart disease type 1 - adjusted

Nonfatal

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
								Case	Cont	Case	Cont			
30	CHEN 10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)	
31	NISHTA 3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)	
36	STRANG 22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65- 1.50)	
36	STRANG 14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67- 2.51)	
Subtotal 36													1.07	( 0.75- 1.52)
37	TEO 1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)	
42	HE2 8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31- 2.18)	
43	SULO 2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81- 3.47)	
43	SULO 4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25- 5.64)	
Subtotal 43													1.58	( 0.82- 3.05)
44	VOZORI 2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80- 1.20)	
45	DING 2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01- 2.27)	
Partial Totals								386	1253	319	777			

\*prospective study

Both

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
								Case	Cont	Case	Cont			
*5	SVENDS 2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)	
9	JACKSO 4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)	
9	JACKSO 2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)	
Subtotal 9													1.80	( 0.84- 3.87)
12	DOBSON 4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)	
12	DOBSON 2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)	
Subtotal 12													1.72	( 1.15- 2.59)
*21	KAWACH 11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)	
23	MCELDU 4	m	t	c	b	2	4	-	-	-	-	0.82	( 0.55- 1.22)	
23	MCELDU 2	f	t	c	b	2	4	-	-	-	-	2.15	( 1.18- 3.92)	
Subtotal 23													1.10	( 0.79- 1.53)
*34	QURESH 1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81- 1.38)	
*48	JEFFER 2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)	
Partial Totals								0	0	0	0			

\*prospective study

Fatal      Nonfatal      Both      Total

Relative risks

N	26	27	10	63
NS	16	19	7	42
Wt	4980.74	1899.12	148.01	7027.87
Het Chi	42.46	33.25	23.14	158.03
Het df	25	26	9	62
Het P	*	N.S.	**	***
Fixed RR	1.04	1.27	1.29	1.10
RR1	1.01	1.21	1.10	1.08
RRu	1.07	1.33	1.52	1.13
P	++	+++	++	+++
Random RR	1.07	1.27	1.47	1.18
RR1	1.02	1.19	1.10	1.12
RRu	1.12	1.36	1.96	1.24
P	++	+++	++	+++
Asymm P	***	N.S.	(*)	***
Between Chi		55.26	6.95	59.18
Between df		1	1	2
Between P		+++	++	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 15  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 By heart disease type 2 - adjusted

IHD								Number Exposed		Non-exposed		RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16 ( 0.94- 1.43)
*2	GARLAN	5	f	s	e	f	2	5	-	-	-	-	2.70 ( 0.63- 11.58)
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24 ( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93 ( 0.53- 1.64)
Subtotal 3													1.03 ( 0.65- 1.62)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61 ( 0.96- 2.71)
*6	BUTLER	2	f	s	e	f	2	1	-	-	-	-	1.07 ( 0.65- 1.75)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97 ( 0.73- 1.28)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99 ( 0.84- 1.16)
Subtotal 14													0.98 ( 0.86- 1.13)
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34 ( 1.07- 1.67)
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09 ( 0.98- 1.21)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04 ( 0.93- 1.16)
Subtotal 19													1.07 ( 0.99- 1.15)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38 ( 0.95- 2.01)
*29	ENSTRO	16	m	s	e	f	2	8	-	-	-	-	0.93 ( 0.83- 1.04)
*29	ENSTRO	32	f	s	e	f	2	8	-	-	-	-	0.99 ( 0.92- 1.08)
Subtotal 29													0.97 ( 0.91- 1.03)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20 ( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38 ( 1.04- 5.42)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30 ( 0.88- 1.93)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39 ( 0.95- 2.04)
Subtotal 33													1.35 ( 1.02- 1.77)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04 ( 0.88- 1.23)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98 ( 0.83- 1.17)
Subtotal 40													1.01 ( 0.90- 1.14)
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18 ( 0.96- 1.44)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27 ( 0.98- 1.66)
Subtotal 41													1.21 ( 1.03- 1.42)
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69 ( 1.31- 2.18)
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00 ( 0.80- 1.20)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52 ( 1.01- 2.27)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24 ( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10 ( 0.69- 6.33)
Subtotal 49													2.17 ( 1.00- 4.70)
Partial Totals								63	100	137	300		
*prospective study													

MI								Number Exposed		Non-exposed		RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case		
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60 ( 1.20- 5.70)
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09 ( 0.47- 2.53)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27 ( 0.52- 3.09)
Subtotal 13													1.17 ( 0.64- 2.16)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38 ( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33 ( 0.59- 2.99)
Subtotal 17													1.36 ( 0.80- 2.30)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18 ( 0.55- 2.52)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73 ( 0.89- 3.36)
Subtotal 22													1.47 ( 0.89- 2.42)
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82 ( 0.55- 1.22)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15 ( 1.18- 3.92)
Subtotal 23													1.10 ( 0.79- 1.53)
27	ROSENL	2	m	s	e	n	2	8	-	-	-	-	0.96 ( 0.64- 1.44)
27	ROSENL	14	f	s	e	n	2	8	-	-	-	-	1.53 ( 0.95- 2.44)
Subtotal 27													1.17 ( 0.86- 1.59)
36	STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98 ( 0.65- 1.50)
36	STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30 ( 0.67- 2.51)
Subtotal 36													1.07 ( 0.75- 1.52)
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37 ( 1.27- 1.48)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41 ( 1.04- 5.59)
Partial Totals								323	1153	182	477		
*prospective study													

-----  
 Within each study, results are included (in the following order of preference) for:  
 1) EXP Exposure = spouse (s), household (h), total (t)  
 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)  
 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD  
 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 15

ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
By heart disease type 2 - adjusted

## other

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
Subtotal 10														
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90- 1.05)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98- 1.08)
Subtotal 15														
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94- 2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26														
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81- 1.38)
Partial Totals									0	0	0	0		
*prospective study														

## mixed

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8														
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
Subtotal 9														
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
Subtotal 12														
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72- 1.37)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81- 3.47)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25- 5.64)
Subtotal 43														
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
Partial Totals									0	0	0	0		
*prospective study														

IHD                      MI                      other                      mixed                      Total

## Relative risks

N	27	15	9	12	63
NS	19	9	6	8	42
Wt	2666.20	813.71	3412.13	135.83	7027.87
Het Chi	50.83	19.11	26.09	15.19	158.03
Het df	26	14	8	11	62
Het P	**	N.S.	**	N.S.	***
Fixed RR	1.06	1.34	1.07	1.41	1.10
RR1	1.02	1.26	1.03	1.19	1.08
RRu	1.11	1.44	1.10	1.66	1.13
P	++	+++	+++	+++	+++
Random RR	1.12	1.30	1.12	1.47	1.18
RR1	1.05	1.12	1.04	1.19	1.12
RRu	1.20	1.51	1.21	1.82	1.24
P	+++	+++	++	+++	+++
Asymm P	***	N.S.	(*)	N.S.	***
Between Chi		34.13	0.03	10.03	46.80
Between df		1	1	1	3
Between P		+++	N.S.	++	***

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 16  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Overall - adjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94-	1.43)
*2	GARLAN	4	f	s	c	f	8	1	-	-	-	-	2.25	( 0.32-	15.74)
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58-	2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53-	1.64)
Subtotal 3													1.03	( 0.65-	1.62)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20-	5.70)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96-	2.71)
*6	BUTLER	4	f	s	c	f	8	1	-	-	-	-	1.40	( 0.51-	3.84)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01-	2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79-	3.46)
Subtotal 8													1.70	( 1.10-	2.63)
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39-	2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15-	12.19)
Subtotal 9													1.80	( 0.84-	3.87)
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05-	1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04-	1.36)
Subtotal 10													1.22	( 1.09-	1.37)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99-	2.57)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50-	1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47-	4.13)
Subtotal 12													1.72	( 1.15-	2.59)
13	LAVECC	6	m	s	c	n	8	8	-	-	-	-	1.09	( 0.39-	3.01)
13	LAVECC	4	f	s	c	n	8	8	-	-	-	-	1.36	( 0.46-	4.05)
Subtotal 13													1.21	( 0.57-	2.55)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73-	1.28)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84-	1.16)
Subtotal 14													0.98	( 0.86-	1.13)
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91-	1.06)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99-	1.09)
Subtotal 15													1.02	( 0.98-	1.07)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70-	2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59-	2.99)
Subtotal 17													1.36	( 0.80-	2.30)
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07-	1.67)
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07-	1.40)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96-	1.27)
Subtotal 19													1.16	( 1.05-	1.28)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95-	2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81-	2.90)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18	( 0.55-	2.52)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73	( 0.89-	3.36)
Subtotal 22													1.47	( 0.89-	2.42)
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82	( 0.55-	1.22)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15	( 1.18-	3.92)
Subtotal 23													1.10	( 0.79-	1.53)
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94-	2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00-	1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09-	1.30)
Subtotal 26													1.17	( 1.09-	1.26)
27	ROENL	4	m	s	c	n	8	8	-	-	-	-	0.98	( 0.57-	1.69)
27	ROENL	16	f	s	c	n	8	8	-	-	-	-	2.59	( 1.27-	5.29)
Subtotal 27													1.40	( 0.91-	2.16)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89-	1.99)
*29	ENSTRO	15	m	s	c	f	8	8	-	-	-	-	0.92	( 0.80-	1.05)
*29	ENSTRO	31	f	s	c	f	8	8	-	-	-	-	0.97	( 0.89-	1.06)
Subtotal 29													0.96	( 0.89-	1.03)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70-	2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04-	5.42)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88-	1.93)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95-	2.04)
Subtotal 33													1.35	( 1.02-	1.77)
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81-	1.38)
36	STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40-	1.23)
36	STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48-	1.82)
Subtotal 36													0.79	( 0.52-	1.22)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 16  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Overall - adjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27-	1.48)
*38	WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84-	1.67)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88-	1.23)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83-	1.17)
Subtotal 40													1.01	( 0.90-	1.14)
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96-	1.44)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98-	1.66)
Subtotal 41													1.21	( 1.03-	1.42)
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31-	2.18)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81-	3.47)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25-	5.64)
Subtotal 43													1.58	( 0.82-	3.05)
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80-	1.20)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01-	2.27)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92-	4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04-	5.59)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76-	6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69-	6.33)
Subtotal 49													2.17	( 1.00-	4.70)
Partial Totals									140	314	458	1499			

\*prospective study

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Ys	Ws	Qs	Ps
*1	HIRAYA	6	f	s	e	f	2	1	0.15	87.29	0.14	0.1655
*2	GARLAN	4	f	s	c	f	8	1	0.81	1.01	0.50	0.4145
3	LEE	2	m	s	m	n	2	2	0.22	6.59	0.07	0.5808
3	LEE	4	f	s	m	n	2	2	-0.07	12.04	0.40	0.8012
Subtotal 3									0.03	18.63	0.47	
4	MARTIN	1	f	s	e	n	2	6	0.96	6.33	4.54	0.0162
*5	SVENDS	2	m	s	c	b	2	6	0.48	14.27	1.93	0.0720
*6	BUTLER	4	f	s	c	f	8	1	0.34	3.77	0.20	0.5135
*8	HOLE	3	m	h	e	f	2	5	0.55	13.29	2.57	0.0457
*8	HOLE	2	f	h	e	f	2	5	0.50	7.04	1.08	0.1838
Subtotal 8									0.53	20.33	3.65	
9	JACKSO	4	m	h	c	b	2	2	0.06	3.80	0.01	0.9095
9	JACKSO	2	f	h	c	b	2	2	1.32	2.76	4.04	0.0285
Subtotal 9									0.59	6.56	4.05	
*10	SANDLE	2	m	h	c	f	2	4	0.27	77.28	2.02	0.0176
*10	SANDLE	4	f	h	c	f	2	4	0.17	213.52	0.91	0.0110
Subtotal 10									0.20	290.80	2.93	
*11	HUMBLE	1	f	s	c	f	8	4	0.46	16.88	2.13	0.0567
12	DOBSON	4	m	h	c	b	2	2	-0.03	8.90	0.17	0.9276
12	DOBSON	2	f	h	c	b	2	2	0.90	14.40	9.02	0.0006
Subtotal 12									0.54	23.30	9.20	
13	LAVECC	6	m	s	c	n	8	8	0.09	3.68	0.00	0.8687
13	LAVECC	4	f	s	c	n	8	8	0.31	3.25	0.13	0.5795
Subtotal 13									0.19	6.93	0.13	
14	LAYARD	2	m	s	e	f	2	2	-0.03	48.72	0.94	0.8316
14	LAYARD	10	f	s	e	f	2	2	-0.01	147.49	2.07	0.9029
Subtotal 14									-0.02	196.21	3.02	
*15	LEVOIS	2	m	s	c	f	8	2	-0.02	660.03	10.94	0.6037
*15	LEVOIS	7	f	s	c	f	8	2	0.04	1659.41	7.97	0.1101
Subtotal 15									0.02	2319.43	18.91	
17	MUSCAT	1	m	s	e	n	2	0	0.32	8.14	0.38	0.3546
17	MUSCAT	2	f	s	e	n	2	0	0.28	5.82	0.17	0.4970
Subtotal 17									0.31	13.96	0.55	
18	TUNSTA	2	c	t	c	n	2	4	0.29	77.54	2.63	0.0100
*19	STEENL	1	m	s	c	f	8	12	0.20	212.64	1.73	0.0037
*19	STEENL	2	f	s	c	f	8	13	0.10	196.22	0.03	0.1818
Subtotal 19									0.15	408.86	1.77	
20	JANGHO	1	f	s	e	n	2	0	0.32	27.39	1.25	0.0922
*21	KAWACH	11	f	h	c	b	2	15	0.43	9.45	0.95	0.1912
22	CIRUZZ	7	m	s	c	n	2	9	0.17	6.63	0.02	0.6699
22	CIRUZZ	8	f	s	c	n	2	9	0.55	8.71	1.68	0.1058

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 16  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Overall - adjusted

Overall

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Ys	Ws	Qs	Ps
Subtotal 22								0.38	15.34	1.70	
23 MCELDU 4		m	t	c	b	2	4	-0.20	24.21	2.28	0.3288
23 MCELDU 2		f	t	c	b	2	4	0.77	10.66	4.60	0.0124
Subtotal 23								0.10	34.87	6.88	
25 HE1 2		f	s	e	n	2	6	0.47	12.11	1.58	0.1020
26 IRIBAR 4		m	h	c	n	2	11	0.12	268.97	0.05	0.0450
26 IRIBAR 19		f	h	c	n	2	11	0.18	495.01	2.69	0.0000
Subtotal 26								0.16	763.97	2.75	
27 ROSENL 4		m	s	c	n	8	8	-0.02	13.01	0.22	0.9419
27 ROSENL 16		f	s	c	n	8	8	0.95	7.55	5.37	0.0089
Subtotal 27								0.34	20.56	5.58	
28 PITSAV 9		c	h	c	n	a	6	0.29	23.73	0.74	0.1648
*29 ENSTRO 15		m	s	c	f	8	8	-0.08	207.79	7.65	0.2294
*29 ENSTRO 31		f	s	c	f	8	8	-0.03	502.87	9.72	0.4946
Subtotal 29								-0.05	710.67	17.37	
30 CHEN 10		c	h	c	n	2	10	0.18	11.72	0.06	0.5326
31 NISHTA 3		c	s	e	n	1	1	0.87	5.64	3.24	0.0395
33 MCGHEE 1		m	h	p	f	2	2	0.26	24.91	0.59	0.1904
33 MCGHEE 2		f	h	p	f	2	2	0.33	26.31	1.28	0.0912
Subtotal 33								0.30	51.22	1.87	
*34 QURESH 1		f	s	m	b	2	7	0.05	54.13	0.19	0.7196
36 STRANG 25		m	h	c	n	2	0	-0.35	12.36	2.57	0.2222
36 STRANG 17		f	h	c	n	2	0	-0.07	8.71	0.27	0.8444
Subtotal 36								-0.23	21.07	2.83	
37 TEO 1		c	t	c	n	2	6	0.31	656.19	27.92	0.0000
*38 WEN 18		f	s	c	f	2	9	0.17	32.54	0.14	0.3211
*40 HILL1 2		m	h	c	f	2	9	0.04	137.04	0.66	0.6461
*40 HILL1 4		f	h	c	f	2	9	-0.02	130.35	2.16	0.8176
Subtotal 40								0.01	267.40	2.82	
*41 HILL2 2		m	h	c	f	2	9	0.17	93.46	0.30	0.1096
*41 HILL2 4		f	h	c	f	2	9	0.24	55.32	0.94	0.0754
Subtotal 41								0.19	148.79	1.25	
42 HE2 8		f	t	t	n	4	12	0.52	59.24	10.26	0.0001
43 SULO 2		m	s	c	n	4	14	0.52	7.26	1.22	0.1622
43 SULO 4		f	s	c	n	4	14	0.17	1.58	0.01	0.8268
Subtotal 43								0.46	8.84	1.23	
44 VOZORI 2		c	t	c	n	4	7	0.00	93.46	1.10	1.0000
45 DING 2		f	h	e	n	2	11	0.42	23.43	2.25	0.0427
*46 GALLO 17		c	s	c	f	2	5	0.69	6.48	2.18	0.0798
*48 JEFFER 2		c	s	c	b	2	16	0.88	5.43	3.23	0.0403
*49 HE3 2		m	t	e	f	2	9	0.81	3.29	1.60	0.1433
*49 HE3 4		f	t	e	f	2	9	0.74	3.13	1.25	0.1894
Subtotal 49								0.78	6.42	2.86	

Relative risks

N	63
NS	42
Wt	6582.20
Het Chi	158.98
Het df	62
Het P	***
Fixed RR	1.11
RRl	1.09
RRu	1.14
P	+++
Random RR	1.19
RRl	1.13
RRu	1.26
P	+++
Asymm P	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 17  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Overall - unadjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
*1	HIRAYA	3	f	s	e	f	2	0	376	69645	118	21895	1.00	( 0.82-	1.23)
*2	GARLAN	2	f	s	c	f	8	0	2	97	2	203	2.09	( 0.30-	14.64)
3	LEE	1	m	s	m	n	2	0	15	40	26	93	1.34	( 0.64-	2.80)
3	LEE	3	f	s	m	n	2	0	55	229	22	89	0.97	( 0.56-	1.69)
Subtotal 3													1.09	( 0.70-	1.70)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20-	5.70)
*5	SVENDS	1	m	s	c	b	2	0	21	286	48	959	1.47	( 0.89-	2.41)
*6	BUTLER	3	f	s	c	f	8	0	4	2487	60	43053	1.15	( 0.42-	3.17)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01-	2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79-	3.46)
Subtotal 8													1.70	( 1.10-	2.63)
9	JACKSO	3	m	h	c	b	2	0	-	-	-	-	1.10	( 0.40-	3.00)
9	JACKSO	1	f	h	c	b	2	0	-	-	-	-	4.00	( 1.35-	13.10)
Subtotal 9													1.94	( 0.91-	4.13)
*10	SANDLE	1	m	h	c	f	2	0	122	1248	248	2914	1.15	( 0.93-	1.41)
*10	SANDLE	3	f	h	c	f	2	0	551	9551	437	5322	0.70	( 0.62-	0.79)
Subtotal 10													0.80	( 0.72-	0.88)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99-	2.57)
12	DOBSON	3	m	h	c	b	2	0	22	34	161	259	1.04	( 0.59-	1.84)
12	DOBSON	1	f	h	c	b	2	0	43	99	117	433	1.61	( 1.06-	2.43)
Subtotal 12													1.39	( 0.99-	1.93)
13	LAVECC	5	m	s	c	n	8	0	7	17	55	140	1.05	( 0.41-	2.67)
13	LAVECC	3	f	s	c	n	8	0	17	20	11	17	1.31	( 0.48-	3.56)
Subtotal 13													1.16	( 0.59-	2.30)
14	LAYARD	1	m	s	e	f	2	0	97	215	378	783	0.93	( 0.71-	1.22)
14	LAYARD	9	f	s	e	f	2	0	455	961	459	969	1.00	( 0.85-	1.17)
Subtotal 14													0.98	( 0.86-	1.13)
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91-	1.06)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99-	1.09)
Subtotal 15													1.02	( 0.98-	1.07)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70-	2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59-	2.99)
Subtotal 17													1.36	( 0.80-	2.30)
18	TUNSTA	1	c	t	c	n	2	0	329	1216	99	483	1.32	( 1.03-	1.69)
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07-	1.40)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96-	1.27)
Subtotal 19													1.16	( 1.05-	1.28)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95-	2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81-	2.90)
22	CIRUZZ	5	m	s	c	n	2	0	15	22	141	206	1.00	( 0.50-	1.99)
22	CIRUZZ	6	f	s	c	n	2	0	29	25	151	193	1.48	( 0.83-	2.64)
Subtotal 22													1.26	( 0.81-	1.96)
23	MCELDU	3	m	t	c	b	2	0	53	172	145	373	0.79	( 0.55-	1.14)
23	MCELDU	1	f	t	c	b	2	0	31	147	54	479	1.87	( 1.16-	3.02)
Subtotal 23													1.08	( 0.81-	1.45)
25	HE1	1	f	s	e	n	2	0	76	95	39	113	2.32	( 1.44-	3.72)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00-	1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09-	1.30)
Subtotal 26													1.17	( 1.09-	1.26)
27	ROSENL	3	m	s	c	n	8	0	27	51	141	285	1.07	( 0.64-	1.78)
27	ROSENL	15	f	s	c	n	8	0	21	24	59	144	2.14	( 1.10-	4.13)
Subtotal 27													1.38	( 0.93-	2.07)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89-	1.99)
*29	ENSTRO	7	m	s	c	f	8	1	-	-	-	-	0.94	( 0.83-	1.07)
*29	ENSTRO	23	f	s	c	f	8	1	-	-	-	-	1.01	( 0.93-	1.09)
Subtotal 29													0.99	( 0.93-	1.06)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70-	2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04-	5.42)
33	MCGHEE	5	m	h	p	f	2	0	74	71	285	347	1.27	( 0.88-	1.82)
33	MCGHEE	6	f	h	p	f	2	0	113	150	112	195	1.31	( 0.94-	1.84)
Subtotal 33													1.29	( 1.01-	1.65)
*34	QURESH	2	f	s	m	b	2	0	140	1823	79	1209	1.18	( 0.90-	1.53)
36	STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40-	1.23)
36	STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48-	1.82)
Subtotal 36													0.79	( 0.52-	1.22)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)



Table 17  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Overall - unadjusted

Overall

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
37 TEO	1	c	t	c	n	2	6	-	-	-	-	1.37 ( 1.27- 1.48)	
*38 WEN	18	f	s	c	f	2	9	-	-	-	-	1.19 ( 0.84- 1.67)	
*40 HILL1	1	m	h	c	f	2	2	-	-	-	-	1.00 ( 0.85- 1.18)	
*40 HILL1	3	f	h	c	f	2	2	-	-	-	-	0.98 ( 0.83- 1.15)	
Subtotal 40												0.99 ( 0.88- 1.11)	
*41 HILL2	1	m	h	c	f	2	2	-	-	-	-	1.07 ( 0.86- 1.32)	
*41 HILL2	3	f	h	c	f	2	2	-	-	-	-	1.26 ( 0.98- 1.63)	
Subtotal 41												1.15 ( 0.97- 1.35)	
42 HE2	1	f	t	t	n	4	0	200	277	231	501	1.57 ( 1.23- 1.99)	
43 SULO	1	m	s	c	n	4	1	-	-	-	-	1.76 ( 0.98- 3.18)	
43 SULO	3	f	s	c	n	4	1	-	-	-	-	1.05 ( 0.48- 2.30)	
Subtotal 43												1.46 ( 0.91- 2.34)	
44 VOZORI	1	c	t	c	n	4	0	293	11991	1480	34776	0.57 ( 0.51- 0.65)	
45 DING	1	f	h	e	n	2	0	95	65	219	254	1.70 ( 1.18- 2.44)	
*46 GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99 ( 0.92- 4.29)	
*48 JEFFER	1	c	s	c	b	2	2	-	-	-	-	2.17 ( 0.97- 4.84)	
*49 HE3	1	m	t	e	f	2	0	14	271	5	168	1.74 ( 0.64- 4.73)	
*49 HE3	3	f	t	e	f	2	0	18	340	4	131	1.73 ( 0.60- 5.03)	
Subtotal 49												1.73 ( 0.84- 3.60)	
Partial Totals								3455	101983	5844	118485		

\*prospective study

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Ys	Ws	Qs	Ps
*1 HIRAYA	3	f	s	e	f	2	0	0.00	90.30	0.36	0.9867
*2 GARLAN	2	f	s	c	f	8	0	0.74	1.02	0.46	0.4568
3 LEE	1	m	s	m	n	2	0	0.29	7.10	0.37	0.4340
3 LEE	3	f	s	m	n	2	0	-0.03	12.62	0.11	0.9185
Subtotal 3								0.09	19.72	0.48	
4 MARTIN	1	f	s	e	n	2	6	0.96	6.33	5.02	0.0162
*5 SVENDS	1	m	s	c	b	2	0	0.38	15.65	1.59	0.1296
*6 BUTLER	3	f	s	c	f	8	0	0.14	3.76	0.02	0.7812
*8 HOLE	3	m	h	e	f	2	5	0.55	13.29	3.10	0.0457
*8 HOLE	2	f	h	e	f	2	5	0.50	7.04	1.34	0.1838
Subtotal 8								0.53	20.33	4.44	
9 JACKSO	3	m	h	c	b	2	0	0.10	3.78	0.00	0.8529
9 JACKSO	1	f	h	c	b	2	0	1.39	2.98	5.20	0.0168
Subtotal 9								0.66	6.76	5.20	
*10 SANDLE	1	m	h	c	f	2	0	0.14	90.22	0.49	0.1881
*10 SANDLE	3	f	h	c	f	2	0	-0.35	262.43	45.81	0.0000
Subtotal 10								-0.23	352.64	46.30	
*11 HUMBLE	1	f	s	c	f	8	4	0.46	16.88	2.69	0.0567
12 DOBSON	3	m	h	c	b	2	0	0.04	11.77	0.01	0.8905
12 DOBSON	1	f	h	c	b	2	0	0.47	22.62	3.80	0.0240
Subtotal 12								0.33	34.39	3.81	
13 LAVECC	5	m	s	c	n	8	0	0.05	4.41	0.00	0.9214
13 LAVECC	3	f	s	c	n	8	0	0.27	3.87	0.17	0.5916
Subtotal 13								0.15	8.27	0.17	
14 LAYARD	1	m	s	e	f	2	0	-0.07	52.96	0.93	0.6223
14 LAYARD	9	f	s	e	f	2	0	-0.00	155.06	0.66	0.9954
Subtotal 14								-0.02	208.02	1.59	
*15 LEVOIS	2	m	s	c	f	8	2	-0.02	660.03	4.77	0.6037
*15 LEVOIS	7	f	s	c	f	8	2	0.04	1659.41	1.09	0.1101
Subtotal 15								0.02	2319.43	5.86	
17 MUSCAT	1	m	s	e	n	2	0	0.32	8.14	0.55	0.3546
17 MUSCAT	2	f	s	e	n	2	0	0.28	5.82	0.27	0.4970
Subtotal 17								0.31	13.96	0.82	
18 TUNSTA	1	c	t	c	n	2	0	0.28	62.37	2.83	0.0283
*19 STEENL	1	m	s	c	f	8	12	0.20	212.64	3.82	0.0037
*19 STEENL	2	f	s	c	f	8	13	0.10	196.22	0.18	0.1818
Subtotal 19								0.15	408.86	4.00	
20 JANGHO	1	f	s	e	n	2	0	0.32	27.39	1.81	0.0922
*21 KAWACH	11	f	h	c	b	2	15	0.43	9.45	1.23	0.1912
22 CIRUZZ	5	m	s	c	n	2	0	-0.00	8.06	0.04	0.9912
22 CIRUZZ	6	f	s	c	n	2	0	0.39	11.59	1.25	0.1800

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 17  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Overall - unadjusted

Overall

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Ys	Ws	Qs	Ps
Subtotal 22								0.23	19.65	1.29	
23	MCELDU 3	m	t	c	b	2	0	-0.23	29.19	2.58	0.2093
23	MCELDU 1	f	t	c	b	2	0	0.63	16.76	5.28	0.0104
Subtotal 23								0.08	45.95	7.86	
25	HE1 1	f	s	e	n	2	0	0.84	17.19	10.35	0.0005
26	IRIBAR 4	m	h	c	n	2	11	0.12	268.97	0.89	0.0450
26	IRIBAR 19	f	h	c	n	2	11	0.18	495.01	6.84	0.0000
Subtotal 26								0.16	763.97	7.72	
27	ROSENL 3	m	s	c	n	8	0	0.07	14.87	0.00	0.7939
27	ROSENL 15	f	s	c	n	8	0	0.76	8.84	4.25	0.0241
Subtotal 27								0.33	23.71	4.25	
28	PITSAV 9	c	h	c	n	a	6	0.29	23.73	1.15	0.1648
*29	ENSTRO 7	m	s	c	f	8	1	-0.06	238.19	3.82	0.3396
*29	ENSTRO 23	f	s	c	f	8	1	0.01	609.73	1.83	0.8059
Subtotal 29								-0.01	847.92	5.66	
30	CHEN 10	c	h	c	n	2	10	0.18	11.72	0.16	0.5326
31	NISHTA 3	c	s	e	n	1	1	0.87	5.64	3.63	0.0395
33	MCGHEE 5	m	h	p	f	2	0	0.24	29.42	0.88	0.1963
33	MCGHEE 6	f	h	p	f	2	0	0.27	33.81	1.44	0.1147
Subtotal 33								0.26	63.24	2.33	
*34	QURESH 2	f	s	m	b	2	0	0.16	54.27	0.51	0.2341
36	STRANG 25	m	h	c	n	2	0	-0.35	12.36	2.10	0.2222
36	STRANG 17	f	h	c	n	2	0	-0.07	8.71	0.15	0.8444
Subtotal 36								-0.23	21.07	2.25	
37	TEO 1	c	t	c	n	2	6	0.31	656.19	41.01	0.0000
*38	WEN 18	f	s	c	f	2	9	0.17	32.54	0.39	0.3211
*40	HILL1 1	m	h	c	f	2	2	0.00	142.80	0.60	1.0000
*40	HILL1 3	f	h	c	f	2	2	-0.02	144.50	1.04	0.8081
Subtotal 40								-0.01	287.30	1.64	
*41	HILL2 1	m	h	c	f	2	2	0.07	83.70	0.00	0.5359
*41	HILL2 3	f	h	c	f	2	2	0.23	59.36	1.64	0.0750
Subtotal 41								0.14	143.06	1.64	
42	HE2 1	f	t	t	n	4	0	0.45	66.96	9.86	0.0002
43	SULO 1	m	s	c	n	4	1	0.57	11.09	2.78	0.0598
43	SULO 3	f	s	c	n	4	1	0.05	6.26	0.00	0.9029
Subtotal 43								0.38	17.35	2.78	
44	VOZORI 1	c	t	c	n	4	0	-0.55	238.05	91.40	0.0000
45	DING 1	f	h	e	n	2	0	0.53	29.06	6.23	0.0044
*46	GALLO 17	c	s	c	f	2	5	0.69	6.48	2.52	0.0798
*48	JEFFER 1	c	s	c	b	2	2	0.77	5.95	3.00	0.0588
*49	HE3 1	m	t	e	f	2	0	0.55	3.82	0.90	0.2811
*49	HE3 3	f	t	e	f	2	0	0.55	3.39	0.80	0.3109
Subtotal 49								0.55	7.21	1.70	

Relative risks

N	63
NS	42
Wt	7013.73
Het Chi	298.01
Het df	62
Het P	***
Fixed RR	1.07
RRl	1.04
RRu	1.09
P	+++
Random RR	1.17
RRl	1.09
RRu	1.26
P	+++
Asymm P	*

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 18  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By sex - adjusted

combined

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80- 1.20)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
Partial Totals									0	0	0	0		

\*prospective study

male

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
13	LAVECC	6	m	s	c	n	8	8	-	-	-	-	1.09	( 0.39- 3.01)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91- 1.06)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07- 1.40)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18	( 0.55- 2.52)
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82	( 0.55- 1.22)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
27	ROSENL	4	m	s	c	n	8	8	-	-	-	-	0.98	( 0.57- 1.69)
*29	ENSTRO	15	m	s	c	f	8	8	-	-	-	-	0.92	( 0.80- 1.05)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
36	STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40- 1.23)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81- 3.47)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
Partial Totals									38	83	225	486		

\*prospective study

female

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
*2	GARLAN	4	f	s	c	f	8	1	-	-	-	-	2.25	( 0.32- 15.74)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*6	BUTLER	4	f	s	c	f	8	1	-	-	-	-	1.40	( 0.51- 3.84)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
13	LAVECC	4	f	s	c	n	8	8	-	-	-	-	1.36	( 0.46- 4.05)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99- 1.09)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96- 1.27)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73	( 0.89- 3.36)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15	( 1.18- 3.92)
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94- 2.90)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
27	ROSENL	16	f	s	c	n	8	8	-	-	-	-	2.59	( 1.27- 5.29)
*29	ENSTRO	31	f	s	c	f	8	8	-	-	-	-	0.97	( 0.89- 1.06)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 18  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By sex - adjusted

female

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95-	2.04)
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81-	1.38)
36	STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48-	1.82)
*38	WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84-	1.67)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83-	1.17)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98-	1.66)
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31-	2.18)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25-	5.64)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01-	2.27)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69-	6.33)
Partial Totals									102	231	233	1013			

\*prospective study

combined                      male                      female                      Total

Relative risks

N	8	22	33	63
NS	8	22	33	63
Wt	880.19	1856.29	3845.72	6582.20
Het Chi	13.19	33.21	78.90	158.98
Het df	7	21	32	62
Het P	(*)	*	***	***
Fixed RR	1.33	1.06	1.10	1.11
RR1	1.25	1.01	1.06	1.09
RRu	1.42	1.11	1.13	1.14
P	+++	+	+++	+++
Random RR	1.32	1.09	1.22	1.19
RR1	1.14	1.02	1.13	1.13
RRu	1.54	1.18	1.32	1.26
P	+++	+	+++	+++
Asymm P	N.S.	N.S.	***	***
Between Chi		31.19	27.10	33.68
Between df		1	1	2
Between P		---	---	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 19  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By sex - unadjusted

combined

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
18	TUNSTA	1	c	t	c	n	2	0	329	1216	99	483	1.32	( 1.03- 1.69)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
44	VOZORI	1	c	t	c	n	4	0	293	11991	1480	34776	0.57	( 0.51- 0.65)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	1	c	s	c	b	2	2	-	-	-	-	2.17	( 0.97- 4.84)
Partial Totals									622	13207	1579	35259		

\*prospective study

male

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
3	LEE	1	m	s	m	n	2	0	15	40	26	93	1.34	( 0.64- 2.80)
*5	SVENDS	1	m	s	c	b	2	0	21	286	48	959	1.47	( 0.89- 2.41)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
9	JACKSO	3	m	h	c	b	2	0	-	-	-	-	1.10	( 0.40- 3.00)
*10	SANDLE	1	m	h	c	f	2	0	122	1248	248	2914	1.15	( 0.93- 1.41)
12	DOBSON	3	m	h	c	b	2	0	22	34	161	259	1.04	( 0.59- 1.84)
13	LAVECC	5	m	s	c	n	8	0	7	17	55	140	1.05	( 0.41- 2.67)
14	LAYARD	1	m	s	e	f	2	0	97	215	378	783	0.93	( 0.71- 1.22)
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91- 1.06)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07- 1.40)
22	CIRUZZ	5	m	s	c	n	2	0	15	22	141	206	1.00	( 0.50- 1.99)
23	MCELDU	3	m	t	c	b	2	0	53	172	145	373	0.79	( 0.55- 1.14)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
27	ROSENL	3	m	s	c	n	8	0	27	51	141	285	1.07	( 0.64- 1.78)
*29	ENSTRO	7	m	s	c	f	8	1	-	-	-	-	0.94	( 0.83- 1.07)
33	MCGHEE	5	m	h	p	f	2	0	74	71	285	347	1.27	( 0.88- 1.82)
36	STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40- 1.23)
*40	HILL1	1	m	h	c	f	2	2	-	-	-	-	1.00	( 0.85- 1.18)
*41	HILL2	1	m	h	c	f	2	2	-	-	-	-	1.07	( 0.86- 1.32)
43	SULO	1	m	s	c	n	4	1	-	-	-	-	1.76	( 0.98- 3.18)
*49	HE3	1	m	t	e	f	2	0	14	271	5	168	1.74	( 0.64- 4.73)
Partial Totals									505	2510	1858	7013		

\*prospective study

female

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	3	f	s	e	f	2	0	376	69645	118	21895	1.00	( 0.82- 1.23)
*2	GARLAN	2	f	s	c	f	8	0	2	97	2	203	2.09	( 0.30- 14.64)
3	LEE	3	f	s	m	n	2	0	55	229	22	89	0.97	( 0.56- 1.69)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*6	BUTLER	3	f	s	c	f	8	0	4	2487	60	43053	1.15	( 0.42- 3.17)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
9	JACKSO	1	f	h	c	b	2	0	-	-	-	-	4.00	( 1.35- 13.10)
*10	SANDLE	3	f	h	c	f	2	0	551	9551	437	5322	0.70	( 0.62- 0.79)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	1	f	h	c	b	2	0	43	99	117	433	1.61	( 1.06- 2.43)
13	LAVECC	3	f	s	c	n	8	0	17	20	11	17	1.31	( 0.48- 3.56)
14	LAYARD	9	f	s	e	f	2	0	455	961	459	969	1.00	( 0.85- 1.17)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99- 1.09)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96- 1.27)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
22	CIRUZZ	6	f	s	c	n	2	0	29	25	151	193	1.48	( 0.83- 2.64)
23	MCELDU	1	f	t	c	b	2	0	31	147	54	479	1.87	( 1.16- 3.02)
25	HE1	1	f	s	e	n	2	0	76	95	39	113	2.32	( 1.44- 3.72)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
27	ROSENL	15	f	s	c	n	8	0	21	24	59	144	2.14	( 1.10- 4.13)
*29	ENSTRO	23	f	s	c	f	8	1	-	-	-	-	1.01	( 0.93- 1.09)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 19  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By sex - unadjusted

female

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
33	MCGHEE	6	f	h	p	f	2	0	113	150	112	195	1.31	( 0.94-	1.84)
*34	QURESH	2	f	s	m	b	2	0	140	1823	79	1209	1.18	( 0.90-	1.53)
36	STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48-	1.82)
*38	WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84-	1.67)
*40	HILL1	3	f	h	c	f	2	2	-	-	-	-	0.98	( 0.83-	1.15)
*41	HILL2	3	f	h	c	f	2	2	-	-	-	-	1.26	( 0.98-	1.63)
42	HE2	1	f	t	t	n	4	0	200	277	231	501	1.57	( 1.23-	1.99)
43	SULO	3	f	s	c	n	4	1	-	-	-	-	1.05	( 0.48-	2.30)
45	DING	1	f	h	e	n	2	0	95	65	219	254	1.70	( 1.18-	2.44)
*49	HE3	3	f	t	e	f	2	0	18	340	4	131	1.73	( 0.60-	5.03)
Partial Totals									2328	86266	2407	76213			

\*prospective study

combined                      male                      female                      Total

Relative risks

N	8	22	33	63
NS	8	22	33	63
Wt	1010.13	1922.45	4081.15	7013.73
Het Chi	143.31	29.45	122.05	298.01
Het df	7	21	32	62
Het P	***	N.S.	***	***
Fixed RR	1.12	1.05	1.06	1.07
RR1	1.05	1.00	1.03	1.04
RRu	1.19	1.09	1.10	1.09
P	+++	+	+++	+++
Random RR	1.33	1.07	1.21	1.17
RR1	0.90	1.00	1.11	1.09
RRu	1.98	1.14	1.32	1.26
P	N.S.	(+)	+++	+++
Asymm P	N.S.	N.S.	**	*
Between Chi		3.13	2.13	3.20
Between df		1	1	2
Between P		(-)	N.S.	N.S.

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 20  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By continent - adjusted

NAmerica

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*2	GARLAN	4	f	s	c	f	8	1	-	-	-	-	2.25	( 0.32- 15.74)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)
*6	BUTLER	4	f	s	c	f	8	1	-	-	-	-	1.40	( 0.51- 3.84)
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
Subtotal 10														
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
Subtotal 14														
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91- 1.06)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99- 1.09)
Subtotal 15														
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17														
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07- 1.40)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96- 1.27)
Subtotal 19														
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26														
*29	ENSTRO	15	m	s	c	f	8	8	-	-	-	-	0.92	( 0.80- 1.05)
*29	ENSTRO	31	f	s	c	f	8	8	-	-	-	-	0.97	( 0.89- 1.06)
Subtotal 29														
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81- 1.38)
36	STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40- 1.23)
36	STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48- 1.82)
Subtotal 36														
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80- 1.20)
Partial Totals									77	214	321	1199		

\*prospective study

Europe

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
Subtotal 3														
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8														
13	LAVECC	6	m	s	c	n	8	8	-	-	-	-	1.09	( 0.39- 3.01)
13	LAVECC	4	f	s	c	n	8	8	-	-	-	-	1.36	( 0.46- 4.05)
Subtotal 13														
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
27	ROENL	4	m	s	c	n	8	8	-	-	-	-	0.98	( 0.57- 1.69)
27	ROENL	16	f	s	c	n	8	8	-	-	-	-	2.59	( 1.27- 5.29)
Subtotal 27														
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81- 3.47)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25- 5.64)
Subtotal 43														
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
Partial Totals									0	0	0	0		

\*prospective study

-----  
 Within each study, results are included (in the following order of preference) for:  
 1) EXP Exposure = spouse (s), household (h), total (t)  
 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)  
 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD  
 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 20  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By continent - adjusted

Asia

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94- 2.90)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95- 2.04)
Subtotal 33														
*38	WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84- 1.67)
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31- 2.18)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01- 2.27)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69- 6.33)
Subtotal 49														
Partial Totals									63	100	137	300	2.17	( 1.00- 4.70)

\*prospective study

Other

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
Subtotal 9														
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
Subtotal 12														
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18	( 0.55- 2.52)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73	( 0.89- 3.36)
Subtotal 22														
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82	( 0.55- 1.22)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15	( 1.18- 3.92)
Subtotal 23														
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83- 1.17)
Subtotal 40														
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98- 1.66)
Subtotal 41														
Partial Totals									0	0	0	0	1.21	( 1.03- 1.42)

\*prospective study

NAmerica      Europe      Asia      Other      Total

Relative risks

N	24	15	11	13	63
NS	16	10	9	7	42
Wt	4924.27	200.20	305.28	1152.45	6582.20
Het Chi	49.24	10.78	9.35	37.12	158.98
Het df	23	14	10	12	62
Het P	**	N.S.	N.S.	***	***
Fixed RR	1.06	1.38	1.38	1.26	1.11
RR1	1.03	1.20	1.24	1.19	1.09
RRu	1.09	1.58	1.55	1.33	1.14
P	+++	+++	+++	+++	+++
Random RR	1.08	1.38	1.38	1.24	1.19
RR1	1.03	1.20	1.24	1.07	1.13
RRu	1.14	1.58	1.55	1.44	1.26
P	++	+++	+++	++	+++
Asymm P	(*)	N.S.	(*)	N.S.	***
Between Chi		13.38	20.38	27.18	52.49
Between df		1	1	1	3
Between P		+++	+++	+++	***

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)



Table 21  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By continent - unadjusted

NAmerica

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
*2	GARLAN	2	f	s	c	f	8	0	2	97	2	203	2.09	( 0.30-	14.64)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20-	5.70)
*5	SVENDS	1	m	s	c	b	2	0	21	286	48	959	1.47	( 0.89-	2.41)
*6	BUTLER	3	f	s	c	f	8	0	4	2487	60	43053	1.15	( 0.42-	3.17)
*10	SANDLE	1	m	h	c	f	2	0	122	1248	248	2914	1.15	( 0.93-	1.41)
*10	SANDLE	3	f	h	c	f	2	0	551	9551	437	5322	0.70	( 0.62-	0.79)
Subtotal 10													0.80	( 0.72-	0.88)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99-	2.57)
14	LAYARD	1	m	s	e	f	2	0	97	215	378	783	0.93	( 0.71-	1.22)
14	LAYARD	9	f	s	e	f	2	0	455	961	459	969	1.00	( 0.85-	1.17)
Subtotal 14													0.98	( 0.86-	1.13)
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91-	1.06)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99-	1.09)
Subtotal 15													1.02	( 0.98-	1.07)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70-	2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59-	2.99)
Subtotal 17													1.36	( 0.80-	2.30)
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07-	1.40)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96-	1.27)
Subtotal 19													1.16	( 1.05-	1.28)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81-	2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00-	1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09-	1.30)
Subtotal 26													1.17	( 1.09-	1.26)
*29	ENSTRO	7	m	s	c	f	8	1	-	-	-	-	0.94	( 0.83-	1.07)
*29	ENSTRO	23	f	s	c	f	8	1	-	-	-	-	1.01	( 0.93-	1.09)
Subtotal 29													0.99	( 0.93-	1.06)
*34	QURESH	2	f	s	m	b	2	0	140	1823	79	1209	1.18	( 0.90-	1.53)
36	STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40-	1.23)
36	STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48-	1.82)
Subtotal 36													0.79	( 0.52-	1.22)
44	VOZORI	1	c	t	c	n	4	0	293	11991	1480	34776	0.57	( 0.51-	0.65)
Partial Totals									1762	28873	3512	91387			

\*prospective study

Europe

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
3	LEE	1	m	s	m	n	2	0	15	40	26	93	1.34	( 0.64-	2.80)
3	LEE	3	f	s	m	n	2	0	55	229	22	89	0.97	( 0.56-	1.69)
Subtotal 3													1.09	( 0.70-	1.70)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01-	2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79-	3.46)
Subtotal 8													1.70	( 1.10-	2.63)
13	LAVECC	5	m	s	c	n	8	0	7	17	55	140	1.05	( 0.41-	2.67)
13	LAVECC	3	f	s	c	n	8	0	17	20	11	17	1.31	( 0.48-	3.56)
Subtotal 13													1.16	( 0.59-	2.30)
18	TUNSTA	1	c	t	c	n	2	0	329	1216	99	483	1.32	( 1.03-	1.69)
27	ROSENL	3	m	s	c	n	8	0	27	51	141	285	1.07	( 0.64-	1.78)
27	ROSENL	15	f	s	c	n	8	0	21	24	59	144	2.14	( 1.10-	4.13)
Subtotal 27													1.38	( 0.93-	2.07)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89-	1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70-	2.20)
43	SULO	1	m	s	c	n	4	1	-	-	-	-	1.76	( 0.98-	3.18)
43	SULO	3	f	s	c	n	4	1	-	-	-	-	1.05	( 0.48-	2.30)
Subtotal 43													1.46	( 0.91-	2.34)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92-	4.29)
*48	JEFFER	1	c	s	c	b	2	2	-	-	-	-	2.17	( 0.97-	4.84)
Partial Totals									471	1597	413	1251			

\*prospective study

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 21  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By continent - unadjusted

Asia

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	3	f	s	e	f	2	0	376	69645	118	21895	1.00	( 0.82- 1.23)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
25	HE1	1	f	s	e	n	2	0	76	95	39	113	2.32	( 1.44- 3.72)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
33	MCGHEE	5	m	h	p	f	2	0	74	71	285	347	1.27	( 0.88- 1.82)
33	MCGHEE	6	f	h	p	f	2	0	113	150	112	195	1.31	( 0.94- 1.84)
Subtotal 33														
*38	WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84- 1.67)
42	HE2	1	f	t	t	n	4	0	200	277	231	501	1.57	( 1.23- 1.99)
45	DING	1	f	h	e	n	2	0	95	65	219	254	1.70	( 1.18- 2.44)
*49	HE3	1	m	t	e	f	2	0	14	271	5	168	1.74	( 0.64- 4.73)
*49	HE3	3	f	t	e	f	2	0	18	340	4	131	1.73	( 0.60- 5.03)
Subtotal 49														
Partial Totals									1029	71014	1150	23904	1.73	( 0.84- 3.60)

\*prospective study

Other

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
9	JACKSO	3	m	h	c	b	2	0	-	-	-	-	1.10	( 0.40- 3.00)
9	JACKSO	1	f	h	c	b	2	0	-	-	-	-	4.00	( 1.35- 13.10)
Subtotal 9														
12	DOBSON	3	m	h	c	b	2	0	22	34	161	259	1.04	( 0.59- 1.84)
12	DOBSON	1	f	h	c	b	2	0	43	99	117	433	1.61	( 1.06- 2.43)
Subtotal 12														
22	CIRUZZ	5	m	s	c	n	2	0	15	22	141	206	1.00	( 0.50- 1.99)
22	CIRUZZ	6	f	s	c	n	2	0	29	25	151	193	1.48	( 0.83- 2.64)
Subtotal 22														
23	MCELDU	3	m	t	c	b	2	0	53	172	145	373	0.79	( 0.55- 1.14)
23	MCELDU	1	f	t	c	b	2	0	31	147	54	479	1.87	( 1.16- 3.02)
Subtotal 23														
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*40	HILL1	1	m	h	c	f	2	2	-	-	-	-	1.00	( 0.85- 1.18)
*40	HILL1	3	f	h	c	f	2	2	-	-	-	-	0.98	( 0.83- 1.15)
Subtotal 40														
*41	HILL2	1	m	h	c	f	2	2	-	-	-	-	1.07	( 0.86- 1.32)
*41	HILL2	3	f	h	c	f	2	2	-	-	-	-	1.26	( 0.98- 1.63)
Subtotal 41														
Partial Totals									193	499	769	1943	1.15	( 0.97- 1.35)

\*prospective study

NAmerica      Europe      Asia      Other      Total

Relative risks

N	24	15	11	13	63
NS	16	10	9	7	42
Wt	5281.28	199.63	339.52	1193.30	7013.73
Het Chi	160.35	9.04	18.96	38.34	298.01
Het df	23	14	10	12	62
Het P	***	N.S.	*	***	***
Fixed RR	1.01	1.37	1.34	1.23	1.07
RR1	0.98	1.20	1.21	1.16	1.04
RRu	1.04	1.58	1.49	1.30	1.09
P	N.S.	+++	+++	+++	+++
Random RR	1.03	1.37	1.42	1.18	1.17
RR1	0.94	1.20	1.20	1.03	1.09
RRu	1.13	1.58	1.66	1.37	1.26
P	N.S.	+++	+++	+	+++
Asymm P	N.S.	N.S.	(*)	N.S.	*
Between Chi		18.36	25.83	38.36	71.31
Between df		1	1	1	3
Between P		+++	+++	+++	***

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 22  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By publication year (grouped) - adjusted

1984-89

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
*2	GARLAN	4	f	s	c	f	8	1	-	-	-	-	2.25	( 0.32- 15.74)
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
Subtotal 3													1.03	( 0.65- 1.62)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)
*6	BUTLER	4	f	s	c	f	8	1	-	-	-	-	1.40	( 0.51- 3.84)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8													1.70	( 1.10- 2.63)
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
Subtotal 9													1.80	( 0.84- 3.87)
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
Subtotal 10													1.22	( 1.09- 1.37)
Partial Totals									0	0	0	0		
*prospective study														

1990-97

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
Subtotal 12													1.72	( 1.15- 2.59)
13	LAVECC	6	m	s	c	n	8	8	-	-	-	-	1.09	( 0.39- 3.01)
13	LAVECC	4	f	s	c	n	8	8	-	-	-	-	1.36	( 0.46- 4.05)
Subtotal 13													1.21	( 0.57- 2.55)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
Subtotal 14													0.98	( 0.86- 1.13)
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91- 1.06)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99- 1.09)
Subtotal 15													1.02	( 0.98- 1.07)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17													1.36	( 0.80- 2.30)
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07- 1.40)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96- 1.27)
Subtotal 19													1.16	( 1.05- 1.28)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
Partial Totals									111	152	203	406		
*prospective study														

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 22  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By publication year (grouped) - adjusted

1998-04

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
22 CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18 ( 0.55-	2.52)
22 CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73 ( 0.89-	3.36)
Subtotal 22													
23 MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82 ( 0.55-	1.22)
23 MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15 ( 1.18-	3.92)
Subtotal 23													
25 HE1	2	f	s	e	n	2	6	-	-	-	-	1.60 ( 0.94-	2.90)
26 IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13 ( 1.00-	1.27)
26 IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20 ( 1.09-	1.30)
Subtotal 26													
27 ROENL	4	m	s	c	n	8	8	-	-	-	-	0.98 ( 0.57-	1.69)
27 ROENL	16	f	s	c	n	8	8	-	-	-	-	2.59 ( 1.27-	5.29)
Subtotal 27													
28 PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33 ( 0.89-	1.99)
*29 ENSTRO	15	m	s	c	f	8	8	-	-	-	-	0.92 ( 0.80-	1.05)
*29 ENSTRO	31	f	s	c	f	8	8	-	-	-	-	0.97 ( 0.89-	1.06)
Subtotal 29													
30 CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20 ( 0.70-	2.20)
31 NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38 ( 1.04-	5.42)
Partial Totals								0	0	0	0		

\*prospective study

2005-07

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
33 MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30 ( 0.88-	1.93)
33 MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39 ( 0.95-	2.04)
Subtotal 33													
*34 QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05 ( 0.81-	1.38)
36 STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71 ( 0.40-	1.23)
36 STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94 ( 0.48-	1.82)
Subtotal 36													
37 TEO	1	c	t	c	n	2	6	-	-	-	-	1.37 ( 1.27-	1.48)
*38 WEN	18	f	s	c	f	2	9	-	-	-	-	1.19 ( 0.84-	1.67)
*40 HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04 ( 0.88-	1.23)
*40 HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98 ( 0.83-	1.17)
Subtotal 40													
*41 HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18 ( 0.96-	1.44)
*41 HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27 ( 0.98-	1.66)
Subtotal 41													
Partial Totals								29	162	255	1093		

\*prospective study

2008 onwards

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
42 HE2	8	f	t	t	n	4	12	-	-	-	-	1.69 ( 1.31-	2.18)
43 SULO	2	m	s	c	n	4	14	-	-	-	-	1.68 ( 0.81-	3.47)
43 SULO	4	f	s	c	n	4	14	-	-	-	-	1.19 ( 0.25-	5.64)
Subtotal 43													
44 VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00 ( 0.80-	1.20)
45 DING	2	f	h	e	n	2	11	-	-	-	-	1.52 ( 1.01-	2.27)
*46 GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99 ( 0.92-	4.29)
*48 JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41 ( 1.04-	5.59)
*49 HE3	2	m	t	e	f	2	9	-	-	-	-	2.24 ( 0.76-	6.59)
*49 HE3	4	f	t	e	f	2	9	-	-	-	-	2.10 ( 0.69-	6.33)
Subtotal 49													
Partial Totals								0	0	0	0		

\*prospective study

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 22  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By publication year (grouped) - adjusted

	1984-89	1990-97	1998-04	2005-07	2008 onwa	Total
Relative risks						
N	13	16	14	11	9	63
NS	9	10	9	7	7	42
Wt	449.00	3099.96	1598.60	1231.33	203.31	6582.20
Het Chi	12.29	31.74	38.51	24.74	16.35	158.98
Het df	12	15	13	10	8	62
Het P	N.S.	**	***	**	*	***
Fixed RR	1.25	1.06	1.08	1.23	1.34	1.11
RRl	1.14	1.02	1.03	1.16	1.17	1.09
RRu	1.37	1.09	1.14	1.30	1.53	1.14
P	+++	++	++	+++	+++	+++
Random RR	1.26	1.13	1.16	1.15	1.54	1.19
RRl	1.14	1.04	1.02	1.03	1.19	1.13
RRu	1.39	1.22	1.31	1.29	1.99	1.26
P	+++	++	+	+	++	+++
Asymm P	*	*	(*)	(*)	(*)	***
Between Chi		11.32	7.50	0.09	0.60	35.35
Between df		1	1	1	1	4
Between P		---	--	N.S.	N.S.	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 23  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By publication year (grouped) - unadjusted

1984-89

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
*1	HIRAYA 3	f	s	e	f	2	0	376	69645	118	21895	1.00	( 0.82- 1.23)
*2	GARLAN 2	f	s	c	f	8	0	2	97	2	203	2.09	( 0.30- 14.64)
3	LEE 1	m	s	m	n	2	0	15	40	26	93	1.34	( 0.64- 2.80)
3	LEE 3	f	s	m	n	2	0	55	229	22	89	0.97	( 0.56- 1.69)
Subtotal 3													
4	MARTIN 1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS 1	m	s	c	b	2	0	21	286	48	959	1.47	( 0.89- 2.41)
*6	BUTLER 3	f	s	c	f	8	0	4	2487	60	43053	1.15	( 0.42- 3.17)
*8	HOLE 3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE 2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8													
9	JACKSO 3	m	h	c	b	2	0	-	-	-	-	1.10	( 0.40- 3.00)
9	JACKSO 1	f	h	c	b	2	0	-	-	-	-	4.00	( 1.35- 13.10)
Subtotal 9													
*10	SANDLE 1	m	h	c	f	2	0	122	1248	248	2914	1.15	( 0.93- 1.41)
*10	SANDLE 3	f	h	c	f	2	0	551	9551	437	5322	0.70	( 0.62- 0.79)
Subtotal 10													
Partial Totals								1146	83583	961	74528	0.80	( 0.72- 0.88)
*prospective study													

1990-97

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
*11	HUMBLE 1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON 3	m	h	c	b	2	0	22	34	161	259	1.04	( 0.59- 1.84)
12	DOBSON 1	f	h	c	b	2	0	43	99	117	433	1.61	( 1.06- 2.43)
Subtotal 12													
13	LAVECC 5	m	s	c	n	8	0	7	17	55	140	1.05	( 0.41- 2.67)
13	LAVECC 3	f	s	c	n	8	0	17	20	11	17	1.31	( 0.48- 3.56)
Subtotal 13													
14	LAYARD 1	m	s	e	f	2	0	97	215	378	783	0.93	( 0.71- 1.22)
14	LAYARD 9	f	s	e	f	2	0	455	961	459	969	1.00	( 0.85- 1.17)
Subtotal 14													
*15	LEVOIS 2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91- 1.06)
*15	LEVOIS 7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99- 1.09)
Subtotal 15													
17	MUSCAT 1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT 2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17													
18	TUNSTA 1	c	t	c	n	2	0	329	1216	99	483	1.32	( 1.03- 1.69)
*19	STEENL 1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07- 1.40)
*19	STEENL 2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96- 1.27)
Subtotal 19													
20	JANGHO 1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH 11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
Partial Totals								1081	2714	1483	3490		
*prospective study													

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 23  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By publication year (grouped) - unadjusted

1998-04

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
22 CIRUZZ	5	m	s	c	n	2	0	15	22	141	206	1.00	( 0.50- 1.99)
22 CIRUZZ	6	f	s	c	n	2	0	29	25	151	193	1.48	( 0.83- 2.64)
Subtotal 22													
23 MCELDU	3	m	t	c	b	2	0	53	172	145	373	0.79	( 0.55- 1.14)
23 MCELDU	1	f	t	c	b	2	0	31	147	54	479	1.87	( 1.16- 3.02)
Subtotal 23													
25 HE1	1	f	s	e	n	2	0	76	95	39	113	2.32	( 1.44- 3.72)
26 IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26 IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26													
27 ROENL	3	m	s	c	n	8	0	27	51	141	285	1.07	( 0.64- 1.78)
27 ROENL	15	f	s	c	n	8	0	21	24	59	144	2.14	( 1.10- 4.13)
Subtotal 27													
28 PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
*29 ENSTRO	7	m	s	c	f	8	1	-	-	-	-	0.94	( 0.83- 1.07)
*29 ENSTRO	23	f	s	c	f	8	1	-	-	-	-	1.01	( 0.93- 1.09)
Subtotal 29													
30 CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31 NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
Partial Totals								252	536	730	1793		

\*prospective study

2005-07

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
33 MCGHEE	5	m	h	p	f	2	0	74	71	285	347	1.27	( 0.88- 1.82)
33 MCGHEE	6	f	h	p	f	2	0	113	150	112	195	1.31	( 0.94- 1.84)
Subtotal 33													
*34 QURESH	2	f	s	m	b	2	0	140	1823	79	1209	1.18	( 0.90- 1.53)
36 STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40- 1.23)
36 STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48- 1.82)
Subtotal 36													
37 TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*38 WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84- 1.67)
*40 HILL1	1	m	h	c	f	2	2	-	-	-	-	1.00	( 0.85- 1.18)
*40 HILL1	3	f	h	c	f	2	2	-	-	-	-	0.98	( 0.83- 1.15)
Subtotal 40													
*41 HILL2	1	m	h	c	f	2	2	-	-	-	-	1.07	( 0.86- 1.32)
*41 HILL2	3	f	h	c	f	2	2	-	-	-	-	1.26	( 0.98- 1.63)
Subtotal 41													
Partial Totals								356	2206	731	2844		

\*prospective study

2008 onwards

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
42 HE2	1	f	t	t	n	4	0	200	277	231	501	1.57	( 1.23- 1.99)
43 SULO	1	m	s	c	n	4	1	-	-	-	-	1.76	( 0.98- 3.18)
43 SULO	3	f	s	c	n	4	1	-	-	-	-	1.05	( 0.48- 2.30)
Subtotal 43													
44 VOZORI	1	c	t	c	n	4	0	293	11991	1480	34776	0.57	( 0.51- 0.65)
45 DING	1	f	h	e	n	2	0	95	65	219	254	1.70	( 1.18- 2.44)
*46 GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48 JEFFER	1	c	s	c	b	2	2	-	-	-	-	2.17	( 0.97- 4.84)
*49 HE3	1	m	t	e	f	2	0	14	271	5	168	1.74	( 0.64- 4.73)
*49 HE3	3	f	t	e	f	2	0	18	340	4	131	1.73	( 0.60- 5.03)
Subtotal 49													
Partial Totals								620	12944	1939	35830		

\*prospective study

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 23  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By publication year (grouped) - unadjusted

	1984-89	1990-97	1998-04	2005-07	2008 onwa	Total
Relative risks						
N	13	16	14	11	9	63
NS	9	10	9	7	7	42
Wt	516.50	3109.03	1759.48	1257.67	371.05	7013.73
Het Chi	50.51	24.34	40.95	27.52	95.10	298.01
Het df	12	15	13	10	8	62
Het P	***	(*)	***	**	***	***
Fixed RR	0.91	1.05	1.09	1.22	0.83	1.07
RRl	0.83	1.02	1.04	1.15	0.75	1.04
RRu	0.99	1.09	1.15	1.29	0.92	1.09
P	-	++	+++	+++	---	+++
Random RR	1.26	1.10	1.18	1.14	1.44	1.17
RRl	0.98	1.03	1.05	1.01	0.89	1.09
RRu	1.61	1.18	1.33	1.28	2.34	1.26
P	(+)	++	++	+	N.S.	+++
Asymm P	**	*	(*)	(*)	*	*
Between Chi		9.80	13.85	31.62	1.55	59.60
Between df		1	1	1	1	4
Between P		++	+++	+++	N.S.	***

---

Within each study, results are included (in the following order of preference) for:  
 1) EXP Exposure = spouse (s), household (h), total (t)  
 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)  
 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD  
 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)



Table 24

ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
By number of heart disease cases (grouped) - adjusted

1-99

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*2	GARLAN	4	f	s	c	f	8	1	-	-	-	-	2.25	( 0.32- 15.74)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)
*6	BUTLER	4	f	s	c	f	8	1	-	-	-	-	1.40	( 0.51- 3.84)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69- 6.33)
Subtotal 49													2.17	( 1.00- 4.70)
Partial Totals									0	0	0	0		

\*prospective study

100-199

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
Subtotal 3													1.03	( 0.65- 1.62)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8													1.70	( 1.10- 2.63)
13	LAVECC	6	m	s	c	n	8	8	-	-	-	-	1.09	( 0.39- 3.01)
13	LAVECC	4	f	s	c	n	8	8	-	-	-	-	1.36	( 0.46- 4.05)
Subtotal 13													1.21	( 0.57- 2.55)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17													1.36	( 0.80- 2.30)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94- 2.90)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81- 3.47)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25- 5.64)
Subtotal 43													1.58	( 0.82- 3.05)
Partial Totals									48	52	66	106		

\*prospective study

200-999

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
Subtotal 9													1.80	( 0.84- 3.87)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
Subtotal 12													1.72	( 1.15- 2.59)
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18	( 0.55- 2.52)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73	( 0.89- 3.36)
Subtotal 22													1.47	( 0.89- 2.42)
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82	( 0.55- 1.22)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15	( 1.18- 3.92)
Subtotal 23													1.10	( 0.79- 1.53)
27	ROENL	4	m	s	c	n	8	8	-	-	-	-	0.98	( 0.57- 1.69)
27	ROENL	16	f	s	c	n	8	8	-	-	-	-	2.59	( 1.27- 5.29)
Subtotal 27													1.40	( 0.91- 2.16)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95- 2.04)
Subtotal 33													1.35	( 1.02- 1.77)
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81- 1.38)
36	STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40- 1.23)
36	STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48- 1.82)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 24  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By number of heart disease cases (grouped) - adjusted

200-999

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
Subtotal	36											0.79	( 0.52- 1.22)
*38 WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84- 1.67)
42 HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31- 2.18)
45 DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01- 2.27)
*46 GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
Partial Totals								92	262	392	1393		

\*prospective study

1000+

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
*10 SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
*10 SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
Subtotal 10												1.22	( 1.09- 1.37)
14 LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
14 LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
Subtotal 14												0.98	( 0.86- 1.13)
*15 LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91- 1.06)
*15 LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99- 1.09)
Subtotal 15												1.02	( 0.98- 1.07)
*19 STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07- 1.40)
*19 STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96- 1.27)
Subtotal 19												1.16	( 1.05- 1.28)
26 IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26 IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26												1.17	( 1.09- 1.26)
*29 ENSTRO	15	m	s	c	f	8	8	-	-	-	-	0.92	( 0.80- 1.05)
*29 ENSTRO	31	f	s	c	f	8	8	-	-	-	-	0.97	( 0.89- 1.06)
Subtotal 29												0.96	( 0.89- 1.03)
37 TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*40 HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*40 HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83- 1.17)
Subtotal 40												1.01	( 0.90- 1.14)
*41 HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
*41 HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98- 1.66)
Subtotal 41												1.21	( 1.03- 1.42)
44 VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80- 1.20)
Partial Totals								0	0	0	0		

\*prospective study

1-99      100-199      200-999      1000+      Total

Relative risks

N	9	12	24	18	63
NS	8	7	17	10	42
Wt	59.76	90.25	576.41	5855.79	6582.20
Het Chi	2.63	3.72	38.68	76.51	158.98
Het df	8	11	23	17	62
Het P	N.S.	N.S.	*	***	***
Fixed RR	1.87	1.41	1.30	1.09	1.11
RRl	1.45	1.14	1.20	1.06	1.09
RRu	2.41	1.73	1.41	1.12	1.14
P	+++	++	+++	+++	+++
Random RR	1.87	1.41	1.31	1.09	1.19
RRl	1.45	1.14	1.17	1.03	1.13
RRu	2.41	1.73	1.48	1.16	1.26
P	+++	++	+++	++	+++
Asymm P	N.S.	N.S.	N.S.	N.S.	***
Between Chi		2.94	7.24	17.33	37.43
Between df		1	1	1	3
Between P		(-)	--	---	***

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 25  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By study type - adjusted

case-control

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
3 LEE 2	m	s	m	n	2	2	-	-	-	-	1.24 ( 0.58- 2.67)		
3 LEE 4	f	s	m	n	2	2	-	-	-	-	0.93 ( 0.53- 1.64)		
Subtotal 3											1.03 ( 0.65- 1.62)		
9 JACKSO 4	m	h	c	b	2	2	-	-	-	-	1.06 ( 0.39- 2.91)		
9 JACKSO 2	f	h	c	b	2	2	-	-	-	-	3.74 ( 1.15- 12.19)		
Subtotal 9											1.80 ( 0.84- 3.87)		
12 DOBSON 4	m	h	c	b	2	2	-	-	-	-	0.97 ( 0.50- 1.86)		
12 DOBSON 2	f	h	c	b	2	2	-	-	-	-	2.46 ( 1.47- 4.13)		
Subtotal 12											1.72 ( 1.15- 2.59)		
13 LAVECC 6	m	s	c	n	8	8	-	-	-	-	1.09 ( 0.39- 3.01)		
13 LAVECC 4	f	s	c	n	8	8	-	-	-	-	1.36 ( 0.46- 4.05)		
Subtotal 13											1.21 ( 0.57- 2.55)		
14 LAYARD 2	m	s	e	f	2	2	-	-	-	-	0.97 ( 0.73- 1.28)		
14 LAYARD 10	f	s	e	f	2	2	-	-	-	-	0.99 ( 0.84- 1.16)		
Subtotal 14											0.98 ( 0.86- 1.13)		
17 MUSCAT 1	m	s	e	n	2	0	20	25	48	83	1.38 ( 0.70- 2.75)		
17 MUSCAT 2	f	s	e	n	2	0	28	27	18	23	1.33 ( 0.59- 2.99)		
Subtotal 17											1.36 ( 0.80- 2.30)		
20 JANGHO 1	f	s	e	n	2	0	63	100	137	300	1.38 ( 0.95- 2.01)		
22 CIRUZZ 7	m	s	c	n	2	9	-	-	-	-	1.18 ( 0.55- 2.52)		
22 CIRUZZ 8	f	s	c	n	2	9	-	-	-	-	1.73 ( 0.89- 3.36)		
Subtotal 22											1.47 ( 0.89- 2.42)		
23 MCELDU 4	m	t	c	b	2	4	-	-	-	-	0.82 ( 0.55- 1.22)		
23 MCELDU 2	f	t	c	b	2	4	-	-	-	-	2.15 ( 1.18- 3.92)		
Subtotal 23											1.10 ( 0.79- 1.53)		
25 HE1 2	f	s	e	n	2	6	-	-	-	-	1.60 ( 0.94- 2.90)		
27 ROENL 4	m	s	c	n	8	8	-	-	-	-	0.98 ( 0.57- 1.69)		
27 ROENL 16	f	s	c	n	8	8	-	-	-	-	2.59 ( 1.27- 5.29)		
Subtotal 27											1.40 ( 0.91- 2.16)		
28 PITSAV 9	c	h	c	n	a	6	-	-	-	-	1.33 ( 0.89- 1.99)		
31 NISHTA 3	c	s	e	n	1	1	-	-	-	-	2.38 ( 1.04- 5.42)		
33 MCGHEE 1	m	h	p	f	2	2	-	-	-	-	1.30 ( 0.88- 1.93)		
33 MCGHEE 2	f	h	p	f	2	2	-	-	-	-	1.39 ( 0.95- 2.04)		
Subtotal 33											1.35 ( 1.02- 1.77)		
36 STRANG 25	m	h	c	n	2	0	18	58	177	403	0.71 ( 0.40- 1.23)		
36 STRANG 17	f	h	c	n	2	0	11	104	78	690	0.94 ( 0.48- 1.82)		
Subtotal 36											0.79 ( 0.52- 1.22)		
37 TEO 1	c	t	c	n	2	6	-	-	-	-	1.37 ( 1.27- 1.48)		
43 SULO 2	m	s	c	n	4	14	-	-	-	-	1.68 ( 0.81- 3.47)		
43 SULO 4	f	s	c	n	4	14	-	-	-	-	1.19 ( 0.25- 5.64)		
Subtotal 43											1.58 ( 0.82- 3.05)		
45 DING 2	f	h	e	n	2	11	-	-	-	-	1.52 ( 1.01- 2.27)		
Partial Totals							140	314	458	1499			

\*prospective study

prospective

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
*1 HIRAYA 6	f	s	e	f	2	1	-	-	-	-	1.16 ( 0.94- 1.43)		
*2 GARLAN 4	f	s	c	f	8	1	-	-	-	-	2.25 ( 0.32- 15.74)		
*5 SVENDS 2	m	s	c	b	2	6	-	-	-	-	1.61 ( 0.96- 2.71)		
*6 BUTLER 4	f	s	c	f	8	1	-	-	-	-	1.40 ( 0.51- 3.84)		
*8 HOLE 3	m	h	e	f	2	5	-	-	-	-	1.73 ( 1.01- 2.96)		
*8 HOLE 2	f	h	e	f	2	5	-	-	-	-	1.65 ( 0.79- 3.46)		
Subtotal 8											1.70 ( 1.10- 2.63)		
*10 SANDLE 2	m	h	c	f	2	4	-	-	-	-	1.31 ( 1.05- 1.64)		
*10 SANDLE 4	f	h	c	f	2	4	-	-	-	-	1.19 ( 1.04- 1.36)		
Subtotal 10											1.22 ( 1.09- 1.37)		
*11 HUMBLE 1	f	s	c	f	8	4	-	-	-	-	1.59 ( 0.99- 2.57)		
*15 LEVOIS 2	m	s	c	f	8	2	-	-	-	-	0.98 ( 0.91- 1.06)		
*15 LEVOIS 7	f	s	c	f	8	2	-	-	-	-	1.04 ( 0.99- 1.09)		
Subtotal 15											1.02 ( 0.98- 1.07)		
*19 STENL 1	m	s	c	f	8	12	-	-	-	-	1.22 ( 1.07- 1.40)		
*19 STEENL 2	f	s	c	f	8	13	-	-	-	-	1.10 ( 0.96- 1.27)		
Subtotal 19											1.16 ( 1.05- 1.28)		

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 25  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By study type - adjusted

prospective

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
*29	ENSTRO	15	m	s	c	f	8	8	-	-	-	-	0.92	( 0.80- 1.05)
*29	ENSTRO	31	f	s	c	f	8	8	-	-	-	-	0.97	( 0.89- 1.06)
Subtotal 29														
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81- 1.38)
*38	WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84- 1.67)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83- 1.17)
Subtotal 40														
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98- 1.66)
Subtotal 41														
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69- 6.33)
Subtotal 49														
Partial Totals									0	0	0	0	2.17	( 1.00- 4.70)

\*prospective study

cross-sectional

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26														
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31- 2.18)
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80- 1.20)
Partial Totals									0	0	0	0		

\*prospective study

case-cont    prospecti    cross-sec    Total

Relative risks

N	30	26	7	63
NS	18	18	6	42
Wt	1165.98	4403.96	1012.26	6582.20
Het Chi	50.80	49.90	15.75	158.98
Het df	29	25	6	62
Het P	**	**	*	***
Fixed RR	1.29	1.06	1.20	1.11
RR1	1.21	1.02	1.13	1.09
RRu	1.36	1.09	1.28	1.14
P	+++	+++	+++	+++
Random RR	1.28	1.11	1.25	1.19
RR1	1.14	1.05	1.10	1.13
RRu	1.43	1.17	1.41	1.26
P	+++	+++	+++	+++
Asymm P	N.S.	***	N.S.	***
Between Chi		35.92	2.52	42.53
Between df		1	1	2
Between P		---	N.S.	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 26

ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
By total number of confounders considered in the study (grouped) - adjusted

		0-2							Number Exposed				Non-exposed		RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case	Cont				
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16 ( 0.94- 1.43)			
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24 ( 0.58- 2.67)			
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93 ( 0.53- 1.64)			
Subtotal 3													1.03 ( 0.65- 1.62)			
*6	BUTLER	4	f	s	c	f	8	1	-	-	-	-	1.40 ( 0.51- 3.84)			
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97 ( 0.73- 1.28)			
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99 ( 0.84- 1.16)			
Subtotal 14													0.98 ( 0.86- 1.13)			
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98 ( 0.91- 1.06)			
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04 ( 0.99- 1.09)			
Subtotal 15													1.02 ( 0.98- 1.07)			
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38 ( 0.95- 2.01)			
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38 ( 1.04- 5.42)			
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30 ( 0.88- 1.93)			
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39 ( 0.95- 2.04)			
Subtotal 33													1.35 ( 1.02- 1.77)			
Partial Totals									63	100	137	300				
*prospective study																
3-4																
		3-4							Number Exposed				Non-exposed		RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case	Cont				
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31 ( 1.05- 1.64)			
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19 ( 1.04- 1.36)			
Subtotal 10													1.22 ( 1.09- 1.37)			
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59 ( 0.99- 2.57)			
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97 ( 0.50- 1.86)			
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46 ( 1.47- 4.13)			
Subtotal 12													1.72 ( 1.15- 2.59)			
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38 ( 0.70- 2.75)			
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33 ( 0.59- 2.99)			
Subtotal 17													1.36 ( 0.80- 2.30)			
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34 ( 1.07- 1.67)			
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82 ( 0.55- 1.22)			
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15 ( 1.18- 3.92)			
Subtotal 23													1.10 ( 0.79- 1.53)			
Partial Totals									48	52	66	106				
*prospective study																
5+																
		5+							Number Exposed				Non-exposed		RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case	Cont				
*2	GARLAN	4	f	s	c	f	8	1	-	-	-	-	2.25 ( 0.32- 15.74)			
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60 ( 1.20- 5.70)			
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61 ( 0.96- 2.71)			
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73 ( 1.01- 2.96)			
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65 ( 0.79- 3.46)			
Subtotal 8													1.70 ( 1.10- 2.63)			
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06 ( 0.39- 2.91)			
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74 ( 1.15- 12.19)			
Subtotal 9													1.80 ( 0.84- 3.87)			
13	LAVECC	6	m	s	c	n	8	8	-	-	-	-	1.09 ( 0.39- 3.01)			
13	LAVECC	4	f	s	c	n	8	8	-	-	-	-	1.36 ( 0.46- 4.05)			
Subtotal 13													1.21 ( 0.57- 2.55)			
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22 ( 1.07- 1.40)			
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10 ( 0.96- 1.27)			
Subtotal 19													1.16 ( 1.05- 1.28)			
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53 ( 0.81- 2.90)			
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18 ( 0.55- 2.52)			
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73 ( 0.89- 3.36)			
Subtotal 22													1.47 ( 0.89- 2.42)			
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60 ( 0.94- 2.90)			
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13 ( 1.00- 1.27)			
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20 ( 1.09- 1.30)			
Subtotal 26													1.17 ( 1.09- 1.26)			

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 26

ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
By total number of confounders considered in the study (grouped) - adjusted

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
27	ROSENL	4	m	s	c	n	8	8	-	-	-	-	0.98	( 0.57- 1.69)
27	ROSENL	16	f	s	c	n	8	8	-	-	-	-	2.59	( 1.27- 5.29)
Subtotal 27														
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
*29	ENSTRO	15	m	s	c	f	8	8	-	-	-	-	0.92	( 0.80- 1.05)
*29	ENSTRO	31	f	s	c	f	8	8	-	-	-	-	0.97	( 0.89- 1.06)
Subtotal 29														
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81- 1.38)
36	STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40- 1.23)
36	STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48- 1.82)
Subtotal 36														
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*38	WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84- 1.67)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83- 1.17)
Subtotal 40														
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98- 1.66)
Subtotal 41														
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31- 2.18)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81- 3.47)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25- 5.64)
Subtotal 43														
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80- 1.20)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01- 2.27)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69- 6.33)
Subtotal 49														
Partial Totals									29	162	255	1093		
*prospective study														

0-2                      3-4                      5+                      Total

## Relative risks

	N	12	10	41	63
	NS	8	6	28	42
	Wt	2709.60	457.35	3415.25	6582.20
	Het Chi	14.09	16.65	99.63	158.98
	Het df	11	9	40	62
	Het P	N.S.	(*)	***	***
Fixed	RR	1.03	1.27	1.16	1.11
	RR1	1.00	1.16	1.12	1.09
	RRu	1.07	1.39	1.20	1.14
	P	(+)	+++	+++	+++
Random	RR	1.05	1.32	1.21	1.19
	RR1	0.99	1.13	1.12	1.13
	RRu	1.12	1.55	1.30	1.26
	P	N.S.	+++	+++	+++
Asymm	P	*	N.S.	*	***
Between	Chi		16.27	20.37	28.61
Between	df		1	1	2
Between	P		+++	+++	***

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 27

ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By any study results available on dose-response or not - adjusted

none

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*2	GARLAN	4	f	s	c	f	8	1	-	-	-	-	2.25	( 0.32- 15.74)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*6	BUTLER	4	f	s	c	f	8	1	-	-	-	-	1.40	( 0.51- 3.84)
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
Subtotal 10														
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
Subtotal 12														
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82	( 0.55- 1.22)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15	( 1.18- 3.92)
Subtotal 23														
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.10	( 0.79- 1.53)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.05	( 0.81- 1.38)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
Subtotal 40														
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	0.98	( 0.83- 1.17)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.01	( 0.90- 1.14)
Subtotal 41														
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.18	( 0.96- 1.44)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.27	( 0.98- 1.66)
Subtotal 43														
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.21	( 1.03- 1.42)
Partial Totals														
									0	0	0	0	1.00	( 0.80- 1.20)
*prospective study														

results given

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
Subtotal 3														
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.03	( 0.65- 1.62)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.61	( 0.96- 2.71)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
Subtotal 8														
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.65	( 0.79- 3.46)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	1.70	( 1.10- 2.63)
Subtotal 9														
13	LAVECC	6	m	s	c	n	8	8	-	-	-	-	1.06	( 0.39- 2.91)
13	LAVECC	4	f	s	c	n	8	8	-	-	-	-	3.74	( 1.15- 12.19)
Subtotal 13														
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	1.80	( 0.84- 3.87)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	1.09	( 0.39- 3.01)
Subtotal 14														
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	1.36	( 0.46- 4.05)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.21	( 0.57- 2.55)
Subtotal 15														
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	0.97	( 0.73- 1.28)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	0.99	( 0.84- 1.16)
Subtotal 17														
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	0.98	( 0.86- 1.13)
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	0.98	( 0.91- 1.06)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.04	( 0.99- 1.09)
Subtotal 19														
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.02	( 0.98- 1.07)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.38	( 0.70- 2.75)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.33	( 0.59- 2.99)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.36	( 0.80- 2.30)
Subtotal 22														
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.34	( 1.07- 1.67)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.22	( 1.07- 1.40)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.10	( 0.96- 1.27)
Subtotal 26														
1.16 ( 1.05- 1.28)														
1.38 ( 0.95- 2.01)														
1.53 ( 0.81- 2.90)														
1.18 ( 0.55- 2.52)														
1.73 ( 0.89- 3.36)														
1.47 ( 0.89- 2.42)														
1.60 ( 0.94- 2.90)														
1.13 ( 1.00- 1.27)														
1.20 ( 1.09- 1.30)														

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 27

ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
By any study results available on dose-response or not - adjusted

results given

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
Subtotal 26														
27	ROSENL	4	m	s	c	n	8	8	-	-	-	-	0.98	( 0.57- 1.69)
27	ROSENL	16	f	s	c	n	8	8	-	-	-	-	2.59	( 1.27- 5.29)
Subtotal 27														
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
*29	ENSTRO	15	m	s	c	f	8	8	-	-	-	-	0.92	( 0.80- 1.05)
*29	ENSTRO	31	f	s	c	f	8	8	-	-	-	-	0.97	( 0.89- 1.06)
Subtotal 29														
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95- 2.04)
Subtotal 33														
36	STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40- 1.23)
36	STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48- 1.82)
Subtotal 36														
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*38	WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84- 1.67)
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31- 2.18)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01- 2.27)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69- 6.33)
Subtotal 49														
Partial Totals									140	314	458	1499	2.17	( 1.00- 4.70)
*prospective study														

none no assoc sig assoc results g Total

Relative risks

N	18	45	63
NS	12	30	42
Wt	949.59	5632.62	6582.20
Het Chi	32.30	125.91	158.98
Het df	17	44	62
Het P	*	***	***
Fixed RR	1.14	1.11	1.11
RRl	1.07	1.08	1.09
RRu	1.22	1.14	1.14
P	+++	+++	+++
Random RR	1.19	1.20	1.19
RRl	1.07	1.12	1.13
RRu	1.32	1.28	1.26
P	++	+++	+++
Asymm P	*	**	***
Between Chi		0.77	0.77
Between df		1	1
Between P	N.S.	N.S.	N.S.

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)



Table 28  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By spouse the index or not - adjusted

								Number Exposed		Non-exposed		RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16 ( 0.94- 1.43)
*2	GARLAN	4	f	s	c	f	8	1	-	-	-	-	2.25 ( 0.32- 15.74)
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24 ( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93 ( 0.53- 1.64)
Subtotal 3													1.03 ( 0.65- 1.62)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60 ( 1.20- 5.70)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61 ( 0.96- 2.71)
*6	BUTLER	4	f	s	c	f	8	1	-	-	-	-	1.40 ( 0.51- 3.84)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59 ( 0.99- 2.57)
13	LAVECC	6	m	s	c	n	8	8	-	-	-	-	1.09 ( 0.39- 3.01)
13	LAVECC	4	f	s	c	n	8	8	-	-	-	-	1.36 ( 0.46- 4.05)
Subtotal 13													1.21 ( 0.57- 2.55)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97 ( 0.73- 1.28)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99 ( 0.84- 1.16)
Subtotal 14													0.98 ( 0.86- 1.13)
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98 ( 0.91- 1.06)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04 ( 0.99- 1.09)
Subtotal 15													1.02 ( 0.98- 1.07)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38 ( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33 ( 0.59- 2.99)
Subtotal 17													1.36 ( 0.80- 2.30)
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22 ( 1.07- 1.40)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10 ( 0.96- 1.27)
Subtotal 19													1.16 ( 1.05- 1.28)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38 ( 0.95- 2.01)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18 ( 0.55- 2.52)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73 ( 0.89- 3.36)
Subtotal 22													1.47 ( 0.89- 2.42)
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60 ( 0.94- 2.90)
27	ROENL	4	m	s	c	n	8	8	-	-	-	-	0.98 ( 0.57- 1.69)
27	ROENL	16	f	s	c	n	8	8	-	-	-	-	2.59 ( 1.27- 5.29)
Subtotal 27													1.40 ( 0.91- 2.16)
*29	ENSTRO	15	m	s	c	f	8	8	-	-	-	-	0.92 ( 0.80- 1.05)
*29	ENSTRO	31	f	s	c	f	8	8	-	-	-	-	0.97 ( 0.89- 1.06)
Subtotal 29													0.96 ( 0.89- 1.03)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38 ( 1.04- 5.42)
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05 ( 0.81- 1.38)
*38	WEN	18	f	s	c	f	2	9	-	-	-	-	1.19 ( 0.84- 1.67)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68 ( 0.81- 3.47)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19 ( 0.25- 5.64)
Subtotal 43													1.58 ( 0.82- 3.05)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99 ( 0.92- 4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41 ( 1.04- 5.59)
Partial Totals									111	152	203	406	
*prospective study													

								Number Exposed		Non-exposed		RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case		
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73 ( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65 ( 0.79- 3.46)
Subtotal 8													1.70 ( 1.10- 2.63)
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06 ( 0.39- 2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74 ( 1.15- 12.19)
Subtotal 9													1.80 ( 0.84- 3.87)
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31 ( 1.05- 1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19 ( 1.04- 1.36)
Subtotal 10													1.22 ( 1.09- 1.37)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97 ( 0.50- 1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46 ( 1.47- 4.13)
Subtotal 12													1.72 ( 1.15- 2.59)
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34 ( 1.07- 1.67)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53 ( 0.81- 2.90)
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82 ( 0.55- 1.22)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15 ( 1.18- 3.92)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 28  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By spouse the index or not - adjusted

No								Number Exposed		Non-exposed		RR	95.00%CI
StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case	Cont		
Subtotal 23												1.10 ( 0.79- 1.53)	
26	IRIBAR 4	m	h	c	n	2	11	-	-	-	-	1.13 ( 1.00- 1.27)	
26	IRIBAR 19	f	h	c	n	2	11	-	-	-	-	1.20 ( 1.09- 1.30)	
Subtotal 26												1.17 ( 1.09- 1.26)	
28	PITSAV 9	c	h	c	n	a	6	-	-	-	-	1.33 ( 0.89- 1.99)	
30	CHEN 10	c	h	c	n	2	10	-	-	-	-	1.20 ( 0.70- 2.20)	
33	MCGHEE 1	m	h	p	f	2	2	-	-	-	-	1.30 ( 0.88- 1.93)	
33	MCGHEE 2	f	h	p	f	2	2	-	-	-	-	1.39 ( 0.95- 2.04)	
Subtotal 33												1.35 ( 1.02- 1.77)	
36	STRANG 25	m	h	c	n	2	0	18	58	177	403	0.71 ( 0.40- 1.23)	
36	STRANG 17	f	h	c	n	2	0	11	104	78	690	0.94 ( 0.48- 1.82)	
Subtotal 36												0.79 ( 0.52- 1.22)	
37	TEO 1	c	t	c	n	2	6	-	-	-	-	1.37 ( 1.27- 1.48)	
*40	HILL1 2	m	h	c	f	2	9	-	-	-	-	1.04 ( 0.88- 1.23)	
*40	HILL1 4	f	h	c	f	2	9	-	-	-	-	0.98 ( 0.83- 1.17)	
Subtotal 40												1.01 ( 0.90- 1.14)	
*41	HILL2 2	m	h	c	f	2	9	-	-	-	-	1.18 ( 0.96- 1.44)	
*41	HILL2 4	f	h	c	f	2	9	-	-	-	-	1.27 ( 0.98- 1.66)	
Subtotal 41												1.21 ( 1.03- 1.42)	
42	HE2 8	f	t	t	n	4	12	-	-	-	-	1.69 ( 1.31- 2.18)	
44	VOZORI 2	c	t	c	n	4	7	-	-	-	-	1.00 ( 0.80- 1.20)	
45	DING 2	f	h	e	n	2	11	-	-	-	-	1.52 ( 1.01- 2.27)	
*49	HE3 2	m	t	e	f	2	9	-	-	-	-	2.24 ( 0.76- 6.59)	
*49	HE3 4	f	t	e	f	2	9	-	-	-	-	2.10 ( 0.69- 6.33)	
Subtotal 49												2.17 ( 1.00- 4.70)	
Partial Totals								29	162	255	1093		

\*prospective study

Yes                      No                      Total

Relative risks

	N	33	30	63
	NS	23	19	42
	Wt	3992.71	2589.49	6582.20
	Het Chi	54.97	60.77	158.98
	Het df	32	29	62
	Het P	**	***	***
Fixed	RR	1.04	1.23	1.11
	RRl	1.01	1.19	1.09
	RRu	1.08	1.28	1.14
	P	++	+++	+++
Random	RR	1.11	1.24	1.19
	RRl	1.04	1.15	1.13
	RRu	1.18	1.33	1.26
	P	++	+++	+++
Asymm	P	***	N.S.	***
Between	Chi		43.24	43.24
Between	df		1	1
Between	P		+++	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 29  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By heart disease type 1 - adjusted

Fatal

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
*2	GARLAN	4	f	s	c	f	8	1	-	-	-	-	2.25	( 0.32- 15.74)
*6	BUTLER	4	f	s	c	f	8	1	-	-	-	-	1.40	( 0.51- 3.84)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8														
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
Subtotal 10														
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
Subtotal 14														
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91- 1.06)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99- 1.09)
Subtotal 15														
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07- 1.40)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96- 1.27)
Subtotal 19														
*29	ENSTRO	15	m	s	c	f	8	8	-	-	-	-	0.92	( 0.80- 1.05)
*29	ENSTRO	31	f	s	c	f	8	8	-	-	-	-	0.97	( 0.89- 1.06)
Subtotal 29														
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95- 2.04)
Subtotal 33														
*38	WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84- 1.67)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83- 1.17)
Subtotal 40														
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98- 1.66)
Subtotal 41														
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69- 6.33)
Subtotal 49														
Partial Totals									0	0	0	0	2.17	( 1.00- 4.70)

\*prospective study

Nonfatal

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
Subtotal 3														
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
13	LAVECC	6	m	s	c	n	8	8	-	-	-	-	1.09	( 0.39- 3.01)
13	LAVECC	4	f	s	c	n	8	8	-	-	-	-	1.36	( 0.46- 4.05)
Subtotal 13														
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17														
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18	( 0.55- 2.52)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73	( 0.89- 3.36)
Subtotal 22														
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94- 2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26														
27	ROENL	4	m	s	c	n	8	8	-	-	-	-	0.98	( 0.57- 1.69)
27	ROENL	16	f	s	c	n	8	8	-	-	-	-	2.59	( 1.27- 5.29)
Subtotal 27														
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.40	( 0.91- 2.16)
Subtotal 28														

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 29

ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
By heart disease type 1 - adjusted

## Nonfatal

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
30 CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20 ( 0.70- 2.20)	
31 NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38 ( 1.04- 5.42)	
36 STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71 ( 0.40- 1.23)	
36 STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94 ( 0.48- 1.82)	
Subtotal 36												0.79 ( 0.52- 1.22)	
37 TEO	1	c	t	c	n	2	6	-	-	-	-	1.37 ( 1.27- 1.48)	
42 HE2	8	f	t	t	n	4	12	-	-	-	-	1.69 ( 1.31- 2.18)	
43 SULO	2	m	s	c	n	4	14	-	-	-	-	1.68 ( 0.81- 3.47)	
43 SULO	4	f	s	c	n	4	14	-	-	-	-	1.19 ( 0.25- 5.64)	
Subtotal 43												1.58 ( 0.82- 3.05)	
44 VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00 ( 0.80- 1.20)	
45 DING	2	f	h	e	n	2	11	-	-	-	-	1.52 ( 1.01- 2.27)	
Partial Totals								140	314	458	1499		

\*prospective study

## Both

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
*5 SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61 ( 0.96- 2.71)	
9 JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06 ( 0.39- 2.91)	
9 JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74 ( 1.15- 12.19)	
Subtotal 9												1.80 ( 0.84- 3.87)	
12 DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97 ( 0.50- 1.86)	
12 DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46 ( 1.47- 4.13)	
Subtotal 12												1.72 ( 1.15- 2.59)	
*21 KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53 ( 0.81- 2.90)	
23 MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82 ( 0.55- 1.22)	
23 MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15 ( 1.18- 3.92)	
Subtotal 23												1.10 ( 0.79- 1.53)	
*34 QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05 ( 0.81- 1.38)	
*48 JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41 ( 1.04- 5.59)	
Partial Totals								0	0	0	0		

\*prospective study

Fatal      Nonfatal      Both      Total

## Relative risks

	N	26	27	10	63
	NS	16	19	7	42
	Wt	4568.12	1866.08	148.01	6582.20
	Het Chi	46.32	39.13	23.14	158.98
	Het df	25	26	9	62
	Het P	**	*	**	***
Fixed	RR	1.05	1.27	1.29	1.11
	RR1	1.02	1.21	1.10	1.09
	RRu	1.08	1.33	1.52	1.14
	P	+++	+++	++	+++
Random	RR	1.09	1.28	1.47	1.19
	RR1	1.04	1.18	1.10	1.13
	RRu	1.15	1.39	1.96	1.26
	P	+++	+++	++	+++
Asymm	P	***	N.S.	(*)	***
Between	Chi		47.02	6.15	50.39
Between	df		1	1	2
Between	P		+++	+	***

-----  
Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 30  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By heart disease type 2 - adjusted

IHD								Number Exposed				Non-exposed		RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case	Cont			
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16 ( 0.94- 1.43)		
*2	GARLAN	4	f	s	c	f	8	1	-	-	-	-	2.25 ( 0.32- 15.74)		
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24 ( 0.58- 2.67)		
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93 ( 0.53- 1.64)		
Subtotal 3													1.03 ( 0.65- 1.62)		
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61 ( 0.96- 2.71)		
*6	BUTLER	4	f	s	c	f	8	1	-	-	-	-	1.40 ( 0.51- 3.84)		
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97 ( 0.73- 1.28)		
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99 ( 0.84- 1.16)		
Subtotal 14													0.98 ( 0.86- 1.13)		
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34 ( 1.07- 1.67)		
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22 ( 1.07- 1.40)		
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10 ( 0.96- 1.27)		
Subtotal 19													1.16 ( 1.05- 1.28)		
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38 ( 0.95- 2.01)		
*29	ENSTRO	15	m	s	c	f	8	8	-	-	-	-	0.92 ( 0.80- 1.05)		
*29	ENSTRO	31	f	s	c	f	8	8	-	-	-	-	0.97 ( 0.89- 1.06)		
Subtotal 29													0.96 ( 0.89- 1.03)		
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20 ( 0.70- 2.20)		
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38 ( 1.04- 5.42)		
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30 ( 0.88- 1.93)		
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39 ( 0.95- 2.04)		
Subtotal 33													1.35 ( 1.02- 1.77)		
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04 ( 0.88- 1.23)		
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98 ( 0.83- 1.17)		
Subtotal 40													1.01 ( 0.90- 1.14)		
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18 ( 0.96- 1.44)		
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27 ( 0.98- 1.66)		
Subtotal 41													1.21 ( 1.03- 1.42)		
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69 ( 1.31- 2.18)		
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00 ( 0.80- 1.20)		
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52 ( 1.01- 2.27)		
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24 ( 0.76- 6.59)		
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10 ( 0.69- 6.33)		
Subtotal 49													2.17 ( 1.00- 4.70)		
Partial Totals									63	100	137	300			
*prospective study															

MI								Number Exposed				Non-exposed		RR	95.00%CI
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case	Cont			
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60 ( 1.20- 5.70)		
13	LAVECC	6	m	s	c	n	8	8	-	-	-	-	1.09 ( 0.39- 3.01)		
13	LAVECC	4	f	s	c	n	8	8	-	-	-	-	1.36 ( 0.46- 4.05)		
Subtotal 13													1.21 ( 0.57- 2.55)		
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38 ( 0.70- 2.75)		
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33 ( 0.59- 2.99)		
Subtotal 17													1.36 ( 0.80- 2.30)		
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18 ( 0.55- 2.52)		
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73 ( 0.89- 3.36)		
Subtotal 22													1.47 ( 0.89- 2.42)		
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82 ( 0.55- 1.22)		
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15 ( 1.18- 3.92)		
Subtotal 23													1.10 ( 0.79- 1.53)		
27	ROSENL	4	m	s	c	n	8	8	-	-	-	-	0.98 ( 0.57- 1.69)		
27	ROSENL	16	f	s	c	n	8	8	-	-	-	-	2.59 ( 1.27- 5.29)		
Subtotal 27													1.40 ( 0.91- 2.16)		
36	STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71 ( 0.40- 1.23)		
36	STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94 ( 0.48- 1.82)		
Subtotal 36													0.79 ( 0.52- 1.22)		
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37 ( 1.27- 1.48)		
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41 ( 1.04- 5.59)		
Partial Totals									77	214	321	1199			
*prospective study															

-----  
 Within each study, results are included (in the following order of preference) for:  
 1) EXP Exposure = spouse (s), household (h), total (t)  
 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)  
 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD  
 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 30  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 By heart disease type 2 - adjusted

other

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05-	1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04-	1.36)
Subtotal 10													1.22	( 1.09-	1.37)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99-	2.57)
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91-	1.06)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99-	1.09)
Subtotal 15													1.02	( 0.98-	1.07)
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94-	2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00-	1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09-	1.30)
Subtotal 26													1.17	( 1.09-	1.26)
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81-	1.38)
Partial Totals									0	0	0	0			

\*prospective study

mixed

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01-	2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79-	3.46)
Subtotal 8													1.70	( 1.10-	2.63)
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39-	2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15-	12.19)
Subtotal 9													1.80	( 0.84-	3.87)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50-	1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47-	4.13)
Subtotal 12													1.72	( 1.15-	2.59)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81-	2.90)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89-	1.99)
*38	WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84-	1.67)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81-	3.47)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25-	5.64)
Subtotal 43													1.58	( 0.82-	3.05)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92-	4.29)
Partial Totals									0	0	0	0			

\*prospective study

IHD                      MI                      other                      mixed                      Total

Relative risks

N	27	15	9	12	63
NS	19	9	6	8	42
Wt	2212.97	780.67	3457.32	131.24	6582.20
Het Chi	53.28	24.73	23.88	11.09	158.98
Het df	26	14	8	11	62
Het P	**	*	**	N.S.	***
Fixed RR	1.08	1.35	1.07	1.49	1.11
RR1	1.04	1.26	1.04	1.26	1.09
RRu	1.13	1.45	1.11	1.77	1.14
P	+++	+++	+++	+++	+++
Random RR	1.15	1.32	1.12	1.49	1.19
RR1	1.07	1.09	1.04	1.26	1.13
RRu	1.23	1.60	1.21	1.77	1.26
P	+++	++	++	+++	+++
Asymm P	***	N.S.	(*)	N.S.	***
Between Chi		27.75	0.10	12.51	45.99
Between df		1	1	1	3
Between P		+++	N.S.	+++	***

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); and (CVD)-(Stroke) in preference to CVD
- 4) UNX Unexposed to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 31  
ETS and Heart Disease - Meta-Analysis of Workplace Exposure, 02-AUG-13  
 Workers only, if available  
 Overall - adjusted

Overall

StN	Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Case	Cont	Case	Cont	RR	95.00%CI
3	LEE	6	m	w	e	2	1	-	-	-	-	0.66	( 0.26- 1.66)
3	LEE	8	f	w	e	2	1	-	-	-	-	0.69	( 0.26- 1.87)
Subtotal 3													
*5	SVENDS	3	m	a	c	2	2	-	-	-	-	1.40	( 0.80- 2.50)
9	JACKSO	8	m	a	c	2	2	-	-	-	-	1.80	( 0.94- 3.46)
9	JACKSO	6	f	a	c	2	2	-	-	-	-	1.55	( 0.48- 5.03)
Subtotal 9													
12	DOBSON	8	m	w	c	2	2	-	-	-	-	0.95	( 0.51- 1.78)
12	DOBSON	6	f	w	c	2	2	-	-	-	-	0.66	( 0.17- 2.62)
Subtotal 12													
17	MUSCAT	4	m	a	e	2	3	-	-	-	-	1.20	( 0.60- 2.20)
17	MUSCAT	6	f	w	e	2	3	-	-	-	-	1.00	( 0.40- 2.50)
Subtotal 17													
*19	STEENL	28	m	w	c	1	12	-	-	-	-	1.03	( 0.89- 1.19)
*19	STEENL	29	f	w	c	1	13	-	-	-	-	1.06	( 0.84- 1.34)
Subtotal 19													
*21	KAWACH	8	f	w	c	2	15	-	-	-	-	1.68	( 0.81- 3.47)
25	HEL	22	f	w	e	2	6	-	-	-	-	1.85	( 0.86- 4.00)
27	ROENL	8	m	a	e	2	8	-	-	-	-	1.14	( 0.78- 1.67)
27	ROENL	20	f	a	e	2	8	-	-	-	-	0.94	( 0.59- 1.50)
Subtotal 27													
28	PITSAV	8	c	a	c	a	6	-	-	-	-	1.97	( 1.16- 3.34)
30	CHEN	9	c	w	c	2	10	-	-	-	-	1.70	( 0.90- 3.20)
36	STRANG	26	m	a	e	2	0	134	347	39	98	0.97	( 0.64- 1.48)
36	STRANG	18	f	a	e	2	0	52	507	29	272	0.96	( 0.60- 1.55)
Subtotal 36													
*38	WEN	20	f	a	e	2	9	-	-	-	-	1.21	( 0.74- 2.01)
*46	GALLO	5	m	a	c	2	5	-	-	-	-	0.93	( 0.46- 1.90)
*46	GALLO	6	f	a	c	2	5	-	-	-	-	0.76	( 0.47- 1.24)
Subtotal 46													
Partial Totals								186	854	68	370	0.81	( 0.54- 1.21)
*prospective study													

StN	Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Ys	Ws	Qs	Ps
3	LEE	6	m	w	e	2	1	-0.42	4.47	1.10	0.3796
3	LEE	8	f	w	e	2	1	-0.37	3.95	0.81	0.4610
Subtotal 3											
*5	SVENDS	3	m	a	c	2	2	0.34	11.84	0.77	0.2470
9	JACKSO	8	m	a	c	2	2	0.59	9.05	2.32	0.0770
9	JACKSO	6	f	a	c	2	2	0.44	2.78	0.35	0.4646
Subtotal 9											
12	DOBSON	8	m	w	c	2	2	-0.05	9.83	0.17	0.8722
12	DOBSON	6	f	w	c	2	2	-0.42	2.05	0.51	0.5515
Subtotal 12											
17	MUSCAT	4	m	a	e	2	3	0.18	9.10	0.09	0.5823
17	MUSCAT	6	f	w	e	2	3	0.00	4.58	0.03	1.0000
Subtotal 17											
*19	STEENL	28	m	w	c	1	12	0.03	182.10	0.49	0.6900
*19	STEENL	29	f	w	c	1	13	0.06	70.45	0.04	0.6248
Subtotal 19											
*21	KAWACH	8	f	w	c	2	15	0.52	7.26	1.39	0.1622
25	HEL	22	f	w	e	2	6	0.62	6.50	1.85	0.1167
27	ROENL	8	m	a	e	2	8	0.13	26.51	0.07	0.4999
27	ROENL	20	f	a	e	2	8	-0.06	17.65	0.36	0.7949
Subtotal 27											
28	PITSAV	8	c	a	c	a	6	0.68	13.74	4.89	0.0120
30	CHEN	9	c	w	c	2	10	0.53	9.55	1.93	0.1011
36	STRANG	26	m	a	e	2	0	-0.03	21.65	0.27	0.8887
36	STRANG	18	f	a	e	2	0	-0.04	16.85	0.24	0.8736
Subtotal 36											
*38	WEN	20	f	a	e	2	9	0.19	15.39	0.18	0.4546
*46	GALLO	5	m	a	c	2	5	-0.07	7.64	0.18	0.8410
*46	GALLO	6	f	a	c	2	5	-0.27	16.33	2.07	0.2675

Within each study, results are included (in the following order of preference) for:  
 1) WKS Working status = all (a), workers only (w); 2) TIM Time of exposure = current (c), ever (e)  
 3) UNX Unexposed to any ETS (1), to ETS type (2); low exp to any ETS (3), to ETS type (4);  
 never exposed to ETS type (8), unexposed to hh/work ETS (a)  
 4) HD type: (CVD)-(Stroke) in preference to CVD

Table 31  
ETS and Heart Disease - Meta-Analysis of Workplace Exposure, 02-AUG-13  
 Workers only, if available  
 Overall - adjusted

Overall

StN Ref	NRR	SEX WKS TIM UNX ADJ	Ys	Ws	Qs	Ps
Subtotal	46		-0.21	23.96	2.25	

Relative risks

	N	22
	NS	14
	Wt	469.26
	Het Chi	20.12
	Het df	21
	Het P	N.S.
Fixed	RR	1.08
	RRl	0.99
	RRu	1.19
	P	(+)
Random	RR	1.08
	RRl	0.99
	RRu	1.19
	P	(+)
Asymm	P	N.S.

---

Within each study, results are included (in the following order of preference) for:  
 1) WKS Working status = all (a), workers only (w); 2) TIM Time of exposure = current (c), ever (e)  
 3) UNX Unexposed to any ETS (1), to ETS type (2); low exp to any ETS (3), to ETS type (4);  
     never exposed to ETS type (8), unexposed to hh/work ETS (a)  
 4) HD type: (CVD)-(Stroke) in preference to CVD



Table 32  
ETS and Heart Disease - Meta-Analysis of Workplace Exposure, 02-AUG-13  
 Workers only, if available  
 Overall - unadjusted

Overall

StN	Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Case	Cont	Case	Cont	RR	95.00%CI
3	LEE	5	m	w	e	2	0	13	58	17	40	0.53	( 0.23- 1.21)
3	LEE	7	f	w	e	2	0	6	45	30	113	0.50	( 0.20- 1.29)
Subtotal 3													
*5	SVENDS	3	m	a	c	2	2	-	-	-	-	1.40	( 0.80- 2.50)
9	JACKSO	7	m	a	c	2	0	-	-	-	-	1.50	( 0.80- 3.00)
9	JACKSO	5	f	a	c	2	0	-	-	-	-	2.20	( 0.70- 7.40)
Subtotal 9													
12	DOBSON	7	m	w	c	2	0	27	79	48	126	0.90	( 0.52- 1.55)
12	DOBSON	5	f	w	c	2	0	5	73	12	124	0.71	( 0.24- 2.09)
Subtotal 12													
17	MUSCAT	3	m	a	e	2	0	44	66	24	42	1.17	( 0.62- 2.19)
17	MUSCAT	5	f	w	e	2	0	20	22	15	16	0.97	( 0.38- 2.46)
Subtotal 17													
*19	STEENL	28	m	w	c	1	12	-	-	-	-	1.03	( 0.89- 1.19)
*19	STEENL	29	f	w	c	1	13	-	-	-	-	1.06	( 0.84- 1.34)
Subtotal 19													
*21	KAWACH	8	f	w	c	2	15	-	-	-	-	1.68	( 0.81- 3.47)
25	HE1	21	f	w	e	2	0	33	43	26	83	2.45	( 1.30- 4.61)
27	ROENL	7	m	a	e	2	0	126	254	68	145	1.06	( 0.74- 1.51)
27	ROENL	19	f	a	e	2	0	68	143	57	120	1.00	( 0.65- 1.54)
Subtotal 27													
28	PITSAV	8	c	a	c	a	6	-	-	-	-	1.97	( 1.16- 3.34)
30	CHEN	9	c	w	c	2	10	-	-	-	-	1.70	( 0.90- 3.20)
36	STRANG	26	m	a	e	2	0	134	347	39	98	0.97	( 0.64- 1.48)
36	STRANG	18	f	a	e	2	0	52	507	29	272	0.96	( 0.60- 1.55)
Subtotal 36													
*38	WEN	20	f	a	e	2	9	-	-	-	-	1.21	( 0.74- 2.01)
*46	GALLO	4	c	a	c	2	2	-	-	-	-	0.82	( 0.56- 1.22)
Partial Totals								528	1637	365	1179		
*prospective study													

StN	Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Ys	Ws	Qs	Ps
3	LEE	5	m	w	e	2	0	-0.64	5.62	2.87	0.1294
3	LEE	7	f	w	e	2	0	-0.69	4.33	2.53	0.1519
Subtotal 3											
*5	SVENDS	3	m	a	c	2	2	-0.66	9.95	5.40	
9	JACKSO	7	m	a	c	2	0	0.34	11.84	0.81	0.2470
9	JACKSO	5	f	a	c	2	0	0.41	8.80	0.96	0.2292
								0.79	2.76	1.41	0.1900
Subtotal 9											
12	DOBSON	7	m	w	c	2	0	0.50	11.56	2.37	
12	DOBSON	5	f	w	c	2	0	-0.11	12.74	0.43	0.6984
Subtotal 12											
17	MUSCAT	3	m	a	e	2	0	-0.35	3.28	0.58	0.5315
17	MUSCAT	5	f	w	e	2	0	-0.16	16.02	1.01	
Subtotal 17											
*19	STEENL	28	m	w	c	1	12	0.15	9.68	0.06	0.6316
*19	STEENL	29	f	w	c	1	13	-0.03	4.45	0.05	0.9482
Subtotal 19											
*21	KAWACH	8	f	w	c	2	15	0.10	14.13	0.11	
25	HE1	21	f	w	e	2	0	0.03	182.10	0.38	0.6900
27	ROENL	7	m	a	e	2	0	0.06	70.45	0.02	0.6248
27	ROENL	19	f	a	e	2	0	0.04	252.55	0.40	
Subtotal 27											
28	PITSAV	8	c	a	c	a	6	0.52	7.26	1.43	0.1622
30	CHEN	9	c	w	c	2	10	0.90	9.61	6.48	0.0055
36	STRANG	26	m	a	e	2	0	0.06	29.87	0.01	0.7588
36	STRANG	18	f	a	e	2	0	0.00	21.02	0.12	0.9960
Subtotal 36											
*38	WEN	20	f	a	e	2	9	0.03	50.89	0.13	
*46	GALLO	4	c	a	c	2	2	0.68	13.74	4.99	0.0120
								0.53	9.55	1.98	0.1011
								-0.03	21.65	0.24	0.8887
								-0.04	16.85	0.22	0.8736
Subtotal 36											
*38	WEN	20	f	a	e	2	9	-0.03	38.50	0.46	
*46	GALLO	4	c	a	c	2	2	0.19	15.39	0.21	0.4546
								-0.20	25.34	1.90	0.3178

-----  
 Within each study, results are included (in the following order of preference) for:  
 1) WKS Working status = all (a), workers only (w); 2) TIM Time of exposure = current (c), ever (e)  
 3) UNX Unexposed to any ETS (1), to ETS type (2); low exp to any ETS (3), to ETS type (4);  
 never exposed to ETS type (8), unexposed to hh/work ETS (a)  
 4) HD type: (CVD)-(Stroke) in preference to CVD

Table 32  
ETS and Heart Disease - Meta-Analysis of Workplace Exposure, 02-AUG-13  
 Workers only, if available  
 Overall - unadjusted

Relative risks

	N	21
	NS	14
	Wt	486.31
	Het Chi	27.66
	Het df	20
	Het P	N.S.
Fixed	RR	1.08
	RRl	0.99
	RRu	1.18
	P	(+)
Random	RR	1.11
	RRl	0.98
	RRu	1.25
	P	N.S.
Asymm	P	N.S.

---

Within each study, results are included (in the following order of preference) for:  
 1) WKS Working status = all (a), workers only (w); 2) TIM Time of exposure = current (c), ever (e)  
 3) UNX Unexposed to any ETS (1), to ETS type (2); low exp to any ETS (3), to ETS type (4);  
     never exposed to ETS type (8), unexposed to hh/work ETS (a)  
 4) HD type: (CVD)-(Stroke) in preference to CVD

Table 33  
ETS and Heart Disease - Meta-Analysis of Workplace Exposure, 02-AUG-13  
 Workers only, if available  
 By sex - adjusted

combined

StN	Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
28	PITSAV	8	c	a	c	a	6	-	-	-	-	1.97 ( 1.16-	3.34)
30	CHEN	9	c	w	c	2	10	-	-	-	-	1.70 ( 0.90-	3.20)
Partial Totals								0	0	0	0		

\*prospective study

male

StN	Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
3	LEE	6	m	w	e	2	1	-	-	-	-	0.66 ( 0.26-	1.66)
*5	SVENDS	3	m	a	c	2	2	-	-	-	-	1.40 ( 0.80-	2.50)
9	JACKSO	8	m	a	c	2	2	-	-	-	-	1.80 ( 0.94-	3.46)
12	DOBSON	8	m	w	c	2	2	-	-	-	-	0.95 ( 0.51-	1.78)
17	MUSCAT	4	m	a	e	2	3	-	-	-	-	1.20 ( 0.60-	2.20)
*19	STEENL	28	m	w	c	1	12	-	-	-	-	1.03 ( 0.89-	1.19)
27	ROSENL	8	m	a	e	2	8	-	-	-	-	1.14 ( 0.78-	1.67)
36	STRANG	26	m	a	e	2	0	134	347	39	98	0.97 ( 0.64-	1.48)
*46	GALLO	5	m	a	c	2	5	-	-	-	-	0.93 ( 0.46-	1.90)
Partial Totals								134	347	39	98		

\*prospective study

female

StN	Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
3	LEE	8	f	w	e	2	1	-	-	-	-	0.69 ( 0.26-	1.87)
9	JACKSO	6	f	a	c	2	2	-	-	-	-	1.55 ( 0.48-	5.03)
12	DOBSON	6	f	w	c	2	2	-	-	-	-	0.66 ( 0.17-	2.62)
17	MUSCAT	6	f	w	e	2	3	-	-	-	-	1.00 ( 0.40-	2.50)
*19	STEENL	29	f	w	c	1	13	-	-	-	-	1.06 ( 0.84-	1.34)
*21	KAWACH	8	f	w	c	2	15	-	-	-	-	1.68 ( 0.81-	3.47)
25	HE1	22	f	w	e	2	6	-	-	-	-	1.85 ( 0.86-	4.00)
27	ROSENL	20	f	a	e	2	8	-	-	-	-	0.94 ( 0.59-	1.50)
36	STRANG	18	f	a	e	2	0	52	507	29	272	0.96 ( 0.60-	1.55)
*38	WEN	20	f	a	e	2	9	-	-	-	-	1.21 ( 0.74-	2.01)
*46	GALLO	6	f	a	c	2	5	-	-	-	-	0.76 ( 0.47-	1.24)
Partial Totals								52	507	29	272		

\*prospective study

combined                      male                      female                      Total

Relative risks

N	2	9	11	22
NS	2	9	11	22
Wt	23.29	282.19	163.78	469.26
Het Chi	0.12	5.30	7.63	20.12
Het df	1	8	10	21
Het P	N.S.	N.S.	N.S.	N.S.
Fixed RR	1.85	1.06	1.05	1.08
RR1	1.24	0.94	0.90	0.99
RRu	2.78	1.19	1.22	1.19
P	++	N.S.	N.S.	(+)
Random RR	1.85	1.06	1.05	1.08
RR1	1.24	0.94	0.90	0.99
RRu	2.78	1.19	1.22	1.19
P	++	N.S.	N.S.	(+)
Asymm P		N.S.	N.S.	N.S.
Between Chi		6.75	6.67	7.06
Between df		1	1	2
Between P		--	--	*

-----  
 Within each study, results are included (in the following order of preference) for:  
 1) WKS Working status = all (a), workers only (w); 2) TIM Time of exposure = current (c), ever (e)  
 3) UNX Unexposed to any ETS (1), to ETS type (2); low exp to any ETS (3), to ETS type (4);  
     never exposed to ETS type (8), unexposed to hh/work ETS (a)  
 4) HD type: (CVD)-(Stroke) in preference to CVD

Table 34  
ETS and Heart Disease - Meta-Analysis of Workplace Exposure, 02-AUG-13  
 Workers only, if available  
 By sex - unadjusted

combined

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
28	PITSAV 8	c	a	c	a	6	-	-	-	-	1.97 (	1.16- 3.34)
30	CHEN 9	c	w	c	2	10	-	-	-	-	1.70 (	0.90- 3.20)
*46	GALLO 4	c	a	c	2	2	-	-	-	-	0.82 (	0.56- 1.22)
Partial Totals							0	0	0	0		

\*prospective study

male

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
3	LEE 5	m	w	e	2	0	13	58	17	40	0.53 (	0.23- 1.21)
*5	SVENDS 3	m	a	c	2	2	-	-	-	-	1.40 (	0.80- 2.50)
9	JACKSO 7	m	a	c	2	0	-	-	-	-	1.50 (	0.80- 3.00)
12	DOBSON 7	m	w	c	2	0	27	79	48	126	0.90 (	0.52- 1.55)
17	MUSCAT 3	m	a	e	2	0	44	66	24	42	1.17 (	0.62- 2.19)
*19	STEENL 28	m	w	c	1	12	-	-	-	-	1.03 (	0.89- 1.19)
27	ROSENL 7	m	a	e	2	0	126	254	68	145	1.06 (	0.74- 1.51)
36	STRANG 26	m	a	e	2	0	134	347	39	98	0.97 (	0.64- 1.48)
Partial Totals							344	804	196	451		

\*prospective study

female

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
3	LEE 7	f	w	e	2	0	6	45	30	113	0.50 (	0.20- 1.29)
9	JACKSO 5	f	a	c	2	0	-	-	-	-	2.20 (	0.70- 7.40)
12	DOBSON 5	f	w	c	2	0	5	73	12	124	0.71 (	0.24- 2.09)
17	MUSCAT 5	f	w	e	2	0	20	22	15	16	0.97 (	0.38- 2.46)
*19	STEENL 29	f	w	c	1	13	-	-	-	-	1.06 (	0.84- 1.34)
*21	KAWACH 8	f	w	c	2	15	-	-	-	-	1.68 (	0.81- 3.47)
25	HE1 21	f	w	e	2	0	33	43	26	83	2.45 (	1.30- 4.61)
27	ROSENL 19	f	a	e	2	0	68	143	57	120	1.00 (	0.65- 1.54)
36	STRANG 18	f	a	e	2	0	52	507	29	272	0.96 (	0.60- 1.55)
*38	WEN 20	f	a	e	2	9	-	-	-	-	1.21 (	0.74- 2.01)
Partial Totals							184	833	169	728		

\*prospective study

combined                      male                      female                      Total

Relative risks

N	3	8	10	21
NS	3	8	10	21
Wt	48.63	282.29	155.39	486.31
Het Chi	8.20	5.35	12.86	27.66
Het df	2	7	9	20
Het P	*	N.S.	N.S.	N.S.
Fixed RR	1.21	1.04	1.11	1.08
RR1	0.92	0.92	0.95	0.99
RRu	1.61	1.17	1.30	1.18
P	N.S.	N.S.	N.S.	(+)
Random RR	1.36	1.04	1.14	1.11
RR1	0.75	0.92	0.92	0.98
RRu	2.47	1.17	1.42	1.25
P	N.S.	N.S.	N.S.	N.S.
Asymm P	N.S.	N.S.	N.S.	N.S.
Between Chi		1.00	0.27	1.24
Between df		1	1	2
Between P		N.S.	N.S.	N.S.

-----  
 Within each study, results are included (in the following order of preference) for:  
 1) WKS Working status = all (a), workers only (w); 2) TIM Time of exposure = current (c), ever (e)  
 3) UNX Unexposed to any ETS (1), to ETS type (2); low exp to any ETS (3), to ETS type (4);  
     never exposed to ETS type (8), unexposed to hh/work ETS (a)  
 4) HD type: (CVD)-(Stroke) in preference to CVD

Table 35  
ETS and Heart Disease - Meta-Analysis of Workplace Exposure, 02-AUG-13  
 Workers only, if available  
 By continent - adjusted

NAmerica

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
*5	SVENDS 3	m	a	c	2	2	-	-	-	-	1.40 ( 0.80- 2.50)	
17	MUSCAT 4	m	a	e	2	3	-	-	-	-	1.20 ( 0.60- 2.20)	
17	MUSCAT 6	f	w	e	2	3	-	-	-	-	1.00 ( 0.40- 2.50)	
Subtotal 17											1.13 ( 0.66- 1.92)	
*19	STEENL 28	m	w	c	1	12	-	-	-	-	1.03 ( 0.89- 1.19)	
*19	STEENL 29	f	w	c	1	13	-	-	-	-	1.06 ( 0.84- 1.34)	
Subtotal 19											1.04 ( 0.92- 1.17)	
*21	KAWACH 8	f	w	c	2	15	-	-	-	-	1.68 ( 0.81- 3.47)	
36	STRANG 26	m	a	e	2	0	134	347	39	98	0.97 ( 0.64- 1.48)	
36	STRANG 18	f	a	e	2	0	52	507	29	272	0.96 ( 0.60- 1.55)	
Subtotal 36												0.97 ( 0.70- 1.33)
Partial Totals							186	854	68	370		
*prospective study												

Europe

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
3	LEE 6	m	w	e	2	1	-	-	-	-	0.66 ( 0.26- 1.66)	
3	LEE 8	f	w	e	2	1	-	-	-	-	0.69 ( 0.26- 1.87)	
Subtotal 3											0.67 ( 0.34- 1.32)	
27	ROSENL 8	m	a	e	2	8	-	-	-	-	1.14 ( 0.78- 1.67)	
27	ROSENL 20	f	a	e	2	8	-	-	-	-	0.94 ( 0.59- 1.50)	
Subtotal 27												1.06 ( 0.79- 1.42)
28	PITSAV 8	c	a	c	a	6	-	-	-	-	1.97 ( 1.16- 3.34)	
30	CHEN 9	c	w	c	2	10	-	-	-	-	1.70 ( 0.90- 3.20)	
*46	GALLO 5	m	a	c	2	5	-	-	-	-	0.93 ( 0.46- 1.90)	
*46	GALLO 6	f	a	c	2	5	-	-	-	-	0.76 ( 0.47- 1.24)	
Subtotal 46												0.81 ( 0.54- 1.21)
Partial Totals							0	0	0	0		
*prospective study												

Asia

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
25	HE1 22	f	w	e	2	6	-	-	-	-	1.85 ( 0.86- 4.00)	
*38	WEN 20	f	a	e	2	9	-	-	-	-	1.21 ( 0.74- 2.01)	
Partial Totals							0	0	0	0		
*prospective study												

Other

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
9	JACKSO 8	m	a	c	2	2	-	-	-	-	1.80 ( 0.94- 3.46)	
9	JACKSO 6	f	a	c	2	2	-	-	-	-	1.55 ( 0.48- 5.03)	
Subtotal 9											1.74 ( 0.98- 3.07)	
12	DOBSON 8	m	w	c	2	2	-	-	-	-	0.95 ( 0.51- 1.78)	
12	DOBSON 6	f	w	c	2	2	-	-	-	-	0.66 ( 0.17- 2.62)	
Subtotal 12												0.89 ( 0.51- 1.57)
Partial Totals							0	0	0	0		
*prospective study												

-----  
 Within each study, results are included (in the following order of preference) for:  
 1) WKS Working status = all (a), workers only (w); 2) TIM Time of exposure = current (c), ever (e)  
 3) UNX Unexposed to any ETS (1), to ETS type (2); low exp to any ETS (3), to ETS type (4);  
     never exposed to ETS type (8), unexposed to hh/work ETS (a)  
 4) HD type: (CVD)-(Stroke) in preference to CVD

Table 35  
ETS and Heart Disease - Meta-Analysis of Workplace Exposure, 02-AUG-13  
 Workers only, if available  
 By continent - adjusted

	NAmerica	Europe	Asia	Other	Total
Relative risks					
N	8	8	2	4	22
NS	5	5	2	2	14
Wt	323.81	99.83	21.89	23.72	469.26
Het Chi	3.08	11.40	0.82	2.91	20.12
Het df	7	7	1	3	21
Het P	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed RR	1.06	1.09	1.37	1.24	1.08
RRl	0.95	0.89	0.90	0.83	0.99
RRu	1.18	1.32	2.09	1.86	1.19
P	N.S.	N.S.	N.S.	N.S.	(+)
Random RR	1.06	1.08	1.37	1.24	1.08
RRl	0.95	0.83	0.90	0.83	0.99
RRu	1.18	1.40	2.09	1.86	1.19
P	N.S.	N.S.	N.S.	N.S.	(+)
Asymm P	N.S.	N.S.	N.S.	N.S.	N.S.
Between Chi		0.07	1.41	0.59	1.90
Between df		1	1	1	3
Between P		N.S.	N.S.	N.S.	N.S.

---

Within each study, results are included (in the following order of preference) for:  
 1) WKS Working status = all (a), workers only (w); 2) TIM Time of exposure = current (c), ever (e)  
 3) UNX Unexposed to any ETS (1), to ETS type (2); low exp to any ETS (3), to ETS type (4);  
     never exposed to ETS type (8), unexposed to hh/work ETS (a)  
 4) HD type: (CVD)-(Stroke) in preference to CVD

Table 36  
ETS and Heart Disease - Meta-Analysis of Workplace Exposure, 02-AUG-13  
 Workers only, if available  
 By continent - unadjusted

NAmerica

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
*5	SVENDS 3	m	a	c	2	2	-	-	-	-	1.40 ( 0.80- 2.50)	
17	MUSCAT 3	m	a	e	2	0	44	66	24	42	1.17 ( 0.62- 2.19)	
17	MUSCAT 5	f	w	e	2	0	20	22	15	16	0.97 ( 0.38- 2.46)	
Subtotal 17											1.10 ( 0.65- 1.85)	
*19	STEENL 28	m	w	c	1	12	-	-	-	-	1.03 ( 0.89- 1.19)	
*19	STEENL 29	f	w	c	1	13	-	-	-	-	1.06 ( 0.84- 1.34)	
Subtotal 19											1.04 ( 0.92- 1.17)	
*21	KAWACH 8	f	w	c	2	15	-	-	-	-	1.68 ( 0.81- 3.47)	
36	STRANG 26	m	a	e	2	0	134	347	39	98	0.97 ( 0.64- 1.48)	
36	STRANG 18	f	a	e	2	0	52	507	29	272	0.96 ( 0.60- 1.55)	
Subtotal 36											0.97 ( 0.70- 1.33)	
Partial Totals							250	942	107	428		

\*prospective study

Europe

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
3	LEE 5	m	w	e	2	0	13	58	17	40	0.53 ( 0.23- 1.21)	
3	LEE 7	f	w	e	2	0	6	45	30	113	0.50 ( 0.20- 1.29)	
Subtotal 3											0.52 ( 0.28- 0.96)	
27	ROSENL 7	m	a	e	2	0	126	254	68	145	1.06 ( 0.74- 1.51)	
27	ROSENL 19	f	a	e	2	0	68	143	57	120	1.00 ( 0.65- 1.54)	
Subtotal 27											1.03 ( 0.79- 1.36)	
28	PITSAV 8	c	a	c	a	6	-	-	-	-	1.97 ( 1.16- 3.34)	
30	CHEN 9	c	w	c	2	10	-	-	-	-	1.70 ( 0.90- 3.20)	
*46	GALLO 4	c	a	c	2	2	-	-	-	-	0.82 ( 0.56- 1.22)	
Partial Totals							213	500	172	418		

\*prospective study

Asia

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
25	HEI 21	f	w	e	2	0	33	43	26	83	2.45 ( 1.30- 4.61)	
*38	WEN 20	f	a	e	2	9	-	-	-	-	1.21 ( 0.74- 2.01)	
Partial Totals							33	43	26	83		

\*prospective study

Other

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
9	JACKSO 7	m	a	c	2	0	-	-	-	-	1.50 ( 0.80- 3.00)	
9	JACKSO 5	f	a	c	2	0	-	-	-	-	2.20 ( 0.70- 7.40)	
Subtotal 9											1.64 ( 0.92- 2.93)	
12	DOBSON 7	m	w	c	2	0	27	79	48	126	0.90 ( 0.52- 1.55)	
12	DOBSON 5	f	w	c	2	0	5	73	12	124	0.71 ( 0.24- 2.09)	
Subtotal 12											0.85 ( 0.52- 1.39)	
Partial Totals							32	152	60	250		

\*prospective study

---

Within each study, results are included (in the following order of preference) for:  
 1) WKS Working status = all (a), workers only (w); 2) TIM Time of exposure = current (c), ever (e)  
 3) UNX Unexposed to any ETS (1), to ETS type (2); low exp to any ETS (3), to ETS type (4);  
     never exposed to ETS type (8), unexposed to hh/work ETS (a)  
 4) HD type: (CVD)-(Stroke) in preference to CVD

Table 36  
ETS and Heart Disease - Meta-Analysis of Workplace Exposure, 02-AUG-13  
 Workers only, if available  
 By continent - unadjusted

	NAmerica	Europe	Asia	Other	Total
Relative risks					
N	8	7	2	4	21
NS	5	5	2	2	14
Wt	324.26	109.47	25.00	27.58	486.31
Het Chi	3.05	14.27	2.94	3.33	27.66
Het df	7	6	1	3	20
Het P	N.S.	*	(*)	N.S.	N.S.
Fixed RR	1.05	1.04	1.59	1.12	1.08
RRl	0.95	0.86	1.07	0.77	0.99
RRu	1.18	1.26	2.35	1.63	1.18
P	N.S.	N.S.	+	N.S.	(+)
Random RR	1.05	1.03	1.67	1.13	1.11
RRl	0.95	0.76	0.84	0.76	0.98
RRu	1.18	1.40	3.34	1.69	1.25
P	N.S.	N.S.	N.S.	N.S.	N.S.
Asymm P	N.S.	N.S.	N.S.	N.S.	N.S.
Between Chi		0.01	3.87	0.10	4.07
Between df		1	1	1	3
Between P		N.S.	+	N.S.	N.S.

---

Within each study, results are included (in the following order of preference) for:  
 1) WKS Working status = all (a), workers only (w); 2) TIM Time of exposure = current (c), ever (e)  
 3) UNX Unexposed to any ETS (1), to ETS type (2); low exp to any ETS (3), to ETS type (4);  
     never exposed to ETS type (8), unexposed to hh/work ETS (a)  
 4) HD type: (CVD)-(Stroke) in preference to CVD



Table 37  
ETS and Heart Disease - Meta-Analysis of Workplace Exposure, 02-AUG-13  
 Workers only, if available  
 By publication year (grouped) - adjusted

1984-89

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
3	LEE 6	m	w	e	2	1	-	-	-	-	0.66 ( 0.26- 1.66)	
3	LEE 8	f	w	e	2	1	-	-	-	-	0.69 ( 0.26- 1.87)	
Subtotal 3											0.67 ( 0.34- 1.32)	
*5	SVENDS 3	m	a	c	2	2	-	-	-	-	1.40 ( 0.80- 2.50)	
9	JACKSO 8	m	a	c	2	2	-	-	-	-	1.80 ( 0.94- 3.46)	
9	JACKSO 6	f	a	c	2	2	-	-	-	-	1.55 ( 0.48- 5.03)	
Subtotal 9											1.74 ( 0.98- 3.07)	
Partial Totals							0	0	0	0		

\*prospective study

1990-97

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
12	DOBSON 8	m	w	c	2	2	-	-	-	-	0.95 ( 0.51- 1.78)	
12	DOBSON 6	f	w	c	2	2	-	-	-	-	0.66 ( 0.17- 2.62)	
Subtotal 12											0.89 ( 0.51- 1.57)	
17	MUSCAT 4	m	a	e	2	3	-	-	-	-	1.20 ( 0.60- 2.20)	
17	MUSCAT 6	f	w	e	2	3	-	-	-	-	1.00 ( 0.40- 2.50)	
Subtotal 17											1.13 ( 0.66- 1.92)	
*19	STEENL 28	m	w	c	1	12	-	-	-	-	1.03 ( 0.89- 1.19)	
*19	STEENL 29	f	w	c	1	13	-	-	-	-	1.06 ( 0.84- 1.34)	
Subtotal 19											1.04 ( 0.92- 1.17)	
*21	KAWACH 8	f	w	c	2	15	-	-	-	-	1.68 ( 0.81- 3.47)	
Partial Totals							0	0	0	0		

\*prospective study

1998-04

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
25	HEL 22	f	w	e	2	6	-	-	-	-	1.85 ( 0.86- 4.00)	
27	ROSENL 8	m	a	e	2	8	-	-	-	-	1.14 ( 0.78- 1.67)	
27	ROSENL 20	f	a	e	2	8	-	-	-	-	0.94 ( 0.59- 1.50)	
Subtotal 27											1.06 ( 0.79- 1.42)	
28	PITSAV 8	c	a	c	a	6	-	-	-	-	1.97 ( 1.16- 3.34)	
30	CHEN 9	c	w	c	2	10	-	-	-	-	1.70 ( 0.90- 3.20)	
Partial Totals							0	0	0	0		

\*prospective study

2005-07

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
36	STRANG 26	m	a	e	2	0	134	347	39	98	0.97 ( 0.64- 1.48)	
36	STRANG 18	f	a	e	2	0	52	507	29	272	0.96 ( 0.60- 1.55)	
Subtotal 36											0.97 ( 0.70- 1.33)	
*38	WEN 20	f	a	e	2	9	-	-	-	-	1.21 ( 0.74- 2.01)	
Partial Totals							186	854	68	370		

\*prospective study

2008 onwards

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
*46	GALLO 5	m	a	c	2	5	-	-	-	-	0.93 ( 0.46- 1.90)	
*46	GALLO 6	f	a	c	2	5	-	-	-	-	0.76 ( 0.47- 1.24)	
Subtotal 46											0.81 ( 0.54- 1.21)	
Partial Totals							0	0	0	0		

\*prospective study

---

Within each study, results are included (in the following order of preference) for:  
 1) WKS Working status = all (a), workers only (w); 2) TIM Time of exposure = current (c), ever (e)  
 3) UNX Unexposed to any ETS (1), to ETS type (2); low exp to any ETS (3), to ETS type (4);  
     never exposed to ETS type (8), unexposed to hh/work ETS (a)  
 4) HD type: (CVD)-(Stroke) in preference to CVD

Table 37  
ETS and Heart Disease - Meta-Analysis of Workplace Exposure, 02-AUG-13  
 Workers only, if available  
 By publication year (grouped) - adjusted

	1984-89	1990-97	1998-04	2005-07	2008 onwa	Total
Relative risks						
N	5	7	5	3	2	22
NS	3	4	4	2	1	14
Wt	32.09	285.37	73.95	53.88	23.96	469.26
Het Chi	4.70	2.39	6.16	0.55	0.21	20.12
Het df	4	6	4	2	1	21
Het P	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed RR	1.25	1.05	1.32	1.03	0.81	1.08
RRl	0.89	0.93	1.05	0.79	0.54	0.99
RRu	1.77	1.18	1.66	1.35	1.21	1.19
P	N.S.	N.S.	+	N.S.	N.S.	(+)
Random RR	1.23	1.05	1.37	1.03	0.81	1.08
RRl	0.84	0.93	1.02	0.79	0.54	0.99
RRu	1.80	1.18	1.84	1.35	1.21	1.19
P	N.S.	N.S.	+	N.S.	N.S.	(+)
Asymm P	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Between Chi		0.90	0.07	0.76	2.59	6.10
Between df		1	1	1	1	4
Between P		N.S.	N.S.	N.S.	N.S.	N.S.

---

Within each study, results are included (in the following order of preference) for:  
 1) WKS Working status = all (a), workers only (w); 2) TIM Time of exposure = current (c), ever (e)  
 3) UNX Unexposed to any ETS (1), to ETS type (2); low exp to any ETS (3), to ETS type (4);  
     never exposed to ETS type (8), unexposed to hh/work ETS (a)  
 4) HD type: (CVD)-(Stroke) in preference to CVD

Table 38  
ETS and Heart Disease - Meta-Analysis of Workplace Exposure, 02-AUG-13  
 Workers only, if available  
 By publication year (grouped) - unadjusted

1984-89

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
							Case	Cont	Case	Cont			
3	LEE	5	m	w	e	2	0	13	58	17	40	0.53 ( 0.23- 1.21)	
3	LEE	7	f	w	e	2	0	6	45	30	113	0.50 ( 0.20- 1.29)	
Subtotal 3												0.52 ( 0.28- 0.96)	
*5	SVENDS	3	m	a	c	2	2	-	-	-	-	1.40 ( 0.80- 2.50)	
9	JACKSO	7	m	a	c	2	0	-	-	-	-	1.50 ( 0.80- 3.00)	
9	JACKSO	5	f	a	c	2	0	-	-	-	-	2.20 ( 0.70- 7.40)	
Subtotal 9													1.64 ( 0.92- 2.93)
Partial Totals							19	103	47	153			

\*prospective study

1990-97

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
							Case	Cont	Case	Cont			
12	DOBSON	7	m	w	c	2	0	27	79	48	126	0.90 ( 0.52- 1.55)	
12	DOBSON	5	f	w	c	2	0	5	73	12	124	0.71 ( 0.24- 2.09)	
Subtotal 12													0.85 ( 0.52- 1.39)
17	MUSCAT	3	m	a	e	2	0	44	66	24	42	1.17 ( 0.62- 2.19)	
17	MUSCAT	5	f	w	e	2	0	20	22	15	16	0.97 ( 0.38- 2.46)	
Subtotal 17													1.10 ( 0.65- 1.85)
*19	STEENL	28	m	w	c	1	12	-	-	-	-	1.03 ( 0.89- 1.19)	
*19	STEENL	29	f	w	c	1	13	-	-	-	-	1.06 ( 0.84- 1.34)	
Subtotal 19													1.04 ( 0.92- 1.17)
*21	KAWACH	8	f	w	c	2	15	-	-	-	-	1.68 ( 0.81- 3.47)	
Partial Totals							96	240	99	308			

\*prospective study

1998-04

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
							Case	Cont	Case	Cont			
25	HEL1	21	f	w	e	2	0	33	43	26	83	2.45 ( 1.30- 4.61)	
27	ROSENL	7	m	a	e	2	0	126	254	68	145	1.06 ( 0.74- 1.51)	
27	ROSENL	19	f	a	e	2	0	68	143	57	120	1.00 ( 0.65- 1.54)	
Subtotal 27													1.03 ( 0.79- 1.36)
28	PITSAV	8	c	a	c	a	6	-	-	-	-	1.97 ( 1.16- 3.34)	
30	CHEN	9	c	w	c	2	10	-	-	-	-	1.70 ( 0.90- 3.20)	
Partial Totals							227	440	151	348			

\*prospective study

2005-07

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
							Case	Cont	Case	Cont			
36	STRANG	26	m	a	e	2	0	134	347	39	98	0.97 ( 0.64- 1.48)	
36	STRANG	18	f	a	e	2	0	52	507	29	272	0.96 ( 0.60- 1.55)	
Subtotal 36													0.97 ( 0.70- 1.33)
*38	WEN	20	f	a	e	2	9	-	-	-	-	1.21 ( 0.74- 2.01)	
Partial Totals							186	854	68	370			

\*prospective study

2008 onwards

StN Ref	NRR	SEX	WKS	TIM	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
							Case	Cont	Case	Cont			
*46	GALLO	4	c	a	c	2	2	-	-	-	-	0.82 ( 0.56- 1.22)	
Partial Totals							0	0	0	0			

\*prospective study

-----  
 Within each study, results are included (in the following order of preference) for:  
 1) WKS Working status = all (a), workers only (w); 2) TIM Time of exposure = current (c), ever (e)  
 3) UNX Unexposed to any ETS (1), to ETS type (2); low exp to any ETS (3), to ETS type (4);  
     never exposed to ETS type (8), unexposed to hh/work ETS (a)  
 4) HD type: (CVD)-(Stroke) in preference to CVD

Table 38  
ETS and Heart Disease - Meta-Analysis of Workplace Exposure, 02-AUG-13  
 Workers only, if available  
 By publication year (grouped) - unadjusted

	1984-89	1990-97	1998-04	2005-07	2008 onwa	Total
Relative risks						
N	5	7	5	3	1	21
NS	3	4	4	2	1	14
Wt	33.34	289.96	83.79	53.88	25.34	486.31
Het Chi	8.56	2.62	9.54	0.55	0.00	27.66
Het df	4	6	4	2	0	20
Het P	(*)	N.S.	*	N.S.	N.S.	N.S.
Fixed RR	1.10	1.04	1.34	1.03	0.82	1.08
RRl	0.78	0.93	1.08	0.79	0.56	0.99
RRu	1.54	1.17	1.66	1.35	1.21	1.18
P	N.S.	N.S.	++	N.S.	N.S.	(+)
Random RR	1.05	1.04	1.46	1.03	0.82	1.11
RRl	0.62	0.93	1.03	0.79	0.56	0.98
RRu	1.76	1.17	2.05	1.35	1.21	1.25
P	N.S.	N.S.	+	N.S.	N.S.	N.S.
Asymm P	N.S.	N.S.	*	N.S.	N.S.	N.S.
Between Chi		0.08	0.96	0.09	1.24	6.38
Between df		1	1	1	1	4
Between P		N.S.	N.S.	N.S.	N.S.	N.S.

-----  
 Within each study, results are included (in the following order of preference) for:  
 1) WKS Working status = all (a), workers only (w); 2) TIM Time of exposure = current (c), ever (e)  
 3) UNX Unexposed to any ETS (1), to ETS type (2); low exp to any ETS (3), to ETS type (4);  
     never exposed to ETS type (8), unexposed to hh/work ETS (a)  
 4) HD type: (CVD)-(Stroke) in preference to CVD

Table 39  
ETS and Heart Disease - Meta-Analysis of Total Exposure, 02-AUG-13  
 Overall - adjusted

Overall

StN	Ref	NRR	SEX	TIM	TOT	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
							Case	Cont	Case	Cont			
3	LEE	9	m	c	3	0	15	70	15	27	0.39 ( 0.17-	0.90)	
3	LEE	10	f	c	3	0	13	82	23	75	0.52 ( 0.24-	1.09)	
Subtotal 3													
*5	SVENDS	4	m	c	2	1	-	-	-	-	1.17 ( 0.62-	1.19)	
9	JACKSO	16	m	c	4	4	-	-	-	-	1.14 ( 0.76-	1.70)	
9	JACKSO	14	f	c	4	4	-	-	-	-	1.56 ( 0.76-	3.20)	
Subtotal 9													
12	DOBSON	12	m	c	4	4	-	-	-	-	1.09 ( 0.72-	1.63)	
12	DOBSON	10	f	c	4	4	-	-	-	-	2.24 ( 1.28-	3.91)	
Subtotal 12													
18	TUNSTA	2	c	c	a	4	-	-	-	-	1.34 ( 1.07-	1.67)	
*21	KAWACH	1	f	c	4	15	-	-	-	-	1.71 ( 1.03-	2.84)	
23	MCELDU	4	m	c	4	4	-	-	-	-	0.82 ( 0.55-	1.22)	
23	MCELDU	2	f	c	4	4	-	-	-	-	2.15 ( 1.18-	3.92)	
Subtotal 23													
25	HE1	51	f	e	2	0	48	76	11	50	2.87 ( 1.36-	6.05)	
26	IRIBAR	14	m	c	5	11	-	-	-	-	1.07 ( 0.96-	1.19)	
26	IRIBAR	29	f	c	5	11	-	-	-	-	1.10 ( 1.01-	1.20)	
Subtotal 26													
27	ROSENL	46	c	e	2	8	-	-	-	-	1.18 ( 0.87-	1.60)	
28	PITSAV	4	m	c	4	10	-	-	-	-	1.33 ( 0.94-	1.88)	
28	PITSAV	7	f	c	4	10	-	-	-	-	1.39 ( 0.87-	2.23)	
Subtotal 28													
30	CHEN	4	c	c	a	10	-	-	-	-	1.50 ( 1.03-	2.20)	
31	NISHTA	1	c	e	a	1	-	-	-	-	2.87 ( 1.28-	6.42)	
36	STRANG	12	m	e	3	9	-	-	-	-	1.11 ( 0.69-	1.77)	
36	STRANG	6	f	e	3	9	-	-	-	-	0.58 ( 0.33-	1.03)	
Subtotal 36													
37	TEO	1	c	c	6	6	-	-	-	-	1.37 ( 1.27-	1.48)	
*38	WEN	24	f	e	7	9	-	-	-	-	1.25 ( 0.69-	2.25)	
42	HE2	8	f	t	4	12	-	-	-	-	1.69 ( 1.31-	2.18)	
44	VOZORI	2	c	c	a	7	-	-	-	-	1.00 ( 0.80-	1.20)	
*49	HE3	2	m	e	4	9	-	-	-	-	2.24 ( 0.76-	6.59)	
*49	HE3	4	f	e	4	9	-	-	-	-	2.10 ( 0.69-	6.33)	
Subtotal 49													
Partial Totals							76	228	49	152	2.17 ( 1.00-		4.70)
*prospective study													

StN	Ref	NRR	SEX	TIM	TOT	ADJ	Ys	Ws	Qs	Ps
3	LEE	9	m	c	3	0	-0.95	5.42	7.14	0.0266
3	LEE	10	f	c	3	0	-0.66	6.85	5.01	0.0841
Subtotal 3										
*5	SVENDS	4	m	c	2	1	0.16	36.15	0.05	0.3452
9	JACKSO	16	m	c	4	4	0.13	23.71	0.10	0.5235
9	JACKSO	14	f	c	4	4	0.44	7.44	0.46	0.2253
Subtotal 9										
12	DOBSON	12	m	c	4	4	0.09	23.02	0.28	0.6793
12	DOBSON	10	f	c	4	4	0.81	12.32	4.60	0.0046
Subtotal 12										
18	TUNSTA	2	c	c	a	4	0.29	77.54	0.73	0.0100
*21	KAWACH	1	f	c	4	15	0.54	14.94	1.74	0.0381
23	MCELDU	4	m	c	4	4	-0.20	24.21	3.76	0.3288
23	MCELDU	2	f	c	4	4	0.77	10.66	3.46	0.0124
Subtotal 23										
25	HE1	51	f	e	2	0	1.05	6.90	5.09	0.0056
26	IRIBAR	14	m	c	5	11	0.07	333.11	5.46	0.2169
26	IRIBAR	29	f	c	5	11	0.10	517.16	5.21	0.0302
Subtotal 26										
27	ROSENL	46	c	e	2	8	0.17	41.39	0.04	0.2869
28	PITSAV	4	m	c	4	10	0.29	31.98	0.26	0.1068
28	PITSAV	7	f	c	4	10	0.33	17.34	0.31	0.1703
Subtotal 28										
30	CHEN	4	c	c	a	10	0.41	26.68	1.17	0.0362
31	NISHTA	1	c	e	a	1	1.05	5.91	4.36	0.0104

HD type: (CVD)-(Stroke) selected in preference to CVD

Values are also shown for:

- 1) TIM Time of exposure = current (c), ever (e), in last 10 years (t)
- 2) TOT Total exposure = any (a), sp/wk (2), home/wk/travel/leisure (3), home/wk (4), home/oth (5), home/work/social (6), spouse/work/child (7)

Table 39  
ETS and Heart Disease - Meta-Analysis of Total Exposure, 02-AUG-13  
 Overall - adjusted

Overall

StN	Ref	NRR	SEX	TIM	TOT	ADJ	Ys	Ws	Qs	Ps
36	STRANG	12	m	e	3	9	0.10	17.31	0.14	0.6641
36	STRANG	6	f	e	3	9	-0.54	11.86	6.50	0.0607
Subtotal 36							-0.16	29.18	6.65	
37	TEO	1	c	c	6	6	0.31	656.19	9.31	0.0000
*38	WEN	24	f	e	7	9	0.22	11.00	0.01	0.4593
42	HE2	8	f	t	4	12	0.52	59.24	6.41	0.0001
44	VOZORI	2	c	c	a	7	0.00	93.46	3.58	1.0000
*49	HE3	2	m	e	4	9	0.81	3.29	1.23	0.1433
*49	HE3	4	f	e	4	9	0.74	3.13	0.93	0.1894
Subtotal 49							0.78	6.42	2.16	

Relative risks

N	27
NS	19
Wt	2078.21
Het Chi	77.35
Het df	26
Het P	***
Fixed RR	1.22
RR1	1.16
RRu	1.27
P	+++
Random RR	1.24
RR1	1.12
RRu	1.38
P	+++
Asymm P	N.S.

-----  
 HD type: (CVD)-(Stroke) selected in preference to CVD

Values are also shown for:

- 1) TIM Time of exposure = current (c), ever (e), in last 10 years (t)
- 2) TOT Total exposure = any (a), sp/wk (2), home/wk/travel/leisure (3), home/wk (4), home/oth (5), home/work/social (6), spouse/work/child (7)

Table 40  
ETS and Heart Disease - Meta-Analysis of Total Exposure, 02-AUG-13  
 Overall - unadjusted

Overall

StN	Ref	NRR	SEX	TIM	TOT	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
							Case	Cont	Case	Cont		
3	LEE	9	m	c	3	0	15	70	15	27	0.39 ( 0.17-	0.90)
3	LEE	10	f	c	3	0	13	82	23	75	0.52 ( 0.24-	1.09)
Subtotal 3											0.45 ( 0.26-	0.79)
*5	SVENDS	4	m	c	2	1	-	-	-	-	1.17 ( 0.62-	1.19)
9	JACKSO	15	m	c	4	0	69	138	161	397	1.23 ( 0.88-	1.74)
9	JACKSO	13	f	c	4	0	15	66	58	336	1.32 ( 0.70-	2.46)
Subtotal 9											1.25 ( 0.93-	1.69)
12	DOBSON	11	m	c	4	0	69	153	189	326	0.78 ( 0.56-	1.09)
12	DOBSON	9	f	c	4	0	33	168	76	434	1.12 ( 0.72-	1.75)
Subtotal 12											0.89 ( 0.68-	1.16)
18	TUNSTA	1	c	c	a	0	329	1216	99	483	1.32 ( 1.03-	1.69)
*21	KAWACH	1	f	c	4	15	-	-	-	-	1.71 ( 1.03-	2.84)
23	MCELDU	3	m	c	4	0	53	172	145	373	0.79 ( 0.55-	1.14)
23	MCELDU	1	f	c	4	0	31	147	54	479	1.87 ( 1.16-	3.02)
Subtotal 23											1.08 ( 0.81-	1.45)
25	HE1	51	f	e	2	0	48	76	11	50	2.87 ( 1.36-	6.05)
26	IRIBAR	14	m	c	5	11	-	-	-	-	1.07 ( 0.96-	1.19)
26	IRIBAR	29	f	c	5	11	-	-	-	-	1.10 ( 1.01-	1.20)
Subtotal 26											1.09 ( 1.02-	1.16)
27	ROSENL	45	c	e	2	0	240	474	77	177	1.16 ( 0.85-	1.59)
28	PITSAV	1	c	c	4	0	197	167	82	400	5.75 ( 4.20-	7.88)
30	CHEN	18	c	c	a	0	332	1208	53	261	1.35 ( 0.98-	1.86)
31	NISHTA	1	c	e	a	1	-	-	-	-	2.87 ( 1.28-	6.42)
36	STRANG	11	m	e	3	0	128	297	45	148	1.42 ( 0.96-	2.10)
36	STRANG	5	f	e	3	0	56	519	25	260	1.12 ( 0.68-	1.84)
Subtotal 36											1.29 ( 0.95-	1.76)
37	TEO	1	c	c	6	6	-	-	-	-	1.37 ( 1.27-	1.48)
*38	WEN	24	f	e	7	9	-	-	-	-	1.25 ( 0.69-	2.25)
42	HE2	1	f	t	4	0	200	277	231	501	1.57 ( 1.23-	1.99)
44	VOZORI	1	c	c	a	0	293	11991	1480	34776	0.57 ( 0.51-	0.65)
*49	HE3	1	m	e	4	0	14	271	5	168	1.74 ( 0.64-	4.73)
*49	HE3	3	f	e	4	0	18	340	4	131	1.73 ( 0.60-	5.03)
Subtotal 49											1.73 ( 0.84-	3.60)
Partial Totals							2153	17832	2833	39802		

\*prospective study

StN	Ref	NRR	SEX	TIM	TOT	ADJ	Ys	Ws	Qs	Ps
3	LEE	10	f	c	3	0	-0.66	6.85	4.40	0.0841
Subtotal 3							-0.79	12.27	10.88	
*5	SVENDS	4	m	c	2	1	0.16	36.15	0.01	0.3452
9	JACKSO	15	m	c	4	0	0.21	32.82	0.15	0.2303
9	JACKSO	13	f	c	4	0	0.28	9.80	0.18	0.3892
Subtotal 9							0.22	42.62	0.33	
12	DOBSON	11	m	c	4	0	-0.25	34.03	5.24	0.1429
12	DOBSON	9	f	c	4	0	0.11	19.34	0.01	0.6135
Subtotal 12							-0.12	53.36	5.26	
18	TUNSTA	1	c	c	a	0	0.28	62.37	1.16	0.0283
*21	KAWACH	1	f	c	4	15	0.54	14.94	2.33	0.0381
23	MCELDU	3	m	c	4	0	-0.23	29.19	4.08	0.2093
23	MCELDU	1	f	c	4	0	0.63	16.76	3.94	0.0104
Subtotal 23							0.08	45.95	8.02	
25	HE1	51	f	e	2	0	1.05	6.90	5.76	0.0056
26	IRIBAR	14	m	c	5	11	0.07	333.11	1.81	0.2169
26	IRIBAR	29	f	c	5	11	0.10	517.16	1.10	0.0302
Subtotal 26							0.08	850.27	2.90	
27	ROSENL	45	c	e	2	0	0.15	40.14	0.00	0.3363
28	PITSAV	1	c	c	4	0	1.75	38.82	100.45	0.0000
30	CHEN	18	c	c	a	0	0.30	37.68	0.98	0.0632
31	NISHTA	1	c	e	a	1	1.05	5.91	4.93	0.0104
36	STRANG	11	m	e	3	0	0.35	24.90	1.07	0.0817
36	STRANG	5	f	e	3	0	0.12	15.72	0.01	0.6477
Subtotal 36							0.26	40.62	1.08	
37	TEO	1	c	c	6	6	0.31	656.19	19.74	0.0000

HD type: (CVD)-(Stroke) selected in preference to CVD

Values are also shown for:

- 1) TIM Time of exposure = current (c), ever (e), in last 10 years (t)
- 2) TOT Total exposure = any (a), sp/wk (2), home/wk/travel/leisure (3), home/wk (4), home/oth (5), home/work/social (6), spouse/work/child (7)

Table 40  
ETS and Heart Disease - Meta-Analysis of Total Exposure, 02-AUG-13  
 Overall - unadjusted

Overall

StN	Ref	NRR	SEX	TIM	TOT	ADJ	Ys	Ws	Qs	Ps
*38	WEN	24	f	e	7	9	0.22	11.00	0.07	0.4593
42	HE2	1	f	t	4	0	0.45	66.96	6.32	0.0002
44	VOZORI	1	c	c	a	0	-0.55	238.05	115.38	0.0000
*49	HE3	1	m	e	4	0	0.55	3.82	0.64	0.2811
*49	HE3	3	f	e	4	0	0.55	3.39	0.57	0.3109
Subtotal 49							0.55	7.21	1.21	

Relative risks

N	26
NS	19
Wt	2267.40
Het Chi	286.81
Het df	25
Het P	***
Fixed RR	1.15
RRl	1.11
RRu	1.20
P	+++
Random RR	1.27
RRl	1.07
RRu	1.50
P	++
Asymm P	N.S.

---

HD type: (CVD)-(Stroke) selected in preference to CVD

Values are also shown for:

- 1) TIM Time of exposure = current (c), ever (e), in last 10 years (t)
- 2) TOT Total exposure = any (a), sp/wk (2), home/wk/travel/leisure (3), home/wk (4), home/oth (5), home/work/social (6), spouse/work/child (7)



Table 41  
ETS and Heart Disease - Meta-Analysis of ETS Exposure assessed by Biomarker, 02-AUG-13  
 By biomarker type - adjusted

Cotinine

StN	Ref	NRR	SEX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
					Case	Cont	Case	Cont		
18	TUNSTA	10	c	4	-	-	-	-	1.13	( 0.93- 1.38)
30	CHEN	8	c	10	-	-	-	-	0.86	( 0.64- 1.16)
*32	WHINCU	8	m	16	-	-	-	-	1.67	( 1.03- 2.72)
*47	HAMER	3	c	9	-	-	-	-	1.50	( 0.85- 2.64)
*48	JEFFER	7	c	16	-	-	-	-	0.94	( 0.59- 1.51)
Partial Totals					0	0	0	0		

\*prospective study

COHb

StN	Ref	NRR	SEX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
					Case	Cont	Case	Cont		
*35	HEDBLA	8	m	11	-	-	-	-	2.22	( 1.21- 4.09)
Partial Totals					0	0	0	0		

\*prospective study

	Cotinine	COHb	Total
Relative risks			
N	5	1	6
NS	5	1	6
Wt	187.76	10.36	198.12
Het Chi	7.12	0.00	11.98
Het df	4	0	5
Het P	N.S.	N.S.	*
Fixed RR	1.10	2.22	1.14
RRl	0.95	1.21	0.99
RRu	1.27	4.08	1.31
P	N.S.	+	(+)
Random RR	1.12	2.22	1.22
RRl	0.90	1.21	0.95
RRu	1.39	4.08	1.57
P	N.S.	+	N.S.
Asymm P	N.S.		N.S.
Between Chi		4.86	4.86
Between df		1	1
Between P		+	N.S.      N.S.      N.S.      *

-----  
 HD type: (CVD)-(Stroke) selected in preference to CVD.

Table 42

ETS and Heart Disease - Meta-Analysis of ETS Exposure assessed by Biomarker, 02-AUG-13  
By biomarker type - unadjusted

## Cotinine

StN	Ref	NRR	SEX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
					Case	Cont	Case	Cont		
18	TUNSTA	9	c	0	299	1120	129	580	1.20	( 0.95- 1.51)
30	CHEN	22	c	0	252	939	77	291	1.01	( 0.76- 1.35)
*32	WHINC	4	m	2	-	-	-	-	1.42	( 0.91- 2.22)
*47	HAMER	6	c	1	-	-	-	-	1.51	( 0.87- 2.63)
*48	JEFFER	3	c	2	-	-	-	-	0.97	( 0.61- 1.53)
Partial Totals					551	2059	206	871		

\*prospective study

## COHb

StN	Ref	NRR	SEX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
					Case	Cont	Case	Cont		
*35	HEDBLA	4	m	1	-	-	-	-	2.10	( 1.18- 3.73)
Partial Totals					0	0	0	0		

\*prospective study

Cotinine                      COHb    Total

## Relative risks

N	5	1	6
NS	5	1	6
Wt	169.57	11.60	181.18
Het Chi	3.17	0.00	6.98
Het df	4	0	5
Het P	N.S.	N.S.	N.S.
Fixed RR	1.16	2.10	1.21
RRl	1.00	1.18	1.04
RRu	1.35	3.73	1.40
P	(+)	+	+
Random RR	1.16	2.10	1.23
RRl	1.00	1.18	1.02
RRu	1.35	3.73	1.48
P	(+)	+	+
Asymm P	N.S.		N.S.
Between Chi		3.81	3.81
Between df		1	1
Between P		(+)	N.S.      N.S.      N.S.      (*)

-----  
HD type: (CVD)-(Stroke) selected in preference to CVD.

Table 43  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 Overall - adjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed Case	Cont	Non-exposed Case	Cont	RR	95.00%CI
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
*2	GARLAN	5	f	s	e	f	2	5	-	-	-	-	2.70	( 0.63- 11.58)
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
Subtotal 3														
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)
*6	BUTLER	2	f	s	e	f	2	1	-	-	-	-	1.07	( 0.65- 1.75)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8														
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
Subtotal 9														
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
Subtotal 10														
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
Subtotal 12														
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47- 2.53)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52- 3.09)
Subtotal 13														
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
Subtotal 14														
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90- 1.05)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98- 1.08)
Subtotal 15														
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17														
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98- 1.21)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93- 1.16)
Subtotal 19														
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18	( 0.55- 2.52)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73	( 0.89- 3.36)
Subtotal 22														
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82	( 0.55- 1.22)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15	( 1.18- 3.92)
Subtotal 23														
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 1.04- 2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 0.90- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26														
27	ROSENL	2	m	s	e	n	2	8	-	-	-	-	0.96	( 0.64- 1.44)
27	ROSENL	14	f	s	e	n	2	8	-	-	-	-	1.53	( 0.95- 2.44)
Subtotal 27														
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95- 2.04)
Subtotal 33														
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81- 1.38)
36	STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65- 1.50)
36	STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67- 2.51)
Subtotal 36														
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72- 1.37)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 43  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 Overall - adjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed Case	Cont	Non-exposed Case	Cont	RR	95.00%CI
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83- 1.17)
Subtotal 40														
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98- 1.66)
Subtotal 41														
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31- 2.18)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81- 3.47)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25- 5.64)
Subtotal 43														
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80- 1.20)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01- 2.27)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69- 6.33)
Subtotal 49														
Partial Totals									386	1253	319	777		
*prospective study														

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Ys	Ws	Qs	Ps
*1	HIRAYA	6	f	s	e	f	2	1	0.15	87.29	0.10	0.1655
*2	GARLAN	5	f	s	e	f	2	5	0.99	1.81	1.40	0.1811
3	LEE	2	m	s	m	n	2	2	0.22	6.59	0.07	0.5808
3	LEE	4	f	s	m	n	2	2	-0.07	12.04	0.42	0.8012
Subtotal 3												
4	MARTIN	1	f	s	e	n	2	6	0.96	6.33	4.47	0.0162
*5	SVENDS	2	m	s	c	b	2	6	0.48	14.27	1.86	0.0720
*6	BUTLER	2	f	s	e	f	2	1	0.07	15.67	0.04	0.7889
*8	HOLE	3	m	h	e	f	2	5	0.55	13.29	2.49	0.0457
*8	HOLE	2	f	h	e	f	2	5	0.50	7.04	1.05	0.1838
Subtotal 8												
9	JACKSO	4	m	h	c	b	2	2	0.06	3.80	0.01	0.9095
9	JACKSO	2	f	h	c	b	2	2	1.32	2.76	4.00	0.0285
Subtotal 9												
*10	SANDLE	2	m	h	c	f	2	4	0.27	77.28	1.85	0.0176
*10	SANDLE	4	f	h	c	f	2	4	0.17	213.52	0.74	0.0110
Subtotal 10												
*11	HUMBLE	1	f	s	c	f	8	4	0.46	16.88	2.05	0.0567
12	DOBSON	4	m	h	c	b	2	2	-0.03	8.90	0.19	0.9276
12	DOBSON	2	f	h	c	b	2	2	0.90	14.40	8.87	0.0006
Subtotal 12												
13	LAVECC	2	m	s	e	n	2	0	0.09	5.43	0.00	0.8393
13	LAVECC	1	f	s	e	n	2	0	0.24	4.84	0.07	0.6013
Subtotal 13												
14	LAYARD	2	m	s	e	f	2	2	-0.03	48.72	1.03	0.8316
14	LAYARD	10	f	s	e	f	2	2	-0.01	147.49	2.32	0.9029
Subtotal 14												
*15	LEVOIS	1	m	s	e	f	2	2	-0.03	646.64	13.73	0.4386
*15	LEVOIS	6	f	s	e	f	2	2	0.03	1627.60	11.95	0.2331
Subtotal 15												
17	MUSCAT	1	m	s	e	n	2	0	0.32	8.14	0.36	0.3546
17	MUSCAT	2	f	s	e	n	2	0	0.28	5.82	0.16	0.4970
Subtotal 17												
18	TUNSTA	2	c	t	c	n	2	4	0.29	77.54	2.44	0.0100
*19	STEENL	3	m	s	e	f	2	12	0.09	345.72	0.29	0.1091
*19	STEENL	4	f	s	e	f	2	13	0.04	314.64	1.82	0.4866
Subtotal 19												
20	JANGHO	1	f	s	e	n	2	0	0.32	27.39	1.17	0.0922
*21	KAWACH	11	f	h	c	b	2	15	0.43	9.45	0.91	0.1912
22	CIRUZZ	7	m	s	c	n	2	9	0.17	6.63	0.02	0.6699
22	CIRUZZ	8	f	s	c	n	2	9	0.55	8.71	1.63	0.1058
Subtotal 22												

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 43  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 Overall - adjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Ys	Ws	Qs	Ps
23	MCELDU	4	m	t	c	b	2	4	-0.20	24.21	2.38	0.3288
23	MCELDU	2	f	t	c	b	2	4	0.77	10.66	4.51	0.0124
Subtotal 23									0.10	34.87	6.89	
25	HE1	2	f	s	e	n	2	6	0.47	12.11	1.52	0.1020
26	IRIBAR	4	m	h	c	n	2	11	0.12	268.97	0.01	0.0450
26	IRIBAR	19	f	h	c	n	2	11	0.18	495.01	2.23	0.0000
Subtotal 26									0.16	763.97	2.24	
27	ROSENL	2	m	s	e	n	2	8	-0.04	23.37	0.57	0.8436
27	ROSENL	14	f	s	e	n	2	8	0.43	17.27	1.66	0.0772
Subtotal 27									0.16	40.64	2.23	
28	PITSAV	9	c	h	c	n	a	6	0.29	23.73	0.69	0.1648
30	CHEN	10	c	h	c	n	2	10	0.18	11.72	0.05	0.5326
31	NISHTA	3	c	s	e	n	1	1	0.87	5.64	3.19	0.0395
33	MCGHEE	1	m	h	p	f	2	2	0.26	24.91	0.54	0.1904
33	MCGHEE	2	f	h	p	f	2	2	0.33	26.31	1.21	0.0912
Subtotal 33									0.30	51.22	1.74	
*34	QURESH	1	f	s	m	b	2	7	0.05	54.13	0.24	0.7196
36	STRANG	22	m	h	e	n	2	0	-0.02	21.86	0.38	0.9391
36	STRANG	14	f	h	e	n	2	0	0.26	8.82	0.19	0.4361
Subtotal 36									0.06	30.68	0.57	
37	TEO	1	c	t	c	n	2	6	0.31	656.19	26.13	0.0000
*38	WEN	17	f	s	m	f	2	9	-0.01	37.13	0.58	0.9512
*40	HILL1	2	m	h	c	f	2	9	0.04	137.04	0.79	0.6461
*40	HILL1	4	f	h	c	f	2	9	-0.02	130.35	2.39	0.8176
Subtotal 40									0.01	267.40	3.18	
*41	HILL2	2	m	h	c	f	2	9	0.17	93.46	0.24	0.1096
*41	HILL2	4	f	h	c	f	2	9	0.24	55.32	0.85	0.0754
Subtotal 41									0.19	148.79	1.08	
42	HE2	8	f	t	t	n	4	12	0.52	59.24	9.93	0.0001
43	SULO	2	m	s	c	n	4	14	0.52	7.26	1.18	0.1622
43	SULO	4	f	s	c	n	4	14	0.17	1.58	0.01	0.8268
Subtotal 43									0.46	8.84	1.19	
44	VOZORI	2	c	t	c	n	4	7	0.00	93.46	1.24	1.0000
45	DING	2	f	h	e	n	2	11	0.42	23.43	2.16	0.0427
*46	GALLO	17	c	s	c	f	2	5	0.69	6.48	2.13	0.0798
*48	JEFFER	2	c	s	c	b	2	16	0.88	5.43	3.17	0.0403
*49	HE3	2	m	t	e	f	2	9	0.81	3.29	1.57	0.1433
*49	HE3	4	f	t	e	f	2	9	0.74	3.13	1.23	0.1894
Subtotal 49									0.78	6.42	2.80	

Relative risks

N	61
NS	41
Wt	6128.16
Het Chi	140.46
Het df	60
Het P	***
Fixed RR	1.12
RRl	1.09
RRu	1.15
P	+++
Random RR	1.20
RRl	1.13
RRu	1.26
P	+++
Asymm P	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 44  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 Overall - unadjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
*1	HIRAYA	3	f	s	e	f	2	0	376	69645	118	21895	1.00	( 0.82- 1.23)
*2	GARLAN	1	f	s	e	f	2	0	17	492	2	203	3.51	( 0.82- 15.04)
3	LEE	1	m	s	m	n	2	0	15	40	26	93	1.34	( 0.64- 2.80)
3	LEE	3	f	s	m	n	2	0	55	229	22	89	0.97	( 0.56- 1.69)
Subtotal 3														
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	1	m	s	c	b	2	0	21	286	48	959	1.47	( 0.89- 2.41)
*6	BUTLER	1	f	s	e	f	2	0	20	10579	60	43052	1.36	( 0.82- 2.25)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8														
9	JACKSO	3	m	h	c	b	2	0	-	-	-	-	1.10	( 0.40- 3.00)
9	JACKSO	1	f	h	c	b	2	0	-	-	-	-	4.00	( 1.35- 13.10)
Subtotal 9														
*10	SANDLE	1	m	h	c	f	2	0	122	1248	248	2914	1.15	( 0.93- 1.41)
*10	SANDLE	3	f	h	c	f	2	0	551	9551	437	5322	0.70	( 0.62- 0.79)
Subtotal 10														
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	3	m	h	c	b	2	0	22	34	161	259	1.04	( 0.59- 1.84)
12	DOBSON	1	f	h	c	b	2	0	43	99	117	433	1.61	( 1.06- 2.43)
Subtotal 12														
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47- 2.53)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52- 3.09)
Subtotal 13														
14	LAYARD	1	m	s	e	f	2	0	97	215	378	783	0.93	( 0.71- 1.22)
14	LAYARD	9	f	s	e	f	2	0	455	961	459	969	1.00	( 0.85- 1.17)
Subtotal 14														
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90- 1.05)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98- 1.08)
Subtotal 15														
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17														
18	TUNSTA	1	c	t	c	n	2	0	329	1216	99	483	1.32	( 1.03- 1.69)
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98- 1.21)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93- 1.16)
Subtotal 19														
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
22	CIRUZZ	5	m	s	c	n	2	0	15	22	141	206	1.00	( 0.50- 1.99)
22	CIRUZZ	6	f	s	c	n	2	0	29	25	151	193	1.48	( 0.83- 2.64)
Subtotal 22														
23	MCELDU	3	m	t	c	b	2	0	53	172	145	373	0.79	( 0.55- 1.14)
23	MCELDU	1	f	t	c	b	2	0	31	147	54	479	1.87	( 1.16- 3.02)
Subtotal 23														
25	HE1	1	f	s	e	n	2	0	76	95	39	113	2.32	( 1.44- 3.72)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26														
27	ROSENL	1	m	s	e	n	2	0	53	113	141	285	0.95	( 0.65- 1.39)
27	ROSENL	13	f	s	e	n	2	0	65	119	59	144	1.33	( 0.87- 2.05)
Subtotal 27														
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
33	MCGHEE	5	m	h	p	f	2	0	74	71	285	347	1.27	( 0.88- 1.82)
33	MCGHEE	6	f	h	p	f	2	0	113	150	112	195	1.31	( 0.94- 1.84)
Subtotal 33														
*34	QURESH	2	f	s	m	b	2	0	140	1823	79	1209	1.18	( 0.90- 1.53)
36	STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65- 1.50)
36	STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67- 2.51)
Subtotal 36														
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72- 1.37)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 44  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 Overall - unadjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed Case	Cont	Non-exposed Case	Cont	RR	95.00%CI
*40	HILL1	1	m	h	c	f	2	2	-	-	-	-	1.00	( 0.85- 1.18)
*40	HILL1	3	f	h	c	f	2	2	-	-	-	-	0.98	( 0.83- 1.15)
Subtotal 40														
*41	HILL2	1	m	h	c	f	2	2	-	-	-	-	1.07	( 0.86- 1.32)
*41	HILL2	3	f	h	c	f	2	2	-	-	-	-	1.26	( 0.98- 1.63)
Subtotal 41														
42	HE2	1	f	t	t	n	4	0	200	277	231	501	1.57	( 1.23- 1.99)
43	SULO	1	m	s	c	n	4	1	-	-	-	-	1.76	( 0.98- 3.18)
43	SULO	3	f	s	c	n	4	1	-	-	-	-	1.05	( 0.48- 2.30)
Subtotal 43														
44	VOZORI	1	c	t	c	n	4	0	293	11991	1480	34776	0.57	( 0.51- 0.65)
45	DING	1	f	h	e	n	2	0	95	65	219	254	1.70	( 1.18- 2.44)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	1	c	s	c	b	2	2	-	-	-	-	2.17	( 0.97- 4.84)
*49	HE3	1	m	t	e	f	2	0	14	271	5	168	1.74	( 0.64- 4.73)
*49	HE3	3	f	t	e	f	2	0	18	340	4	131	1.73	( 0.60- 5.03)
Subtotal 49														
Partial Totals									3778	111529	5639	117605		
*prospective study														

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Ys	Ws	Qs	Ps
*1	HIRAYA	3	f	s	e	f	2	0	0.00	90.30	0.37	0.9867
*2	GARLAN	1	f	s	e	f	2	0	1.25	1.81	2.56	0.0912
3	LEE	1	m	s	m	n	2	0	0.29	7.10	0.37	0.4340
3	LEE	3	f	s	m	n	2	0	-0.03	12.62	0.11	0.9185
Subtotal 3												
4	MARTIN	1	f	s	e	n	2	6	0.96	6.33	5.01	0.0162
*5	SVENDS	1	m	s	c	b	2	0	0.38	15.65	1.57	0.1296
*6	BUTLER	1	f	s	e	f	2	0	0.30	15.03	0.86	0.2372
*8	HOLE	3	m	h	e	f	2	5	0.55	13.29	3.09	0.0457
*8	HOLE	2	f	h	e	f	2	5	0.50	7.04	1.33	0.1838
Subtotal 8												
9	JACKSO	3	m	h	c	b	2	0	0.10	3.78	0.00	0.8529
9	JACKSO	1	f	h	c	b	2	0	1.39	2.98	5.19	0.0168
Subtotal 9												
*10	SANDLE	1	m	h	c	f	2	0	0.14	90.22	0.47	0.1881
*10	SANDLE	3	f	h	c	f	2	0	-0.35	262.43	46.09	0.0000
Subtotal 10												
*11	HUMBLE	1	f	s	c	f	8	4	0.46	16.88	2.67	0.0567
12	DOBSON	3	m	h	c	b	2	0	0.04	11.77	0.01	0.8905
12	DOBSON	1	f	h	c	b	2	0	0.47	22.62	3.77	0.0240
Subtotal 12												
13	LAVECC	2	m	s	e	n	2	0	0.09	5.43	0.00	0.8393
13	LAVECC	1	f	s	e	n	2	0	0.24	4.84	0.14	0.6013
Subtotal 13												
14	LAYARD	1	m	s	e	f	2	0	-0.07	52.96	0.95	0.6223
14	LAYARD	9	f	s	e	f	2	0	-0.00	155.06	0.69	0.9954
Subtotal 14												
*15	LEVOIS	1	m	s	e	f	2	2	-0.03	646.64	6.03	0.4386
*15	LEVOIS	6	f	s	e	f	2	2	0.03	1627.60	2.17	0.2331
Subtotal 15												
17	MUSCAT	1	m	s	e	n	2	0	0.32	8.14	0.54	0.3546
17	MUSCAT	2	f	s	e	n	2	0	0.28	5.82	0.27	0.4970
Subtotal 17												
18	TUNSTA	1	c	t	c	n	2	0	0.28	62.37	2.79	0.0283
*19	STEENL	3	m	s	e	f	2	12	0.09	345.72	0.14	0.1091
*19	STEENL	4	f	s	e	f	2	13	0.04	314.64	0.23	0.4866
Subtotal 19												
20	JANGHO	1	f	s	e	n	2	0	0.32	27.39	1.79	0.0922
*21	KAWACH	11	f	h	c	b	2	15	0.43	9.45	1.22	0.1912
22	CIRUZZ	5	m	s	c	n	2	0	-0.00	8.06	0.04	0.9912
22	CIRUZZ	6	f	s	c	n	2	0	0.39	11.59	1.24	0.1800
Subtotal 22												

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 44  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 Overall - unadjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Ys	Ws	Qs	Ps
23	MCELDU	3	m	t	c	b	2	0	-0.23	29.19	2.60	0.2093
23	MCELDU	1	f	t	c	b	2	0	0.63	16.76	5.26	0.0104
Subtotal 23									0.08	45.95	7.86	
25	HE1	1	f	s	e	n	2	0	0.84	17.19	10.31	0.0005
26	IRIBAR	4	m	h	c	n	2	11	0.12	268.97	0.85	0.0450
26	IRIBAR	19	f	h	c	n	2	11	0.18	495.01	6.69	0.0000
Subtotal 26									0.16	763.97	7.53	
27	ROSENL	1	m	s	e	n	2	0	-0.05	26.10	0.37	0.7851
27	ROSENL	13	f	s	e	n	2	0	0.29	20.97	1.03	0.1879
Subtotal 27									0.10	47.07	1.40	
28	PITSAV	9	c	h	c	n	a	6	0.29	23.73	1.14	0.1648
30	CHEN	10	c	h	c	n	2	10	0.18	11.72	0.16	0.5326
31	NISHTA	3	c	s	e	n	1	1	0.87	5.64	3.62	0.0395
33	MCGHEE	5	m	h	p	f	2	0	0.24	29.42	0.87	0.1963
33	MCGHEE	6	f	h	p	f	2	0	0.27	33.81	1.42	0.1147
Subtotal 33									0.26	63.24	2.29	
*34	QURESH	2	f	s	m	b	2	0	0.16	54.27	0.49	0.2341
36	STRANG	22	m	h	e	n	2	0	-0.02	21.86	0.15	0.9391
36	STRANG	14	f	h	e	n	2	0	0.26	8.82	0.34	0.4361
Subtotal 36									0.06	30.68	0.49	
37	TEO	1	c	t	c	n	2	6	0.31	656.19	40.59	0.0000
*38	WEN	17	f	s	m	f	2	9	-0.01	37.13	0.22	0.9512
*40	HILL1	1	m	h	c	f	2	2	0.00	142.80	0.62	1.0000
*40	HILL1	3	f	h	c	f	2	2	-0.02	144.50	1.08	0.8081
Subtotal 40									-0.01	287.30	1.70	
*41	HILL2	1	m	h	c	f	2	2	0.07	83.70	0.00	0.5359
*41	HILL2	3	f	h	c	f	2	2	0.23	59.36	1.62	0.0750
Subtotal 41									0.14	143.06	1.62	
42	HE2	1	f	t	t	n	4	0	0.45	66.96	9.79	0.0002
43	SULO	1	m	s	c	n	4	1	0.57	11.09	2.76	0.0598
43	SULO	3	f	s	c	n	4	1	0.05	6.26	0.00	0.9029
Subtotal 43									0.38	17.35	2.77	
44	VOZORI	1	c	t	c	n	4	0	-0.55	238.05	91.79	0.0000
45	DING	1	f	h	e	n	2	0	0.53	29.06	6.19	0.0044
*46	GALLO	17	c	s	c	f	2	5	0.69	6.48	2.51	0.0798
*48	JEFFER	1	c	s	c	b	2	2	0.77	5.95	2.99	0.0588
*49	HE3	1	m	t	e	f	2	0	0.55	3.82	0.90	0.2811
*49	HE3	3	f	t	e	f	2	0	0.55	3.39	0.79	0.3109
Subtotal 49									0.55	7.21	1.69	

Relative risks

N	61
NS	41
Wt	6423.74
Het Chi	288.87
Het df	60
Het P	***
Fixed RR	1.07
RRl	1.04
RRu	1.09
P	+++
Random RR	1.18
RRl	1.10
RRu	1.27
P	+++
Asymm P	**

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)



Table 45  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By sex - adjusted

combined

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80- 1.20)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
Partial Totals									0	0	0	0		
*prospective study														

male

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47- 2.53)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90- 1.05)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98- 1.21)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18	( 0.55- 2.52)
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82	( 0.55- 1.22)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
27	ROSENL	2	m	s	e	n	2	8	-	-	-	-	0.96	( 0.64- 1.44)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
36	STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65- 1.50)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81- 3.47)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
Partial Totals									185	416	142	314		
*prospective study														

female

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
*2	GARLAN	5	f	s	e	f	2	5	-	-	-	-	2.70	( 0.63- 11.58)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*6	BUTLER	2	f	s	e	f	2	1	-	-	-	-	1.07	( 0.65- 1.75)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52- 3.09)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98- 1.08)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93- 1.16)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73	( 0.89- 3.36)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15	( 1.18- 3.92)
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94- 2.90)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
27	ROSENL	14	f	s	e	n	2	8	-	-	-	-	1.53	( 0.95- 2.44)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95- 2.04)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 45  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By sex - adjusted

female

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81-	1.38)
36	STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67-	2.51)
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72-	1.37)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83-	1.17)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98-	1.66)
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31-	2.18)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25-	5.64)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01-	2.27)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69-	6.33)
Partial Totals									201	837	177	463			
*prospective study															

combined                      male                      female                      Total

Relative risks

N	8	21	32	61
NS	8	21	32	61
Wt	880.19	1789.80	3458.16	6128.16
Het Chi	13.19	24.36	70.99	140.46
Het df	7	20	31	60
Het P	(*)	N.S.	***	***
Fixed RR	1.33	1.06	1.10	1.12
RR1	1.25	1.02	1.07	1.09
RRu	1.42	1.11	1.14	1.15
P	+++	++	+++	+++
Random RR	1.32	1.09	1.23	1.20
RR1	1.14	1.02	1.14	1.13
RRu	1.54	1.16	1.33	1.26
P	+++	++	+++	+++
Asymm P	N.S.	*	***	***
Between Chi		29.96	24.56	31.92
Between df		1	1	2
Between P		---	---	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 46  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By sex - unadjusted

combined

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
18	TUNSTA	1	c	t	c	n	2	0	329	1216	99	483	1.32	( 1.03- 1.69)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
44	VOZORI	1	c	t	c	n	4	0	293	11991	1480	34776	0.57	( 0.51- 0.65)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	1	c	s	c	b	2	2	-	-	-	-	2.17	( 0.97- 4.84)
Partial Totals									622	13207	1579	35259		

\*prospective study

male

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
3	LEE	1	m	s	m	n	2	0	15	40	26	93	1.34	( 0.64- 2.80)
*5	SVENDS	1	m	s	c	b	2	0	21	286	48	959	1.47	( 0.89- 2.41)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
9	JACKSO	3	m	h	c	b	2	0	-	-	-	-	1.10	( 0.40- 3.00)
*10	SANDLE	1	m	h	c	f	2	0	122	1248	248	2914	1.15	( 0.93- 1.41)
12	DOBSON	3	m	h	c	b	2	0	22	34	161	259	1.04	( 0.59- 1.84)
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47- 2.53)
14	LAYARD	1	m	s	e	f	2	0	97	215	378	783	0.93	( 0.71- 1.22)
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90- 1.05)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98- 1.21)
22	CIRUZZ	5	m	s	c	n	2	0	15	22	141	206	1.00	( 0.50- 1.99)
23	MCELDU	3	m	t	c	b	2	0	53	172	145	373	0.79	( 0.55- 1.14)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
27	ROSEN1	1	m	s	e	n	2	0	53	113	141	285	0.95	( 0.65- 1.39)
33	MCGHEE	5	m	h	p	f	2	0	74	71	285	347	1.27	( 0.88- 1.82)
36	STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65- 1.50)
*40	HILL1	1	m	h	c	f	2	2	-	-	-	-	1.00	( 0.85- 1.18)
*41	HILL2	1	m	h	c	f	2	2	-	-	-	-	1.07	( 0.86- 1.32)
43	SULO	1	m	s	c	n	4	1	-	-	-	-	1.76	( 0.98- 3.18)
*49	HE3	1	m	t	e	f	2	0	14	271	5	168	1.74	( 0.64- 4.73)
Partial Totals									671	2888	1720	6701		

\*prospective study

female

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	3	f	s	e	f	2	0	376	69645	118	21895	1.00	( 0.82- 1.23)
*2	GARLAN	1	f	s	e	f	2	0	17	492	2	203	3.51	( 0.82- 15.04)
3	LEE	3	f	s	m	n	2	0	55	229	22	89	0.97	( 0.56- 1.69)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*6	BUTLER	1	f	s	e	f	2	0	20	10579	60	43052	1.36	( 0.82- 2.25)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
9	JACKSO	1	f	h	c	b	2	0	-	-	-	-	4.00	( 1.35- 13.10)
*10	SANDLE	3	f	h	c	f	2	0	551	9551	437	5322	0.70	( 0.62- 0.79)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	1	f	h	c	b	2	0	43	99	117	433	1.61	( 1.06- 2.43)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52- 3.09)
14	LAYARD	9	f	s	e	f	2	0	455	961	459	969	1.00	( 0.85- 1.17)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98- 1.08)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93- 1.16)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
22	CIRUZZ	6	f	s	c	n	2	0	29	25	151	193	1.48	( 0.83- 2.64)
23	MCELDU	1	f	t	c	b	2	0	31	147	54	479	1.87	( 1.16- 3.02)
25	HE1	1	f	s	e	n	2	0	76	95	39	113	2.32	( 1.44- 3.72)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
27	ROSEN1	13	f	s	e	n	2	0	65	119	59	144	1.33	( 0.87- 2.05)
33	MCGHEE	6	f	h	p	f	2	0	113	150	112	195	1.31	( 0.94- 1.84)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 46  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By sex - unadjusted

female

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI	
									Case	Cont	Case	Cont			
*34	QURESH	2	f	s	m	b	2	0	140	1823	79	1209	1.18	( 0.90-	1.53)
36	STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67-	2.51)
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72-	1.37)
*40	HILL1	3	f	h	c	f	2	2	-	-	-	-	0.98	( 0.83-	1.15)
*41	HILL2	3	f	h	c	f	2	2	-	-	-	-	1.26	( 0.98-	1.63)
42	HE2	1	f	t	t	n	4	0	200	277	231	501	1.57	( 1.23-	1.99)
43	SULO	3	f	s	c	n	4	1	-	-	-	-	1.05	( 0.48-	2.30)
45	DING	1	f	h	e	n	2	0	95	65	219	254	1.70	( 1.18-	2.44)
*49	HE3	3	f	t	e	f	2	0	18	340	4	131	1.73	( 0.60-	5.03)
Partial Totals									2485	95434	2340	75645			

\*prospective study

combined                      male                      female                      Total

Relative risks

N	8	21	32	61
NS	8	21	32	61
Wt	1010.13	1825.70	3587.91	6423.74
Het Chi	143.31	21.59	120.92	288.87
Het df	7	20	31	60
Het P	***	N.S.	***	***
Fixed RR	1.12	1.05	1.07	1.07
RR1	1.05	1.00	1.03	1.04
RRu	1.19	1.10	1.10	1.09
P	+++	(+)	+++	+++
Random RR	1.33	1.06	1.23	1.18
RR1	0.90	1.00	1.12	1.10
RRu	1.98	1.11	1.35	1.27
P	N.S.	+	+++	+++
Asymm P	N.S.	(*)	**	**
Between Chi		2.98	2.01	3.05
Between df		1	1	2
Between P		(-)	N.S.	N.S.

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 47  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By continent - adjusted

NAmerica

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
*2	GARLAN	5	f	s	e	f	2	5	-	-	-	-	2.70	( 0.63- 11.58)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)
*6	BUTLER	2	f	s	e	f	2	1	-	-	-	-	1.07	( 0.65- 1.75)
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
Subtotal 10														
													1.22	( 1.09- 1.37)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
Subtotal 14														
													0.98	( 0.86- 1.13)
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90- 1.05)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98- 1.08)
Subtotal 15														
													1.01	( 0.97- 1.06)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17														
													1.36	( 0.80- 2.30)
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98- 1.21)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93- 1.16)
Subtotal 19														
													1.07	( 0.99- 1.15)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26														
													1.17	( 1.09- 1.26)
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81- 1.38)
36	STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65- 1.50)
36	STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67- 2.51)
Subtotal 36														
													1.07	( 0.75- 1.52)
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80- 1.20)
Partial Totals									282	1093	116	320		
*prospective study														

Europe

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
Subtotal 3														
													1.03	( 0.65- 1.62)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8														
													1.70	( 1.10- 2.63)
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47- 2.53)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52- 3.09)
Subtotal 13														
													1.17	( 0.64- 2.16)
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
27	ROSENL	2	m	s	e	n	2	8	-	-	-	-	0.96	( 0.64- 1.44)
27	ROSENL	14	f	s	e	n	2	8	-	-	-	-	1.53	( 0.95- 2.44)
Subtotal 27														
													1.17	( 0.86- 1.59)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81- 3.47)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25- 5.64)
Subtotal 43														
													1.58	( 0.82- 3.05)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
Partial Totals									41	60	66	157		
*prospective study														

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 47  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By continent - adjusted

Asia

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94- 2.90)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95- 2.04)
Subtotal 33													1.35	( 1.02- 1.77)
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72- 1.37)
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31- 2.18)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01- 2.27)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69- 6.33)
Subtotal 49													2.17	( 1.00- 4.70)
Partial Totals									63	100	137	300		
*prospective study														

Other

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
Subtotal 9													1.80	( 0.84- 3.87)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
Subtotal 12													1.72	( 1.15- 2.59)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18	( 0.55- 2.52)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73	( 0.89- 3.36)
Subtotal 22													1.47	( 0.89- 2.42)
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82	( 0.55- 1.22)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15	( 1.18- 3.92)
Subtotal 23													1.10	( 0.79- 1.53)
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83- 1.17)
Subtotal 40													1.01	( 0.90- 1.14)
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98- 1.66)
Subtotal 41													1.21	( 1.03- 1.42)
Partial Totals									0	0	0	0		
*prospective study														

NAmerica      Europe      Asia      Other      Total

Relative risks

N	22	15	11	13	61
NS	15	10	9	7	41
Wt	4442.22	223.62	309.87	1152.45	6128.16
Het Chi	37.67	9.38	12.59	37.12	140.46
Het df	21	14	10	12	60
Het P	*	N.S.	N.S.	***	***
Fixed RR	1.07	1.33	1.35	1.26	1.12
RRl	1.04	1.17	1.21	1.19	1.09
RRu	1.10	1.52	1.51	1.33	1.15
P	+++	+++	+++	+++	+++
Random RR	1.09	1.33	1.37	1.24	1.20
RRl	1.04	1.17	1.20	1.07	1.13
RRu	1.15	1.52	1.57	1.44	1.26
P	+++	+++	+++	++	+++
Asymm P	*	N.S.	(*)	N.S.	***
Between Chi		10.60	16.15	24.82	43.69
Between df		1	1	1	3
Between P		++	+++	+++	***

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 48  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By continent - unadjusted

NAmerica

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*2	GARLAN	1	f	s	e	f	2	0	17	492	2	203	3.51	( 0.82- 15.04)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	1	m	s	c	b	2	0	21	286	48	959	1.47	( 0.89- 2.41)
*6	BUTLER	1	f	s	e	f	2	0	20	10579	60	43052	1.36	( 0.82- 2.25)
*10	SANDLE	1	m	h	c	f	2	0	122	1248	248	2914	1.15	( 0.93- 1.41)
*10	SANDLE	3	f	h	c	f	2	0	551	9551	437	5322	0.70	( 0.62- 0.79)
Subtotal 10														
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
14	LAYARD	1	m	s	e	f	2	0	97	215	378	783	0.93	( 0.71- 1.22)
14	LAYARD	9	f	s	e	f	2	0	455	961	459	969	1.00	( 0.85- 1.17)
Subtotal 14														
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90- 1.05)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98- 1.08)
Subtotal 15														
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17														
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98- 1.21)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93- 1.16)
Subtotal 19														
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26														
*34	QURESH	2	f	s	m	b	2	0	140	1823	79	1209	1.18	( 0.90- 1.53)
36	STRANG	22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65- 1.50)
36	STRANG	14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67- 2.51)
Subtotal 36														
44	VOZORI	1	c	t	c	n	4	0	293	11991	1480	34776	0.57	( 0.51- 0.65)
Partial Totals									1998	38239	3307	90507		
*prospective study														

Europe

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
3	LEE	1	m	s	m	n	2	0	15	40	26	93	1.34	( 0.64- 2.80)
3	LEE	3	f	s	m	n	2	0	55	229	22	89	0.97	( 0.56- 1.69)
Subtotal 3														
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8														
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47- 2.53)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52- 3.09)
Subtotal 13														
18	TUNSTA	1	c	t	c	n	2	0	329	1216	99	483	1.32	( 1.03- 1.69)
27	ROSENL	1	m	s	e	n	2	0	53	113	141	285	0.95	( 0.65- 1.39)
27	ROSENL	13	f	s	e	n	2	0	65	119	59	144	1.33	( 0.87- 2.05)
Subtotal 27														
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
43	SULO	1	m	s	c	n	4	1	-	-	-	-	1.76	( 0.98- 3.18)
43	SULO	3	f	s	c	n	4	1	-	-	-	-	1.05	( 0.48- 2.30)
Subtotal 43														
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	1	c	s	c	b	2	2	-	-	-	-	2.17	( 0.97- 4.84)
Partial Totals									558	1777	413	1251		
*prospective study														

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 48  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By continent - unadjusted

Asia														
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
*1	HIRAYA	3	f	s	e	f	2	0	376	69645	118	21895	1.00	( 0.82- 1.23)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
25	HE1	1	f	s	e	n	2	0	76	95	39	113	2.32	( 1.44- 3.72)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
33	MCGHEE	5	m	h	p	f	2	0	74	71	285	347	1.27	( 0.88- 1.82)
33	MCGHEE	6	f	h	p	f	2	0	113	150	112	195	1.31	( 0.94- 1.84)
Subtotal 33													1.29	( 1.01- 1.65)
*38	WEN	17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72- 1.37)
42	HE2	1	f	t	t	n	4	0	200	277	231	501	1.57	( 1.23- 1.99)
45	DING	1	f	h	e	n	2	0	95	65	219	254	1.70	( 1.18- 2.44)
*49	HE3	1	m	t	e	f	2	0	14	271	5	168	1.74	( 0.64- 4.73)
*49	HE3	3	f	t	e	f	2	0	18	340	4	131	1.73	( 0.60- 5.03)
Subtotal 49													1.73	( 0.84- 3.60)
Partial Totals									1029	71014	1150	23904		
*prospective study														

Other														
StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
9	JACKSO	3	m	h	c	b	2	0	-	-	-	-	1.10	( 0.40- 3.00)
9	JACKSO	1	f	h	c	b	2	0	-	-	-	-	4.00	( 1.35- 13.10)
Subtotal 9													1.94	( 0.91- 4.13)
12	DOBSON	3	m	h	c	b	2	0	22	34	161	259	1.04	( 0.59- 1.84)
12	DOBSON	1	f	h	c	b	2	0	43	99	117	433	1.61	( 1.06- 2.43)
Subtotal 12													1.39	( 0.99- 1.93)
22	CIRUZZ	5	m	s	c	n	2	0	15	22	141	206	1.00	( 0.50- 1.99)
22	CIRUZZ	6	f	s	c	n	2	0	29	25	151	193	1.48	( 0.83- 2.64)
Subtotal 22													1.26	( 0.81- 1.96)
23	MCELDU	3	m	t	c	b	2	0	53	172	145	373	0.79	( 0.55- 1.14)
23	MCELDU	1	f	t	c	b	2	0	31	147	54	479	1.87	( 1.16- 3.02)
Subtotal 23													1.08	( 0.81- 1.45)
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*40	HILL1	1	m	h	c	f	2	2	-	-	-	-	1.00	( 0.85- 1.18)
*40	HILL1	3	f	h	c	f	2	2	-	-	-	-	0.98	( 0.83- 1.15)
Subtotal 40													0.99	( 0.88- 1.11)
*41	HILL2	1	m	h	c	f	2	2	-	-	-	-	1.07	( 0.86- 1.32)
*41	HILL2	3	f	h	c	f	2	2	-	-	-	-	1.26	( 0.98- 1.63)
Subtotal 41													1.15	( 0.97- 1.35)
Partial Totals									193	499	769	1943		
*prospective study														

NAmerica      Europe      Asia      Other      Total

Relative risks

N	22	15	11	13	61
NS	15	10	9	7	41
Wt	4661.34	224.99	344.11	1193.30	6423.74
Het Chi	154.40	9.48	21.75	38.34	288.87
Het df	21	14	10	12	60
Het P	***	N.S.	*	***	***
Fixed RR	1.01	1.31	1.31	1.23	1.07
RRl	0.98	1.15	1.18	1.16	1.04
RRu	1.03	1.49	1.46	1.30	1.09
P	N.S.	+++	+++	+++	+++
Random RR	1.05	1.31	1.39	1.18	1.18
RRl	0.95	1.15	1.17	1.03	1.10
RRu	1.17	1.49	1.66	1.37	1.27
P	N.S.	+++	+++	+	+++
Asymm P	N.S.	N.S.	(*)	N.S.	**
Between Chi		15.02	22.77	38.74	64.90
Between df		1	1	1	3
Between P		+++	+++	+++	***

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)



Table 49  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By publication year (grouped) - adjusted

1984-89

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
*2	GARLAN	5	f	s	e	f	2	5	-	-	-	-	2.70	( 0.63- 11.58)
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
Subtotal 3													1.03	( 0.65- 1.62)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)
*6	BUTLER	2	f	s	e	f	2	1	-	-	-	-	1.07	( 0.65- 1.75)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8													1.70	( 1.10- 2.63)
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
Subtotal 9													1.80	( 0.84- 3.87)
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
Subtotal 10													1.22	( 1.09- 1.37)
Partial Totals									0	0	0	0		
*prospective study														

1990-97

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
Subtotal 12													1.72	( 1.15- 2.59)
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47- 2.53)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52- 3.09)
Subtotal 13													1.17	( 0.64- 2.16)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
Subtotal 14													0.98	( 0.86- 1.13)
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90- 1.05)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98- 1.08)
Subtotal 15													1.01	( 0.97- 1.06)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17													1.36	( 0.80- 2.30)
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98- 1.21)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93- 1.16)
Subtotal 19													1.07	( 0.99- 1.15)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
Partial Totals									152	212	269	563		
*prospective study														

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 49  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By publication year (grouped) - adjusted

1998-04

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
22	CIRUZZ 7	m	s	c	n	2	9	-	-	-	-	1.18 ( 0.55- 2.52)	
22	CIRUZZ 8	f	s	c	n	2	9	-	-	-	-	1.73 ( 0.89- 3.36)	
Subtotal 22													
23	MCELDU 4	m	t	c	b	2	4	-	-	-	-	0.82 ( 0.55- 1.22)	
23	MCELDU 2	f	t	c	b	2	4	-	-	-	-	2.15 ( 1.18- 3.92)	
Subtotal 23													
25	HE1 2	f	s	e	n	2	6	-	-	-	-	1.60 ( 0.94- 2.90)	
26	IRIBAR 4	m	h	c	n	2	11	-	-	-	-	1.13 ( 1.00- 1.27)	
26	IRIBAR 19	f	h	c	n	2	11	-	-	-	-	1.20 ( 1.09- 1.30)	
Subtotal 26													
27	ROSENL 2	m	s	e	n	2	8	-	-	-	-	0.96 ( 0.64- 1.44)	
27	ROSENL 14	f	s	e	n	2	8	-	-	-	-	1.53 ( 0.95- 2.44)	
Subtotal 27													
28	PITSAV 9	c	h	c	n	a	6	-	-	-	-	1.33 ( 0.89- 1.99)	
30	CHEN 10	c	h	c	n	2	10	-	-	-	-	1.20 ( 0.70- 2.20)	
31	NISHTA 3	c	s	e	n	1	1	-	-	-	-	2.38 ( 1.04- 5.42)	
Partial Totals								0	0	0	0		

\*prospective study

2005-07

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
33	MCGHEE 1	m	h	p	f	2	2	-	-	-	-	1.30 ( 0.88- 1.93)	
33	MCGHEE 2	f	h	p	f	2	2	-	-	-	-	1.39 ( 0.95- 2.04)	
Subtotal 33													
*34	QURESH 1	f	s	m	b	2	7	-	-	-	-	1.05 ( 0.81- 1.38)	
36	STRANG 22	m	h	e	n	2	0	156	370	39	91	0.98 ( 0.65- 1.50)	
36	STRANG 14	f	h	e	n	2	0	78	671	11	123	1.30 ( 0.67- 2.51)	
Subtotal 36													
37	TEO 1	c	t	c	n	2	6	-	-	-	-	1.37 ( 1.27- 1.48)	
*38	WEN 17	f	s	m	f	2	9	-	-	-	-	0.99 ( 0.72- 1.37)	
*40	HILL1 2	m	h	c	f	2	9	-	-	-	-	1.04 ( 0.88- 1.23)	
*40	HILL1 4	f	h	c	f	2	9	-	-	-	-	0.98 ( 0.83- 1.17)	
Subtotal 40													
*41	HILL2 2	m	h	c	f	2	9	-	-	-	-	1.18 ( 0.96- 1.44)	
*41	HILL2 4	f	h	c	f	2	9	-	-	-	-	1.27 ( 0.98- 1.66)	
Subtotal 41													
Partial Totals								234	1041	50	214		

\*prospective study

2008 onwards

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
42	HE2 8	f	t	t	n	4	12	-	-	-	-	1.69 ( 1.31- 2.18)	
43	SULO 2	m	s	c	n	4	14	-	-	-	-	1.68 ( 0.81- 3.47)	
43	SULO 4	f	s	c	n	4	14	-	-	-	-	1.19 ( 0.25- 5.64)	
Subtotal 43													
44	VOZORI 2	c	t	c	n	4	7	-	-	-	-	1.00 ( 0.80- 1.20)	
45	DING 2	f	h	e	n	2	11	-	-	-	-	1.52 ( 1.01- 2.27)	
*46	GALLO 17	c	s	c	f	2	5	-	-	-	-	1.99 ( 0.92- 4.29)	
*48	JEFFER 2	c	s	c	b	2	16	-	-	-	-	2.41 ( 1.04- 5.59)	
*49	HE3 2	m	t	e	f	2	9	-	-	-	-	2.24 ( 0.76- 6.59)	
*49	HE3 4	f	t	e	f	2	9	-	-	-	-	2.10 ( 0.69- 6.33)	
Subtotal 49													
Partial Totals								0	0	0	0		

\*prospective study

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 49  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By publication year (grouped) - adjusted

	1984-89	1990-97	1998-04	2005-07	2008 onwa	Total
Relative risks						
N	13	16	12	11	9	61
NS	9	10	8	7	7	41
Wt	461.70	3309.60	908.01	1245.54	203.31	6128.16
Het Chi	13.35	28.19	15.29	23.12	16.35	140.46
Het df	12	15	11	10	8	60
Het P	N.S.	*	N.S.	*	*	***
Fixed RR	1.25	1.04	1.19	1.23	1.34	1.12
RRl	1.14	1.01	1.12	1.16	1.17	1.09
RRu	1.37	1.08	1.27	1.30	1.53	1.15
P	+++	+	+++	+++	+++	+++
Random RR	1.27	1.09	1.21	1.15	1.54	1.20
RRl	1.13	1.01	1.09	1.04	1.19	1.13
RRu	1.41	1.16	1.36	1.28	1.99	1.26
P	+++	+	+++	++	++	+++
Asymm P	*	*	N.S.	N.S.	(*)	***
Between Chi		13.35	0.66	0.07	0.70	44.15
Between df		1	1	1	1	4
Between P		---	N.S.	N.S.	N.S.	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 50  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By publication year (grouped) - unadjusted

1984-89

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	3	f	s	e	f	2	0	376	69645	118	21895	1.00	( 0.82- 1.23)
*2	GARLAN	1	f	s	e	f	2	0	17	492	2	203	3.51	( 0.82- 15.04)
3	LEE	1	m	s	m	n	2	0	15	40	26	93	1.34	( 0.64- 2.80)
3	LEE	3	f	s	m	n	2	0	55	229	22	89	0.97	( 0.56- 1.69)
Subtotal 3													1.09	( 0.70- 1.70)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	1	m	s	c	b	2	0	21	286	48	959	1.47	( 0.89- 2.41)
*6	BUTLER	1	f	s	e	f	2	0	20	10579	60	43052	1.36	( 0.82- 2.25)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8													1.70	( 1.10- 2.63)
9	JACKSO	3	m	h	c	b	2	0	-	-	-	-	1.10	( 0.40- 3.00)
9	JACKSO	1	f	h	c	b	2	0	-	-	-	-	4.00	( 1.35- 13.10)
Subtotal 9													1.94	( 0.91- 4.13)
*10	SANDLE	1	m	h	c	f	2	0	122	1248	248	2914	1.15	( 0.93- 1.41)
*10	SANDLE	3	f	h	c	f	2	0	551	9551	437	5322	0.70	( 0.62- 0.79)
Subtotal 10													0.80	( 0.72- 0.88)
Partial Totals									1177	92070	961	74527		
*prospective study														

1990-97

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	3	m	h	c	b	2	0	22	34	161	259	1.04	( 0.59- 1.84)
12	DOBSON	1	f	h	c	b	2	0	43	99	117	433	1.61	( 1.06- 2.43)
Subtotal 12													1.39	( 0.99- 1.93)
13	LAVECC	2	m	s	e	n	2	0	9	21	55	140	1.09	( 0.47- 2.53)
13	LAVECC	1	f	s	e	n	2	0	32	39	11	17	1.27	( 0.52- 3.09)
Subtotal 13													1.17	( 0.64- 2.16)
14	LAYARD	1	m	s	e	f	2	0	97	215	378	783	0.93	( 0.71- 1.22)
14	LAYARD	9	f	s	e	f	2	0	455	961	459	969	1.00	( 0.85- 1.17)
Subtotal 14													0.98	( 0.86- 1.13)
*15	LEVOIS	1	m	s	e	f	2	2	-	-	-	-	0.97	( 0.90- 1.05)
*15	LEVOIS	6	f	s	e	f	2	2	-	-	-	-	1.03	( 0.98- 1.08)
Subtotal 15													1.01	( 0.97- 1.06)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17													1.36	( 0.80- 2.30)
18	TUNSTA	1	c	t	c	n	2	0	329	1216	99	483	1.32	( 1.03- 1.69)
*19	STEENL	3	m	s	e	f	2	12	-	-	-	-	1.09	( 0.98- 1.21)
*19	STEENL	4	f	s	e	f	2	13	-	-	-	-	1.04	( 0.93- 1.16)
Subtotal 19													1.07	( 0.99- 1.15)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
Partial Totals									1098	2737	1483	3490		
*prospective study														

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 50  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By publication year (grouped) - unadjusted

1998-04

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
22	CIRUZZ 5	m	s	c	n	2	0	15	22	141	206	1.00	( 0.50- 1.99)
22	CIRUZZ 6	f	s	c	n	2	0	29	25	151	193	1.48	( 0.83- 2.64)
Subtotal 22												1.26	( 0.81- 1.96)
23	MCELDU 3	m	t	c	b	2	0	53	172	145	373	0.79	( 0.55- 1.14)
23	MCELDU 1	f	t	c	b	2	0	31	147	54	479	1.87	( 1.16- 3.02)
Subtotal 23												1.08	( 0.81- 1.45)
25	HE1 1	f	s	e	n	2	0	76	95	39	113	2.32	( 1.44- 3.72)
26	IRIBAR 4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR 19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26												1.17	( 1.09- 1.26)
27	ROSENL 1	m	s	e	n	2	0	53	113	141	285	0.95	( 0.65- 1.39)
27	ROSENL 13	f	s	e	n	2	0	65	119	59	144	1.33	( 0.87- 2.05)
Subtotal 27												1.10	( 0.83- 1.47)
28	PITSAV 9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN 10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA 3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
Partial Totals								322	693	730	1793		

\*prospective study

2005-07

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
33	MCGHEE 5	m	h	p	f	2	0	74	71	285	347	1.27	( 0.88- 1.82)
33	MCGHEE 6	f	h	p	f	2	0	113	150	112	195	1.31	( 0.94- 1.84)
Subtotal 33												1.29	( 1.01- 1.65)
*34	QURESH 2	f	s	m	b	2	0	140	1823	79	1209	1.18	( 0.90- 1.53)
36	STRANG 22	m	h	e	n	2	0	156	370	39	91	0.98	( 0.65- 1.50)
36	STRANG 14	f	h	e	n	2	0	78	671	11	123	1.30	( 0.67- 2.51)
Subtotal 36												1.07	( 0.75- 1.52)
37	TEO 1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*38	WEN 17	f	s	m	f	2	9	-	-	-	-	0.99	( 0.72- 1.37)
*40	HILL1 1	m	h	c	f	2	2	-	-	-	-	1.00	( 0.85- 1.18)
*40	HILL1 3	f	h	c	f	2	2	-	-	-	-	0.98	( 0.83- 1.15)
Subtotal 40												0.99	( 0.88- 1.11)
*41	HILL2 1	m	h	c	f	2	2	-	-	-	-	1.07	( 0.86- 1.32)
*41	HILL2 3	f	h	c	f	2	2	-	-	-	-	1.26	( 0.98- 1.63)
Subtotal 41												1.15	( 0.97- 1.35)
Partial Totals								561	3085	526	1965		

\*prospective study

2008 onwards

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
42	HE2 1	f	t	t	n	4	0	200	277	231	501	1.57	( 1.23- 1.99)
43	SULO 1	m	s	c	n	4	1	-	-	-	-	1.76	( 0.98- 3.18)
43	SULO 3	f	s	c	n	4	1	-	-	-	-	1.05	( 0.48- 2.30)
Subtotal 43												1.46	( 0.91- 2.34)
44	VOZORI 1	c	t	c	n	4	0	293	11991	1480	34776	0.57	( 0.51- 0.65)
45	DING 1	f	h	e	n	2	0	95	65	219	254	1.70	( 1.18- 2.44)
*46	GALLO 17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER 1	c	s	c	b	2	2	-	-	-	-	2.17	( 0.97- 4.84)
*49	HE3 1	m	t	e	f	2	0	14	271	5	168	1.74	( 0.64- 4.73)
*49	HE3 3	f	t	e	f	2	0	18	340	4	131	1.73	( 0.60- 5.03)
Subtotal 49												1.73	( 0.84- 3.60)
Partial Totals								620	12944	1939	35830		

\*prospective study

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 50  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Ever (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By publication year (grouped) - unadjusted

	1984-89	1990-97	1998-04	2005-07	2008 onwa	Total
Relative risks						
N	13	16	12	11	9	61
NS	9	10	8	7	7	41
Wt	528.57	3317.33	934.92	1271.88	371.05	6423.74
Het Chi	55.22	20.56	22.08	25.86	95.10	288.87
Het df	12	15	11	10	8	60
Het P	***	N.S.	*	**	***	***
Fixed RR	0.92	1.04	1.19	1.22	0.83	1.07
RRl	0.84	1.00	1.12	1.15	0.75	1.04
RRu	1.00	1.07	1.27	1.29	0.92	1.09
P	(-)	+	+++	+++	---	+++
Random RR	1.30	1.06	1.24	1.14	1.44	1.18
RRl	1.01	1.00	1.09	1.02	0.89	1.10
RRu	1.66	1.12	1.42	1.28	2.34	1.27
P	+	+	++	+	N.S.	+++
Asymm P	***	**	N.S.	N.S.	*	**
Between Chi		6.58	22.66	29.18	2.07	70.05
Between df		1	1	1	1	4
Between P		+	+++	+++	N.S.	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 51  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 Overall - adjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
*2	GARLAN	4	f	s	c	f	8	1	-	-	-	-	2.25	( 0.32- 15.74)
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
Subtotal 3														
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)
*6	BUTLER	4	f	s	c	f	8	1	-	-	-	-	1.40	( 0.51- 3.84)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8														
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
Subtotal 9														
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
Subtotal 10														
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
Subtotal 12														
13	LAVECC	6	m	s	c	n	8	8	-	-	-	-	1.09	( 0.39- 3.01)
13	LAVECC	4	f	s	c	n	8	8	-	-	-	-	1.36	( 0.46- 4.05)
Subtotal 13														
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
Subtotal 14														
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91- 1.06)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99- 1.09)
Subtotal 15														
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17														
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07- 1.40)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96- 1.27)
Subtotal 19														
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18	( 0.55- 2.52)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73	( 0.89- 3.36)
Subtotal 22														
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82	( 0.55- 1.22)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15	( 1.18- 3.92)
Subtotal 23														
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94- 2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26														
27	ROSENL	4	m	s	c	n	8	8	-	-	-	-	0.98	( 0.57- 1.69)
27	ROSENL	16	f	s	c	n	8	8	-	-	-	-	2.59	( 1.27- 5.29)
Subtotal 27														
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95- 2.04)
Subtotal 33														
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81- 1.38)
36	STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40- 1.23)
36	STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48- 1.82)
Subtotal 36														
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*38	WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84- 1.67)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 51  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 Overall - adjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed Case	Cont	Non-exposed Case	Cont	RR	95.00%CI
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83- 1.17)
Subtotal 40														
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98- 1.66)
Subtotal 41														
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31- 2.18)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81- 3.47)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25- 5.64)
Subtotal 43														
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80- 1.20)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01- 2.27)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69- 6.33)
Subtotal 49														
Partial Totals									140	314	458	1499		
*prospective study														

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Ys	Ws	Qs	Ps
*1	HIRAYA	6	f	s	e	f	2	1	0.15	87.29	0.04	0.1655
*2	GARLAN	4	f	s	c	f	8	1	0.81	1.01	0.47	0.4145
3	LEE	2	m	s	m	n	2	2	0.22	6.59	0.05	0.5808
3	LEE	4	f	s	m	n	2	2	-0.07	12.04	0.48	0.8012
Subtotal 3												
4	MARTIN	1	f	s	e	n	2	6	0.96	6.33	4.34	0.0162
*5	SVENDS	2	m	s	c	b	2	6	0.48	14.27	1.74	0.0720
*6	BUTLER	4	f	s	c	f	8	1	0.34	3.77	0.17	0.5135
*8	HOLE	3	m	h	e	f	2	5	0.55	13.29	2.35	0.0457
*8	HOLE	2	f	h	e	f	2	5	0.50	7.04	0.98	0.1838
Subtotal 8												
9	JACKSO	4	m	h	c	b	2	2	0.06	3.80	0.02	0.9095
9	JACKSO	2	f	h	c	b	2	2	1.32	2.76	3.92	0.0285
Subtotal 9												
*10	SANDLE	2	m	h	c	f	2	4	0.27	77.28	1.58	0.0176
*10	SANDLE	4	f	h	c	f	2	4	0.17	213.52	0.47	0.0110
Subtotal 10												
*11	HUMBLE	1	f	s	c	f	8	4	0.46	16.88	1.91	0.0567
12	DOBSON	4	m	h	c	b	2	2	-0.03	8.90	0.22	0.9276
12	DOBSON	2	f	h	c	b	2	2	0.90	14.40	8.60	0.0006
Subtotal 12												
13	LAVECC	6	m	s	c	n	8	8	0.09	3.68	0.01	0.8687
13	LAVECC	4	f	s	c	n	8	8	0.31	3.25	0.11	0.5795
Subtotal 13												
14	LAYARD	2	m	s	e	f	2	2	-0.03	48.72	1.21	0.8316
14	LAYARD	10	f	s	e	f	2	2	-0.01	147.49	2.78	0.9029
Subtotal 14												
*15	LEVOIS	2	m	s	c	f	8	2	-0.02	660.03	14.35	0.6037
*15	LEVOIS	7	f	s	c	f	8	2	0.04	1659.41	12.85	0.1101
Subtotal 15												
17	MUSCAT	1	m	s	e	n	2	0	0.32	8.14	0.32	0.3546
17	MUSCAT	2	f	s	e	n	2	0	0.28	5.82	0.14	0.4970
Subtotal 17												
18	TUNSTA	2	c	t	c	n	2	4	0.29	77.54	2.12	0.0100
*19	STEENL	1	m	s	c	f	8	12	0.20	212.64	1.09	0.0037
*19	STEENL	2	f	s	c	f	8	13	0.10	196.22	0.20	0.1818
Subtotal 19												
20	JANGHO	1	f	s	e	n	2	0	0.32	27.39	1.04	0.0922
*21	KAWACH	11	f	h	c	b	2	15	0.43	9.45	0.84	0.1912
22	CIRUZZ	7	m	s	c	n	2	9	0.17	6.63	0.01	0.6699
22	CIRUZZ	8	f	s	c	n	2	9	0.55	8.71	1.54	0.1058
Subtotal 22												

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)



Table 51  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 Overall - adjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Ys	Ws	Qs	Ps
23	MCELDU	4	m	t	c	b	2	4	-0.20	24.21	2.57	0.3288
23	MCELDU	2	f	t	c	b	2	4	0.77	10.66	4.34	0.0124
Subtotal 23									0.10	34.87	6.91	
25	HE1	2	f	s	e	n	2	6	0.47	12.11	1.42	0.1020
26	IRIBAR	4	m	h	c	n	2	11	0.12	268.97	0.01	0.0450
26	IRIBAR	19	f	h	c	n	2	11	0.18	495.01	1.50	0.0000
Subtotal 26									0.16	763.97	1.51	
27	ROSENL	4	m	s	c	n	8	8	-0.02	13.01	0.28	0.9419
27	ROSENL	16	f	s	c	n	8	8	0.95	7.55	5.13	0.0089
Subtotal 27									0.34	20.56	5.41	
28	PITSAV	9	c	h	c	n	a	6	0.29	23.73	0.59	0.1648
30	CHEN	10	c	h	c	n	2	10	0.18	11.72	0.04	0.5326
31	NISHTA	3	c	s	e	n	1	1	0.87	5.64	3.09	0.0395
33	MCGHEE	1	m	h	p	f	2	2	0.26	24.91	0.45	0.1904
33	MCGHEE	2	f	h	p	f	2	2	0.33	26.31	1.07	0.0912
Subtotal 33									0.30	51.22	1.53	
*34	QURESH	1	f	s	m	b	2	7	0.05	54.13	0.33	0.7196
36	STRANG	25	m	h	c	n	2	0	-0.35	12.36	2.78	0.2222
36	STRANG	17	f	h	c	n	2	0	-0.07	8.71	0.33	0.8444
Subtotal 36									-0.23	21.07	3.11	
37	TEO	1	c	t	c	n	2	6	0.31	656.19	23.09	0.0000
*38	WEN	18	f	s	c	f	2	9	0.17	32.54	0.07	0.3211
*40	HILL1	2	m	h	c	f	2	9	0.04	137.04	1.06	0.6461
*40	HILL1	4	f	h	c	f	2	9	-0.02	130.35	2.83	0.8176
Subtotal 40									0.01	267.40	3.90	
*41	HILL2	2	m	h	c	f	2	9	0.17	93.46	0.14	0.1096
*41	HILL2	4	f	h	c	f	2	9	0.24	55.32	0.69	0.0754
Subtotal 41									0.19	148.79	0.83	
42	HE2	8	f	t	t	n	4	12	0.52	59.24	9.36	0.0001
43	SULO	2	m	s	c	n	4	14	0.52	7.26	1.11	0.1622
43	SULO	4	f	s	c	n	4	14	0.17	1.58	0.00	0.8268
Subtotal 43									0.46	8.84	1.12	
44	VOZORI	2	c	t	c	n	4	7	0.00	93.46	1.51	1.0000
45	DING	2	f	h	e	n	2	11	0.42	23.43	1.99	0.0427
*46	GALLO	17	c	s	c	f	2	5	0.69	6.48	2.04	0.0798
*48	JEFFER	2	c	s	c	b	2	16	0.88	5.43	3.08	0.0403
*49	HE3	2	m	t	e	f	2	9	0.81	3.29	1.52	0.1433
*49	HE3	4	f	t	e	f	2	9	0.74	3.13	1.18	0.1894
Subtotal 49									0.78	6.42	2.70	

Relative risks

N	61
NS	41
Wt	5871.54
Het Chi	139.56
Het df	60
Het P	***
Fixed RR	1.14
RRl	1.11
RRu	1.17
P	+++
Random RR	1.21
RRl	1.15
RRu	1.28
P	+++
Asymm P	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 52  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 Overall - unadjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Case	Cont	Case	Cont	RR	95.00%CI
*1	HIRAYA	3	f	s	e	f	2	0	376	69645	118	21895	1.00	( 0.82- 1.23)
*2	GARLAN	2	f	s	c	f	8	0	2	97	2	203	2.09	( 0.30- 14.64)
3	LEE	1	m	s	m	n	2	0	15	40	26	93	1.34	( 0.64- 2.80)
3	LEE	3	f	s	m	n	2	0	55	229	22	89	0.97	( 0.56- 1.69)
Subtotal 3														
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	1	m	s	c	b	2	0	21	286	48	959	1.47	( 0.89- 2.41)
*6	BUTLER	3	f	s	c	f	8	0	4	2487	60	43053	1.15	( 0.42- 3.17)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8														
9	JACKSO	3	m	h	c	b	2	0	-	-	-	-	1.10	( 0.40- 3.00)
9	JACKSO	1	f	h	c	b	2	0	-	-	-	-	4.00	( 1.35- 13.10)
Subtotal 9														
*10	SANDLE	1	m	h	c	f	2	0	122	1248	248	2914	1.15	( 0.93- 1.41)
*10	SANDLE	3	f	h	c	f	2	0	551	9551	437	5322	0.70	( 0.62- 0.79)
Subtotal 10														
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	3	m	h	c	b	2	0	22	34	161	259	1.04	( 0.59- 1.84)
12	DOBSON	1	f	h	c	b	2	0	43	99	117	433	1.61	( 1.06- 2.43)
Subtotal 12														
13	LAVECC	5	m	s	c	n	8	0	7	17	55	140	1.05	( 0.41- 2.67)
13	LAVECC	3	f	s	c	n	8	0	17	20	11	17	1.31	( 0.48- 3.56)
Subtotal 13														
14	LAYARD	1	m	s	e	f	2	0	97	215	378	783	0.93	( 0.71- 1.22)
14	LAYARD	9	f	s	e	f	2	0	455	961	459	969	1.00	( 0.85- 1.17)
Subtotal 14														
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91- 1.06)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99- 1.09)
Subtotal 15														
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17														
18	TUNSTA	1	c	t	c	n	2	0	329	1216	99	483	1.32	( 1.03- 1.69)
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07- 1.40)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96- 1.27)
Subtotal 19														
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
22	CIRUZZ	5	m	s	c	n	2	0	15	22	141	206	1.00	( 0.50- 1.99)
22	CIRUZZ	6	f	s	c	n	2	0	29	25	151	193	1.48	( 0.83- 2.64)
Subtotal 22														
23	MCELDU	3	m	t	c	b	2	0	53	172	145	373	0.79	( 0.55- 1.14)
23	MCELDU	1	f	t	c	b	2	0	31	147	54	479	1.87	( 1.16- 3.02)
Subtotal 23														
25	HE1	1	f	s	e	n	2	0	76	95	39	113	2.32	( 1.44- 3.72)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26														
27	ROSENL	3	m	s	c	n	8	0	27	51	141	285	1.07	( 0.64- 1.78)
27	ROSENL	15	f	s	c	n	8	0	21	24	59	144	2.14	( 1.10- 4.13)
Subtotal 27														
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
33	MCGHEE	5	m	h	p	f	2	0	74	71	285	347	1.27	( 0.88- 1.82)
33	MCGHEE	6	f	h	p	f	2	0	113	150	112	195	1.31	( 0.94- 1.84)
Subtotal 33														
*34	QURESH	2	f	s	m	b	2	0	140	1823	79	1209	1.18	( 0.90- 1.53)
36	STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40- 1.23)
36	STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48- 1.82)
Subtotal 36														
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*38	WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84- 1.67)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 52  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 Overall - unadjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed Case	Cont	Non-exposed Case	Cont	RR	95.00%CI
*40	HILL1	1	m	h	c	f	2	2	-	-	-	-	1.00	( 0.85- 1.18)
*40	HILL1	3	f	h	c	f	2	2	-	-	-	-	0.98	( 0.83- 1.15)
Subtotal 40														
*41	HILL2	1	m	h	c	f	2	2	-	-	-	-	1.07	( 0.86- 1.32)
*41	HILL2	3	f	h	c	f	2	2	-	-	-	-	1.26	( 0.98- 1.63)
Subtotal 41														
42	HE2	1	f	t	t	n	4	0	200	277	231	501	1.57	( 1.23- 1.99)
43	SULO	1	m	s	c	n	4	1	-	-	-	-	1.76	( 0.98- 3.18)
43	SULO	3	f	s	c	n	4	1	-	-	-	-	1.05	( 0.48- 2.30)
Subtotal 43														
44	VOZORI	1	c	t	c	n	4	0	293	11991	1480	34776	0.57	( 0.51- 0.65)
45	DING	1	f	h	e	n	2	0	95	65	219	254	1.70	( 1.18- 2.44)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	1	c	s	c	b	2	2	-	-	-	-	2.17	( 0.97- 4.84)
*49	HE3	1	m	t	e	f	2	0	14	271	5	168	1.74	( 0.64- 4.73)
*49	HE3	3	f	t	e	f	2	0	18	340	4	131	1.73	( 0.60- 5.03)
Subtotal 49														
Partial Totals									3455	101983	5844	118485		

\*prospective study

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Ys	Ws	Qs	Ps
*1	HIRAYA	3	f	s	e	f	2	0	0.00	90.30	0.49	0.9867
*2	GARLAN	2	f	s	c	f	8	0	0.74	1.02	0.45	0.4568
3	LEE	1	m	s	m	n	2	0	0.29	7.10	0.34	0.4340
3	LEE	3	f	s	m	n	2	0	-0.03	12.62	0.14	0.9185
Subtotal 3												
4	MARTIN	1	f	s	e	n	2	6	0.96	6.33	4.91	0.0162
*5	SVENDS	1	m	s	c	b	2	0	0.38	15.65	1.49	0.1296
*6	BUTLER	3	f	s	c	f	8	0	0.14	3.76	0.02	0.7812
*8	HOLE	3	m	h	e	f	2	5	0.55	13.29	2.97	0.0457
*8	HOLE	2	f	h	e	f	2	5	0.50	7.04	1.28	0.1838
Subtotal 8												
9	JACKSO	3	m	h	c	b	2	0	0.10	3.78	0.00	0.8529
9	JACKSO	1	f	h	c	b	2	0	1.39	2.98	5.12	0.0168
Subtotal 9												
*10	SANDLE	1	m	h	c	f	2	0	0.14	90.22	0.36	0.1881
*10	SANDLE	3	f	h	c	f	2	0	-0.35	262.43	48.10	0.0000
Subtotal 10												
*11	HUMBLE	1	f	s	c	f	8	4	0.46	16.88	2.55	0.0567
12	DOBSON	3	m	h	c	b	2	0	0.04	11.77	0.01	0.8905
12	DOBSON	1	f	h	c	b	2	0	0.47	22.62	3.61	0.0240
Subtotal 12												
13	LAVECC	5	m	s	c	n	8	0	0.05	4.41	0.00	0.9214
13	LAVECC	3	f	s	c	n	8	0	0.27	3.87	0.15	0.5916
Subtotal 13												
14	LAYARD	1	m	s	e	f	2	0	-0.07	52.96	1.08	0.6223
14	LAYARD	9	f	s	e	f	2	0	-0.00	155.06	0.89	0.9954
Subtotal 14												
*15	LEVOIS	2	m	s	c	f	8	2	-0.02	660.03	6.00	0.6037
*15	LEVOIS	7	f	s	c	f	8	2	0.04	1659.41	2.14	0.1101
Subtotal 15												
17	MUSCAT	1	m	s	e	n	2	0	0.32	8.14	0.51	0.3546
17	MUSCAT	2	f	s	e	n	2	0	0.28	5.82	0.25	0.4970
Subtotal 17												
18	TUNSTA	1	c	t	c	n	2	0	0.28	62.37	2.56	0.0283
*19	STEENL	1	m	s	c	f	8	12	0.20	212.64	3.26	0.0037
*19	STEENL	2	f	s	c	f	8	13	0.10	196.22	0.08	0.1818
Subtotal 19												
20	JANGHO	1	f	s	e	n	2	0	0.32	27.39	1.67	0.0922
*21	KAWACH	11	f	h	c	b	2	15	0.43	9.45	1.16	0.1912
22	CIRUZZ	5	m	s	c	n	2	0	-0.00	8.06	0.05	0.9912
22	CIRUZZ	6	f	s	c	n	2	0	0.39	11.59	1.18	0.1800
Subtotal 22												

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 52  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 Overall - unadjusted

Overall

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Ys	Ws	Qs	Ps
23	MCELDU	3	m	t	c	b	2	0	-0.23	29.19	2.76	0.2093
23	MCELDU	1	f	t	c	b	2	0	0.63	16.76	5.09	0.0104
Subtotal 23									0.08	45.95	7.85	
25	HE1	1	f	s	e	n	2	0	0.84	17.19	10.07	0.0005
26	IRIBAR	4	m	h	c	n	2	11	0.12	268.97	0.60	0.0450
26	IRIBAR	19	f	h	c	n	2	11	0.18	495.01	5.69	0.0000
Subtotal 26									0.16	763.97	6.29	
27	ROSENL	3	m	s	c	n	8	0	0.07	14.87	0.00	0.7939
27	ROSENL	15	f	s	c	n	8	0	0.76	8.84	4.13	0.0241
Subtotal 27									0.33	23.71	4.13	
28	PITSAV	9	c	h	c	n	a	6	0.29	23.73	1.05	0.1648
30	CHEN	10	c	h	c	n	2	10	0.18	11.72	0.13	0.5326
31	NISHTA	3	c	s	e	n	1	1	0.87	5.64	3.54	0.0395
33	MCGHEE	5	m	h	p	f	2	0	0.24	29.42	0.78	0.1963
33	MCGHEE	6	f	h	p	f	2	0	0.27	33.81	1.30	0.1147
Subtotal 33									0.26	63.24	2.08	
*34	QURESH	2	f	s	m	b	2	0	0.16	54.27	0.41	0.2341
36	STRANG	25	m	h	c	n	2	0	-0.35	12.36	2.20	0.2222
36	STRANG	17	f	h	c	n	2	0	-0.07	8.71	0.17	0.8444
Subtotal 36									-0.23	21.07	2.38	
37	TEO	1	c	t	c	n	2	6	0.31	656.19	37.70	0.0000
*38	WEN	18	f	s	c	f	2	9	0.17	32.54	0.32	0.3211
*40	HILL1	1	m	h	c	f	2	2	0.00	142.80	0.81	1.0000
*40	HILL1	3	f	h	c	f	2	2	-0.02	144.50	1.31	0.8081
Subtotal 40									-0.01	287.30	2.12	
*41	HILL2	1	m	h	c	f	2	2	0.07	83.70	0.00	0.5359
*41	HILL2	3	f	h	c	f	2	2	0.23	59.36	1.44	0.0750
Subtotal 41									0.14	143.06	1.45	
42	HE2	1	f	t	t	n	4	0	0.45	66.96	9.33	0.0002
43	SULO	1	m	s	c	n	4	1	0.57	11.09	2.66	0.0598
43	SULO	3	f	s	c	n	4	1	0.05	6.26	0.00	0.9029
Subtotal 43									0.38	17.35	2.67	
44	VOZORI	1	c	t	c	n	4	0	-0.55	238.05	94.47	0.0000
45	DING	1	f	h	e	n	2	0	0.53	29.06	5.95	0.0044
*46	GALLO	17	c	s	c	f	2	5	0.69	6.48	2.44	0.0798
*48	JEFFER	1	c	s	c	b	2	2	0.77	5.95	2.91	0.0588
*49	HE3	1	m	t	e	f	2	0	0.55	3.82	0.87	0.2811
*49	HE3	3	f	t	e	f	2	0	0.55	3.39	0.77	0.3109
Subtotal 49									0.55	7.21	1.63	

Relative risks

N	61
NS	41
Wt	6165.81
Het Chi	291.70
Het df	60
Het P	***
Fixed RR	1.08
RRl	1.05
RRu	1.11
P	+++
Random RR	1.19
RRl	1.11
RRu	1.28
P	+++
Asymm P	*

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 53  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By sex - adjusted

combined

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80- 1.20)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
Partial Totals									0	0	0	0		

\*prospective study

male

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
13	LAVECC	6	m	s	c	n	8	8	-	-	-	-	1.09	( 0.39- 3.01)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91- 1.06)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07- 1.40)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18	( 0.55- 2.52)
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82	( 0.55- 1.22)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
27	ROSENL	4	m	s	c	n	8	8	-	-	-	-	0.98	( 0.57- 1.69)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
36	STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40- 1.23)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81- 3.47)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
Partial Totals									38	83	225	486		

\*prospective study

female

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
*2	GARLAN	4	f	s	c	f	8	1	-	-	-	-	2.25	( 0.32- 15.74)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*6	BUTLER	4	f	s	c	f	8	1	-	-	-	-	1.40	( 0.51- 3.84)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
13	LAVECC	4	f	s	c	n	8	8	-	-	-	-	1.36	( 0.46- 4.05)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99- 1.09)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96- 1.27)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73	( 0.89- 3.36)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15	( 1.18- 3.92)
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94- 2.90)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
27	ROSENL	16	f	s	c	n	8	8	-	-	-	-	2.59	( 1.27- 5.29)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95- 2.04)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 53  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By sex - adjusted

female

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81- 1.38)
36	STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48- 1.82)
*38	WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84- 1.67)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83- 1.17)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98- 1.66)
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31- 2.18)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25- 5.64)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01- 2.27)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69- 6.33)
Partial Totals									102	231	233	1013		

\*prospective study

combined                      male                      female                      Total

Relative risks

N	8	21	32	61
NS	8	21	32	61
Wt	880.19	1648.50	3342.84	5871.54
Het Chi	13.19	28.53	70.21	139.56
Het df	7	20	31	60
Het P	(*)	(*)	***	***
Fixed RR	1.33	1.08	1.12	1.14
RR1	1.25	1.03	1.08	1.11
RRu	1.42	1.13	1.16	1.17
P	+++	++	+++	+++
Random RR	1.32	1.12	1.25	1.21
RR1	1.14	1.04	1.16	1.15
RRu	1.54	1.21	1.35	1.28
P	+++	++	+++	+++
Asymm P	N.S.	N.S.	***	***
Between Chi		25.48	21.60	27.64
Between df		1	1	2
Between P		---	---	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 54  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By sex - unadjusted

combined

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
18	TUNSTA	1	c	t	c	n	2	0	329	1216	99	483	1.32	( 1.03- 1.69)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
44	VOZORI	1	c	t	c	n	4	0	293	11991	1480	34776	0.57	( 0.51- 0.65)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	1	c	s	c	b	2	2	-	-	-	-	2.17	( 0.97- 4.84)
Partial Totals									622	13207	1579	35259		

\*prospective study

male

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
3	LEE	1	m	s	m	n	2	0	15	40	26	93	1.34	( 0.64- 2.80)
*5	SVENDS	1	m	s	c	b	2	0	21	286	48	959	1.47	( 0.89- 2.41)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
9	JACKSO	3	m	h	c	b	2	0	-	-	-	-	1.10	( 0.40- 3.00)
*10	SANDLE	1	m	h	c	f	2	0	122	1248	248	2914	1.15	( 0.93- 1.41)
12	DOBSON	3	m	h	c	b	2	0	22	34	161	259	1.04	( 0.59- 1.84)
13	LAVECC	5	m	s	c	n	8	0	7	17	55	140	1.05	( 0.41- 2.67)
14	LAYARD	1	m	s	e	f	2	0	97	215	378	783	0.93	( 0.71- 1.22)
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91- 1.06)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07- 1.40)
22	CIRUZZ	5	m	s	c	n	2	0	15	22	141	206	1.00	( 0.50- 1.99)
23	MCELDU	3	m	t	c	b	2	0	53	172	145	373	0.79	( 0.55- 1.14)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
27	ROSEN	3	m	s	c	n	8	0	27	51	141	285	1.07	( 0.64- 1.78)
33	MCGHEE	5	m	h	p	f	2	0	74	71	285	347	1.27	( 0.88- 1.82)
36	STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40- 1.23)
*40	HILL1	1	m	h	c	f	2	2	-	-	-	-	1.00	( 0.85- 1.18)
*41	HILL2	1	m	h	c	f	2	2	-	-	-	-	1.07	( 0.86- 1.32)
43	SULO	1	m	s	c	n	4	1	-	-	-	-	1.76	( 0.98- 3.18)
*49	HE3	1	m	t	e	f	2	0	14	271	5	168	1.74	( 0.64- 4.73)
Partial Totals									505	2510	1858	7013		

\*prospective study

female

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	3	f	s	e	f	2	0	376	69645	118	21895	1.00	( 0.82- 1.23)
*2	GARLAN	2	f	s	c	f	8	0	2	97	2	203	2.09	( 0.30- 14.64)
3	LEE	3	f	s	m	n	2	0	55	229	22	89	0.97	( 0.56- 1.69)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*6	BUTLER	3	f	s	c	f	8	0	4	2487	60	43053	1.15	( 0.42- 3.17)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
9	JACKSO	1	f	h	c	b	2	0	-	-	-	-	4.00	( 1.35- 13.10)
*10	SANDLE	3	f	h	c	f	2	0	551	9551	437	5322	0.70	( 0.62- 0.79)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	1	f	h	c	b	2	0	43	99	117	433	1.61	( 1.06- 2.43)
13	LAVECC	3	f	s	c	n	8	0	17	20	11	17	1.31	( 0.48- 3.56)
14	LAYARD	9	f	s	e	f	2	0	455	961	459	969	1.00	( 0.85- 1.17)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99- 1.09)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96- 1.27)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
22	CIRUZZ	6	f	s	c	n	2	0	29	25	151	193	1.48	( 0.83- 2.64)
23	MCELDU	1	f	t	c	b	2	0	31	147	54	479	1.87	( 1.16- 3.02)
25	HE1	1	f	s	e	n	2	0	76	95	39	113	2.32	( 1.44- 3.72)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
27	ROSEN	15	f	s	c	n	8	0	21	24	59	144	2.14	( 1.10- 4.13)
33	MCGHEE	6	f	h	p	f	2	0	113	150	112	195	1.31	( 0.94- 1.84)

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 54  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By sex - unadjusted

female

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*34	QURESH	2	f	s	m	b	2	0	140	1823	79	1209	1.18	( 0.90- 1.53)
36	STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48- 1.82)
*38	WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84- 1.67)
*40	HILL1	3	f	h	c	f	2	2	-	-	-	-	0.98	( 0.83- 1.15)
*41	HILL2	3	f	h	c	f	2	2	-	-	-	-	1.26	( 0.98- 1.63)
42	HE2	1	f	t	t	n	4	0	200	277	231	501	1.57	( 1.23- 1.99)
43	SULO	3	f	s	c	n	4	1	-	-	-	-	1.05	( 0.48- 2.30)
45	DING	1	f	h	e	n	2	0	95	65	219	254	1.70	( 1.18- 2.44)
*49	HE3	3	f	t	e	f	2	0	18	340	4	131	1.73	( 0.60- 5.03)
Partial Totals									2328	86266	2407	76213		

\*prospective study

combined                      male                      female                      Total

Relative risks

N	8	21	32	61
NS	8	21	32	61
Wt	1010.13	1684.26	3471.43	6165.81
Het Chi	143.31	26.36	120.09	291.70
Het df	7	20	31	60
Het P	***	N.S.	***	***
Fixed RR	1.12	1.06	1.07	1.08
RR1	1.05	1.01	1.04	1.05
RRu	1.19	1.11	1.11	1.11
P	+++	+	+++	+++
Random RR	1.33	1.09	1.24	1.19
RR1	0.90	1.01	1.13	1.11
RRu	1.98	1.16	1.37	1.28
P	N.S.	+	+++	+++
Asymm P	N.S.	N.S.	**	*
Between Chi		1.82	1.39	1.93
Between df		1	1	2
Between P		N.S.	N.S.	N.S.

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)



Table 55  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By continent - adjusted

NAmerica

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
*2	GARLAN	4	f	s	c	f	8	1	-	-	-	-	2.25	( 0.32- 15.74)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)
*6	BUTLER	4	f	s	c	f	8	1	-	-	-	-	1.40	( 0.51- 3.84)
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
Subtotal 10														
													1.22	( 1.09- 1.37)
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
Subtotal 14														
													0.98	( 0.86- 1.13)
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91- 1.06)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99- 1.09)
Subtotal 15														
													1.02	( 0.98- 1.07)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17														
													1.36	( 0.80- 2.30)
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07- 1.40)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96- 1.27)
Subtotal 19														
													1.16	( 1.05- 1.28)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26														
													1.17	( 1.09- 1.26)
*34	QURESH	1	f	s	m	b	2	7	-	-	-	-	1.05	( 0.81- 1.38)
36	STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40- 1.23)
36	STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48- 1.82)
Subtotal 36														
													0.79	( 0.52- 1.22)
44	VOZORI	2	c	t	c	n	4	7	-	-	-	-	1.00	( 0.80- 1.20)
Partial Totals									77	214	321	1199		
*prospective study														

Europe

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
Subtotal 3														
													1.03	( 0.65- 1.62)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8														
													1.70	( 1.10- 2.63)
13	LAVECC	6	m	s	c	n	8	8	-	-	-	-	1.09	( 0.39- 3.01)
13	LAVECC	4	f	s	c	n	8	8	-	-	-	-	1.36	( 0.46- 4.05)
Subtotal 13														
													1.21	( 0.57- 2.55)
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
27	ROENL	4	m	s	c	n	8	8	-	-	-	-	0.98	( 0.57- 1.69)
27	ROENL	16	f	s	c	n	8	8	-	-	-	-	2.59	( 1.27- 5.29)
Subtotal 27														
													1.40	( 0.91- 2.16)
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
43	SULO	2	m	s	c	n	4	14	-	-	-	-	1.68	( 0.81- 3.47)
43	SULO	4	f	s	c	n	4	14	-	-	-	-	1.19	( 0.25- 5.64)
Subtotal 43														
													1.58	( 0.82- 3.05)
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	2	c	s	c	b	2	16	-	-	-	-	2.41	( 1.04- 5.59)
Partial Totals									0	0	0	0		
*prospective study														

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 55  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By continent - adjusted

Asia

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
25	HE1	2	f	s	e	n	2	6	-	-	-	-	1.60	( 0.94- 2.90)
31	NISHTA	3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
33	MCGHEE	1	m	h	p	f	2	2	-	-	-	-	1.30	( 0.88- 1.93)
33	MCGHEE	2	f	h	p	f	2	2	-	-	-	-	1.39	( 0.95- 2.04)
Subtotal 33													1.35	( 1.02- 1.77)
*38	WEN	18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84- 1.67)
42	HE2	8	f	t	t	n	4	12	-	-	-	-	1.69	( 1.31- 2.18)
45	DING	2	f	h	e	n	2	11	-	-	-	-	1.52	( 1.01- 2.27)
*49	HE3	2	m	t	e	f	2	9	-	-	-	-	2.24	( 0.76- 6.59)
*49	HE3	4	f	t	e	f	2	9	-	-	-	-	2.10	( 0.69- 6.33)
Subtotal 49													2.17	( 1.00- 4.70)
Partial Totals									63	100	137	300		
*prospective study														

Other

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
Subtotal 9													1.80	( 0.84- 3.87)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
Subtotal 12													1.72	( 1.15- 2.59)
22	CIRUZZ	7	m	s	c	n	2	9	-	-	-	-	1.18	( 0.55- 2.52)
22	CIRUZZ	8	f	s	c	n	2	9	-	-	-	-	1.73	( 0.89- 3.36)
Subtotal 22													1.47	( 0.89- 2.42)
23	MCELDU	4	m	t	c	b	2	4	-	-	-	-	0.82	( 0.55- 1.22)
23	MCELDU	2	f	t	c	b	2	4	-	-	-	-	2.15	( 1.18- 3.92)
Subtotal 23													1.10	( 0.79- 1.53)
37	TEO	1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*40	HILL1	2	m	h	c	f	2	9	-	-	-	-	1.04	( 0.88- 1.23)
*40	HILL1	4	f	h	c	f	2	9	-	-	-	-	0.98	( 0.83- 1.17)
Subtotal 40													1.01	( 0.90- 1.14)
*41	HILL2	2	m	h	c	f	2	9	-	-	-	-	1.18	( 0.96- 1.44)
*41	HILL2	4	f	h	c	f	2	9	-	-	-	-	1.27	( 0.98- 1.66)
Subtotal 41													1.21	( 1.03- 1.42)
Partial Totals									0	0	0	0		
*prospective study														

NAmerica      Europe      Asia      Other      Total

Relative risks

N	22	15	11	13	61
NS	15	10	9	7	41
Wt	4213.61	200.20	305.28	1152.45	5871.54
Het Chi	39.80	10.78	9.35	37.12	139.56
Het df	21	14	10	12	60
Het P	**	N.S.	N.S.	***	***
Fixed RR	1.08	1.38	1.38	1.26	1.14
RRl	1.05	1.20	1.24	1.19	1.11
RRu	1.11	1.58	1.55	1.33	1.17
P	+++	+++	+++	+++	+++
Random RR	1.11	1.38	1.38	1.24	1.21
RRl	1.05	1.20	1.24	1.07	1.15
RRu	1.18	1.58	1.55	1.44	1.28
P	+++	+++	+++	++	+++
Asymm P	*	N.S.	(*)	N.S.	***
Between Chi		11.58	17.60	21.19	42.50
Between df		1	1	1	3
Between P		+++	+++	+++	***

Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 56  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By continent - unadjusted

NAmerica

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
*2	GARLAN	2	f	s	c	f	8	0	2	97	2	203	2.09	( 0.30- 14.64)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	1	m	s	c	b	2	0	21	286	48	959	1.47	( 0.89- 2.41)
*6	BUTLER	3	f	s	c	f	8	0	4	2487	60	43053	1.15	( 0.42- 3.17)
*10	SANDLE	1	m	h	c	f	2	0	122	1248	248	2914	1.15	( 0.93- 1.41)
*10	SANDLE	3	f	h	c	f	2	0	551	9551	437	5322	0.70	( 0.62- 0.79)
Subtotal 10														
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
14	LAYARD	1	m	s	e	f	2	0	97	215	378	783	0.93	( 0.71- 1.22)
14	LAYARD	9	f	s	e	f	2	0	455	961	459	969	1.00	( 0.85- 1.17)
Subtotal 14														
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91- 1.06)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99- 1.09)
Subtotal 15														
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17														
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07- 1.40)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96- 1.27)
Subtotal 19														
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
26	IRIBAR	4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR	19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26														
*34	QURESH	2	f	s	m	b	2	0	140	1823	79	1209	1.18	( 0.90- 1.53)
36	STRANG	25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40- 1.23)
36	STRANG	17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48- 1.82)
Subtotal 36														
44	VOZORI	1	c	t	c	n	4	0	293	11991	1480	34776	0.57	( 0.51- 0.65)
Partial Totals									1762	28873	3512	91387		
*prospective study														

Europe

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
3	LEE	1	m	s	m	n	2	0	15	40	26	93	1.34	( 0.64- 2.80)
3	LEE	3	f	s	m	n	2	0	55	229	22	89	0.97	( 0.56- 1.69)
Subtotal 3														
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8														
13	LAVECC	5	m	s	c	n	8	0	7	17	55	140	1.05	( 0.41- 2.67)
13	LAVECC	3	f	s	c	n	8	0	17	20	11	17	1.31	( 0.48- 3.56)
Subtotal 13														
18	TUNSTA	1	c	t	c	n	2	0	329	1216	99	483	1.32	( 1.03- 1.69)
27	ROSENL	3	m	s	c	n	8	0	27	51	141	285	1.07	( 0.64- 1.78)
27	ROSENL	15	f	s	c	n	8	0	21	24	59	144	2.14	( 1.10- 4.13)
Subtotal 27														
28	PITSAV	9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN	10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
43	SULO	1	m	s	c	n	4	1	-	-	-	-	1.76	( 0.98- 3.18)
43	SULO	3	f	s	c	n	4	1	-	-	-	-	1.05	( 0.48- 2.30)
Subtotal 43														
*46	GALLO	17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER	1	c	s	c	b	2	2	-	-	-	-	2.17	( 0.97- 4.84)
Partial Totals									471	1597	413	1251		
*prospective study														

-----  
 Within each study, results are included (in the following order of preference) for:  
 1) EXP Exposure = spouse (s), household (h), total (t)  
 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)  
 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.  
 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 56  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By continent - unadjusted

Asia		SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
*1	HIRAYA 3	f	s	e	f	2	0	376	69645	118	21895	1.00	( 0.82- 1.23)
20	JANGHO 1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
25	HE1 1	f	s	e	n	2	0	76	95	39	113	2.32	( 1.44- 3.72)
31	NISHTA 3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
33	MCGHEE 5	m	h	p	f	2	0	74	71	285	347	1.27	( 0.88- 1.82)
33	MCGHEE 6	f	h	p	f	2	0	113	150	112	195	1.31	( 0.94- 1.84)
Subtotal 33												1.29	( 1.01- 1.65)
*38	WEN 18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84- 1.67)
42	HE2 1	f	t	t	n	4	0	200	277	231	501	1.57	( 1.23- 1.99)
45	DING 1	f	h	e	n	2	0	95	65	219	254	1.70	( 1.18- 2.44)
*49	HE3 1	m	t	e	f	2	0	14	271	5	168	1.74	( 0.64- 4.73)
*49	HE3 3	f	t	e	f	2	0	18	340	4	131	1.73	( 0.60- 5.03)
Subtotal 49												1.73	( 0.84- 3.60)
Partial Totals								1029	71014	1150	23904		
*prospective study													

Other		SEX	EXP	TIM	TYP	UNX	ADJ	Number Case	Exposed Cont	Non-exposed Case	Cont	RR	95.00%CI
9	JACKSO 3	m	h	c	b	2	0	-	-	-	-	1.10	( 0.40- 3.00)
9	JACKSO 1	f	h	c	b	2	0	-	-	-	-	4.00	( 1.35- 13.10)
Subtotal 9												1.94	( 0.91- 4.13)
12	DOBSON 3	m	h	c	b	2	0	22	34	161	259	1.04	( 0.59- 1.84)
12	DOBSON 1	f	h	c	b	2	0	43	99	117	433	1.61	( 1.06- 2.43)
Subtotal 12												1.39	( 0.99- 1.93)
22	CIRUZZ 5	m	s	c	n	2	0	15	22	141	206	1.00	( 0.50- 1.99)
22	CIRUZZ 6	f	s	c	n	2	0	29	25	151	193	1.48	( 0.83- 2.64)
Subtotal 22												1.26	( 0.81- 1.96)
23	MCELDU 3	m	t	c	b	2	0	53	172	145	373	0.79	( 0.55- 1.14)
23	MCELDU 1	f	t	c	b	2	0	31	147	54	479	1.87	( 1.16- 3.02)
Subtotal 23												1.08	( 0.81- 1.45)
37	TEO 1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*40	HILL1 1	m	h	c	f	2	2	-	-	-	-	1.00	( 0.85- 1.18)
*40	HILL1 3	f	h	c	f	2	2	-	-	-	-	0.98	( 0.83- 1.15)
Subtotal 40												0.99	( 0.88- 1.11)
*41	HILL2 1	m	h	c	f	2	2	-	-	-	-	1.07	( 0.86- 1.32)
*41	HILL2 3	f	h	c	f	2	2	-	-	-	-	1.26	( 0.98- 1.63)
Subtotal 41												1.15	( 0.97- 1.35)
Partial Totals								193	499	769	1943		
*prospective study													

NAmerica      Europe      Asia      Other      Total

Relative risks

N	22	15	11	13	61
NS	15	10	9	7	41
Wt	4433.36	199.63	339.52	1193.30	6165.81
Het Chi	159.11	9.04	18.96	38.34	291.70
Het df	21	14	10	12	60
Het P	***	N.S.	*	***	***
Fixed RR	1.01	1.37	1.34	1.23	1.08
RRl	0.98	1.20	1.21	1.16	1.05
RRu	1.04	1.58	1.49	1.30	1.11
P	N.S.	+++	+++	+++	+++
Random RR	1.05	1.37	1.42	1.18	1.19
RRl	0.94	1.20	1.20	1.03	1.11
RRu	1.17	1.58	1.66	1.37	1.28
P	N.S.	+++	+++	+	+++
Asymm P	N.S.	N.S.	(*)	N.S.	*
Between Chi		17.82	24.90	35.73	66.23
Between df		1	1	1	3
Between P		+++	+++	+++	***

-----  
 Within each study, results are included (in the following order of preference) for:  
 1) EXP Exposure = spouse (s), household (h), total (t)  
 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)  
 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.  
 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 57  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By publication year (grouped) - adjusted

1984-89

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	6	f	s	e	f	2	1	-	-	-	-	1.16	( 0.94- 1.43)
*2	GARLAN	4	f	s	c	f	8	1	-	-	-	-	2.25	( 0.32- 15.74)
3	LEE	2	m	s	m	n	2	2	-	-	-	-	1.24	( 0.58- 2.67)
3	LEE	4	f	s	m	n	2	2	-	-	-	-	0.93	( 0.53- 1.64)
Subtotal 3													1.03	( 0.65- 1.62)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	2	m	s	c	b	2	6	-	-	-	-	1.61	( 0.96- 2.71)
*6	BUTLER	4	f	s	c	f	8	1	-	-	-	-	1.40	( 0.51- 3.84)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8													1.70	( 1.10- 2.63)
9	JACKSO	4	m	h	c	b	2	2	-	-	-	-	1.06	( 0.39- 2.91)
9	JACKSO	2	f	h	c	b	2	2	-	-	-	-	3.74	( 1.15- 12.19)
Subtotal 9													1.80	( 0.84- 3.87)
*10	SANDLE	2	m	h	c	f	2	4	-	-	-	-	1.31	( 1.05- 1.64)
*10	SANDLE	4	f	h	c	f	2	4	-	-	-	-	1.19	( 1.04- 1.36)
Subtotal 10													1.22	( 1.09- 1.37)
Partial Totals									0	0	0	0		
*prospective study														

1990-97

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	4	m	h	c	b	2	2	-	-	-	-	0.97	( 0.50- 1.86)
12	DOBSON	2	f	h	c	b	2	2	-	-	-	-	2.46	( 1.47- 4.13)
Subtotal 12													1.72	( 1.15- 2.59)
13	LAVECC	6	m	s	c	n	8	8	-	-	-	-	1.09	( 0.39- 3.01)
13	LAVECC	4	f	s	c	n	8	8	-	-	-	-	1.36	( 0.46- 4.05)
Subtotal 13													1.21	( 0.57- 2.55)
14	LAYARD	2	m	s	e	f	2	2	-	-	-	-	0.97	( 0.73- 1.28)
14	LAYARD	10	f	s	e	f	2	2	-	-	-	-	0.99	( 0.84- 1.16)
Subtotal 14													0.98	( 0.86- 1.13)
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91- 1.06)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99- 1.09)
Subtotal 15													1.02	( 0.98- 1.07)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17													1.36	( 0.80- 2.30)
18	TUNSTA	2	c	t	c	n	2	4	-	-	-	-	1.34	( 1.07- 1.67)
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07- 1.40)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96- 1.27)
Subtotal 19													1.16	( 1.05- 1.28)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
Partial Totals									111	152	203	406		
*prospective study														

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 57  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By publication year (grouped) - adjusted

1998-04

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
22	CIRUZZ 7	m	s	c	n	2	9	-	-	-	-	1.18 ( 0.55- 2.52)	
22	CIRUZZ 8	f	s	c	n	2	9	-	-	-	-	1.73 ( 0.89- 3.36)	
Subtotal 22													
23	MCELDU 4	m	t	c	b	2	4	-	-	-	-	0.82 ( 0.55- 1.22)	
23	MCELDU 2	f	t	c	b	2	4	-	-	-	-	2.15 ( 1.18- 3.92)	
Subtotal 23													
25	HE1 2	f	s	e	n	2	6	-	-	-	-	1.60 ( 0.94- 2.90)	
26	IRIBAR 4	m	h	c	n	2	11	-	-	-	-	1.13 ( 1.00- 1.27)	
26	IRIBAR 19	f	h	c	n	2	11	-	-	-	-	1.20 ( 1.09- 1.30)	
Subtotal 26													
27	ROSENL 4	m	s	c	n	8	8	-	-	-	-	0.98 ( 0.57- 1.69)	
27	ROSENL 16	f	s	c	n	8	8	-	-	-	-	2.59 ( 1.27- 5.29)	
Subtotal 27													
28	PITSAV 9	c	h	c	n	a	6	-	-	-	-	1.33 ( 0.89- 1.99)	
30	CHEN 10	c	h	c	n	2	10	-	-	-	-	1.20 ( 0.70- 2.20)	
31	NISHTA 3	c	s	e	n	1	1	-	-	-	-	2.38 ( 1.04- 5.42)	
Partial Totals								0	0	0	0		

\*prospective study

2005-07

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
33	MCGHEE 1	m	h	p	f	2	2	-	-	-	-	1.30 ( 0.88- 1.93)	
33	MCGHEE 2	f	h	p	f	2	2	-	-	-	-	1.39 ( 0.95- 2.04)	
Subtotal 33													
*34	QURESH 1	f	s	m	b	2	7	-	-	-	-	1.05 ( 0.81- 1.38)	
36	STRANG 25	m	h	c	n	2	0	18	58	177	403	0.71 ( 0.40- 1.23)	
36	STRANG 17	f	h	c	n	2	0	11	104	78	690	0.94 ( 0.48- 1.82)	
Subtotal 36													
37	TEO 1	c	t	c	n	2	6	-	-	-	-	1.37 ( 1.27- 1.48)	
*38	WEN 18	f	s	c	f	2	9	-	-	-	-	1.19 ( 0.84- 1.67)	
*40	HILL1 2	m	h	c	f	2	9	-	-	-	-	1.04 ( 0.88- 1.23)	
*40	HILL1 4	f	h	c	f	2	9	-	-	-	-	0.98 ( 0.83- 1.17)	
Subtotal 40													
*41	HILL2 2	m	h	c	f	2	9	-	-	-	-	1.18 ( 0.96- 1.44)	
*41	HILL2 4	f	h	c	f	2	9	-	-	-	-	1.27 ( 0.98- 1.66)	
Subtotal 41													
Partial Totals								29	162	255	1093		

\*prospective study

2008 onwards

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
42	HE2 8	f	t	t	n	4	12	-	-	-	-	1.69 ( 1.31- 2.18)	
43	SULO 2	m	s	c	n	4	14	-	-	-	-	1.68 ( 0.81- 3.47)	
43	SULO 4	f	s	c	n	4	14	-	-	-	-	1.19 ( 0.25- 5.64)	
Subtotal 43													
44	VOZORI 2	c	t	c	n	4	7	-	-	-	-	1.00 ( 0.80- 1.20)	
45	DING 2	f	h	e	n	2	11	-	-	-	-	1.52 ( 1.01- 2.27)	
*46	GALLO 17	c	s	c	f	2	5	-	-	-	-	1.99 ( 0.92- 4.29)	
*48	JEFFER 2	c	s	c	b	2	16	-	-	-	-	2.41 ( 1.04- 5.59)	
*49	HE3 2	m	t	e	f	2	9	-	-	-	-	2.24 ( 0.76- 6.59)	
*49	HE3 4	f	t	e	f	2	9	-	-	-	-	2.10 ( 0.69- 6.33)	
Subtotal 49													
Partial Totals								0	0	0	0		

\*prospective study

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 57  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By publication year (grouped) - adjusted

	1984-89	1990-97	1998-04	2005-07	2008 onwa	Total
Relative risks						
N	13	16	12	11	9	61
NS	9	10	8	7	7	41
Wt	449.00	3099.96	887.93	1231.33	203.31	5871.54
Het Chi	12.29	31.74	18.16	24.74	16.35	139.56
Het df	12	15	11	10	8	60
Het P	N.S.	**	(*)	**	*	***
Fixed RR	1.25	1.06	1.20	1.23	1.34	1.14
RRl	1.14	1.02	1.12	1.16	1.17	1.11
RRu	1.37	1.09	1.28	1.30	1.53	1.17
P	+++	++	+++	+++	+++	+++
Random RR	1.26	1.13	1.25	1.15	1.54	1.21
RRl	1.14	1.04	1.10	1.03	1.19	1.15
RRu	1.39	1.22	1.42	1.29	1.99	1.28
P	+++	++	+++	+	++	+++
Asymm P	*	*	N.S.	(*)	(*)	***
Between Chi		11.32	0.64	0.09	0.60	36.28
Between df		1	1	1	1	4
Between P		---	N.S.	N.S.	N.S.	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 58  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By publication year (grouped) - unadjusted

1984-89

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*1	HIRAYA	3	f	s	e	f	2	0	376	69645	118	21895	1.00	( 0.82- 1.23)
*2	GARLAN	2	f	s	c	f	8	0	2	97	2	203	2.09	( 0.30- 14.64)
3	LEE	1	m	s	m	n	2	0	15	40	26	93	1.34	( 0.64- 2.80)
3	LEE	3	f	s	m	n	2	0	55	229	22	89	0.97	( 0.56- 1.69)
Subtotal 3													1.09	( 0.70- 1.70)
4	MARTIN	1	f	s	e	n	2	6	-	-	-	-	2.60	( 1.20- 5.70)
*5	SVENDS	1	m	s	c	b	2	0	21	286	48	959	1.47	( 0.89- 2.41)
*6	BUTLER	3	f	s	c	f	8	0	4	2487	60	43053	1.15	( 0.42- 3.17)
*8	HOLE	3	m	h	e	f	2	5	-	-	-	-	1.73	( 1.01- 2.96)
*8	HOLE	2	f	h	e	f	2	5	-	-	-	-	1.65	( 0.79- 3.46)
Subtotal 8													1.70	( 1.10- 2.63)
9	JACKSO	3	m	h	c	b	2	0	-	-	-	-	1.10	( 0.40- 3.00)
9	JACKSO	1	f	h	c	b	2	0	-	-	-	-	4.00	( 1.35- 13.10)
Subtotal 9													1.94	( 0.91- 4.13)
*10	SANDLE	1	m	h	c	f	2	0	122	1248	248	2914	1.15	( 0.93- 1.41)
*10	SANDLE	3	f	h	c	f	2	0	551	9551	437	5322	0.70	( 0.62- 0.79)
Subtotal 10													0.80	( 0.72- 0.88)
Partial Totals									1146	83583	961	74528		
*prospective study														

1990-97

StN	Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
									Case	Cont	Case	Cont		
*11	HUMBLE	1	f	s	c	f	8	4	-	-	-	-	1.59	( 0.99- 2.57)
12	DOBSON	3	m	h	c	b	2	0	22	34	161	259	1.04	( 0.59- 1.84)
12	DOBSON	1	f	h	c	b	2	0	43	99	117	433	1.61	( 1.06- 2.43)
Subtotal 12													1.39	( 0.99- 1.93)
13	LAVECC	5	m	s	c	n	8	0	7	17	55	140	1.05	( 0.41- 2.67)
13	LAVECC	3	f	s	c	n	8	0	17	20	11	17	1.31	( 0.48- 3.56)
Subtotal 13													1.16	( 0.59- 2.30)
14	LAYARD	1	m	s	e	f	2	0	97	215	378	783	0.93	( 0.71- 1.22)
14	LAYARD	9	f	s	e	f	2	0	455	961	459	969	1.00	( 0.85- 1.17)
Subtotal 14													0.98	( 0.86- 1.13)
*15	LEVOIS	2	m	s	c	f	8	2	-	-	-	-	0.98	( 0.91- 1.06)
*15	LEVOIS	7	f	s	c	f	8	2	-	-	-	-	1.04	( 0.99- 1.09)
Subtotal 15													1.02	( 0.98- 1.07)
17	MUSCAT	1	m	s	e	n	2	0	20	25	48	83	1.38	( 0.70- 2.75)
17	MUSCAT	2	f	s	e	n	2	0	28	27	18	23	1.33	( 0.59- 2.99)
Subtotal 17													1.36	( 0.80- 2.30)
18	TUNSTA	1	c	t	c	n	2	0	329	1216	99	483	1.32	( 1.03- 1.69)
*19	STEENL	1	m	s	c	f	8	12	-	-	-	-	1.22	( 1.07- 1.40)
*19	STEENL	2	f	s	c	f	8	13	-	-	-	-	1.10	( 0.96- 1.27)
Subtotal 19													1.16	( 1.05- 1.28)
20	JANGHO	1	f	s	e	n	2	0	63	100	137	300	1.38	( 0.95- 2.01)
*21	KAWACH	11	f	h	c	b	2	15	-	-	-	-	1.53	( 0.81- 2.90)
Partial Totals									1081	2714	1483	3490		
*prospective study														

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)



Table 58  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By publication year (grouped) - unadjusted

1998-04

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
22	CIRUZZ 5	m	s	c	n	2	0	15	22	141	206	1.00	( 0.50- 1.99)
22	CIRUZZ 6	f	s	c	n	2	0	29	25	151	193	1.48	( 0.83- 2.64)
Subtotal 22													
23	MCELDU 3	m	t	c	b	2	0	53	172	145	373	0.79	( 0.55- 1.14)
23	MCELDU 1	f	t	c	b	2	0	31	147	54	479	1.87	( 1.16- 3.02)
Subtotal 23													
25	HE1 1	f	s	e	n	2	0	76	95	39	113	2.32	( 1.44- 3.72)
26	IRIBAR 4	m	h	c	n	2	11	-	-	-	-	1.13	( 1.00- 1.27)
26	IRIBAR 19	f	h	c	n	2	11	-	-	-	-	1.20	( 1.09- 1.30)
Subtotal 26													
27	ROSENL 3	m	s	c	n	8	0	27	51	141	285	1.07	( 0.64- 1.78)
27	ROSENL 15	f	s	c	n	8	0	21	24	59	144	2.14	( 1.10- 4.13)
Subtotal 27													
28	PITSAV 9	c	h	c	n	a	6	-	-	-	-	1.33	( 0.89- 1.99)
30	CHEN 10	c	h	c	n	2	10	-	-	-	-	1.20	( 0.70- 2.20)
31	NISHTA 3	c	s	e	n	1	1	-	-	-	-	2.38	( 1.04- 5.42)
Partial Totals								252	536	730	1793		

\*prospective study

2005-07

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
33	MCGHEE 5	m	h	p	f	2	0	74	71	285	347	1.27	( 0.88- 1.82)
33	MCGHEE 6	f	h	p	f	2	0	113	150	112	195	1.31	( 0.94- 1.84)
Subtotal 33													
*34	QURESH 2	f	s	m	b	2	0	140	1823	79	1209	1.18	( 0.90- 1.53)
36	STRANG 25	m	h	c	n	2	0	18	58	177	403	0.71	( 0.40- 1.23)
36	STRANG 17	f	h	c	n	2	0	11	104	78	690	0.94	( 0.48- 1.82)
Subtotal 36													
37	TEO 1	c	t	c	n	2	6	-	-	-	-	1.37	( 1.27- 1.48)
*38	WEN 18	f	s	c	f	2	9	-	-	-	-	1.19	( 0.84- 1.67)
*40	HILL1 1	m	h	c	f	2	2	-	-	-	-	1.00	( 0.85- 1.18)
*40	HILL1 3	f	h	c	f	2	2	-	-	-	-	0.98	( 0.83- 1.15)
Subtotal 40													
*41	HILL2 1	m	h	c	f	2	2	-	-	-	-	1.07	( 0.86- 1.32)
*41	HILL2 3	f	h	c	f	2	2	-	-	-	-	1.26	( 0.98- 1.63)
Subtotal 41													
Partial Totals								356	2206	731	2844		

\*prospective study

2008 onwards

StN Ref	NRR	SEX	EXP	TIM	TYP	UNX	ADJ	Number Exposed		Non-exposed		RR	95.00%CI
								Case	Cont	Case	Cont		
42	HE2 1	f	t	t	n	4	0	200	277	231	501	1.57	( 1.23- 1.99)
43	SULO 1	m	s	c	n	4	1	-	-	-	-	1.76	( 0.98- 3.18)
43	SULO 3	f	s	c	n	4	1	-	-	-	-	1.05	( 0.48- 2.30)
Subtotal 43													
44	VOZORI 1	c	t	c	n	4	0	293	11991	1480	34776	0.57	( 0.51- 0.65)
45	DING 1	f	h	e	n	2	0	95	65	219	254	1.70	( 1.18- 2.44)
*46	GALLO 17	c	s	c	f	2	5	-	-	-	-	1.99	( 0.92- 4.29)
*48	JEFFER 1	c	s	c	b	2	2	-	-	-	-	2.17	( 0.97- 4.84)
*49	HE3 1	m	t	e	f	2	0	14	271	5	168	1.74	( 0.64- 4.73)
*49	HE3 3	f	t	e	f	2	0	18	340	4	131	1.73	( 0.60- 5.03)
Subtotal 49													
Partial Totals								620	12944	1939	35830		

\*prospective study

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

Table 58  
ETS and Heart Disease - Meta-Analysis of Spouse Exposure Current (or nearest equivalent), 02-AUG-13  
 Excluding Enstrom  
 By publication year (grouped) - unadjusted

		1984-89	1990-97	1998-04	2005-07	2008 onwa	Total
Relative risks							
	N	13	16	12	11	9	61
	NS	9	10	8	7	7	41
	Wt	516.50	3109.03	911.55	1257.67	371.05	6165.81
	Het Chi	50.51	24.34	23.57	27.52	95.10	291.70
	Het df	12	15	11	10	8	60
	Het P	***	(*)	*	**	***	***
Fixed	RR	0.91	1.05	1.20	1.22	0.83	1.08
	RRl	0.83	1.02	1.13	1.15	0.75	1.05
	RRu	0.99	1.09	1.28	1.29	0.92	1.11
	P	-	++	+++	+++	---	+++
Random	RR	1.26	1.10	1.28	1.14	1.44	1.19
	RRl	0.98	1.03	1.11	1.01	0.89	1.11
	RRu	1.61	1.18	1.48	1.28	2.34	1.28
	P	(+)	++	+++	+	N.S.	+++
Asymm	P	**	*	N.S.	(*)	*	*
Between	Chi		9.80	25.78	31.62	1.55	70.66
Between	df		1	1	1	1	4
Between	P		++	+++	+++	N.S.	***

-----  
 Within each study, results are included (in the following order of preference) for:

- 1) EXP Exposure = spouse (s), household (h), total (t)
- 2) TIM Time of exposure = current (c), ever (e), during marriage (m), in the past (p), in last 10 years (t)
- 3) TYP Disease type = both (b), fatal (f), non-fatal (n); also (CVD)-(Stroke) in preference to CVD.
- 4) UNX Unexp. to ETS (1), to ETS type (2), low exp to ETS type (4), never to type (8), to hh/work ETS (a)

