

Appendix Table A1 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Biochemical, total, household (overall), or parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 9) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 10) UNEXSO : not specific parent, neither parent, none in household, none
- 11) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 13) RACE : all in study or nearest available, otherwise by race
- 14) ONSET : yes, no (prevalence)
- 15) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A1 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Adjusted

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ALBA	1	b	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALDAWO	2	m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never	-
ALFRA1	2	b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non	-
ANDRAE	2	b	0	16	all	Eu:Sca	1985	1988	CS	3	AnyPar	NoParent	in life	non	-
ANNESI	1	b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
BARRET	1	b	9	11	all	Eu:Ita	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
BECKET	6	b	0	17	all	NAmer	1993	1996	CS	7	AnyHh	NoHhMemb	ever	never	-
BENER	1	b	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non	-
BRABIN	2	b	5	11	all	Eu:UK	1991	1994	CS	1	AnyHh	NoHhMemb	unspec	non	-
BURCHF	5	m	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-
BURCHF	8	f	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-
BUTZ	7	b	*	*	all	NAmer	1989	1992	CC	1	TotETS	None	current	non	-
CHEN1	1	b	1	1	all	As:FE	1985	1988	CS	0	AnyHh	NoHhMemb	in life	non	-
CHEN2	37	b	6	17	all	NAmer	1993	1996	CS	6	AnyHh	NoHhMemb	current	non	-
DELL	2	b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non	-
DODGE	12	b	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non	-
DOLD	21	b	9	11	all	Eu:Ger	1989	1992	CS	1	AnyHh	NoHhMemb	unspec	non	-
ECE	3	b	6	15	all	Eu:est	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
EHRL2	3	b	3	14	all	NAmer	1988	1992	CC	0	Biochem	Low	-	-	urine
FARBE2	2	b	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non	-
FAROOQ	1	b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never	-
FERGUS	7	b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non	-
FLYNN1	1	b	9	10	all	Auslia	1990	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-
FORAST	20	b	7	11	all	Eu:Ita	1987	1992	CS	9	AnyPar	NoParent	unspec	non	-
GILLIL	4	m	7	19	all	NAmer	1993	2001	CS	4	AnyHh	NoHhMemb	in life	non	-
GILLIL	12	f	7	19	all	NAmer	1993	2001	CS	4	AnyHh	NoHhMemb	in life	non	-
GOLD	11	b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non	-
GOREN1	3	b	7	11	all	As:ME	1980	1986	CS	0	AnyHh	NoHhMemb	current	non	-
GOREN2	5	b	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never	-
GORTM1	3	b	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non	-
GORTM2	1	b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non	-
GURKAN	1	b	3	15	all	Eu:est	1995	2002	CC	0	TotETS	None	unspec	non	-
HAJNAL	1	b	6	14	all	Eu:wst	1992	1999	CS	13	AnyHh	NoHhMemb	current	non	-
HU1	4	b	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non	-
HU2	23	b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non	-
JENKIN	5	b	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non	-
KAY	20	b	3	11	all	Eu:UK	*	1995	CS	1	AnyPar	NoParent	unspec	non	-
KENDIR	1	b	6	14	all	Eu:est	1993	1998	CS	0	AnyHh	NoHhMemb	current	non	-
KERSHA	7	b	0	5	all	Eu:UK	1983	1987	CC	1	AnyHh	LowHh	<3y	non	-
KIVITY	4	b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non	-
KUEHR	6	b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non	-
KUHR	4	b	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non	-
LAM1	8	b	12	15	all	As:FE	1994	1998	CS	4	AnyHh	NoHhMemb	unspec	non	-
LAM2	1	b	8	13	all	As:FE	1995	1999	CS	4	AnyHh	NoHhMemb	unspec	non	-
LEEDER	2	b	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non	-
LEROUX	2	b	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non	-
LIS	1	b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non	-
LISTER	3	b	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non	-
MATER	5	b	5	9	all	NAmer	1994	1997	CS	8	TotETS	None	current	non	-
MARTIN	5	m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MARTIN	6	f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MCCON2	2	b	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-
MCKEEV	4	b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never	-
MOYES1	1	b	6	7	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MOYES2	1	b	13	14	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MURRAY	5	m	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non	-
MURRAY	7	f	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non	-
NHANE3	28	b	4	16	w+b	NAmer	1988	2001	CS	6	Biochem	Low	-	-	blood
NILSSO	1	b	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non	-
OCONNE	1	b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non	-
ODDY	1	b	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-
POKHAR	2	b	11	15	all	As:cen	1995	2001	CC	5	AnyHh	NoHhMemb	unspec	non	-
PONSON	8	b	0	7	all	Auslia	1988	2000	Pr	6	AnyHh	NoHhMemb	<1m	non	-
RASANE	3	b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never	-
RATAGE	1	b	5	15	all	As:cen	1996	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
RENNIE	1	b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non	-
RONCH1	7	b	6	13	all	Eu:Ita	1974	2001	CS	2	AnyHh	Low	current	non	-
RONCH2	3	b	6	14	all	Eu:Ita	1992	2001	CS	0	AnyHh	Low	current	non	-
RONCH3	3	b	6	14	all	Eu:Ita	1998	2001	CS	0	AnyHh	Low	current	non	-
RONMAR	5	b	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non	-

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REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ROSASV	1	b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non	-
SELCUK	2	b	7	12	all	Eu:est	1994	1997	CS	6	AnyHh	NoHhMemb	unspec	non	-
SENNHA	1	b	1	16	all	Eu:wst	1990	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
SHAMSS	2	b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non	-
SHERMA	2	b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never	-
SIGURS	1	b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non	-
SOYSET	14	b	7	13	all	Eu:Sca	1989	1995	CS	5	Mother	NotMothr	in life	non	-
SQUILL	1	b	8	12	all	NAmer	1992	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
STANHO	2	b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non	-
TAYLOR	4	b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non	-
TIMONE	1	b	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	current	non	-
TSIMOY	1	b	12	17	all	NAmer	1985	1987	CS	0	TotETS	None	current	non	-
VARELA	1	b	6	15	all	SCAmer	1999	2001	CS	0	AnyHh	NoHhMemb	unspec	non	-
VAVILI	1	b	6	15	all	Eu:est	*	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
VENNER	6	m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VENNER	3	f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VERHOE	3	b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never	-
VONMAF	1	b	0	17	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	ever	never	-
WITHER	1	b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLFO1	2	b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO2	2	b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO3	2	b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
ZEIGER	1	b	0	7	all	NAmer	1981	1995	Pr	0	AnyHh	NoHhMemb	unspec	non	-

Appendix Table A1 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	1	b	0	68	70	34	32	0.91	(0.51- 1.64)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
BARRET	1	b	0	17	91	9	81	1.68	(0.71- 3.98)
BECKET	6	b	7	133	-	352	-	1.31	(1.03- 1.66)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BRABIN	2	b	1	204	-	114	-	1.06	(0.82- 1.37)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	7	b	1	28	-	74	-	1.18	(0.62- 2.24)
CHEN1	1	b	0	64	1668	14	467	1.28	(0.71- 2.30)
CHEN2	37	b	6	32	-	61	-	1.67	(0.96- 2.89)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	21	b	1	217	-	295	-	1.10	(0.92- 1.33)
ECE	3	b	0	298	1704	132	906	1.20	(0.96- 1.50)
EHRLI2	3	b	0	37	29	60	88	1.87	(1.04- 3.36)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FLYNN1	1	b	0	-	-	-	-	1.26	(0.95- 1.68)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
GILLIL	4	m	4	-	-	-	-	0.93	(0.74- 1.16)
GILLIL	12	f	4	-	-	-	-	1.05	(0.81- 1.35)
Subtotal GILLIL								0.98	(0.83- 1.16)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	3	b	0	80	766	50	514	1.07	(0.74- 1.56)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
GURKAN	1	b	0	50	22	90	74	1.87	(1.04- 3.37)
HAJNAL	1	b	13	-	-	-	-	1.20	(0.94- 1.54)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KENDIR	1	b	0	-	-	-	-	1.41	(1.16- 1.72)
KERSHA	7	b	1	71	-	15	-	3.12	(1.76- 5.54)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	6	b	1	28	-	134	-	0.68	(0.44- 1.06)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	8	b	4	163	-	201	-	0.92	(0.74- 1.15)
LAM2	1	b	4	-	-	-	-	0.91	(0.69- 1.18)
*LEEDER	2	b	1	48	-	11	-	1.33	(0.67- 2.64)
LEROUX	2	b	10	39	-	58	-	1.79	(1.06- 3.02)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
MAIER	5	b	8	33	-	73	-	2.26	(1.33- 3.85)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
MCCON2	2	b	0	2	45	13	163	0.56	(0.12- 2.56)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MOYES1	1	b	0	358	1017	295	886	1.06	(0.88- 1.26)
MOYES2	1	b	0	363	1285	252	842	0.94	(0.79- 1.13)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY								1.37	(0.91- 2.07)
NHANE3	28	b	6	424	-	175	-	1.16	(0.77- 1.76)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*ODDY	1	b	4	-	-	-	-	1.27	(1.04- 1.55)
POKHAR	2	b	5	27	-	13	-	3.33	(1.85- 7.65)
*PONSON	8	b	6	185	-	88	-	1.03	(0.83- 1.26)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)

Appendix Table A1 - 2

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Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
RATAGE 1	b	0		62	30	58	30	1.07	(0.58- 1.99)
RENNIE 1	b	6		-	-	-	-	1.02	(0.60- 1.75)
RONCH1 7	b	2		40	-	83	-	1.40	(1.02- 1.91)
RONCH2 3	b	0		60	351	93	726	1.33	(0.94- 1.89)
RONCH3 3	b	0		40	312	91	696	0.98	(0.66- 1.46)
*RONMAR 5	b	9		-	-	-	-	1.36	(0.82- 2.25)
ROSASV 1	b	0		9	6	65	68	1.57	(0.53- 4.66)
SELCUK 2	b	6		689	-	193	-	1.35	(1.12- 1.62)
SENNHA 1	b	0		119	1631	132	2268	1.25	(0.97- 1.62)
SHAMSS 2	b	0		-	-	-	-	1.39	(1.12- 1.74)
*SHERMA 2	b	2		-	-	-	-	1.18	(0.76- 1.83)
*SIGURS 1	b	0		-	-	-	-	1.20	(0.41- 3.60)
SOYSET 14	b	5		35	-	16	-	2.80	(1.30- 6.10)
SQUILL 1	b	0		38	80	97	226	1.11	(0.70- 1.74)
STANHO 2	b	0		7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR 4	b	0		-	4855	-	4815	0.96	(0.77- 1.22)
TIMONE 1	b	0		10	225	170	2139	0.56	(0.29- 1.07)
TSIMOY 1	b	0		9	123	4	57	1.04	(0.31- 3.53)
VARELA 1	b	0		27	13	7	10	2.97	(0.92- 9.57)
VAVILI 1	b	0		60	74	40	30	0.61	(0.34- 1.09)
VENNER 6	m	0		217	477	48	116	1.10	(0.76- 1.60)
VENNER 3	f	0		214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE 3	b	0		78	185	39	72	0.78	(0.49- 1.25)
VONMAF 1	b	0		166	766	217	1260	1.26	(1.01- 1.57)
WITHER 1	b	0		202	633	296	1107	1.19	(0.97- 1.46)
WOLFO1 2	b	7		-	-	-	-	1.12	(0.63- 1.98)
WOLFO2 2	b	7		-	-	-	-	1.35	(0.75- 2.43)
WOLFO3 2	b	10		-	-	-	-	1.39	(0.93- 2.06)
*ZEIGER 1	b	0		8	22	42	143	1.24	(0.67- 2.28)
Partial Totals				9826	31856	9999	40982		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALBA 1	b	0		-0.09	11.15	1.01	0.7647
ALDAWO 2	m	0		0.76	8.40	2.54	0.0274
ALFRA1 2	b	0		0.41	22.65	0.91	0.0498
ANDRAE 2	b	3		-0.01	54.89	2.69	0.9406
ANNESI 1	b	0		0.25	89.09	0.16	0.0166
BARRET 1	b	0		0.52	5.17	0.49	0.2373
BECKET 6	b	7		0.27	67.46	0.23	0.0266
BENER 1	b	0		0.24	19.32	0.02	0.2839
BRABIN 2	b	1		0.06	58.33	1.36	0.6563
BURCHF 5	m	1		0.22	32.51	0.00	0.2200
BURCHF 8	f	1		0.00	24.97	1.11	1.0000
Subtotal BURCHF				-0.21	57.49	1.11	
BUTZ 7	b	1		0.17	9.31	0.02	0.6135
CHEN1 1	b	0		0.25	11.14	0.01	0.4102
CHEN2 37	b	6		0.51	12.65	1.15	0.0681
DELL 2	b	0		0.42	18.30	0.79	0.0733
DODGE 12	b	1		0.41	7.12	0.27	0.2794
DOLD 21	b	1		0.10	113.12	1.52	0.3107
ECE 3	b	0		0.18	79.23	0.06	0.1041
EHRLI2 3	b	0		0.63	11.17	1.93	0.0363
FARBE2 2	b	3		0.41	57.72	2.33	0.0017
FAROOQ 1	b	0		0.25	72.93	0.14	0.0297
*FERGUS 7	b	0		0.04	37.52	1.11	0.8106
FLYNN1 1	b	0		0.23	47.28	0.02	0.1120
FORAST 20	b	9		0.25	37.10	0.05	0.1327
GILLIL 4	m	4		-0.07	76.04	6.12	0.5268
GILLIL 12	f	4		0.05	58.89	1.55	0.7081
Subtotal GILLIL				-0.45	134.93	7.67	
GOLD 11	b	0		0.26	211.41	0.42	0.0002
GOREN1 3	b	0		0.07	27.97	0.55	0.7071
GOREN2 5	b	2		0.22	99.84	0.00	0.0316
GORTM1 3	b	7		0.40	36.85	1.30	0.0155
GORTM2 1	b	0		0.63	6.99	1.20	0.0978

Appendix Table A1 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
GURKAN	1	b	0	0.63	11.10	1.90	0.0372
HAJNAL	1	b	13	0.18	63.05	0.05	0.1477
HU1	4	b	7	-0.22	12.73	2.40	0.4259
HU2	23	b	3	0.44	31.16	1.61	0.0144
JENKIN	5	b	7	0.23	116.41	0.05	0.0126
KAY	20	b	1	0.35	38.89	0.76	0.0288
KENDIR	1	b	0	0.34	99.03	1.74	0.0006
KERSHA	7	b	1	1.14	11.69	10.04	0.0001
KIVITY	4	b	0	0.59	13.44	1.91	0.0311
KUEHR	6	b	1	-0.39	19.88	7.08	0.0855
KUHR	4	b	0	0.70	5.57	1.32	0.0997
LAM1	8	b	4	-0.08	79.06	6.86	0.4585
LAM2	1	b	4	-0.09	53.37	4.98	0.4908
*LEEDER	2	b	1	0.29	8.17	0.04	0.4149
LEROUX	2	b	10	0.58	14.02	1.93	0.0293
LIS	1	b	0	0.31	37.30	0.35	0.0604
LISTER	3	b	8	0.42	64.33	2.77	0.0008
MAIER	5	b	8	0.82	13.60	4.97	0.0026
*MARTIN	5	m	1	0.56	11.93	1.45	0.0533
*MARTIN	6	f	1	0.68	5.55	1.24	0.1075
Subtotal	MARTIN			0.82	17.48	2.69	
MCCON2	2	b	0	-0.58	1.65	1.05	0.4523
*MCKEEV	4	b	0	0.27	1119.12	3.99	0.0000
MOYES1	1	b	0	0.06	120.55	2.91	0.5411
MOYES2	1	b	0	-0.06	115.09	8.32	0.5355
MURRAY	5	m	1	0.34	14.28	0.25	0.1941
MURRAY	7	f	1	0.27	8.50	0.03	0.4311
Subtotal	MURRAY			0.19	22.78	0.28	
NHANE3	28	b	6	0.15	22.48	0.09	0.4816
NILSSO	1	b	0	0.00	31.98	1.43	1.0000
OCONNE	1	b	0	0.25	33.98	0.06	0.1384
*ODDY	1	b	4	0.24	96.50	0.08	0.0189
POKHAR	2	b	5	1.20	7.63	7.50	0.0009
*PONSON	8	b	6	0.03	88.18	2.91	0.7813
RASANE	3	b	3	0.46	27.24	1.74	0.0155
RATAGE	1	b	0	0.07	10.00	0.21	0.8330
RENNIE	1	b	6	0.02	13.41	0.49	0.9422
RONCH1	7	b	2	0.34	39.05	0.61	0.0355
RONCH2	3	b	0	0.29	31.60	0.19	0.1048
RONCH3	3	b	0	-0.02	24.61	1.31	0.9224
*ROMMAR	5	b	9	0.31	15.08	0.14	0.2324
ROSASV	1	b	0	0.45	3.25	0.19	0.4168
SELCUK	2	b	6	0.30	112.79	0.89	0.0014
SENNHA	1	b	0	0.23	58.71	0.01	0.0833
SHAMSS	2	b	0	0.33	79.17	1.11	0.0034
*SHERMA	2	b	2	0.17	19.90	0.04	0.4603
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOYSET	14	b	5	1.03	6.43	4.31	0.0090
SQUILL	1	b	0	0.10	18.67	0.22	0.6613
STANHO	2	b	0	-0.92	4.90	6.24	0.0423
*TAYLOR	4	b	0	-0.04	72.55	4.61	0.7281
TIMONE	1	b	0	-0.58	9.03	5.67	0.0808
TSIMOY	1	b	0	0.04	2.59	0.07	0.9464
VARELA	1	b	0	1.09	2.80	2.15	0.0687
VAVILI	1	b	0	-0.50	11.30	5.67	0.0945
VENNER	6	m	0	0.09	27.66	0.37	0.6182
VENNER	3	f	0	0.18	28.98	0.03	0.3399
Subtotal	VENNER			-0.15	56.63	0.41	
VERHOE	3	b	0	-0.25	17.31	3.69	0.2972
VONMAF	1	b	0	0.23	78.55	0.03	0.0417
WITHER	1	b	0	0.18	92.49	0.11	0.0890
WOLFO1	2	b	7	0.11	11.72	0.11	0.6981
WOLFO2	2	b	7	0.30	11.12	0.09	0.3170
WOLFO3	2	b	10	0.33	24.30	0.34	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.00	0.4914

Appendix Table A1 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

RR data

	N	93
	NS	88
	Wt	4665.56
Het	Chi	153.76
Het	df	92
Het	P	***
Fixed	RR	1.24
	RRl	1.20
	RRu	1.27
	P	+++
Random	RR	1.23
	RRl	1.17
	RRu	1.28
	P	+++
Asymm	P	N.S.

Appendix Table A1 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

RR data

	N	93						
	NS	88						
	Wt	4665.56						
	Het Chi	153.76						
	Het df	92						
	Het P	***						
Fixed	RR	1.24						
	RRl	1.20						
	RRu	1.27						
	P	+++						
Random	RR	1.23						
	RRl	1.17						
	RRu	1.28						
	P	+++						
Asymm	P	N.S.						
			<u>Sex</u>					
		both	male	female			Total	
	N	82	6	5			93	
	NS	82	6	5			93	
	Wt	4367.85	170.83	126.89			4665.56	
	Het Chi	138.90	9.59	2.69			153.76	
	Het df	81	5	4			92	
	Het P	***	(*)	N.S.			***	
Fixed	RR	1.24	1.14	1.12			1.24	
	RRl	1.21	0.98	0.94			1.20	
	RRu	1.28	1.32	1.33			1.27	
	P	+++	(+)	N.S.			+++	
Random	RR	1.23	1.24	1.12			1.23	
	RRl	1.18	0.99	0.94			1.17	
	RRu	1.29	1.57	1.33			1.28	
	P	+++	(+)	N.S.			+++	
Between	Chi						2.58	
Between	df						2	
Between	P						N.S.	
								<u>Continent</u>
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	30	2	39	13	9		93
	NS	26	2	39	12	9		88
	Wt	930.75	6.05	2628.55	409.44	690.76		4665.56
	Het Chi	31.76	0.61	67.50	24.26	19.47		153.76
	Het df	29	1	38	12	8		92
	Het P	N.S.	N.S.	**	*	*		***
Fixed	RR	1.27	2.11	1.26	1.16	1.13		1.24
	RRl	1.19	0.95	1.21	1.05	1.05		1.20
	RRu	1.35	4.68	1.31	1.28	1.22		1.27
	P	+++	(+)	+++	++	+++		+++
Random	RR	1.27	2.11	1.23	1.23	1.13		1.23
	RRl	1.18	0.95	1.15	1.06	1.00		1.17
	RRu	1.37	4.68	1.32	1.43	1.28		1.28
	P	+++	(+)	+++	++	+		+++
Between	Chi							10.17
Between	df							4
Between	P							*

Appendix Table A1 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Lifetime Asthma						
		Adjusted						
		Country in Europe					Total	
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
RR data								
	N	10	5	6	7	5	6	39
	NS	10	5	6	7	5	6	39
	Wt	1642.42	137.54	185.70	147.91	164.25	350.75	2628.55
	Het Chi	19.36	2.50	8.40	14.90	6.39	9.35	67.50
	Het df	9	4	5	6	4	5	38
	Het P	*	N.S.	N.S.	*	N.S.	(*)	**
Fixed	RR	1.29	1.28	1.11	1.13	1.18	1.31	1.26
	RRl	1.23	1.08	0.96	0.97	1.02	1.18	1.21
	RRu	1.35	1.51	1.28	1.33	1.38	1.46	1.31
	P	+++	++	N.S.	N.S.	+	+++	+++
Random	RR	1.27	1.28	1.13	1.18	1.17	1.29	1.23
	RRl	1.15	1.08	0.90	0.89	0.94	1.10	1.15
	RRu	1.41	1.51	1.42	1.57	1.44	1.51	1.32
	P	+++	++	N.S.	N.S.	N.S.	++	+++
Between	Chi							6.60
Between	df							5
Between	P							N.S.
		<u>Country in Asia</u>						
		FarEast	Cent/SE	MidlEast	Total			
	N	5	2	6	13			
	NS	4	2	6	12			
	Wt	200.19	17.62	191.63	409.44			
	Het Chi	2.86	5.59	5.26	24.26			
	Het df	4	1	5	12			
	Het P	N.S.	*	N.S.	*			
Fixed	RR	0.99	1.75	1.31	1.16			
	RRl	0.87	1.10	1.14	1.05			
	RRu	1.14	2.79	1.51	1.28			
	P	N.S.	+	+++	++			
Random	RR	0.99	1.86	1.32	1.23			
	RRl	0.87	0.61	1.13	1.06			
	RRu	1.14	5.67	1.53	1.43			
	P	N.S.	N.S.	+++	++			
Between	Chi				10.56			
Between	df				2			
Between	P				**			
		<u>Start year of study</u>						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N	5	13	26	38	11	93	
	NS	4	12	25	36	11	88	
	Wt	216.04	542.54	843.19	1505.28	1558.51	4665.56	
	Het Chi	1.27	17.62	35.37	65.00	32.26	153.76	
	Het df	4	12	25	37	10	92	
	Het P	N.S.	N.S.	(*)	**	***	***	
Fixed	RR	1.23	1.24	1.27	1.20	1.25	1.24	
	RRl	1.08	1.14	1.19	1.14	1.19	1.20	
	RRu	1.41	1.35	1.36	1.26	1.31	1.27	
	P	++	+++	+++	+++	+++	+++	
Random	RR	1.23	1.23	1.31	1.20	1.17	1.23	
	RRl	1.08	1.09	1.19	1.12	1.01	1.17	
	RRu	1.41	1.39	1.43	1.30	1.35	1.28	
	P	++	+++	+++	+++	+	+++	
Between	Chi						2.25	
Between	df						4	
Between	P						N.S.	

Appendix Table A1 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Lifetime Asthma Adjusted				
		Publication year				Total
		<1990	1990-94	1995-99	2000+	
RR data	N	16	18	33	26	93
	NS	15	16	33	24	88
	Wt	375.49	788.41	1591.08	1910.59	4665.56
Het	Chi	28.16	21.31	58.82	42.07	153.76
Het	df	15	17	32	25	92
Het	P	*	N.S.	**	*	***
Fixed	RR	1.14	1.22	1.23	1.26	1.24
	RR1	1.03	1.14	1.17	1.21	1.20
	RRu	1.27	1.31	1.29	1.32	1.27
	P	++	+++	+++	+++	+++
Random	RR	1.18	1.22	1.24	1.24	1.23
	RR1	1.01	1.12	1.15	1.14	1.17
	RRu	1.38	1.33	1.33	1.35	1.28
	P	+	+++	+++	+++	+++
Between	Chi					3.41
Between	df					3
Between	P					N.S.
		Study type				
		CC	Pr	CS	Total	
	N	12	15	66	93	
	NS	12	14	62	88	
	Wt	156.56	1737.82	2771.18	4665.56	
Het	Chi	32.16	16.19	102.08	153.76	
Het	df	11	14	65	92	
Het	P	***	N.S.	**	***	
Fixed	RR	1.29	1.27	1.21	1.24	
	RR1	1.10	1.22	1.16	1.20	
	RRu	1.51	1.34	1.25	1.27	
	P	++	+++	+++	+++	
Random	RR	1.34	1.25	1.22	1.23	
	RR1	1.01	1.17	1.16	1.17	
	RRu	1.77	1.34	1.28	1.28	
	P	+	+++	+++	+++	
Between	Chi					3.33
Between	df					2
Between	P					N.S.
		Highest age in RR				
		0-9	10-14	15+	unknown	Total
	N	19	35	38	1	93
	NS	19	34	34	1	88
	Wt	729.70	2419.92	1506.63	9.31	4665.56
Het	Chi	37.13	57.04	59.56	0.00	153.76
Het	df	18	34	37	0	92
Het	P	**	**	*	N.S.	***
Fixed	RR	1.24	1.24	1.23	1.18	1.24
	RR1	1.15	1.19	1.17	0.62	1.20
	RRu	1.33	1.29	1.30	2.24	1.27
	P	+++	+++	+++	N.S.	+++
Random	RR	1.28	1.19	1.25	1.18	1.23
	RR1	1.13	1.11	1.16	0.62	1.17
	RRu	1.44	1.28	1.34	2.24	1.28
	P	+++	+++	+++	N.S.	+++
Between	Chi					0.03
Between	df					3
Between	P					N.S.

Appendix Table A1 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Lifetime Asthma					
		Adjusted					
		Population setting					
		general	school	medical	allergy	other	Total
RR data							
	N	20	45	20	3	5	93
	NS	18	44	19	2	5	88
	Wt	610.64	2112.41	1732.79	67.01	142.71	4665.56
Het	Chi	22.22	94.38	18.24	0.15	8.04	153.76
Het	df	19	44	19	2	4	92
Het	P	N.S.	***	N.S.	N.S.	(*)	***
Fixed	RR	1.25	1.19	1.30	1.16	1.07	1.24
	RRl	1.15	1.14	1.24	0.91	0.91	1.20
	RRu	1.35	1.24	1.37	1.47	1.26	1.27
	P	+++	+++	+++	N.S.	N.S.	+++
Random	RR	1.26	1.20	1.30	1.16	1.06	1.23
	RRl	1.15	1.12	1.24	0.91	0.79	1.17
	RRu	1.38	1.29	1.37	1.47	1.41	1.28
	P	+++	+++	+++	N.S.	N.S.	+++
Between	Chi						10.74
Between	df						4
Between	P						*
		<u>Respondent for smoking</u>					
		child	parent	med rec	mix/oth	Total	
	N	7	61	3	22	93	
	NS	7	60	3	18	88	
	Wt	299.93	2304.67	1226.03	834.93	4665.56	
Het	Chi	20.08	89.02	0.03	25.92	153.76	
Het	df	6	60	2	21	92	
Het	P	**	**	N.S.	N.S.	***	
Fixed	RR	0.99	1.24	1.31	1.21	1.24	
	RRl	0.89	1.19	1.24	1.13	1.20	
	RRu	1.11	1.29	1.38	1.30	1.27	
	P	N.S.	+++	+++	+++	+++	
Random	RR	1.05	1.25	1.31	1.21	1.23	
	RRl	0.82	1.18	1.24	1.12	1.17	
	RRu	1.35	1.32	1.38	1.32	1.28	
	P	N.S.	+++	+++	+++	+++	
Between	Chi						18.71
Between	df						3
Between	P						***
		<u>Child smokers</u>			Total		
		exc/none	included	ignored	Total		
	N	20	7	66	93		
	NS	15	7	66	88		
	Wt	562.91	407.58	3695.07	4665.56		
Het	Chi	25.97	6.71	111.29	153.76		
Het	df	19	6	65	92		
Het	P	N.S.	N.S.	***	***		
Fixed	RR	1.09	1.29	1.25	1.24		
	RRl	1.01	1.17	1.21	1.20		
	RRu	1.19	1.42	1.29	1.27		
	P	+	+++	+++	+++		
Random	RR	1.12	1.29	1.24	1.23		
	RRl	1.01	1.16	1.18	1.17		
	RRu	1.25	1.44	1.31	1.28		
	P	+	+++	+++	+++		
Between	Chi					9.79	
Between	df					2	
Between	P					**	

Appendix Table A1 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

Lifetime Asthma
AdjustedPhysician diagnosis (lifetime)
yes no/mixed Total

RR data

N	53	40	93
NS	50	38	88
Wt	3134.15	1531.41	4665.56
Het Chi	87.69	65.14	153.76
Het df	52	39	92
Het P	**	**	***
Fixed RR	1.22	1.26	1.24
RRl	1.18	1.20	1.20
RRu	1.27	1.33	1.27
P	+++	+++	+++
Random RR	1.20	1.26	1.23
RRl	1.14	1.18	1.17
RRu	1.27	1.36	1.28
P	+++	+++	+++
Between Chi			0.94
Between df			1
Between P			N.S.

Respondent for diagnosis (lifetime)

	medrec	parent	child	mixed	Total
N	12	59	10	12	93
NS	11	56	10	11	88
Wt	1375.96	2483.83	375.80	429.97	4665.56
Het Chi	13.88	80.13	26.51	16.65	153.76
Het df	11	58	9	11	92
Het P	N.S.	*	**	N.S.	***
Fixed RR	1.30	1.23	1.02	1.25	1.24
RRl	1.23	1.19	0.93	1.14	1.20
RRu	1.37	1.28	1.13	1.37	1.27
P	+++	+++	N.S.	+++	+++
Random RR	1.27	1.25	1.07	1.24	1.23
RRl	1.14	1.18	0.88	1.07	1.17
RRu	1.41	1.31	1.31	1.43	1.28
P	+++	+++	N.S.	++	+++
Between Chi					16.59
Between df					3
Between P					***

Questionnaire for symptoms

	ISAAC	ATS	other	Total
N	13	11	69	93
NS	13	10	65	88
Wt	752.67	491.80	3421.09	4665.56
Het Chi	29.24	5.08	115.79	153.76
Het df	12	10	68	92
Het P	**	N.S.	***	***
Fixed RR	1.16	1.25	1.25	1.24
RRl	1.08	1.14	1.21	1.20
RRu	1.24	1.36	1.29	1.27
P	+++	+++	+++	+++
Random RR	1.20	1.25	1.24	1.23
RRl	1.07	1.14	1.17	1.17
RRu	1.36	1.36	1.31	1.28
P	++	+++	+++	+++
Between Chi				3.66
Between df				2
Between P				N.S.

Appendix Table A1 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Lifetime Asthma Adjusted					
		Analysis type		Total			
		prevlnce	onset				
RR data							
	N	81	12	93			
	NS	77	11	88			
	Wt	3177.42	1488.14	4665.56			
	Het Chi	137.74	14.70	153.76			
	Het df	80	11	92			
	Het P	***	N.S.	***			
	Fixed RR	1.22	1.27	1.24			
	RRl	1.18	1.20	1.20			
	RRu	1.26	1.33	1.27			
	P	+++	+++	+++			
	Random RR	1.23	1.20	1.23			
	RRl	1.17	1.09	1.17			
	RRu	1.30	1.33	1.28			
	P	+++	+++	+++			
	Between Chi			1.32			
	Between df			1			
	Between P			N.S.			
		<u>Number of cases (lifetime asthma)</u>					
		1-50	51-100	101-200	201+	unknown	Total
	N	11	15	25	41	1	93
	NS	11	14	25	37	1	88
	Wt	58.05	171.58	535.15	3863.48	37.30	4665.56
	Het Chi	18.12	23.79	43.83	62.17	0.00	153.76
	Het df	10	14	24	40	0	92
	Het P	(*)	*	**	*	N.S.	***
	Fixed RR	1.50	1.41	1.23	1.22	1.36	1.24
	RRl	1.16	1.21	1.13	1.19	0.99	1.20
	RRu	1.94	1.64	1.34	1.26	1.87	1.27
	P	++	+++	+++	+++	(+)	+++
	Random RR	1.46	1.43	1.23	1.20	1.36	1.23
	RRl	1.02	1.17	1.09	1.15	0.99	1.17
	RRu	2.09	1.75	1.38	1.25	1.87	1.28
	P	+	+++	+++	+++	(+)	+++
	Between Chi						5.85
	Between df						4
	Between P						N.S.
		<u>Study adjusts for or is matched on sex</u>					
		Yes	No	Total			
	N	39	54	93			
	NS	37	51	88			
	Wt	1585.55	3080.01	4665.56			
	Het Chi	64.69	88.96	153.76			
	Het df	38	53	92			
	Het P	**	**	***			
	Fixed RR	1.23	1.24	1.24			
	RRl	1.17	1.20	1.20			
	RRu	1.29	1.28	1.27			
	P	+++	+++	+++			
	Random RR	1.25	1.22	1.23			
	RRl	1.16	1.15	1.17			
	RRu	1.34	1.29	1.28			
	P	+++	+++	+++			
	Between Chi			0.11			
	Between df			1			
	Between P			N.S.			

Appendix Table A1 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Lifetime Asthma		
		Adjusted		
		<u>Study adjusts for or is matched on age</u>		
		Yes	No	Total
RR data				
	N	22	71	93
	NS	20	68	88
	Wt	984.55	3681.00	4665.56
	Het Chi	40.04	112.77	153.76
	Het df	21	70	92
	Het P	**	***	***
Fixed	RR	1.20	1.24	1.24
	RRl	1.13	1.20	1.20
	RRu	1.28	1.29	1.27
	P	+++	+++	+++
Random	RR	1.21	1.23	1.23
	RRl	1.10	1.17	1.17
	RRu	1.33	1.30	1.28
	P	+++	+++	+++
Between	Chi			0.96
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on race

	N	13	80	93
	NS	12	76	88
	Wt	597.24	4068.32	4665.56
	Het Chi	25.18	127.93	153.76
	Het df	12	79	92
	Het P	*	***	***
Fixed	RR	1.27	1.23	1.24
	RRl	1.18	1.19	1.20
	RRu	1.38	1.27	1.27
	P	+++	+++	+++
Random	RR	1.32	1.21	1.23
	RRl	1.15	1.16	1.17
	RRu	1.51	1.27	1.28
	P	+++	+++	+++
Between	Chi			0.66
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on location

	N	19	74	93
	NS	18	70	88
	Wt	1144.95	3520.61	4665.56
	Het Chi	30.00	120.16	153.76
	Het df	18	73	92
	Het P	*	***	***
Fixed	RR	1.18	1.25	1.24
	RRl	1.11	1.21	1.20
	RRu	1.25	1.30	1.27
	P	+++	+++	+++
Random	RR	1.17	1.25	1.23
	RRl	1.08	1.19	1.17
	RRu	1.26	1.32	1.28
	P	+++	+++	+++
Between	Chi			3.60
Between	df			1
Between	P			(*)

Appendix Table A1 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

Lifetime Asthma
Adjusted
Study adjusts for or is matched on SES

	Yes	No	Total
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RR data

N	26	67	93
NS	25	63	88
Wt	1076.80	3588.75	4665.56
Het Chi	49.27	104.25	153.76
Het df	25	66	92
Het P	**	**	***
Fixed RR	1.22	1.24	1.24
RRl	1.15	1.20	1.20
RRu	1.29	1.28	1.27
P	+++	+++	+++
Random RR	1.26	1.22	1.23
RRl	1.14	1.16	1.17
RRu	1.38	1.28	1.28
P	+++	+++	+++
Between Chi			0.24
Between df			1
Between P			N.S.

Study adjusts for family medical history

N	34	59	93
NS	32	56	88
Wt	1627.44	3038.12	4665.56
Het Chi	46.99	106.68	153.76
Het df	33	58	92
Het P	(*)	***	***
Fixed RR	1.23	1.24	1.24
RRl	1.17	1.20	1.20
RRu	1.29	1.28	1.27
P	+++	+++	+++
Random RR	1.24	1.21	1.23
RRl	1.16	1.14	1.17
RRu	1.32	1.29	1.28
P	+++	+++	+++
Between Chi			0.09
Between df			1
Between P			N.S.

Study adjusts for family composition

N	17	76	93
NS	17	71	88
Wt	792.74	3872.82	4665.56
Het Chi	13.97	138.59	153.76
Het df	16	75	92
Het P	N.S.	***	***
Fixed RR	1.28	1.23	1.24
RRl	1.19	1.19	1.20
RRu	1.37	1.27	1.27
P	+++	+++	+++
Random RR	1.28	1.21	1.23
RRl	1.19	1.15	1.17
RRu	1.37	1.28	1.28
P	+++	+++	+++
Between Chi			1.20
Between df			1
Between P			N.S.

Appendix Table A1 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

Lifetime Asthma
Adjusted
Study adjusts for child's medical history

	Yes	No	Total
--	-----	----	-------

RR data

N	30	63	93
NS	27	61	88
Wt	1210.34	3455.22	4665.56
Het Chi	50.86	102.57	153.76
Het df	29	62	92
Het P	**	***	***
Fixed RR	1.22	1.24	1.24
RR1	1.15	1.20	1.20
RRu	1.29	1.28	1.27
P	+++	+++	+++
Random RR	1.25	1.22	1.23
RR1	1.15	1.15	1.17
RRu	1.36	1.28	1.28
P	+++	+++	+++
Between Chi			0.34
Between df			1
Between P			N.S.

Study adjusts for in utero exposure

N	5	88	93
NS	4	84	88
Wt	176.57	4488.99	4665.56
Het Chi	8.37	139.06	153.76
Het df	4	87	92
Het P	(*)	***	***
Fixed RR	1.03	1.24	1.24
RR1	0.88	1.21	1.20
RRu	1.19	1.28	1.27
P	N.S.	+++	+++
Random RR	1.07	1.24	1.23
RR1	0.84	1.18	1.17
RRu	1.37	1.29	1.28
P	N.S.	+++	+++
Between Chi			6.34
Between df			1
Between P			*

Study adjusts for in life exposure

N	16	77	93
NS	15	73	88
Wt	867.75	3797.81	4665.56
Het Chi	23.56	129.09	153.76
Het df	15	76	92
Het P	(*)	***	***
Fixed RR	1.20	1.24	1.24
RR1	1.12	1.21	1.20
RRu	1.28	1.28	1.27
P	+++	+++	+++
Random RR	1.20	1.23	1.23
RR1	1.10	1.17	1.17
RRu	1.31	1.30	1.28
P	+++	+++	+++
Between Chi			1.11
Between df			1
Between P			N.S.

Appendix Table A1 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Lifetime Asthma						
		Adjusted						
		Exposed group : Source/who is smoker						
		Biochem	TotETS	AnyHh	AnyPar	Mother	Father	Total
RR data	N	2	4	39	19	27	2	93
	NS	2	4	38	18	25	1	88
	Wt	33.65	36.60	1851.33	518.57	2168.78	56.63	4665.56
	Het Chi	1.71	3.06	69.18	17.41	41.46	0.10	153.76
	Het df	1	3	38	18	26	1	92
	Het P	N.S.	N.S.	**	N.S.	*	N.S.	***
	Fixed RR	1.36	1.71	1.15	1.22	1.31	1.15	1.24
	RRl	0.97	1.24	1.10	1.12	1.25	0.88	1.20
	RRu	1.91	2.37	1.21	1.33	1.36	1.49	1.27
	P	(+)	++	+++	+++	+++	N.S.	+++
	Random RR	1.41	1.71	1.16	1.22	1.32	1.15	1.23
	RRl	0.89	1.23	1.09	1.12	1.22	0.88	1.17
	RRu	2.23	2.37	1.24	1.33	1.42	1.49	1.28
	P	N.S.	++	+++	+++	+++	N.S.	+++
	Between Chi							20.86
	Between df							5
	Between P							***
		<u>Exposed group : when Exposed</u>						
		lif/ev	age<7y	current	unspec	other	Total	
	N	23	6	29	32	3	93	
	NS	21	5	28	31	3	88	
	Wt	1917.74	348.63	974.52	1359.86	64.81	4665.56	
	Het Chi	36.93	23.12	36.68	50.86	1.98	153.76	
	Het df	22	5	28	31	2	92	
	Het P	*	***	N.S.	*	N.S.	***	
	Fixed RR	1.24	1.23	1.27	1.19	1.45	1.24	
	RRl	1.19	1.11	1.19	1.13	1.14	1.20	
	RRu	1.30	1.37	1.35	1.26	1.85	1.27	
	P	+++	+++	+++	+++	++	+++	
	Random RR	1.18	1.34	1.26	1.22	1.45	1.23	
	RRl	1.09	0.99	1.17	1.13	1.14	1.17	
	RRu	1.28	1.81	1.36	1.32	1.85	1.28	
	P	+++	(+)	+++	+++	++	+++	
	Between Chi							4.18
	Between df							4
	Between P							N.S.
		<u>Unexposed group : who is smoker</u>						
		NoHhMemb	NoParent	NotSpPar	Total			
	N	45	21	27	93			
	NS	44	19	25	88			
	Wt	1921.58	575.20	2168.78	4665.56			
	Het Chi	80.40	17.69	41.46	153.76			
	Het df	44	20	26	92			
	Het P	***	N.S.	*	***			
	Fixed RR	1.16	1.21	1.31	1.24			
	RRl	1.11	1.11	1.25	1.20			
	RRu	1.22	1.31	1.36	1.27			
	P	+++	+++	+++	+++			
	Random RR	1.19	1.21	1.32	1.23			
	RRl	1.11	1.11	1.22	1.17			
	RRu	1.27	1.31	1.42	1.28			
	P	+++	+++	+++	+++			
	Between Chi				14.22			
	Between df				2			
	Between P				***			

Appendix Table A1 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Unexposed group : time		Lifetime Asthma Adjusted				
		non	never non+othr	NA	Total			
RR data								
	N	80	11	2	93			
	NS	76	10	2	88			
	Wt	3064.52	1567.38	33.65	4665.56			
Het	Chi	136.98	9.29	1.71	153.76			
Het	df	79	10	1	92			
Het	P	***	N.S.	N.S.	***			
Fixed	RR	1.20	1.29	1.36	1.24			
	RR1	1.16	1.23	0.97	1.20			
	RRu	1.25	1.36	1.91	1.27			
	P	+++	+++	(+)	+++			
Random	RR	1.22	1.29	1.41	1.23			
	RR1	1.16	1.23	0.89	1.17			
	RRu	1.29	1.36	2.23	1.28			
	P	+++	+++	N.S.	+++			
Between	Chi				5.78			
Between	df				2			
Between	P				(*)			
		<u>Number of adjustment variables</u>						
		0	1	2	3-5	6-9	10+	Total
	N	47	14	3	11	15	3	93
	NS	46	11	3	10	15	3	88
	Wt	2856.33	364.24	158.79	548.92	635.91	101.37	4665.56
Het	Chi	68.13	24.77	0.54	36.57	16.59	1.94	153.76
Het	df	46	13	2	10	14	2	92
Het	P	*	*	N.S.	***	N.S.	N.S.	***
Fixed	RR	1.24	1.19	1.27	1.14	1.29	1.31	1.24
	RR1	1.20	1.08	1.09	1.05	1.19	1.08	1.20
	RRu	1.29	1.32	1.48	1.24	1.39	1.60	1.27
	P	+++	+++	++	++	+++	++	+++
Random	RR	1.21	1.26	1.27	1.23	1.29	1.31	1.23
	RR1	1.14	1.07	1.09	1.04	1.18	1.08	1.17
	RRu	1.28	1.48	1.48	1.46	1.41	1.60	1.28
	P	+++	++	++	+	+++	++	+++
Between	Chi							5.23
Between	df							5
Between	P							N.S.
		<u>RR adjusted for sex</u>						
		Yes	No	Total				
	N	24	69	93				
	NS	24	64	88				
	Wt	1013.95	3651.60	4665.56				
Het	Chi	39.72	113.79	153.76				
Het	df	23	68	92				
Het	P	*	***	***				
Fixed	RR	1.25	1.23	1.24				
	RR1	1.18	1.19	1.20				
	RRu	1.33	1.27	1.27				
	P	+++	+++	+++				
Random	RR	1.27	1.21	1.23				
	RR1	1.17	1.15	1.17				
	RRu	1.39	1.28	1.28				
	P	+++	+++	+++				
Between	Chi			0.25				
Between	df			1				
Between	P			N.S.				

Appendix Table A1 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Lifetime Asthma Adjusted		
		<u>RR adjusted for age</u>		Total
		Yes	No	
RR data				
	N	19	74	93
	NS	17	71	88
	Wt	754.36	3911.20	4665.56
Het	Chi	29.65	121.47	153.76
Het	df	18	73	92
Het	P	*	***	***
Fixed	RR	1.17	1.25	1.24
	RRl	1.09	1.21	1.20
	RRu	1.26	1.29	1.27
	P	+++	+++	+++
Random	RR	1.18	1.24	1.23
	RRl	1.07	1.18	1.17
	RRu	1.31	1.30	1.28
	P	+++	+++	+++
Between	Chi			2.64
Between	df			1
Between	P			N.S.
		<u>RR adjusted for other ETS</u>		
	N	6	87	93
	NS	5	83	88
	Wt	255.27	4410.29	4665.56
Het	Chi	17.96	135.29	153.76
Het	df	5	86	92
Het	P	**	***	***
Fixed	RR	1.18	1.24	1.24
	RRl	1.05	1.20	1.20
	RRu	1.34	1.28	1.27
	P	++	+++	+++
Random	RR	1.23	1.23	1.23
	RRl	0.95	1.17	1.17
	RRu	1.59	1.28	1.28
	P	N.S.	+++	+++
Between	Chi			0.51
Between	df			1
Between	P			N.S.
		<u>RR adjusted for factor other than sex, age, other ETS</u>		
	N	43	50	93
	NS	40	48	88
	Wt	1731.85	2933.71	4665.56
Het	Chi	84.30	69.34	153.76
Het	df	42	49	92
Het	P	***	*	***
Fixed	RR	1.23	1.24	1.24
	RRl	1.17	1.20	1.20
	RRu	1.29	1.29	1.27
	P	+++	+++	+++
Random	RR	1.27	1.21	1.23
	RRl	1.18	1.14	1.17
	RRu	1.36	1.27	1.28
	P	+++	+++	+++
Between	Chi			0.12
Between	df			1
Between	P			N.S.

Appendix Table A1 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Lifetime Asthma				
		Adjusted				
		Derivation of RR/CI				
		Original	Numbers	SumNumbs	Other	Total
RR data						
	N	29	32	13	19	93
	NS	29	30	12	17	88
	Wt	1300.36	1147.21	336.22	1881.76	4665.56
Het	Chi	43.04	46.66	17.10	40.78	153.76
Het	df	28	31	12	18	92
Het	P	*	*	N.S.	**	***
Fixed	RR	1.27	1.22	1.10	1.25	1.24
	RRl	1.21	1.15	0.99	1.19	1.20
	RRu	1.34	1.29	1.22	1.30	1.27
	P	+++	+++	(+)	+++	+++
Random	RR	1.28	1.26	1.09	1.19	1.23
	RRl	1.19	1.15	0.94	1.08	1.17
	RRu	1.38	1.36	1.25	1.30	1.28
	P	+++	+++	N.S.	+++	+++
Between	Chi					6.19
Between	df					3
Between	P					N.S.

Appendix Table A1 - 4

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Unadjusted

REF	NRR	X	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ALBA	1		b	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALDAWO	2		m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never	-
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non	-
ANDRAE	1 x		b	0	16	all	Eu:Sca	1985	1988	CS	0	AnyPar	NoParent	in life	non	-
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
BARRET	1		b	9	11	all	Eu:Ita	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
BECKET	5 x		b	0	17	all	NAmer	1993	1996	CS	0	AnyHh	NoHhMemb	ever	never	-
BENER	1		b	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non	-
BRABIN	1 x		b	5	11	all	Eu:UK	1991	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-
BURCHF	5		m	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-
BURCHF	8		f	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-
BUTZ	6 x		b	*	*	all	NAmer	1989	1992	CC	0	TotETS	None	current	non	-
CHEN1	1		b	1	1	all	As:FE	1985	1988	CS	0	AnyHh	NoHhMemb	in life	non	-
CHEN2	11 x		b	6	17	all	NAmer	1993	1996	CS	0	AnyHh	NoHhMemb	current	non	-
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non	-
DODGE	9 x		b	8	12	all	NAmer	1978	1982	Pr	0	AnyPar	NoParent	unspec	non	-
DOLD	17 x		b	9	11	all	Eu:Ger	1989	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
ECE	3		b	6	15	all	Eu:est	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
EHRL2	3		b	3	14	all	NAmer	1988	1992	CC	0	Biochem	Low	-	-	urine
FARBE2	1 x		b	5	17	all	NAmer	1987	1997	CS	0	Mother	NotMothr	current	non	-
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never	-
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non	-
FLYNN1	1		b	9	10	all	Auslia	1990	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-
FORAST	7 x		b	7	11	all	Eu:Ita	1987	1992	CS	0	AnyPar	NoParent	unspec	non	-
GILLIL	59 x		m	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	in life	non	-
GILLIL	68 x		f	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	in life	non	-
GOLD	11		b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non	-
GOREN1	3		b	7	11	all	As:ME	1980	1986	CS	0	AnyHh	NoHhMemb	current	non	-
GOREN2	2 x		b	7	11	all	As:ME	1982	1995	CS	0	Mother	NotMothr	ever	never	-
GORTM1	1 x		b	0	17	all	NAmer	1977	1982	CS	0	Mother	NotMothr	current	non	-
GORTM2	1		b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non	-
GURKAN	1		b	3	15	all	Eu:est	1995	2002	CC	0	TotETS	None	unspec	non	-
HAJNAL	1		b	6	14	all	Eu:wst	1992	1999	CS	13	AnyHh	NoHhMemb	current	non	-
HU1	2 x		b	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non	-
HU2	21 x		b	20	22	all	NAmer	1986	1997	Pr	0	AnyPar	LowParnt	13-15y	non	-
JENKIN	1 x		m	7	7	all	Auslia	1968	1993	CS	0	Mother	NotMothr	current	non	-
JENKIN	3 x		f	7	7	all	Auslia	1968	1993	CS	0	Mother	NotMothr	current	non	-
KAY	7 x		b	3	11	all	Eu:UK	*	1995	CS	0	AnyPar	NoParent	unspec	non	-
KENDIR	1		b	6	14	all	Eu:est	1993	1998	CS	0	AnyHh	NoHhMemb	current	non	-
KERSHA	3 x		b	0	5	all	Eu:UK	1983	1987	CC	0	AnyHh	LowHh	<3y	non	-
KIVITY	4		b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non	-
KUEHR	2 x		b	6	8	all	Eu:Ger	1990	1992	CS	0	Mother	NotMothr	<1y	non	-
KUHR	4		b	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non	-
LAM1	4 x		b	12	15	all	As:FE	1994	1998	CS	0	AnyHh	NoHhMemb	unspec	non	-
LAM2	1		b	8	13	all	As:FE	1995	1999	CS	4	AnyHh	NoHhMemb	unspec	non	-
LEEDER	1 x		b	0	5	all	Eu:UK	1963	1976	Pr	0	AnyPar	NoParent	in life	non	-
LEROUX	1 x		b	6	7	all	Eu:wst	1990	1995	CS	0	AnyPar	LowParnt	unspec	non	-
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non	-
LISTER	1 x		b	0	4	all	Auslia	1989	1998	CS	0	Mother	NotMothr	current	non	-
MAIER	6 x		b	5	9	all	NAmer	1994	1997	CS	0	TotETS	None	current	non	-
MARTIN	1 x		m	0	12	all	NAmer	1972	1992	Pr	0	Mother	LowMothr	<5y	non	-
MARTIN	2 x		f	0	12	all	NAmer	1972	1992	Pr	0	Mother	LowMothr	<5y	non	-
MCCON2	2		b	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never	-
MOYES1	1		b	6	7	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MOYES2	1		b	13	14	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MURRAY	1 x		m	1	17	all	NAmer	1986	1990	CS	0	Mother	NotMothr	unspec	non	-
MURRAY	3 x		f	1	17	all	NAmer	1986	1990	CS	0	Mother	NotMothr	unspec	non	-
NHANE3	37 x		b	4	16	w+b	NAmer	1988	2001	CS	0	Biochem	Low	-	-	blood
NILSSO	1		b	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non	-
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non	-
ODDY	1		b	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-
POKHAR	1 x		b	11	15	all	As:cen	1995	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
PONSON	7 x		b	0	7	all	Auslia	1988	2000	Pr	0	AnyHh	NoHhMemb	<1m	non	-
RASANE	1 x		b	16	16	all	Eu:Sca	1991	2000	CS	0	Mother	NotMothr	ever	never	-
RATAGE	1		b	5	15	all	As:cen	1996	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
RENNIE	1		b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non	-
RONCH1	3 x		m	6	13	all	Eu:Ita	1974	2001	CS	0	AnyHh	Low	current	non	-
RONCH1	6 x		f	6	13	all	Eu:Ita	1974	2001	CS	0	AnyHh	Low	current	non	-
RONCH2	3		b	6	14	all	Eu:Ita	1992	2001	CS	0	AnyHh	Low	current	non	-

Appendix Table A1 - 4

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Unadjusted

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
RONCH3	3		b	6	14	all	Eu:Ita	1998	2001	CS	0	AnyHh	Low	current	non	-
RONMAR	4	x	b	7	10	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	non	-
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non	-
SELCUK	1	x	b	7	12	all	Eu:est	1994	1997	CS	0	AnyHh	NoHhMemb	unspec	non	-
SENNHA	1		b	1	16	all	Eu:wst	1990	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non	-
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never	-
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non	-
SOYSET	2	x	b	7	13	all	Eu:Sca	1989	1995	CS	0	Mother	NotMothr	in life	non	-
SQUILL	1		b	8	12	all	NAmer	1992	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non	-
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non	-
TIMONE	1		b	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	current	non	-
TSIMOY	1		b	12	17	all	NAmer	1985	1987	CS	0	TotETS	None	current	non	-
VARELA	1		b	6	15	all	SCAmer	1999	2001	CS	0	AnyHh	NoHhMemb	unspec	non	-
VAVILI	1		b	6	15	all	Eu:est	*	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VERHOE	3		b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never	-
VONMAF	1		b	0	17	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	ever	never	-
WITHER	1		b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLFO1	2		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO2	2		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO3	2		b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
ZEIGER	1		b	0	7	all	NAmer	1981	1995	Pr	0	AnyHh	NoHhMemb	unspec	non	-

Appendix Table A1 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	1	b	0	68	70	34	32	0.91	(0.51- 1.64)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	1	b	0	101	2034	148	2645	0.89	(0.68- 1.15)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
BARRET	1	b	0	17	91	9	81	1.68	(0.71- 3.98)
BECKET	5	b	0	133	826	352	3223	1.47	(1.19- 1.83)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BRABIN	1	b	0	204	932	114	569	1.09	(0.85- 1.41)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	6	b	0	28	25	74	80	1.21	(0.65- 2.26)
CHEN1	1	b	0	64	1668	14	467	1.28	(0.71- 2.30)
CHEN2	11	b	0	32	252	61	547	1.14	(0.72- 1.79)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	9	b	0	21	310	12	285	1.61	(0.78- 3.33)
DOLD	17	b	0	217	2307	295	3613	1.15	(0.96- 1.38)
ECE	3	b	0	298	1704	132	906	1.20	(0.96- 1.50)
EHRLI2	3	b	0	37	29	60	88	1.87	(1.04- 3.36)
FARBE2	1	b	0	109	707	116	1109	1.47	(1.12- 1.95)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FLYNN1	1	b	0	-	-	-	-	1.26	(0.95- 1.68)
FORAST	7	b	0	164	1800	52	781	1.37	(0.99- 1.89)
GILLIL	59	m	0	149	725	266	1239	0.96	(0.77- 1.19)
GILLIL	68	f	0	130	865	162	1340	1.24	(0.97- 1.59)
Subtotal GILLIL								1.08	(0.91- 1.27)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	3	b	0	80	766	50	514	1.07	(0.74- 1.56)
GOREN2	2	b	0	203	1505	461	4103	1.20	(1.01- 1.43)
GORTM1	1	b	0	97	1158	91	1726	1.59	(1.18- 2.14)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
GURKAN	1	b	0	50	22	90	74	1.87	(1.04- 3.37)
HAJNAL	1	b	13	-	-	-	-	1.20	(0.94- 1.54)
HU1	2	b	0	45	131	62	220	1.22	(0.78- 1.89)
HU2	21	b	0	52	240	101	1083	2.32	(1.62- 3.34)
JENKIN	1	m	0	310	1159	502	2367	1.26	(1.08- 1.48)
JENKIN	3	f	0	224	1208	313	2448	1.45	(1.21- 1.74)
Subtotal JENKIN								1.34	(1.19- 1.51)
KAY	7	b	0	103	348	108	518	1.42	(1.05- 1.92)
KENDIR	1	b	0	-	-	-	-	1.41	(1.16- 1.72)
KERSHA	3	b	0	71	714	15	485	3.22	(1.82- 5.68)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	2	b	0	28	282	134	957	0.71	(0.46- 1.09)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	4	b	0	163	1956	201	2162	0.90	(0.72- 1.11)
LAM2	1	b	4	-	-	-	-	0.91	(0.69- 1.18)
*LEEDER	1	b	0	48	1433	11	445	1.36	(0.71- 2.59)
LEROUX	1	b	0	39	374	58	722	1.30	(0.85- 1.98)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	1	b	0	-	-	-	-	1.47	(1.19- 1.83)
MAIER	6	b	0	33	145	73	674	2.10	(1.34- 3.29)
*MARTIN	1	m	0	17	80	41	315	1.63	(0.98- 2.72)
*MARTIN	2	f	0	8	63	20	281	1.78	(0.82- 3.87)
Subtotal MARTIN								1.68	(1.10- 2.57)
MCCON2	2	b	0	2	45	13	163	0.56	(0.12- 2.56)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MOYES1	1	b	0	358	1017	295	886	1.06	(0.88- 1.26)
MOYES2	1	b	0	363	1285	252	842	0.94	(0.79- 1.13)
MURRAY	1	m	0	50	34	153	149	1.43	(0.88- 2.34)
MURRAY	3	f	0	22	29	67	116	1.31	(0.70- 2.47)
Subtotal MURRAY								1.39	(0.94- 2.04)
NHANE3	37	b	0	424	3344	175	1457	1.06	(0.88- 1.27)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*ODDY	1	b	4	-	-	-	-	1.27	(1.04- 1.55)
POKHAR	1	b	0	27	35	13	45	2.67	(1.21- 5.92)

Appendix Table A1 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
*PONSON	7	b	0	185	558	88	293	1.10	(0.89- 1.36)
RASANE	1	b	0	101	2055	76	2306	1.49	(1.10- 2.02)
RATAGE	1	b	0	62	30	58	30	1.07	(0.58- 1.99)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
RONCH1	3	m	0	23	235	48	790	1.61	(0.96- 2.70)
RONCH1	6	f	0	17	226	35	764	1.64	(0.90- 2.99)
Subtotal	RONCH1							1.62	(1.10- 2.40)
RONCH2	3	b	0	60	351	93	726	1.33	(0.94- 1.89)
RONCH3	3	b	0	40	312	91	696	0.98	(0.66- 1.46)
*RONMAR	4	b	0	-	-	-	-	1.12	(0.72- 1.73)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SELCUK	1	b	0	689	3248	193	1282	1.41	(1.19- 1.67)
SENNHA	1	b	0	119	1631	132	2268	1.25	(0.97- 1.62)
SHAMSS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
SOYSET	2	b	0	35	297	16	270	1.99	(1.08- 3.67)
SQUILL	1	b	0	38	80	97	226	1.11	(0.70- 1.74)
STANHO	2	b	0	7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
TIMONE	1	b	0	10	225	170	2139	0.56	(0.29- 1.07)
TSIMOY	1	b	0	9	123	4	57	1.04	(0.31- 3.53)
VARELA	1	b	0	27	13	7	10	2.97	(0.92- 9.57)
VAVILI	1	b	0	60	74	40	30	0.61	(0.34- 1.09)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal	VENNER							1.15	(0.88- 1.49)
VERHOE	3	b	0	78	185	39	72	0.78	(0.49- 1.25)
VONMAF	1	b	0	166	766	217	1260	1.26	(1.01- 1.57)
WITHER	1	b	0	202	633	296	1107	1.19	(0.97- 1.46)
WOLFO1	2	b	7	-	-	-	-	1.12	(0.63- 1.98)
WOLFO2	2	b	7	-	-	-	-	1.35	(0.75- 2.43)
WOLFO3	2	b	10	-	-	-	-	1.39	(0.93- 2.06)
*ZEIGER	1	b	0	8	22	42	143	1.24	(0.67- 2.28)
Partial Totals				10105	63496	10427	82391		
*prospective study									

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALBA	1	b	0	-0.09	11.15	1.07	0.7647
ALDAWO	2	m	0	0.76	8.40	2.46	0.0274
ALFRA1	2	b	0	0.41	22.65	0.84	0.0498
ANDRAE	1	b	0	-0.12	57.05	6.57	0.3670
ANNESI	1	b	0	0.25	89.09	0.10	0.0166
BARRET	1	b	0	0.52	5.17	0.46	0.2373
BECKET	5	b	0	0.39	84.17	2.38	0.0004
BENER	1	b	0	0.24	19.32	0.01	0.2839
BRABIN	1	b	0	0.09	60.59	1.05	0.4910
BURCHF	5	m	1	0.22	32.51	0.00	0.2200
BURCHF	8	f	1	0.00	24.97	1.21	1.0000
Subtotal	BURCHF			-0.22	57.49	1.21	
BUTZ	6	b	0	0.19	9.83	0.01	0.5487
CHEN1	1	b	0	0.25	11.14	0.01	0.4102
CHEN2	11	b	0	0.13	18.71	0.15	0.5742
DELL	2	b	0	0.42	18.30	0.72	0.0733
DODGE	9	b	0	0.48	7.26	0.47	0.2000
DOLD	17	b	0	0.14	114.83	0.71	0.1294
ECE	3	b	0	0.18	79.23	0.11	0.1041
EHRLI2	3	b	0	0.63	11.17	1.85	0.0363
FARBE2	1	b	0	0.39	49.72	1.40	0.0062
FAROOQ	1	b	0	0.25	72.93	0.09	0.0297
*FERGUS	7	b	0	0.04	37.52	1.23	0.8106
FLYNN1	1	b	0	0.23	47.28	0.01	0.1120
FORAST	7	b	0	0.31	36.81	0.32	0.0570
GILLIL	59	m	0	-0.04	79.01	5.49	0.6979
GILLIL	68	f	0	0.22	63.42	0.00	0.0831
Subtotal	GILLIL			-0.27	142.43	5.49	
GOLD	11	b	0	0.26	211.41	0.27	0.0002

Appendix Table A1 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
GOREN1	3	b	0	0.07	27.97	0.62	0.7071
GOREN2	2	b	0	0.18	124.95	0.17	0.0411
GORTM1	1	b	0	0.46	43.97	2.60	0.0021
GORTM2	1	b	0	0.63	6.99	1.15	0.0978
GURKAN	1	b	0	0.63	11.10	1.82	0.0372
HAJNAL	1	b	13	0.18	63.05	0.09	0.1477
HU1	2	b	0	0.20	19.79	0.01	0.3785
HU2	21	b	0	0.84	29.22	11.34	0.0000
JENKIN	1	m	0	0.23	153.77	0.02	0.0040
JENKIN	3	f	0	0.37	112.42	2.59	0.0001
Subtotal	JENKIN			0.16	266.19	2.62	
KAY	7	b	0	0.35	42.07	0.72	0.0231
KENDIR	1	b	0	0.34	99.03	1.52	0.0006
KERSHA	3	b	0	1.17	11.87	10.67	0.0001
KIVITY	4	b	0	0.59	13.44	1.82	0.0311
KUEHR	2	b	0	-0.34	20.93	6.65	0.1158
KUHR	4	b	0	0.70	5.57	1.27	0.0997
LAM1	4	b	0	-0.11	82.75	8.97	0.3195
LAM2	1	b	4	-0.09	53.37	5.27	0.4908
*LEEDER	1	b	0	0.30	9.19	0.06	0.3569
LEROUX	1	b	0	0.26	21.30	0.04	0.2285
LIS	1	b	0	0.31	37.30	0.29	0.0604
LISTER	1	b	0	0.39	82.96	2.27	0.0004
MAIER	6	b	0	0.74	19.09	5.21	0.0012
*MARTIN	1	m	0	0.49	14.81	1.08	0.0593
*MARTIN	2	f	0	0.58	6.43	0.83	0.1422
Subtotal	MARTIN			0.63	21.23	1.91	
MCCON2	2	b	0	-0.58	1.65	1.07	0.4523
*MCKEEV	4	b	0	0.27	1119.12	2.90	0.0000
MOYES1	1	b	0	0.06	120.55	3.25	0.5411
MOYES2	1	b	0	-0.06	115.09	8.87	0.5355
MURRAY	1	m	0	0.36	15.96	0.31	0.1513
MURRAY	3	f	0	0.27	9.66	0.03	0.3967
Subtotal	MURRAY			0.19	25.62	0.34	
NHANE3	37	b	0	0.05	110.40	3.03	0.5693
NILSSO	1	b	0	0.00	31.98	1.55	1.0000
OCONNE	1	b	0	0.25	33.98	0.04	0.1384
*ODDY	1	b	4	0.24	96.50	0.04	0.0189
POKHAR	1	b	0	0.98	6.07	3.53	0.0155
*PONSON	7	b	0	0.10	86.48	1.27	0.3581
RASANE	1	b	0	0.40	41.70	1.35	0.0099
RATAGE	1	b	0	0.07	10.00	0.23	0.8330
RENNIE	1	b	6	0.02	13.41	0.54	0.9422
RONCH1	3	m	0	0.48	14.32	0.94	0.0712
RONCH1	6	f	0	0.50	10.74	0.82	0.1042
Subtotal	RONCH1			0.53	25.06	1.76	
RONCH2	3	b	0	0.29	31.60	0.15	0.1048
RONCH3	3	b	0	-0.02	24.61	1.41	0.9224
*RONMAR	4	b	0	0.11	20.00	0.23	0.6123
ROSASV	1	b	0	0.45	3.25	0.17	0.4168
SELCUK	1	b	0	0.34	129.52	1.96	0.0001
SENNHA	1	b	0	0.23	58.71	0.00	0.0833
SHAMSS	2	b	0	0.33	79.17	0.95	0.0034
*SHERMA	2	b	2	0.17	19.90	0.06	0.4603
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOYSET	2	b	0	0.69	10.19	2.23	0.0282
SQUILL	1	b	0	0.10	18.67	0.26	0.6613
STANHO	2	b	0	-0.92	4.90	6.34	0.0423
*TAYLOR	4	b	0	-0.04	72.55	4.93	0.7281
TIMONE	1	b	0	-0.58	9.03	5.79	0.0808
TSIMOY	1	b	0	0.04	2.59	0.08	0.9464
VARELA	1	b	0	1.09	2.80	2.11	0.0687
VAVILI	1	b	0	-0.50	11.30	5.81	0.0945
VENNER	6	m	0	0.09	27.66	0.43	0.6182
VENNER	3	f	0	0.18	28.98	0.05	0.3399
Subtotal	VENNER			-0.17	56.63	0.49	
VERHOE	3	b	0	-0.25	17.31	3.83	0.2972
VONMAF	1	b	0	0.23	78.55	0.01	0.0417
WITHER	1	b	0	0.18	92.49	0.17	0.0890

Appendix Table A1 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
WOLFO1	2	b	7	0.11	11.72	0.13	0.6981
WOLFO2	2	b	7	0.30	11.12	0.07	0.3170
WOLFO3	2	b	10	0.33	24.30	0.29	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.00	0.4914

RR data

	N	95
	NS	88
	Wt	5039.16
Het	Chi	163.33
Het	df	94
Het	P	***
Fixed	RR	1.25
	RRl	1.21
	RRu	1.28
	P	+++
Random	RR	1.24
	RRl	1.19
	RRu	1.29
	P	+++
Asymm	P	N.S.

Appendix Table A1 - 6

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Unadjusted

RR data

	N	95						
	NS	88						
	Wt	5039.16						
	Het Chi	163.33						
	Het df	94						
	Het P	***						
Fixed	RR	1.25						
	RRl	1.21						
	RRu	1.28						
	P	+++						
Random	RR	1.24						
	RRl	1.19						
	RRu	1.29						
	P	+++						
Asymm	P	N.S.						
			<u>Sex</u>					
		both	male	female			Total	
	N	80	8	7			95	
	NS	80	8	7			95	
	Wt	4436.11	346.44	256.61			5039.16	
	Het Chi	147.05	10.55	4.53			163.33	
	Het df	79	7	6			94	
	Het P	***	N.S.	N.S.			***	
Fixed	RR	1.24	1.22	1.33			1.25	
	RRl	1.21	1.10	1.17			1.21	
	RRu	1.28	1.35	1.50			1.28	
	P	+++	+++	+++			+++	
Random	RR	1.23	1.25	1.33			1.24	
	RRl	1.18	1.08	1.17			1.19	
	RRu	1.30	1.45	1.50			1.29	
	P	+++	++	+++			+++	
Between	Chi						1.20	
Between	df						2	
Between	P						N.S.	
					<u>Continent</u>			
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	30	2	40	13	10		95
	NS	26	2	39	12	9		88
	Wt	1065.94	6.05	2673.01	436.69	857.47		5039.16
	Het Chi	40.29	0.61	68.58	20.79	24.06		163.33
	Het df	29	1	39	12	9		94
	Het P	(*)	N.S.	**	(*)	**		***
Fixed	RR	1.29	2.11	1.26	1.14	1.19		1.25
	RRl	1.22	0.95	1.22	1.04	1.11		1.21
	RRu	1.37	4.68	1.31	1.25	1.27		1.28
	P	+++	(+)	+++	++	+++		+++
Random	RR	1.31	2.11	1.23	1.19	1.18		1.24
	RRl	1.21	0.95	1.16	1.04	1.05		1.19
	RRu	1.42	4.68	1.31	1.37	1.32		1.29
	P	+++	(+)	+++	+	++		+++
Between	Chi							9.01
Between	df							4
Between	P							(*)

Appendix Table A1 - 6

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Lifetime Asthma Unadjusted					
		Start year of study					
		<1970	1970-79	1980-89	1990+	unknown	Total
RR data							
	N	6	14	26	38	11	95
	NS	4	12	25	36	11	88
	Wt	366.85	539.57	974.09	1596.96	1561.69	5039.16
	Het Chi	3.30	19.85	47.37	58.75	32.31	163.33
	Het df	5	13	25	37	10	94
	Het P	N.S.	(*)	**	*	***	***
	Fixed RR	1.30	1.25	1.26	1.22	1.25	1.25
	RR1	1.17	1.15	1.19	1.16	1.19	1.21
	RRu	1.44	1.36	1.35	1.28	1.31	1.28
	P	+++	+++	+++	+++	+++	+++
	Random RR	1.30	1.26	1.33	1.21	1.17	1.24
	RR1	1.17	1.11	1.20	1.13	1.01	1.19
	RRu	1.44	1.42	1.47	1.30	1.35	1.29
	P	+++	+++	+++	+++	+	+++
	Between Chi						1.76
	Between df						4
	Between P						N.S.
		Study type					
		CC	Pr	CS	Total		
	N	12	15	68	95		
	NS	12	14	62	88		
	Wt	155.71	1744.02	3139.43	5039.16		
	Het Chi	29.24	23.05	108.27	163.33		
	Het df	11	14	67	94		
	Het P	**	(*)	**	***		
	Fixed RR	1.27	1.29	1.22	1.25		
	RR1	1.09	1.23	1.18	1.21		
	RRu	1.49	1.35	1.27	1.28		
	P	++	+++	+++	+++		
	Random RR	1.31	1.26	1.23	1.24		
	RR1	1.00	1.15	1.17	1.19		
	RRu	1.71	1.39	1.29	1.29		
	P	+	+++	+++	+++		
	Between Chi				2.77		
	Between df				2		
	Between P				N.S.		

Appendix Table A1 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
3	CUNNI2	KAPLAN	KELLY	NYSTAD	WEITZ1	XU										
5	AKCAKA	BURR	DEBENE	FIELDE	FLYNN2	GOREN3	GOREN4	GOREN5	GOREN6	KALYO1	KEARNE	MONTEF	RUDNIK	SANZOR	SCHENK	STAZI
	STERN2	ULRIK	VOLKME	ZEJDA												
15	ALFRA2	FARBE1	FARBE3	MCCON1	SPIEKE											

Appendix Table A1 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP	
GILLIL	GILLIL	1	MCCON1/GILLIL	
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3	
BRABIN	BRABIN	1	KELLY/BRABIN	
KUEHR	KUEHR	1	KUEHR/SPIEKE	
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2	
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6	
WOLF01	WOLF01	1	WOLF01/WOLF02/WOLF03	
WOLF02	WOLF02	1	WOLF01/WOLF02/WOLF03	
WOLF03	WOLF03	1	WOLF01/WOLF02/WOLF03	

Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
AKCAKA	1	b	6	15	all	Eu:est	1996	2000	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	-	1.01	?
BRABIN	3	b	5	11	all	Eu:UK	1991	1994	CS	6	AnyHh	NoHhMemb	unspec	non	-	*	n
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	-	*	n
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	-	1.46	y
ECE	8	b	6	15	all	Eu:est	1999	2001	CS	3	AnyHh	NoHhMemb	current	non	-	*	n
FIELDE	1	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
FLYNN2	1	b	9	10	all	Auslia	1991	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	-	*	n
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	-	1.67	y
KALY01	1	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KEARNE	1	m	6	12	all	Eu:wst	1997	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KIVITY	5	b	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	-	*	y
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	-	*	n
LISTER	9	b	0	4	all	Auslia	1989	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
MONTEF	1	b	5	8	all	Eu:wst	*	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	-	*	n
RUDNIK	1	b	8	10	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	0.74	?
RUDNIK	2	b	11	13	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.43	?
RUDNIK	3	b	14	16	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.09	?
SANZOR	1	b	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	-	*	n
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	-	*	n
STAZI	7	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	-	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	-	1.35	y
TIMONE	2	b	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	<2y	non	-	*	n
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	-	*	n
VOLKME	2	b	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	-	*	n
ZEIGER	3	b	0	7	all	NAmer	1981	1995	Pr	4	AnyHh	NoHhMemb	unspec	non	-	*	n
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	-	*	n

Unadjusted - insufficient data for metaanalysis: as for adjusted plus the following																	
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
STAZI	2	b	0	5	all	Eu:Ita	1993	2002	CS	2	Mother	NotMothr	in life	non	-	*	n
VOLKME	1	b	4	5	all	Auslia	1993	1995	CS	0	AnyPar	NoParent	unspec	non	-	*	n

Appendix Table A2 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Biochemical, total, household (overall), or parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 9) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 10) UNEXSO : none, none in household, neither parent, not specific parent
- 11) UNEXTI : not a longer time, never (in smoker's lifetime), not at specified time
- 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 13) RACE : all in study or nearest available, otherwise by race
- 14) ONSET : yes, no (prevalence)
- 15) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A1 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A2 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Adjusted

REF	NRR	CompA1	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ALBA	1		b	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALDAWO	2		m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never	-
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non	-
ANDRAE	2		b	0	16	all	Eu:Sca	1985	1988	CS	3	AnyPar	NoParent	in life	non	-
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
BARRET	1		b	9	11	all	Eu:Ita	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
BECKET	6		b	0	17	all	NAmer	1993	1996	CS	7	AnyHh	NoHhMemb	ever	never	-
BENER	1		b	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non	-
BRABIN	2		b	5	11	all	Eu:UK	1991	1994	CS	1	AnyHh	NoHhMemb	unspec	non	-
BURCHF	5		m	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-
BURCHF	8		f	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-
BUTZ	7		b	*	*	all	NAmer	1989	1992	CC	1	TotETS	None	current	non	-
CHEN1	1		b	1	1	all	As:FE	1985	1988	CS	0	AnyHh	NoHhMemb	in life	non	-
CHEN2	37		b	6	17	all	NAmer	1993	1996	CS	6	AnyHh	NoHhMemb	current	non	-
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non	-
DODGE	12		b	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non	-
DOLD	21		b	9	11	all	Eu:Ger	1989	1992	CS	1	AnyHh	NoHhMemb	unspec	non	-
ECE	3		b	6	15	all	Eu:est	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
EHRLT2	3		b	3	14	all	NAmer	1988	1992	CC	0	Biochem	Low	-	-	urine
FARBE2	2		b	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non	-
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never	-
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non	-
FLYNN1	1		b	9	10	all	Auslia	1990	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-
FORAST	20		b	7	11	all	Eu:Ita	1987	1992	CS	9	AnyPar	NoParent	unspec	non	-
GILLIL	4		m	7	19	all	NAmer	1993	2001	CS	4	AnyHh	NoHhMemb	in life	non	-
GILLIL	12		f	7	19	all	NAmer	1993	2001	CS	4	AnyHh	NoHhMemb	in life	non	-
GOLD	11		b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non	-
GOREN1	3		b	7	11	all	As:ME	1980	1986	CS	0	AnyHh	NoHhMemb	current	non	-
GOREN2	5		b	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never	-
GORTM1	3		b	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non	-
GORTM2	1		b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non	-
GURKAN	1		b	3	15	all	Eu:est	1995	2002	CC	0	TotETS	None	unspec	non	-
HAJNAL	1		b	6	14	all	Eu:wst	1992	1999	CS	13	AnyHh	NoHhMemb	current	non	-
HU1	4		b	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non	-
HU2	23		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non	-
JENKIN	5		b	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non	-
KAY	20		b	3	11	all	Eu:UK	*	1995	CS	1	AnyPar	NoParent	unspec	non	-
KENDIR	1		b	6	14	all	Eu:est	1993	1998	CS	0	AnyHh	NoHhMemb	current	non	-
KERSHA	7		b	0	5	all	Eu:UK	1983	1987	CC	1	AnyHh	LowHh	<3y	non	-
KIVITY	4		b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non	-
KUEHR	6		b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non	-
KUHR	4		b	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non	-
LAM1	8		b	12	15	all	As:FE	1994	1998	CS	4	AnyHh	NoHhMemb	unspec	non	-
LAM2	1		b	8	13	all	As:FE	1995	1999	CS	4	AnyHh	NoHhMemb	unspec	non	-
LEEDER	2		b	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non	-
LEROUX	2		b	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non	-
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non	-
LISTER	3		b	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non	-
MATER	5		b	5	9	all	NAmer	1994	1997	CS	8	TotETS	None	current	non	-
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MCCON2	2		b	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never	-
MOYES1	1		b	6	7	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MOYES2	1		b	13	14	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MURRAY	5		m	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non	-
MURRAY	7		f	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non	-
NHANE3	28		b	4	16	w+b	NAmer	1988	2001	CS	6	Biochem	Low	-	-	blood
NILSSO	1		b	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non	-
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non	-
ODDY	1		b	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-
POKHAR	2		b	11	15	all	As:cen	1995	2001	CC	5	AnyHh	NoHhMemb	unspec	non	-
PONSON	8		b	0	7	all	Auslia	1988	2000	Pr	6	AnyHh	NoHhMemb	<1m	non	-
RASANE	3		b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never	-
RATAGE	1		b	5	15	all	As:cen	1996	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
RENNIE	1		b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non	-
RONCH1	7		b	6	13	all	Eu:Ita	1974	2001	CS	2	AnyHh	Low	current	non	-
RONCH2	3		b	6	14	all	Eu:Ita	1992	2001	CS	0	AnyHh	Low	current	non	-
RONCH3	3		b	6	14	all	Eu:Ita	1998	2001	CS	0	AnyHh	Low	current	non	-
RONMAR	5		b	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non	-

Appendix Table A2 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

REF	NRR	CompA1	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non	-
SELCUK	2		b	7	12	all	Eu:est	1994	1997	CS	6	AnyHh	NoHhMemb	unspec	non	-
SENNHA	1		b	1	16	all	Eu:wst	1990	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non	-
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never	-
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non	-
SOYSET	14		b	7	13	all	Eu:Sca	1989	1995	CS	5	Mother	NotMothr	in life	non	-
SQUILL	1		b	8	12	all	NAmer	1992	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non	-
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non	-
TIMONE	1		b	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	current	non	-
TSIMOY	1		b	12	17	all	NAmer	1985	1987	CS	0	TotETS	None	current	non	-
VARELA	1		b	6	15	all	SCAmer	1999	2001	CS	0	AnyHh	NoHhMemb	unspec	non	-
VAVILI	1		b	6	15	all	Eu:est	*	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VERHOE	3		b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never	-
VONMAF	1		b	0	17	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	ever	never	-
WITHER	1		b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLFO1	2		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO2	2		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO3	2		b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
ZEIGER	1		b	0	7	all	NAmer	1981	1995	Pr	0	AnyHh	NoHhMemb	unspec	non	-

Appendix Table A2 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	1	b	0	68	70	34	32	0.91	(0.51- 1.64)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
BARRET	1	b	0	17	91	9	81	1.68	(0.71- 3.98)
BECKET	6	b	7	133	-	352	-	1.31	(1.03- 1.66)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BRABIN	2	b	1	204	-	114	-	1.06	(0.82- 1.37)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	7	b	1	28	-	74	-	1.18	(0.62- 2.24)
CHEN1	1	b	0	64	1668	14	467	1.28	(0.71- 2.30)
CHEN2	37	b	6	32	-	61	-	1.67	(0.96- 2.89)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	21	b	1	217	-	295	-	1.10	(0.92- 1.33)
ECE	3	b	0	298	1704	132	906	1.20	(0.96- 1.50)
EHRLI2	3	b	0	37	29	60	88	1.87	(1.04- 3.36)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FLYNN1	1	b	0	-	-	-	-	1.26	(0.95- 1.68)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
GILLIL	4	m	4	-	-	-	-	0.93	(0.74- 1.16)
GILLIL	12	f	4	-	-	-	-	1.05	(0.81- 1.35)
Subtotal GILLIL								0.98	(0.83- 1.16)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	3	b	0	80	766	50	514	1.07	(0.74- 1.56)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
GURKAN	1	b	0	50	22	90	74	1.87	(1.04- 3.37)
HAJNAL	1	b	13	-	-	-	-	1.20	(0.94- 1.54)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KENDIR	1	b	0	-	-	-	-	1.41	(1.16- 1.72)
KERSHA	7	b	1	71	-	15	-	3.12	(1.76- 5.54)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	6	b	1	28	-	134	-	0.68	(0.44- 1.06)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	8	b	4	163	-	201	-	0.92	(0.74- 1.15)
LAM2	1	b	4	-	-	-	-	0.91	(0.69- 1.18)
*LEEDER	2	b	1	48	-	11	-	1.33	(0.67- 2.64)
LEROUX	2	b	10	39	-	58	-	1.79	(1.06- 3.02)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
MAIER	5	b	8	33	-	73	-	2.26	(1.33- 3.85)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
MCCON2	2	b	0	2	45	13	163	0.56	(0.12- 2.56)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MOYES1	1	b	0	358	1017	295	886	1.06	(0.88- 1.26)
MOYES2	1	b	0	363	1285	252	842	0.94	(0.79- 1.13)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY								1.37	(0.91- 2.07)
NHANE3	28	b	6	424	-	175	-	1.16	(0.77- 1.76)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*ODDY	1	b	4	-	-	-	-	1.27	(1.04- 1.55)
POKHAR	2	b	5	27	-	13	-	3.33	(1.85- 7.65)
*PONSON	8	b	6	185	-	88	-	1.03	(0.83- 1.26)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)

Appendix Table A2 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
RATAGE 1	b	0		62	30	58	30	1.07	(0.58- 1.99)
RENNIE 1	b	6		-	-	-	-	1.02	(0.60- 1.75)
RONCH1 7	b	2		40	-	83	-	1.40	(1.02- 1.91)
RONCH2 3	b	0		60	351	93	726	1.33	(0.94- 1.89)
RONCH3 3	b	0		40	312	91	696	0.98	(0.66- 1.46)
*RONMAR 5	b	9		-	-	-	-	1.36	(0.82- 2.25)
ROSASV 1	b	0		9	6	65	68	1.57	(0.53- 4.66)
SELCUK 2	b	6		689	-	193	-	1.35	(1.12- 1.62)
SENNHA 1	b	0		119	1631	132	2268	1.25	(0.97- 1.62)
SHAMSS 2	b	0		-	-	-	-	1.39	(1.12- 1.74)
*SHERMA 2	b	2		-	-	-	-	1.18	(0.76- 1.83)
*SIGURS 1	b	0		-	-	-	-	1.20	(0.41- 3.60)
SOYSET 14	b	5		35	-	16	-	2.80	(1.30- 6.10)
SQUILL 1	b	0		38	80	97	226	1.11	(0.70- 1.74)
STANHO 2	b	0		7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR 4	b	0		-	4855	-	4815	0.96	(0.77- 1.22)
TIMONE 1	b	0		10	225	170	2139	0.56	(0.29- 1.07)
TSIMOY 1	b	0		9	123	4	57	1.04	(0.31- 3.53)
VARELA 1	b	0		27	13	7	10	2.97	(0.92- 9.57)
VAVILI 1	b	0		60	74	40	30	0.61	(0.34- 1.09)
VENNER 6	m	0		217	477	48	116	1.10	(0.76- 1.60)
VENNER 3	f	0		214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE 3	b	0		78	185	39	72	0.78	(0.49- 1.25)
VONMAF 1	b	0		166	766	217	1260	1.26	(1.01- 1.57)
WITHER 1	b	0		202	633	296	1107	1.19	(0.97- 1.46)
WOLFO1 2	b	7		-	-	-	-	1.12	(0.63- 1.98)
WOLFO2 2	b	7		-	-	-	-	1.35	(0.75- 2.43)
WOLFO3 2	b	10		-	-	-	-	1.39	(0.93- 2.06)
*ZEIGER 1	b	0		8	22	42	143	1.24	(0.67- 2.28)
Partial Totals				9826	31856	9999	40982		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALBA 1	b	0		-0.09	11.15	1.01	0.7647
ALDAWO 2	m	0		0.76	8.40	2.54	0.0274
ALFRA1 2	b	0		0.41	22.65	0.91	0.0498
ANDRAE 2	b	3		-0.01	54.89	2.69	0.9406
ANNESI 1	b	0		0.25	89.09	0.16	0.0166
BARRET 1	b	0		0.52	5.17	0.49	0.2373
BECKET 6	b	7		0.27	67.46	0.23	0.0266
BENER 1	b	0		0.24	19.32	0.02	0.2839
BRABIN 2	b	1		0.06	58.33	1.36	0.6563
BURCHF 5	m	1		0.22	32.51	0.00	0.2200
BURCHF 8	f	1		0.00	24.97	1.11	1.0000
Subtotal BURCHF				-0.21	57.49	1.11	
BUTZ 7	b	1		0.17	9.31	0.02	0.6135
CHEN1 1	b	0		0.25	11.14	0.01	0.4102
CHEN2 37	b	6		0.51	12.65	1.15	0.0681
DELL 2	b	0		0.42	18.30	0.79	0.0733
DODGE 12	b	1		0.41	7.12	0.27	0.2794
DOLD 21	b	1		0.10	113.12	1.52	0.3107
ECE 3	b	0		0.18	79.23	0.06	0.1041
EHRLI2 3	b	0		0.63	11.17	1.93	0.0363
FARBE2 2	b	3		0.41	57.72	2.33	0.0017
FAROOQ 1	b	0		0.25	72.93	0.14	0.0297
*FERGUS 7	b	0		0.04	37.52	1.11	0.8106
FLYNN1 1	b	0		0.23	47.28	0.02	0.1120
FORAST 20	b	9		0.25	37.10	0.05	0.1327
GILLIL 4	m	4		-0.07	76.04	6.12	0.5268
GILLIL 12	f	4		0.05	58.89	1.55	0.7081
Subtotal GILLIL				-0.45	134.93	7.67	
GOLD 11	b	0		0.26	211.41	0.42	0.0002
GOREN1 3	b	0		0.07	27.97	0.55	0.7071
GOREN2 5	b	2		0.22	99.84	0.00	0.0316
GORTM1 3	b	7		0.40	36.85	1.30	0.0155
GORTM2 1	b	0		0.63	6.99	1.20	0.0978

Appendix Table A2 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
GURKAN	1	b	0	0.63	11.10	1.90	0.0372
HAJNAL	1	b	13	0.18	63.05	0.05	0.1477
HU1	4	b	7	-0.22	12.73	2.40	0.4259
HU2	23	b	3	0.44	31.16	1.61	0.0144
JENKIN	5	b	7	0.23	116.41	0.05	0.0126
KAY	20	b	1	0.35	38.89	0.76	0.0288
KENDIR	1	b	0	0.34	99.03	1.74	0.0006
KERSHA	7	b	1	1.14	11.69	10.04	0.0001
KIVITY	4	b	0	0.59	13.44	1.91	0.0311
KUEHR	6	b	1	-0.39	19.88	7.08	0.0855
KUHR	4	b	0	0.70	5.57	1.32	0.0997
LAM1	8	b	4	-0.08	79.06	6.86	0.4585
LAM2	1	b	4	-0.09	53.37	4.98	0.4908
*LEEDER	2	b	1	0.29	8.17	0.04	0.4149
LEROUX	2	b	10	0.58	14.02	1.93	0.0293
LIS	1	b	0	0.31	37.30	0.35	0.0604
LISTER	3	b	8	0.42	64.33	2.77	0.0008
MAIER	5	b	8	0.82	13.60	4.97	0.0026
*MARTIN	5	m	1	0.56	11.93	1.45	0.0533
*MARTIN	6	f	1	0.68	5.55	1.24	0.1075
Subtotal MARTIN				0.82	17.48	2.69	
MCCON2	2	b	0	-0.58	1.65	1.05	0.4523
*MCKEEV	4	b	0	0.27	1119.12	3.99	0.0000
MOYES1	1	b	0	0.06	120.55	2.91	0.5411
MOYES2	1	b	0	-0.06	115.09	8.32	0.5355
MURRAY	5	m	1	0.34	14.28	0.25	0.1941
MURRAY	7	f	1	0.27	8.50	0.03	0.4311
Subtotal MURRAY				0.19	22.78	0.28	
NHANE3	28	b	6	0.15	22.48	0.09	0.4816
NILSSO	1	b	0	0.00	31.98	1.43	1.0000
OCONNE	1	b	0	0.25	33.98	0.06	0.1384
*ODDY	1	b	4	0.24	96.50	0.08	0.0189
POKHAR	2	b	5	1.20	7.63	7.50	0.0009
*PONSON	8	b	6	0.03	88.18	2.91	0.7813
RASANE	3	b	3	0.46	27.24	1.74	0.0155
RATAGE	1	b	0	0.07	10.00	0.21	0.8330
RENNIE	1	b	6	0.02	13.41	0.49	0.9422
RONCH1	7	b	2	0.34	39.05	0.61	0.0355
RONCH2	3	b	0	0.29	31.60	0.19	0.1048
RONCH3	3	b	0	-0.02	24.61	1.31	0.9224
*ROMMAR	5	b	9	0.31	15.08	0.14	0.2324
ROSASV	1	b	0	0.45	3.25	0.19	0.4168
SELCUK	2	b	6	0.30	112.79	0.89	0.0014
SENNHA	1	b	0	0.23	58.71	0.01	0.0833
SHAMSS	2	b	0	0.33	79.17	1.11	0.0034
*SHERMA	2	b	2	0.17	19.90	0.04	0.4603
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOYSET	14	b	5	1.03	6.43	4.31	0.0090
SQUILL	1	b	0	0.10	18.67	0.22	0.6613
STANHO	2	b	0	-0.92	4.90	6.24	0.0423
*TAYLOR	4	b	0	-0.04	72.55	4.61	0.7281
TIMONE	1	b	0	-0.58	9.03	5.67	0.0808
TSIMOY	1	b	0	0.04	2.59	0.07	0.9464
VARELA	1	b	0	1.09	2.80	2.15	0.0687
VAVILI	1	b	0	-0.50	11.30	5.67	0.0945
VENNER	6	m	0	0.09	27.66	0.37	0.6182
VENNER	3	f	0	0.18	28.98	0.03	0.3399
Subtotal VENNER				-0.15	56.63	0.41	
VERHOE	3	b	0	-0.25	17.31	3.69	0.2972
VONMAF	1	b	0	0.23	78.55	0.03	0.0417
WITHER	1	b	0	0.18	92.49	0.11	0.0890
WOLFO1	2	b	7	0.11	11.72	0.11	0.6981
WOLFO2	2	b	7	0.30	11.12	0.09	0.3170
WOLFO3	2	b	10	0.33	24.30	0.34	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.00	0.4914

Appendix Table A2 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

RR data

	N	93
	NS	88
	Wt	4665.56
Het	Chi	153.76
Het	df	92
Het	P	***
Fixed	RR	1.24
	RRl	1.20
	RRu	1.27
	P	+++
Random	RR	1.23
	RRl	1.17
	RRu	1.28
	P	+++
Asymm	P	N.S.

Appendix Table A2 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

RR data

	N	93			
	NS	88			
	Wt	4665.56			
Het	Chi	153.76			
Het	df	92			
Het	P	***			
Fixed	RR	1.24			
	RRl	1.20			
	RRu	1.27			
	P	+++			
Random	RR	1.23			
	RRl	1.17			
	RRu	1.28			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	82	6	5	93
	NS	82	6	5	93
	Wt	4367.85	170.83	126.89	4665.56
Het	Chi	138.90	9.59	2.69	153.76
Het	df	81	5	4	92
Het	P	***	(*)	N.S.	***
Fixed	RR	1.24	1.14	1.12	1.24
	RRl	1.21	0.98	0.94	1.20
	RRu	1.28	1.32	1.33	1.27
	P	+++	(+)	N.S.	+++
Random	RR	1.23	1.24	1.12	1.23
	RRl	1.18	0.99	0.94	1.17
	RRu	1.29	1.57	1.33	1.28
	P	+++	(+)	N.S.	+++
Between	Chi				2.58
Between	df				2
Between	P				N.S.

Appendix Table A2 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
3	CUNNI2	KAPLAN	KELLY	NYSTAD	WEITZ1	XU										
5	AKCAKA	BURR	DEBENE	FIELDE	FLYNN2	GOREN3	GOREN4	GOREN5	GOREN6	KALYO1	KEARNE	MONTEF	RUDNIK	SANZOR	SCHENK	STAZI
	STERN2	ULRIK	VOLKME	ZEJDA												
15	ALFRA2	FARBE1	FARBE3	MCCON1	SPIEKE											

Appendix Table A2 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP											RR	SIG		
GILLIL	GILLIL	1	MCCON1/GILLIL														
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3														
BRABIN	BRABIN	1	KELLY/BRABIN														
KUEHR	KUEHR	1	KUEHR/SPIEKE														
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2														
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6														
WOLFO1	WOLFO1	1	WOLFO1/WOLFO2/WOLFO3														
WOLFO2	WOLFO2	1	WOLFO1/WOLFO2/WOLFO3														
WOLFO3	WOLFO3	1	WOLFO1/WOLFO2/WOLFO3														
Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
AKCAKA	1	b	6	15	all	Eu:est	1996	2000	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	-	1.01	?
BRABIN	3	b	5	11	all	Eu:UK	1991	1994	CS	6	AnyHh	NoHhMemb	unspec	non	-	*	n
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	-	*	n
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	-	1.46	y
ECE	8	b	6	15	all	Eu:est	1999	2001	CS	3	AnyHh	NoHhMemb	current	non	-	*	n
FIELDE	1	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
FLYNN2	1	b	9	10	all	Auslia	1991	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	-	*	n
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	-	1.67	y
KALYO1	1	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KEARNE	1	m	6	12	all	Eu:wst	1997	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KIVITY	5	b	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	-	*	y
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	-	*	n
LISTER	9	b	0	4	all	Auslia	1989	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
MONTEF	1	b	5	8	all	Eu:wst	*	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	-	*	n
RUDNIK	1	b	8	10	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	0.74	?
RUDNIK	2	b	11	13	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.43	?
RUDNIK	3	b	14	16	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.09	?
SANZOR	1	b	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	-	*	n
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	-	*	n
STAZI	7	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	-	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	-	1.35	y
TIMONE	2	b	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	<2y	non	-	*	n
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	-	*	n
VOLKME	2	b	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	-	*	n
ZEIGER	3	b	0	7	all	NAmer	1981	1995	Pr	4	AnyHh	NoHhMemb	unspec	non	-	*	n
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	-	*	n

Appendix Table A3 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Biochemical, total, household (overall), or parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 9) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 10) UNEXSO : not specific parent, neither parent, none in household, none
- 11) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 13) RACE : all in study or nearest available, otherwise by race
- 14) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A3 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma
Adjusted

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ADDOYO	1	b	8	17	all	Africa	*	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
AGABI1	14	b	6	7	all	Eu:Ita	1994	1999	CC	11	AnyPar	NoParent	current	never	-
AGABI2	14	b	13	14	all	Eu:Ita	1994	1999	CC	12	AnyPar	NoParent	current	never	-
ARSHAD	1	b	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non	-
BERGMA	1	b	3	6	all	Eu:Ger	1990	2000	Pr	8	AnyHh	NoHhMemb	18m	non	-
CALL	1	b	3	15	all	NAmer	1990	1992	CC	0	AnyHh	NoHhMemb	unspec	non	-
CHEN2	50	b	6	17	all	NAmer	1993	1996	CS	1	AnyHh	NoHhMemb	current	non	-
CHHABR	1	b	4	17	all	As:cen	*	1998	CS	0	AnyHh	NoHhMemb	unspec	non	-
CLARK	2	b	5	7	all	Eu:UK	*	1994	CC	0	Biochem	Low	-	-	saliva
CSONKA	4	b	6	13	all	Eu:Sca	*	2000	CS	4	AnyHh	NoHhMemb	<3y	non	-
CUNNI1	1	b	8	11	all	NAmer	1988	1996	CS	0	AnyHh	NoHhMemb	current	non	-
DAIGLE	3	b	0	*	all	NAmer	1986	1991	CC	7	Mother	NotMothr	unspec	non	-
DEKKER	6	b	5	8	all	NAmer	1988	1991	CC	9	AnyHh	NoHhMemb	unspec	non	-
DIJKST	1	b	6	12	all	Eu:wst	1986	1990	CS	0	AnyHh	NoHhMemb	current	non	-
DOTTER	1	m	8	17	all	Eu:est	1994	2001	CS	6	AnyHh	NoHhMemb	unspec	non	-
DOTTER	2	f	8	17	all	Eu:est	1994	2001	CS	6	AnyHh	NoHhMemb	unspec	non	-
FAGBUL	2	b	0	18	all	Africa	*	1994	CC	1	AnyPar	NoParent	unspec	non	-
FORSB1	2	b	6	12	all	Eu:Sca	1993	1997	CS	14	AnyHh	NoHhMemb	<2y	non	-
FORSB2	2	b	6	12	all	Eu:Sca	1993	1997	CS	14	AnyHh	NoHhMemb	<2y	non	-
FORSB3	2	b	6	12	all	Eu:Sca	1993	1997	CS	15	AnyHh	NoHhMemb	<2y	non	-
FUJI	1	b	8	11	all	As:FE	1994	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-
GILLIL	28	b	7	19	all	NAmer	1993	2001	CS	9	AnyHh	NoHhMemb	in life	non	-
GOLD	7	b	6	14	all	NAmer	1974	1993	Pr	11	Mother	NotMothr	ever	never	-
GUPTA	2	b	9	20	all	As:cen	1997	2001	CS	2	AnyHh	NoHhMemb	unspec	non	-
HABY	4	b	3	5	all	Auslia	1995	2001	CS	9	AnyPar	NoParent	<6m	non	-
HJERN1	13	b	3	15	all	Eu:Sca	1996	2001	CS	9	Mother	NotMothr	ever	never	-
HJERN2	13	b	3	15	all	Eu:Sca	1996	2001	CS	9	Father	NotFathr	ever	never	-
HOST	1	b	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non	-
HU1	6	b	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non	-
HU2	24	b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non	-
INFANT	10	b	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non	-
JAAKKO	2	b	4	4	all	Eu:Sca	1992	2001	Pr	7	AnyHh	NoHhMemb	<1m	non	-
JONES	2	b	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non	-
KARUNA	1	b	1	10	all	As:cen	1996	2001	CC	0	TotETS	None	current	non	-
LAM1	16	b	12	15	all	As:FE	1994	1998	CS	4	AnyHh	NoHhMemb	unspec	non	-
LAM2	2	b	8	13	all	As:FE	1995	1999	CS	4	AnyHh	NoHhMemb	unspec	non	-
LAU	1	b	3	10	all	As:FE	1989	1995	CS	0	AnyPar	NoParent	current	non	-
LEE1	1	b	6	12	all	As:FE	1995	2001	CS	8	AnyHh	NoHhMemb	current	non	-
LEE2	1	b	12	15	all	As:FE	1995	2001	CS	8	AnyHh	NoHhMemb	current	non	-
LEEN	1	b	9	9	all	Eu:wst	1991	1994	CC	0	AnyPar	NoParent	unspec	non	-
LILLJE	1	b	7	10	all	Eu:Sca	1991	1997	CS	0	AnyPar	NoParent	unspec	non	-
LINDFO	1	b	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non	-
MELSOM	5	m	11	17	all	As:cen	1997	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
MELSOM	6	f	11	17	all	As:cen	1997	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
MOHAME	1	b	9	11	all	Africa	1990	1995	CC	0	AnyHh	NoHhMemb	unspec	non	-
MOUSSA	1	b	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non	-
MUMCUO	6	b	3	15	all	As:ME	1986	1994	CC	0	AnyHh	NoHhMemb	unspec	non	-
NHANE3	61	b	4	16	w+b	NAmer	1988	2001	CS	6	Biochem	Low	-	-	blood
NITTA	1	b	7	12	all	As:FE	1995	1996	CS	5	AnyHh	NoHhMemb	current	non	-
OHARA	6	b	3	12	all	As:FE	2001	2002	CS	4	AnyPar	NoParent	current	non	-
PALMIE	3	b	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non	-
PETERS	6	b	9	14	all	As:FE	1989	1996	Pr	6	AnyHh	NoHhMemb	current	non	-
PIC	1	b	5	15	all	Eu:wst	1999	2002	CS	0	AnyPar	NoParent	unspec	non	-
RIBETR	1	b	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non	-
RONMAR	1	b	7	8	all	Eu:Sca	1996	2002	Pr	5	Mother	NotMothr	unspec	non	-
SARRAZ	1	b	6	10	all	SCAmer	*	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
SCHMIT	1	b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non	-
SELCUK	4	b	7	12	all	Eu:est	1994	1997	CS	6	AnyHh	NoHhMemb	unspec	non	-
SHOHAT	4	b	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non	-
SOTOQU	1	b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non	-
STANHO	1	b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non	-
STERN1	1	b	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non	-
STODDA	10	b	0	17	all	NAmer	1986	1995	CS	9	Mother	NotMothr	current	non	-
STRACH	9	b	13	18	all	Eu:UK	1993	1995	CC	4	Mother	NotMothr	current	non	-
TARIQ	12	b	4	4	all	Eu:UK	1989	2000	Pr	1	Mother	NotMothr	in life	non	-
TOMINA	2	b	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non	-
WANG	2	b	11	16	all	As:FE	1995	1999	CS	8	AnyHh	NoHhMemb	unspec	non	-
WILLE1	7	b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-
WOLFO1	1	b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO2	1	b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-

Appendix Table A3 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
WOLFO3	1	b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
YANG	2	b	6	12	all	As:FE	1994	1997	CS	10	AnyHh	NoHhMemb	unspec	non	-
ZHENG	19	b	6	10	all	As:FE	1999	2002	CC	6	AnyHh	NoHhMemb	in life	non	-

Appendix Table A3 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Cont	Case	Cont			
ADDOYO	1	b	0	13	5	23	33	3.73	(1.17-	11.91)
AGABI1	14	b	11	558	-	148	-	1.34	(1.11-	1.62)
AGABI2	14	b	12	700	-	203	-	1.17	(0.99-	1.39)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80-	14.60)
BERGMA	1	b	8	-	-	-	-	1.32	(0.88-	1.97)
CALL	1	b	0	19	19	18	17	0.94	(0.38-	2.37)
CHEN2	50	b	1	24	-	50	-	1.07	(0.61-	1.87)
CHHABR	1	b	0	118	404	313	1733	1.62	(1.27-	2.05)
CLARK	2	b	0	13	23	6	20	1.88	(0.60-	5.88)
CSONKA	4	b	4	-	-	-	-	2.10	(1.20-	3.70)
CUNNI1	1	b	0	396	5339	412	5387	0.97	(0.84-	1.12)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10-	3.47)
DEKKER	6	b	9	386	-	249	-	1.49	(1.24-	1.78)
DIJKST	1	b	0	-	-	-	-	1.95	(0.91-	4.19)
DOTTER	1	m	6	-	-	-	-	0.50	(0.30-	1.00)
DOTTER	2	f	6	-	-	-	-	0.50	(0.20-	1.10)
Subtotal	DOTTER							0.50	(0.31-	0.82)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84-	2.36)
FORSB1	2	b	14	-	-	-	-	1.10	(0.70-	1.70)
FORSB2	2	b	14	-	-	-	-	0.70	(0.30-	1.60)
FORSB3	2	b	15	-	-	-	-	1.56	(1.18-	2.05)
FUJI	1	b	0	36	602	29	370	0.76	(0.46-	1.27)
GILLIL	28	b	9	182	-	255	-	0.99	(0.76-	1.27)
GOLD	7	b	11	-	-	-	-	0.99	(0.83-	1.18)
GUPTA	2	b	2	84	-	121	-	1.78	(1.34-	2.36)
HABY	4	b	9	86	-	104	-	1.62	(0.95-	2.75)
HJERN1	13	b	9	61	-	58	-	0.72	(0.52-	1.01)
HJERN2	13	b	9	44	-	34	-	0.94	(0.62-	1.43)
HOST	1	b	0	20	457	14	285	0.89	(0.44-	1.79)
HU1	6	b	0	28	148	44	238	1.02	(0.61-	1.71)
HU2	24	b	3	34	-	84	-	1.47	(0.97-	2.23)
INFANT	10	b	19	183	-	273	-	1.40	(0.95-	2.05)
JAAKO	2	b	7	71	-	93	-	1.21	(0.85-	1.72)
JONES	2	b	0	27	24	73	76	1.17	(0.62-	2.21)
KARUNA	1	b	0	130	121	170	179	1.13	(0.82-	1.57)
LAM1	16	b	4	30	-	35	-	0.84	(0.51-	1.38)
LAM2	2	b	4	-	-	-	-	0.76	(0.47-	1.25)
LAU	1	b	0	19	247	9	158	1.35	(0.60-	3.06)
LEE1	1	b	8	-	-	-	-	1.37	(1.24-	1.51)
LEE2	1	b	8	-	-	-	-	0.99	(0.87-	1.13)
LEEN	1	b	0	46	45	69	51	0.76	(0.44-	1.31)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81-	1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15-	2.37)
MELSOM	5	m	0	-	-	-	-	3.00	(1.30-	6.70)
MELSOM	6	f	0	-	-	-	-	1.00	(0.30-	3.10)
Subtotal	MELSOM							2.09	(1.07-	4.08)
MOHAME	1	b	0	-	-	-	-	1.60	(0.80-	3.20)
MOUSSA	1	b	0	1	0	202	203	3.01	(0.12-	74.44)
MUMCUO	6	b	0	181	62	119	38	0.93	(0.59-	1.48)
NHANE3	61	b	6	321	-	126	-	1.25	(0.74-	2.11)
NITTA	1	b	5	-	-	-	-	0.91	(0.54-	1.53)
OHARA	6	b	4	82	-	59	-	0.91	(0.65-	1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70-	1.42)
PETERS	6	b	6	-	-	-	-	0.86	(0.64-	1.15)
PIC	1	b	0	51	829	60	1069	1.10	(0.75-	1.61)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59-	2.41)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12-	2.28)
SARRAZ	1	b	0	6	8	8	13	1.22	(0.31-	4.83)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21-	3.54)
SELCHUK	4	b	6	240	-	68	-	1.28	(0.94-	1.75)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95-	1.55)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14-	2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13-	1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63-	1.98)
STODDA	10	b	9	224	-	443	-	1.36	(1.14-	1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85-	1.79)
TARIQ	12	b	1	48	-	133	-	0.89	(0.57-	1.40)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08-	1.47)

Appendix Table A3 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
WANG	2	b	8	12212	-	8425	-	1.08	(1.05- 1.12)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
WOLFO1	1	b	7	-	-	-	-	1.17	(0.57- 2.43)
WOLFO2	1	b	7	-	-	-	-	1.01	(0.42- 2.41)
WOLFO3	1	b	10	-	-	-	-	2.11	(1.15- 3.87)
YANG	2	b	10	90	-	76	-	0.87	(0.61- 1.22)
ZHENG	19	b	6	285	-	118	-	1.40	(1.10- 1.90)
Partial Totals				18106	10355	14607	15063		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO	1	b	0	1.32	2.85	4.08	0.0262
AGABI1	14	b	11	0.29	107.50	3.18	0.0024
AGABI2	14	b	12	0.16	133.43	0.17	0.0697
ARSHAD	1	b	7	1.20	1.82	2.13	0.1044
BERGMA	1	b	8	0.28	23.66	0.58	0.1769
CALL	1	b	0	-0.06	4.55	0.14	0.9029
CHEN2	50	b	1	0.07	12.24	0.03	0.8128
CHHABR	1	b	0	0.48	67.93	8.80	0.0001
CLARK	2	b	0	0.63	2.97	0.78	0.2753
CSONKA	4	b	4	0.74	12.12	4.68	0.0098
CUNNI1	1	b	0	-0.03	187.78	4.31	0.6744
DAIGLE	3	b	7	0.67	11.64	3.55	0.0217
DEKKER	6	b	9	0.40	117.58	9.09	0.0000
DIJKST	1	b	0	0.67	6.59	1.97	0.0865
DOTTER	1	m	6	-0.69	10.60	7.02	0.0240
DOTTER	2	f	6	-0.69	5.29	3.50	0.1110
Subtotal DOTTER				-1.63	15.89	10.53	
FAGBUL	2	b	1	0.34	14.40	0.71	0.1923
FORSB1	2	b	14	0.10	19.52	0.01	0.6737
FORSB2	2	b	14	-0.36	5.48	1.25	0.4036
FORSB3	2	b	15	0.44	50.37	5.28	0.0016
FUJI	1	b	0	-0.27	15.01	2.30	0.2946
GILLIL	28	b	9	-0.01	58.28	1.00	0.9388
GOLD	7	b	11	-0.01	124.12	2.12	0.9108
GUPTA	2	b	2	0.58	47.97	9.97	0.0001
HABY	4	b	9	0.48	13.60	1.78	0.0752
HJERN1	13	b	9	-0.33	34.86	7.04	0.0524
HJERN2	13	b	9	-0.06	22.00	0.73	0.7716
HOST	1	b	0	-0.12	7.87	0.44	0.7459
HU1	6	b	0	0.02	14.41	0.14	0.9302
HU2	24	b	3	0.39	22.17	1.55	0.0697
INFANT	10	b	19	0.34	25.97	1.21	0.0864
JAAKKO	2	b	7	0.19	30.93	0.15	0.2891
JONES	2	b	0	0.16	9.47	0.01	0.6266
KARUNA	1	b	0	0.12	36.46	0.00	0.4564
LAM1	16	b	4	-0.17	15.51	1.35	0.4923
LAM2	2	b	4	-0.27	16.06	2.51	0.2714
LAU	1	b	0	0.30	5.74	0.19	0.4716
LEE1	1	b	8	0.31	395.94	14.90	0.0000
LEE2	1	b	8	-0.01	224.74	3.85	0.8802
LEEN	1	b	0	-0.28	12.81	2.06	0.3157
LILLJE	1	b	0	0.09	42.18	0.05	0.5801
LINDFO	1	b	0	0.50	29.55	4.26	0.0065
MELSOM	5	m	0	1.10	5.71	5.46	0.0086
MELSOM	6	f	0	0.00	2.82	0.04	1.0000
Subtotal MELSOM				0.86	8.53	5.51	
MOHAME	1	b	0	0.47	8.00	0.98	0.1838
MOUSSA	1	b	0	1.10	0.37	0.36	0.5000
MUMCUO	6	b	0	-0.07	17.74	0.65	0.7676
NHANE3	61	b	6	0.22	14.00	0.15	0.4038
NITTA	1	b	5	-0.09	14.17	0.66	0.7226
OHARA	6	b	4	-0.09	34.25	1.58	0.5810
PALMIE	3	b	0	-0.00	30.71	0.45	0.9963
PETERS	6	b	6	-0.15	44.74	3.30	0.3131
PIC	1	b	0	0.09	26.03	0.02	0.6397
RIBEIR	1	b	0	0.18	7.76	0.03	0.6116

Appendix Table A3 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
RONMAR	1	b	5	0.47	30.41	3.71	0.0095
SARRAZ	1	b	0	0.20	2.03	0.01	0.7783
SCHMIT	1	b	4	0.73	13.33	4.91	0.0079
SELCUK	4	b	6	0.25	39.78	0.63	0.1195
SHOHAT	4	b	12	0.19	64.12	0.31	0.1269
SOTOQU	1	b	0	0.42	46.33	4.23	0.0040
STANHO	1	b	0	-1.02	3.66	4.77	0.0507
STERN1	1	b	0	0.11	11.71	0.00	0.7107
STODDA	10	b	9	0.31	124.44	4.34	0.0006
STRACH	9	b	4	0.21	27.70	0.21	0.2759
TARIQ	12	b	1	-0.12	19.03	1.07	0.6112
TOMINA	2	b	0	-1.06	1.84	2.55	0.1515
WANG	2	b	8	0.08	3689.08	7.09	0.0000
WILLE1	7	b	0	0.68	6.06	1.88	0.0955
WOLFO1	1	b	7	0.16	7.31	0.01	0.6712
WOLFO2	1	b	7	0.01	5.03	0.06	0.9822
WOLFO3	1	b	10	0.75	10.43	4.09	0.0159
YANG	2	b	10	-0.14	31.98	2.16	0.4310
ZHENG	19	b	6	0.34	51.44	2.39	0.0158

RR data

	N	73
	NS	71
	Wt	6396.00
Het	Chi	177.00
Het	df	72
Het	P	***
Fixed	RR	1.13
	RRl	1.10
	RRu	1.16
	P	+++
Random	RR	1.18
	RRl	1.11
	RRu	1.26
	P	+++
Asymm	P	N.S.

Appendix Table A3 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

RR data

	N	73						
	NS	71						
	Wt	6396.00						
	Het Chi	177.00						
	Het df	72						
	Het P	***						
Fixed	RR	1.13						
	RR1	1.10						
	RRu	1.16						
	P	+++						
Random	RR	1.18						
	RR1	1.11						
	RRu	1.26						
	P	+++						
Asymm	P	N.S.						
			<u>Sex</u>					
		both	male	female			Total	
	N	69	2	2			73	
	NS	69	2	2			73	
	Wt	6371.58	16.32	8.10			6396.00	
	Het Chi	160.96	11.92	0.88			177.00	
	Het df	68	1	1			72	
	Het P	***	***	N.S.			***	
Fixed	RR	1.13	0.94	0.64			1.13	
	RR1	1.10	0.58	0.32			1.10	
	RRu	1.16	1.52	1.27			1.16	
	P	+++	N.S.	N.S.			+++	
Random	RR	1.19	1.20	0.64			1.18	
	RR1	1.12	0.21	0.32			1.11	
	RRu	1.27	6.93	1.27			1.26	
	P	+++	N.S.	N.S.			+++	
Between	Chi						3.24	
Between	df						2	
Between	P						N.S.	
								<u>Continent</u>
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	13	3	31	21	2	3	73
	NS	13	3	30	20	2	3	71
	Wt	728.91	56.12	784.86	4783.61	17.26	25.25	6396.00
	Het Chi	27.08	0.46	58.62	68.38	6.52	2.26	177.00
	Het df	12	2	30	20	1	2	72
	Het P	**	N.S.	**	***	*	N.S.	***
Fixed	RR	1.16	1.46	1.21	1.11	1.18	1.64	1.13
	RR1	1.08	1.13	1.13	1.07	0.73	1.11	1.10
	RRu	1.25	1.90	1.30	1.14	1.89	2.42	1.16
	P	+++	++	+++	+++	N.S.	+	+++
Random	RR	1.19	1.46	1.20	1.13	0.82	1.67	1.18
	RR1	1.05	1.13	1.07	1.01	0.19	1.09	1.11
	RRu	1.36	1.90	1.34	1.25	3.54	2.55	1.26
	P	++	++	++	+	N.S.	+	+++
Between	Chi							13.68
Between	df							5
Between	P							*

Appendix Table A3 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Current Asthma Adjusted				
		Publication year			2000+	Total
		<1990	1990-94	1995-99		
RR data						
	N	3	16	29	25	73
	NS	3	16	29	23	71
	Wt	17.20	444.50	4744.41	1189.88	6396.00
	Het Chi	4.88	30.86	54.51	72.72	177.00
	Het df	2	15	28	24	72
	Het P	(*)	**	**	***	***
	Fixed RR	0.77	1.26	1.10	1.19	1.13
	RR1	0.48	1.15	1.07	1.13	1.10
	RRu	1.24	1.38	1.13	1.26	1.16
	P	N.S.	+++	+++	+++	+++
	Random RR	0.60	1.30	1.18	1.16	1.18
	RR1	0.25	1.11	1.09	1.03	1.11
	RRu	1.44	1.53	1.28	1.31	1.26
	P	N.S.	++	+++	+	+++
	Between Chi					14.03
	Between df					3
	Between P					**
		Study type				
		CC	Pr	CS	Total	
	N	23	8	42	73	
	NS	22	8	41	71	
	Wt	661.78	296.89	5437.34	6396.00	
	Het Chi	26.51	14.37	119.15	177.00	
	Het df	22	7	41	72	
	Het P	N.S.	*	***	***	
	Fixed RR	1.31	1.10	1.11	1.13	
	RR1	1.22	0.98	1.08	1.10	
	RRu	1.42	1.23	1.14	1.16	
	P	+++	N.S.	+++	+++	
	Random RR	1.32	1.16	1.13	1.18	
	RR1	1.20	0.96	1.05	1.11	
	RRu	1.44	1.39	1.23	1.26	
	P	+++	N.S.	++	+++	
	Between Chi					16.96
	Between df					2
	Between P					***
		Highest age in RR				
		0-9	10-14	15+	unknown	Total
	N	15	27	30	1	73
	NS	15	27	28	1	71
	Wt	432.74	1403.17	4548.45	11.64	6396.00
	Het Chi	17.13	51.54	85.05	0.00	177.00
	Het df	14	26	29	0	72
	Het P	N.S.	**	***	N.S.	***
	Fixed RR	1.36	1.16	1.10	1.96	1.13
	RR1	1.24	1.10	1.07	1.10	1.10
	RRu	1.50	1.22	1.13	3.48	1.16
	P	+++	+++	+++	+	+++
	Random RR	1.34	1.12	1.18	1.96	1.18
	RR1	1.20	1.02	1.06	1.10	1.11
	RRu	1.51	1.22	1.32	3.48	1.26
	P	+++	+	++	+	+++
	Between Chi					23.28
	Between df					3
	Between P					***

Appendix Table A3 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Current Asthma					
		Adjusted					
		Population setting					
		general	school	medical	allergy	other	Total
RR data							
	N	8	47	17	1		73
	NS	8	45	17	1		71
	Wt	290.55	5810.62	293.02	1.82		6396.00
Het	Chi	18.90	132.88	18.08	0.00		177.00
Het	df	7	46	16	0		72
Het	P	**	***	N.S.	N.S.		***
Fixed	RR	1.21	1.12	1.25	3.33		1.13
	RRl	1.08	1.09	1.11	0.78		1.10
	RRu	1.36	1.15	1.40	14.23		1.16
	P	+++	+++	+++	N.S.		+++
Random	RR	1.14	1.17	1.26	3.33		1.18
	RRl	0.92	1.08	1.11	0.78		1.11
	RRu	1.42	1.26	1.42	14.23		1.26
	P	N.S.	+++	+++	N.S.		+++
Between	Chi						7.13
Between	df						3
Between	P						(*)
		<u>Respondent for smoking</u>					
		child	parent	med rec	mix/oth	Total	
	N	8	49		16	73	
	NS	8	48		15	71	
	Wt	389.06	5517.43		489.51	6396.00	
Het	Chi	26.68	115.21		34.12	177.00	
Het	df	7	48		15	72	
Het	P	***	***		**	***	
Fixed	RR	1.08	1.13		1.12	1.13	
	RRl	0.98	1.10		1.02	1.10	
	RRu	1.19	1.16		1.22	1.16	
	P	N.S.	+++		+	+++	
Random	RR	1.07	1.22		1.11	1.18	
	RRl	0.83	1.14		0.95	1.11	
	RRu	1.39	1.31		1.30	1.26	
	P	N.S.	+++		N.S.	+++	
Between	Chi					0.98	
Between	df					2	
Between	P					N.S.	
		<u>Child smokers</u>					
		exc/none	included	ignored	Total		
	N	9	12	52	73		
	NS	9	11	51	71		
	Wt	266.28	4070.30	2059.42	6396.00		
Het	Chi	20.60	18.56	116.80	177.00		
Het	df	8	11	51	72		
Het	P	**	(*)	***	***		
Fixed	RR	1.13	1.08	1.23	1.13		
	RRl	1.00	1.05	1.17	1.10		
	RRu	1.27	1.12	1.28	1.16		
	P	+	+++	+++	+++		
Random	RR	1.08	1.11	1.21	1.18		
	RRl	0.86	1.00	1.12	1.11		
	RRu	1.36	1.25	1.31	1.26		
	P	N.S.	(+)	+++	+++		
Between	Chi				21.04		
Between	df				2		
Between	P				***		

Appendix Table A3 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Physician diagnosis (current)			Current Asthma Adjusted	
		yes	no/mix	Total		
RR data						
	N	29	44	73		
	NS	29	42	71		
	Wt	512.28	5883.72	6396.00		
Het	Chi	49.53	126.80	177.00		
Het	df	28	43	72		
Het	P	**	***	***		
Fixed	RR	1.17	1.12	1.13		
	RRl	1.07	1.10	1.10		
	RRu	1.27	1.15	1.16		
	P	+++	+++	+++		
Random	RR	1.19	1.19	1.18		
	RRl	1.05	1.10	1.11		
	RRu	1.35	1.27	1.26		
	P	++	+++	+++		
Between	Chi			0.67		
Between	df			1		
Between	P			N.S.		
	<u>Respondent for diagnosis (current)</u>					
		medrec	parent	child	mixed	Total
	N	16	38	13	6	73
	NS	16	38	12	5	71
	Wt	198.44	2142.31	3952.53	102.72	6396.00
Het	Chi	18.95	82.90	34.86	18.06	177.00
Het	df	15	37	12	5	72
Het	P	N.S.	***	***	**	***
Fixed	RR	1.30	1.21	1.08	1.00	1.13
	RRl	1.13	1.16	1.05	0.83	1.10
	RRu	1.49	1.26	1.12	1.22	1.16
	P	+++	+++	+++	N.S.	+++
Random	RR	1.32	1.21	1.07	1.02	1.18
	RRl	1.11	1.12	0.91	0.68	1.11
	RRu	1.56	1.30	1.27	1.53	1.26
	P	++	+++	N.S.	N.S.	+++
Between	Chi					22.23
Between	df					3
Between	P					***
	<u>Questionnaire for symptoms</u>					
		ISAAC	ATS	other	Total	
	N	13	9	51	73	
	NS	12	9	50	71	
	Wt	4759.42	275.21	1361.37	6396.00	
Het	Chi	45.58	16.82	109.60	177.00	
Het	df	12	8	50	72	
Het	P	***	*	***	***	
Fixed	RR	1.12	1.06	1.19	1.13	
	RRl	1.09	0.94	1.12	1.10	
	RRu	1.15	1.19	1.25	1.16	
	P	+++	N.S.	+++	+++	
Random	RR	1.25	1.06	1.17	1.18	
	RRl	1.12	0.86	1.07	1.11	
	RRu	1.39	1.30	1.28	1.26	
	P	+++	N.S.	+++	+++	
Between	Chi				5.00	
Between	df				2	
Between	P				(*)	

Appendix Table A3 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

	Current Asthma						Total
	Adjusted						
	Number of cases (current asthma)						
	1-50	51-100	101-200	201+	unknown		
RR data							
	N	14	15	17	25	2	73
	NS	14	14	16	25	2	71
	Wt	75.95	173.84	564.46	5544.09	37.66	6396.00
	Het Chi	15.60	28.18	38.17	88.50	0.03	177.00
	Het df	13	14	16	24	1	72
	Het P	N.S.	*	**	***	N.S.	***
	Fixed RR	1.26	0.97	1.09	1.14	1.29	1.13
	RRl	1.00	0.84	1.00	1.11	0.94	1.10
	RRu	1.58	1.13	1.18	1.17	1.78	1.16
	P	+	N.S.	(+)	+++	N.S.	+++
	Random RR	1.27	0.96	1.16	1.24	1.29	1.18
	RRl	0.99	0.78	1.00	1.15	0.94	1.11
	RRu	1.63	1.20	1.35	1.34	1.78	1.26
	P	(+)	N.S.	+	+++	N.S.	+++
	Between Chi						6.52
	Between df						4
	Between P						N.S.

Study adjusts for or is matched on sex

	Yes	No	Total
N	49	24	73
NS	49	22	71
Wt	5995.64	400.36	6396.00
Het Chi	122.89	52.09	177.00
Het df	48	23	72
Het P	***	***	***
Fixed RR	1.12	1.21	1.13
RRl	1.10	1.10	1.10
RRu	1.15	1.33	1.16
P	+++	+++	+++
Random RR	1.19	1.13	1.18
RRl	1.11	0.96	1.11
RRu	1.27	1.34	1.26
P	+++	N.S.	+++
Between Chi			2.02
Between df			1
Between P			N.S.

Study adjusts for or is matched on age

	Yes	No	Total
N	41	32	73
NS	41	30	71
Wt	5653.72	742.28	6396.00
Het Chi	111.50	65.13	177.00
Het df	40	31	72
Het P	***	***	***
Fixed RR	1.13	1.15	1.13
RRl	1.10	1.07	1.10
RRu	1.16	1.24	1.16
P	+++	+++	+++
Random RR	1.19	1.16	1.18
RRl	1.11	1.03	1.11
RRu	1.28	1.31	1.26
P	+++	+	+++
Between Chi			0.37
Between df			1
Between P			N.S.

Appendix Table A3 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

Current Asthma
Adjusted
Study adjusts for or is matched on race

	Yes	No	Total
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RR data

N	12	61	73
NS	11	60	71
Wt	786.88	5609.13	6396.00
Het Chi	29.73	145.93	177.00
Het df	11	60	72
Het P	**	***	***
Fixed RR	1.17	1.12	1.13
RRl	1.09	1.09	1.10
RRu	1.26	1.15	1.16
P	+++	+++	+++
Random RR	1.21	1.18	1.18
RRl	1.06	1.10	1.11
RRu	1.38	1.26	1.26
P	++	+++	+++
Between Chi			1.33
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	32	41	73
NS	31	40	71
Wt	5662.20	733.80	6396.00
Het Chi	91.21	78.77	177.00
Het df	31	40	72
Het P	***	***	***
Fixed RR	1.12	1.24	1.13
RRl	1.09	1.15	1.10
RRu	1.14	1.33	1.16
P	+++	+++	+++
Random RR	1.17	1.19	1.18
RRl	1.08	1.07	1.11
RRu	1.26	1.34	1.26
P	+++	++	+++
Between Chi			7.01
Between df			1
Between P			**

Study adjusts for or is matched on SES

N	30	43	73
NS	30	41	71
Wt	5562.11	833.90	6396.00
Het Chi	79.84	88.47	177.00
Het df	29	42	72
Het P	***	***	***
Fixed RR	1.11	1.24	1.13
RRl	1.08	1.16	1.10
RRu	1.14	1.33	1.16
P	+++	+++	+++
Random RR	1.16	1.19	1.18
RRl	1.08	1.07	1.11
RRu	1.25	1.33	1.26
P	+++	++	+++
Between Chi			8.68
Between df			1
Between P			**

Appendix Table A3 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

Current Asthma
Adjusted
Study adjusts for family medical history

	Yes	No	Total
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RR data

N	27	46	73
NS	27	44	71
Wt	1130.75	5265.25	6396.00
Het Chi	43.82	131.20	177.00
Het df	26	45	72
Het P	*	***	***
Fixed RR	1.17	1.12	1.13
RRl	1.11	1.09	1.10
RRu	1.24	1.15	1.16
P	+++	+++	+++
Random RR	1.22	1.15	1.18
RRl	1.12	1.06	1.11
RRu	1.32	1.26	1.26
P	+++	++	+++
Between Chi			1.98
Between df			1
Between P			N.S.

Study adjusts for family composition

N	14	59	73
NS	14	57	71
Wt	500.19	5895.81	6396.00
Het Chi	26.47	150.52	177.00
Het df	13	58	72
Het P	*	***	***
Fixed RR	1.13	1.13	1.13
RRl	1.04	1.10	1.10
RRu	1.24	1.16	1.16
P	++	+++	+++
Random RR	1.14	1.20	1.18
RRl	0.99	1.12	1.11
RRu	1.32	1.28	1.26
P	(+)	+++	+++
Between Chi			0.01
Between df			1
Between P			N.S.

Study adjusts for cooking, heating, air conditioning

N	24	49	73
NS	22	49	71
Wt	4621.45	1774.55	6396.00
Het Chi	65.16	100.40	177.00
Het df	23	48	72
Het P	***	***	***
Fixed RR	1.10	1.21	1.13
RRl	1.07	1.15	1.10
RRu	1.13	1.27	1.16
P	+++	+++	+++
Random RR	1.20	1.18	1.18
RRl	1.08	1.08	1.11
RRu	1.33	1.27	1.26
P	+++	+++	+++
Between Chi			11.43
Between df			1
Between P			***

Appendix Table A3 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

Current Asthma
Adjusted
Study adjusts for housing quality, crowding, damp, mould
Yes No Total

RR data

N	22	51	73
NS	21	50	71
Wt	958.61	5437.39	6396.00
Het Chi	51.58	123.70	177.00
Het df	21	50	72
Het P	***	***	***
Fixed RR	1.17	1.12	1.13
RRl	1.10	1.09	1.10
RRu	1.25	1.15	1.16
P	+++	+++	+++
Random RR	1.16	1.19	1.18
RRl	1.04	1.11	1.11
RRu	1.31	1.29	1.26
P	++	+++	+++
Between Chi			1.71
Between df			1
Between P			N.S.

Study adjusts for pets, animal contact, farming

N	20	53	73
NS	18	53	71
Wt	979.98	5416.02	6396.00
Het Chi	52.96	117.04	177.00
Het df	19	52	72
Het P	***	***	***
Fixed RR	1.22	1.11	1.13
RRl	1.15	1.08	1.10
RRu	1.30	1.14	1.16
P	+++	+++	+++
Random RR	1.19	1.18	1.18
RRl	1.04	1.10	1.11
RRu	1.37	1.27	1.26
P	+	+++	+++
Between Chi			7.00
Between df			1
Between P			**

Study adjusts for child's medical history

N	18	55	73
NS	18	53	71
Wt	422.95	5973.05	6396.00
Het Chi	22.60	148.00	177.00
Het df	17	54	72
Het P	N.S.	***	***
Fixed RR	1.27	1.12	1.13
RRl	1.16	1.09	1.10
RRu	1.40	1.15	1.16
P	+++	+++	+++
Random RR	1.29	1.15	1.18
RRl	1.15	1.07	1.11
RRu	1.45	1.23	1.26
P	+++	+++	+++
Between Chi			6.39
Between df			1
Between P			*

Appendix Table A3 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Current Asthma					
		Adjusted					
		Exposed group : when Exposed					
		lif/ev	age<7y	current	unspec	other	Total
RR data	N	8	8	23	31	3	73
	NS	8	8	23	29	3	71
	Wt	337.54	185.23	1464.60	4369.50	39.14	6396.00
	Het Chi	15.14	8.14	51.35	82.71	0.49	177.00
	Het df	7	7	22	30	2	72
	Het P	*	N.S.	***	***	N.S.	***
Fixed	RR	1.03	1.42	1.18	1.11	1.41	1.13
	RRl	0.93	1.23	1.12	1.07	1.03	1.10
	RRu	1.15	1.64	1.24	1.14	1.93	1.16
	P	N.S.	+++	+++	+++	+	+++
Random	RR	1.04	1.42	1.16	1.18	1.41	1.18
	RRl	0.88	1.21	1.05	1.05	1.03	1.11
	RRu	1.24	1.66	1.28	1.32	1.93	1.26
	P	N.S.	+++	++	++	+	+++
Between	Chi						19.17
Between	df						4
Between	P						***
		Unexposed group : who is smoker					
		NoHhMemb	NoParent	NotSpPar	Total		
	N	40	16	17	73		
	NS	38	16	17	71		
	Wt	5316.52	495.89	583.59	6396.00		
	Het Chi	117.00	18.03	37.23	177.00		
	Het df	39	15	16	72		
	Het P	***	N.S.	**	***		
Fixed	RR	1.11	1.21	1.19	1.13		
	RRl	1.09	1.11	1.09	1.10		
	RRu	1.15	1.32	1.29	1.16		
	P	+++	+++	+++	+++		
Random	RR	1.17	1.21	1.19	1.18		
	RRl	1.07	1.09	1.03	1.11		
	RRu	1.28	1.34	1.37	1.26		
	P	+++	+++	+	+++		
Between	Chi				4.73		
Between	df				2		
Between	P				(*)		
		Unexposed group : time					
		non	never	non+othr	NA	Total	
	N	66	5		2	73	
	NS	64	5		2	71	
	Wt	5957.12	421.92		16.96	6396.00	
	Het Chi	162.81	12.87		0.41	177.00	
	Het df	65	4		1	72	
	Het P	***	*		N.S.	***	
Fixed	RR	1.13	1.10		1.34	1.13	
	RRl	1.10	1.00		0.83	1.10	
	RRu	1.16	1.20		2.16	1.16	
	P	+++	(+)		N.S.	+++	
Random	RR	1.20	1.05		1.34	1.18	
	RRl	1.12	0.87		0.83	1.11	
	RRu	1.28	1.26		2.16	1.26	
	P	+++	N.S.		N.S.	+++	
Between	Chi					0.91	
Between	df					2	
Between	P					N.S.	

Appendix Table A3 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Current Asthma						
		Adjusted						
		Number of adjustment variables						
		0	1	2	3-5	6-9	10+	Total
RR data								
	N	29	3	1	9	21	10	73
	NS	28	3	1	9	20	10	71
	Wt	616.94	45.67	47.97	185.72	4926.77	572.93	6396.00
	Het Chi	50.71	1.74	0.00	20.22	72.18	18.37	177.00
	Het df	28	2	0	8	20	9	72
	Het P	**	N.S.	N.S.	**	***	*	***
	Fixed RR	1.15	1.08	1.78	1.21	1.11	1.19	1.13
	RR1	1.06	0.81	1.34	1.05	1.08	1.09	1.10
	RRu	1.25	1.44	2.36	1.40	1.14	1.29	1.16
	P	+++	N.S.	+++	++	+++	+++	+++
	Random RR	1.18	1.08	1.78	1.22	1.15	1.20	1.18
	RR1	1.04	0.81	1.34	0.97	1.04	1.05	1.11
	RRu	1.35	1.44	2.36	1.54	1.27	1.37	1.26
	P	+	N.S.	+++	(+)	++	++	+++
	Between Chi							13.79
	Between df							5
	Between P							*

RR adjusted for sex

		Yes	No	Total
	N	36	37	73
	NS	36	35	71
	Wt	5659.24	736.76	6396.00
	Het Chi	106.18	70.76	177.00
	Het df	35	36	72
	Het P	***	***	***
	Fixed RR	1.13	1.12	1.13
	RR1	1.10	1.04	1.10
	RRu	1.16	1.20	1.16
	P	+++	++	+++
	Random RR	1.22	1.13	1.18
	RR1	1.13	1.00	1.11
	RRu	1.31	1.27	1.26
	P	+++	+	+++
	Between Chi			0.06
	Between df			1
	Between P			N.S.

RR adjusted for age

	N	29	44	73
	NS	29	42	71
	Wt	5472.53	923.48	6396.00
	Het Chi	95.83	80.20	177.00
	Het df	28	43	72
	Het P	***	***	***
	Fixed RR	1.12	1.16	1.13
	RR1	1.09	1.09	1.10
	RRu	1.15	1.24	1.16
	P	+++	+++	+++
	Random RR	1.19	1.18	1.18
	RR1	1.10	1.07	1.11
	RRu	1.29	1.31	1.26
	P	+++	++	+++
	Between Chi			0.97
	Between df			1
	Between P			N.S.

Appendix Table A3 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Current Asthma				
		Adjusted				
		RR adjusted for other ETS				
		Yes	No	Total		
RR data						
	N	11	62	73		
	NS	11	60	71		
	Wt	621.75	5774.25	6396.00		
	Het Chi	13.30	156.71	177.00		
	Het df	10	61	72		
	Het P	N.S.	***	***		
Fixed	RR	1.25	1.12	1.13		
	RRl	1.15	1.09	1.10		
	RRu	1.35	1.15	1.16		
	P	+++	+++	+++		
Random	RR	1.24	1.17	1.18		
	RRl	1.13	1.09	1.11		
	RRu	1.37	1.26	1.26		
	P	+++	+++	+++		
Between	Chi			6.98		
Between	df			1		
Between	P			**		
<u>RR adjusted for factor other than sex, age, other ETS</u>						
	N	42	31	73		
	NS	41	30	71		
	Wt	5712.07	683.93	6396.00		
	Het Chi	114.83	60.69	177.00		
	Het df	41	30	72		
	Het P	***	***	***		
Fixed	RR	1.12	1.18	1.13		
	RRl	1.09	1.09	1.10		
	RRu	1.15	1.27	1.16		
	P	+++	+++	+++		
Random	RR	1.18	1.20	1.18		
	RRl	1.10	1.05	1.11		
	RRu	1.26	1.36	1.26		
	P	+++	++	+++		
Between	Chi			1.48		
Between	df			1		
Between	P			N.S.		
<u>Derivation of RR/CI</u>						
	Original	Numbers	SumNumbs	Other	Total	
	N	32	14	8	19	73
	NS	30	14	8	19	71
	Wt	5118.17	433.20	134.00	710.63	6396.00
	Het Chi	90.18	24.95	14.97	46.07	177.00
	Het df	31	13	7	18	72
	Het P	***	*	*	***	***
Fixed	RR	1.13	1.14	1.07	1.15	1.13
	RRl	1.10	1.04	0.90	1.07	1.10
	RRu	1.16	1.26	1.26	1.24	1.16
	P	+++	++	N.S.	+++	+++
Random	RR	1.24	1.18	1.03	1.15	1.18
	RRl	1.13	1.00	0.79	1.01	1.11
	RRu	1.36	1.39	1.34	1.30	1.26
	P	+++	+	N.S.	+	+++
Between	Chi					0.83
Between	df					3
Between	P					N.S.

Appendix Table A3 - 4

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma
Unadjusted

REF NRR X SEX AGE AGEH RACE	LOC BEGYR PUBYR STYP ADJ EXP-who UNEXsource	EXPOS-time UNEXTI BIOMEA														
ADDOYO	1	b	8	17	all	Africa	*	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-	
AGAB1	7	x	b	6	7	all	Eu:Ita	1994	1999	CC	0	AnyPar	NoParent	current	never	-
AGAB2	7	x	b	13	14	all	Eu:Ita	1994	1999	CC	0	AnyPar	NoParent	current	never	-
ARSHAD	1	b	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non	-	
BERGMA	1	b	3	6	all	Eu:Ger	1990	2000	Pr	8	AnyHh	NoHhMemb	18m	non	-	
CALL	1	b	3	15	all	NAmer	1990	1992	CC	0	AnyHh	NoHhMemb	unspec	non	-	
CHEN2	24	x	b	6	17	all	NAmer	1993	1996	CS	0	AnyHh	NoHhMemb	current	non	-
CHHABR	1	b	4	17	all	As:cen	*	1998	CS	0	AnyHh	NoHhMemb	unspec	non	-	
CLARK	2	b	5	7	all	Eu:UK	*	1994	CC	0	Biochem	Low	-	-	saliva	
CONKA	2	x	b	6	13	all	Eu:Sca	*	2000	CS	0	AnyHh	NoHhMemb	<3y	non	-
CUNNI1	1	b	8	11	all	NAmer	1988	1996	CS	0	AnyHh	NoHhMemb	current	non	-	
DAIGLE	1	x	b	0	*	all	NAmer	1986	1991	CC	0	Mother	NotMothr	unspec	non	-
DEKKER	3	x	b	5	8	all	NAmer	1988	1991	CC	0	AnyHh	NoHhMemb	unspec	non	-
DIJKST	1	b	6	12	all	Eu:wst	1986	1990	CS	0	AnyHh	NoHhMemb	current	non	-	
DOTTER	1	m	8	17	all	Eu:est	1994	2001	CS	6	AnyHh	NoHhMemb	unspec	non	-	
DOTTER	2	f	8	17	all	Eu:est	1994	2001	CS	6	AnyHh	NoHhMemb	unspec	non	-	
FAGBUL	1	x	b	0	18	all	Africa	*	1994	CC	0	AnyPar	NoParent	unspec	non	-
FORSB1	2	b	6	12	all	Eu:Sca	1993	1997	CS	14	AnyHh	NoHhMemb	<2y	non	-	
FORSB2	2	b	6	12	all	Eu:Sca	1993	1997	CS	14	AnyHh	NoHhMemb	<2y	non	-	
FORSB3	2	b	6	12	all	Eu:Sca	1993	1997	CS	15	AnyHh	NoHhMemb	<2y	non	-	
FUJI	1	b	8	11	all	As:FE	1994	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-	
GILLIL	48	x	b	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	in life	non	-
GOLD	7	b	6	14	all	NAmer	1974	1993	Pr	11	Mother	NotMothr	ever	never	-	
GUPTA	1	x	b	9	20	all	As:cen	1997	2001	CS	0	AnyHh	NoHhMemb	unspec	non	-
HABY	2	x	b	3	5	all	Auslia	1995	2001	CS	0	AnyPar	NoParent	<6m	non	-
HJERN1	5	x	b	3	15	all	Eu:Sca	1996	2001	CS	0	Mother	NotMothr	ever	never	-
HJERN2	5	x	b	3	15	all	Eu:Sca	1996	2001	CS	0	Father	NotFathr	ever	never	-
HOST	1	b	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non	-	
HU1	6	b	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non	-	
HU2	22	x	b	20	22	all	NAmer	1986	1997	Pr	0	AnyPar	LowParnt	13-15y	non	-
INFANT	3	x	b	3	4	all	NAmer	1988	1993	CC	0	Mother	NotMothr	in life	non	-
JAAKKO	1	x	b	4	4	all	Eu:Sca	1992	2001	Pr	0	AnyHh	NoHhMemb	<1m	non	-
JONES	2	b	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non	-	
KARUNA	1	b	1	10	all	As:cen	1996	2001	CC	0	TotETS	None	current	non	-	
LAM1	12	x	b	12	15	all	As:FE	1994	1998	CS	0	AnyHh	NoHhMemb	unspec	non	-
LAM2	2	b	8	13	all	As:FE	1995	1999	CS	4	AnyHh	NoHhMemb	unspec	non	-	
LAU	1	b	3	10	all	As:FE	1989	1995	CS	0	AnyPar	NoParent	current	non	-	
LEE1	1	b	6	12	all	As:FE	1995	2001	CS	8	AnyHh	NoHhMemb	current	non	-	
LEE2	1	b	12	15	all	As:FE	1995	2001	CS	8	AnyHh	NoHhMemb	current	non	-	
LEEN	1	b	9	9	all	Eu:wst	1991	1994	CC	0	AnyPar	NoParent	unspec	non	-	
LILLJE	1	b	7	10	all	Eu:Sca	1991	1997	CS	0	AnyPar	NoParent	unspec	non	-	
LINDFO	1	b	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non	-	
MELSOM	5	m	11	17	all	As:cen	1997	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-	
MELSOM	6	f	11	17	all	As:cen	1997	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-	
MOHAME	1	b	9	11	all	Africa	1990	1995	CC	0	AnyHh	NoHhMemb	unspec	non	-	
MOUSSA	1	b	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non	-	
MUMCUO	6	b	3	15	all	As:ME	1986	1994	CC	0	AnyHh	NoHhMemb	unspec	non	-	
NHANE3	49	x	b	4	16	w+b	NAmer	1988	2001	CS	0	Biochem	Low	-	-	blood
NITTA	1	b	7	12	all	As:FE	1995	1996	CS	5	AnyHh	NoHhMemb	current	non	-	
OHARA	5	x	b	3	12	all	As:FE	2001	2002	CS	0	AnyPar	NoParent	current	non	-
PALMIE	3	b	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non	-	
PETERS	6	b	9	14	all	As:FE	1989	1996	Pr	6	AnyHh	NoHhMemb	current	non	-	
PIC	1	b	5	15	all	Eu:wst	1999	2002	CS	0	AnyPar	NoParent	unspec	non	-	
RIBETR	1	b	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non	-	
RONMAR	1	b	7	8	all	Eu:Sca	1996	2002	Pr	5	Mother	NotMothr	unspec	non	-	
SARRAZ	1	b	6	10	all	SCAmer	*	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-	
SCHMIT	1	b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non	-	
SELCUK	3	x	b	7	12	all	Eu:est	1994	1997	CS	0	AnyHh	NoHhMemb	unspec	non	-
SHOHAT	2	x	b	13	14	all	As:ME	1997	2002	CS	0	Mother	NotMothr	unspec	non	-
SOTOQU	1	b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non	-	
STANHO	1	b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non	-	
STERN1	1	b	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non	-	
STODDA	5	x	b	0	17	all	NAmer	1986	1995	CS	0	Mother	NotMothr	current	non	-
STRACH	3	x	b	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	current	non	-
TARIQ	10	x	b	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	NotMothr	in life	non	-
TOMINA	2	b	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non	-	
WANG	1	x	b	11	16	all	As:FE	1995	1999	CS	0	AnyHh	NoHhMemb	unspec	non	-
WILLE1	7	b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-	
WOLFO1	1	b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-	
WOLFO2	1	b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-	

Appendix Table A3 - 4

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Unadjusted

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
WOLFO3	1		b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
YANG	1	x	b	6	12	all	As:FE	1994	1997	CS	0	AnyHh	NoHhMemb	unspec	non	-
ZHENG	7	x	b	6	10	all	As:FE	1999	2002	CC	0	AnyHh	NoHhMemb	in life	non	-

Appendix Table A3 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ADDOYO	1	b	0	13	5	23	33	3.73	(1.17- 11.91)
AGABI1	7	b	0	558	8013	148	2825	1.33	(1.10- 1.60)
AGABI2	7	b	0	700	7742	203	2837	1.26	(1.07- 1.49)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80- 14.60)
BERGMA	1	b	8	-	-	-	-	1.32	(0.88- 1.97)
CALL	1	b	0	19	19	18	17	0.94	(0.38- 2.37)
CHEN2	24	b	0	24	260	50	558	1.03	(0.62- 1.71)
CHHABR	1	b	0	118	404	313	1733	1.62	(1.27- 2.05)
CLARK	2	b	0	13	23	6	20	1.88	(0.60- 5.88)
CSONKA	2	b	0	-	-	-	-	2.20	(1.30- 3.50)
CUNNI1	1	b	0	396	5339	412	5387	0.97	(0.84- 1.12)
DAIGLE	1	b	0	51	72	86	174	1.43	(0.92- 2.23)
DEKKER	3	b	0	386	4622	249	4585	1.54	(1.30- 1.81)
DIJKST	1	b	0	-	-	-	-	1.95	(0.91- 4.19)
DOTTER	1	m	6	-	-	-	-	0.50	(0.30- 1.00)
DOTTER	2	f	6	-	-	-	-	0.50	(0.20- 1.10)
Subtotal	DOTTER							0.50	(0.31- 0.82)
FAGBUL	1	b	0	81	55	59	85	2.12	(1.32- 3.42)
FORSB1	2	b	14	-	-	-	-	1.10	(0.70- 1.70)
FORSB2	2	b	14	-	-	-	-	0.70	(0.30- 1.60)
FORSB3	2	b	15	-	-	-	-	1.56	(1.18- 2.05)
FUJI	1	b	0	36	602	29	370	0.76	(0.46- 1.27)
GILLIL	48	b	0	188	1968	298	3008	0.96	(0.80- 1.17)
GOLD	7	b	11	-	-	-	-	0.99	(0.83- 1.18)
GUPTA	1	b	0	84	2490	121	6395	1.78	(1.34- 2.36)
HABY	2	b	0	86	299	104	485	1.34	(0.97- 1.85)
HJERN1	5	b	0	61	1346	58	1078	0.84	(0.58- 1.22)
HJERN2	5	b	0	44	977	34	884	1.17	(0.74- 1.85)
HOST	1	b	0	20	457	14	285	0.89	(0.44- 1.79)
HU1	6	b	0	28	148	44	238	1.02	(0.61- 1.71)
HU2	22	b	0	34	258	84	1100	1.73	(1.13- 2.63)
INFANT	3	b	0	183	167	273	289	1.16	(0.89- 1.52)
JAAKKO	1	b	0	71	932	93	1427	1.17	(0.85- 1.61)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
KARUNA	1	b	0	130	121	170	179	1.13	(0.82- 1.57)
LAM1	12	b	0	30	2089	35	2328	0.96	(0.58- 1.56)
LAM2	2	b	4	-	-	-	-	0.76	(0.47- 1.25)
LAU	1	b	0	19	247	9	158	1.35	(0.60- 3.06)
LEE1	1	b	8	-	-	-	-	1.37	(1.24- 1.51)
LEE2	1	b	8	-	-	-	-	0.99	(0.87- 1.13)
LEEN	1	b	0	46	45	69	51	0.76	(0.44- 1.31)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81- 1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15- 2.37)
MELSOM	5	m	0	-	-	-	-	3.00	(1.30- 6.70)
MELSOM	6	f	0	-	-	-	-	1.00	(0.30- 3.10)
Subtotal	MELSOM							2.09	(1.07- 4.08)
MOHAME	1	b	0	-	-	-	-	1.60	(0.80- 3.20)
MOUSSA	1	b	0	1	0	202	203	3.01	(0.12- 74.44)
MUMCUO	6	b	0	181	62	119	38	0.93	(0.59- 1.48)
NHANE3	49	b	0	321	3447	126	1506	1.11	(0.90- 1.38)
NITTA	1	b	5	-	-	-	-	0.91	(0.54- 1.53)
OHARA	5	b	0	82	1214	59	786	0.90	(0.64- 1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70- 1.42)
PETERS	6	b	6	-	-	-	-	0.86	(0.64- 1.15)
PIC	1	b	0	51	829	60	1069	1.10	(0.75- 1.61)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59- 2.41)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12- 2.28)
SARRAZ	1	b	0	6	8	8	13	1.22	(0.31- 4.83)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SELCUK	3	b	0	240	3697	68	1407	1.34	(1.02- 1.77)
SHOHAT	2	b	0	187	1762	493	7207	1.55	(1.30- 1.85)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14- 2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13- 1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63- 1.98)
STODDA	5	b	0	224	1779	443	4826	1.37	(1.16- 1.63)
STRACH	3	b	0	122	93	364	382	1.38	(1.01- 1.87)
TARIQ	10	b	0	48	259	133	778	1.08	(0.76- 1.55)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)

Appendix Table A3 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
WANG	1	b	0	12212	79154	8425	55493	1.02	(0.99- 1.05)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
WOLFO1	1	b	7	-	-	-	-	1.17	(0.57- 2.43)
WOLFO2	1	b	7	-	-	-	-	1.01	(0.42- 2.41)
WOLFO3	1	b	10	-	-	-	-	2.11	(1.15- 3.87)
YANG	1	b	0	90	2471	76	1527	0.73	(0.54- 1.00)
ZHENG	7	b	0	285	501	118	305	1.47	(1.14- 1.90)
Partial Totals				18112	136022	14650	117338		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO	1	b	0	1.32	2.85	4.28	0.0262
AGABI1	7	b	0	0.28	110.77	4.11	0.0027
AGABI2	7	b	0	0.23	146.28	2.94	0.0047
ARSHAD	1	b	7	1.20	1.82	2.25	0.1044
BERGMA	1	b	8	0.28	23.66	0.81	0.1769
CALL	1	b	0	-0.06	4.55	0.10	0.9029
CHEN2	24	b	0	0.03	14.86	0.06	0.9088
CHHABR	1	b	0	0.48	67.93	10.26	0.0001
CLARK	2	b	0	0.63	2.97	0.87	0.2753
CSONKA	2	b	0	0.79	15.67	7.60	0.0018
CUNNI1	1	b	0	-0.03	187.78	2.83	0.6744
DAIGLE	1	b	0	0.36	19.66	1.41	0.1106
DEKKER	3	b	0	0.43	142.02	16.25	0.0000
DIJKST	1	b	0	0.67	6.59	2.18	0.0865
DOTTER	1	m	6	-0.69	10.60	6.54	0.0240
DOTTER	2	f	6	-0.69	5.29	3.26	0.1110
Subtotal DOTTER				-1.57	15.89	9.80	
FAGBUL	1	b	0	0.75	16.88	7.36	0.0020
FORSB1	2	b	14	0.10	19.52	0.00	0.6737
FORSB2	2	b	14	-0.36	5.48	1.10	0.4036
FORSB3	2	b	15	0.44	50.37	6.26	0.0016
FUJI	1	b	0	-0.27	15.01	1.97	0.2946
GILLIL	48	b	0	-0.04	105.09	1.73	0.7091
GOLD	7	b	11	-0.01	124.12	1.29	0.9108
GUPTA	1	b	0	0.58	48.25	11.40	0.0001
HABY	2	b	0	0.29	37.52	1.52	0.0720
HJERN1	5	b	0	-0.17	28.32	1.97	0.3611
HJERN2	5	b	0	0.16	18.42	0.08	0.4983
HOST	1	b	0	-0.12	7.87	0.34	0.7459
HU1	6	b	0	0.02	14.41	0.07	0.9302
HU2	22	b	0	0.55	21.69	4.46	0.0110
INFANT	3	b	0	0.15	53.83	0.17	0.2761
JAAKKO	1	b	0	0.16	37.58	0.15	0.3387
JONES	2	b	0	0.16	9.47	0.04	0.6266
KARUNA	1	b	0	0.12	36.46	0.04	0.4564
LAM1	12	b	0	-0.05	15.92	0.30	0.8549
LAM2	2	b	4	-0.27	16.06	2.16	0.2714
LAU	1	b	0	0.30	5.74	0.25	0.4716
LEE1	1	b	8	0.31	395.94	19.64	0.0000
LEE2	1	b	8	-0.01	224.74	2.34	0.8802
LEEN	1	b	0	-0.28	12.81	1.78	0.3157
LILLJE	1	b	0	0.09	42.18	0.00	0.5801
LINDFO	1	b	0	0.50	29.55	4.93	0.0065
MELSOM	5	m	0	1.10	5.71	5.79	0.0086
MELSOM	6	f	0	0.00	2.82	0.02	1.0000
Subtotal MELSOM				0.91	8.53	5.81	
MOHAME	1	b	0	0.47	8.00	1.14	0.1838
MOUSSA	1	b	0	1.10	0.37	0.38	0.5000
MUMCUO	6	b	0	-0.07	17.74	0.47	0.7676
NHANE3	49	b	0	0.11	83.29	0.02	0.3283
NITTA	1	b	5	-0.09	14.17	0.49	0.7226
OHARA	5	b	0	-0.11	32.01	1.25	0.5504
PALMIE	3	b	0	-0.00	30.71	0.27	0.9963
PETERS	6	b	6	-0.15	44.74	2.64	0.3131
PIC	1	b	0	0.09	26.03	0.00	0.6397
RIBEIR	1	b	0	0.18	7.76	0.06	0.6116

Appendix Table A3 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
RONMAR	1	b	5	0.47	30.41	4.34	0.0095
SARRAZ	1	b	0	0.20	2.03	0.02	0.7783
SCHMIT	1	b	4	0.73	13.33	5.38	0.0079
SELCUK	3	b	0	0.30	50.37	2.08	0.0362
SHOHAT	2	b	0	0.44	123.73	14.91	0.0000
SOTOQU	1	b	0	0.42	46.33	5.07	0.0040
STANHO	1	b	0	-1.02	3.66	4.54	0.0507
STERN1	1	b	0	0.11	11.71	0.00	0.7107
STODDA	5	b	0	0.32	133.49	6.70	0.0003
STRACH	3	b	0	0.32	41.13	2.13	0.0403
TARIQ	10	b	0	0.08	29.85	0.00	0.6591
TOMINA	2	b	0	-1.06	1.84	2.43	0.1515
WANG	1	b	0	0.02	4324.61	24.98	0.2904
WILLE1	7	b	0	0.68	6.06	2.07	0.0955
WOLFO1	1	b	7	0.16	7.31	0.03	0.6712
WOLFO2	1	b	7	0.01	5.03	0.03	0.9822
WOLFO3	1	b	10	0.75	10.43	4.47	0.0159
YANG	1	b	0	-0.31	39.48	6.45	0.0498
ZHENG	7	b	0	0.39	57.94	4.99	0.0033

RR data

	N	73
	NS	71
	Wt	7368.63
Het	Chi	240.30
Het	df	72
Het	P	***
Fixed	RR	1.10
	RRl	1.07
	RRu	1.12
	P	+++
Random	RR	1.20
	RRl	1.13
	RRu	1.28
	P	+++
Asymm	P	**

Appendix Table A3 - 6

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Unadjusted

RR data

	N	73							
	NS	71							
	Wt	7368.63							
Het	Chi	240.30							
Het	df	72							
Het	P	***							
Fixed	RR	1.10							
	RRl	1.07							
	RRu	1.12							
	P	+++							
Random	RR	1.20							
	RRl	1.13							
	RRu	1.28							
	P	+++							
Asymm	P	**							
			<u>Sex</u>						
			both	male	female		Total		
	N	69		2	2		73		
	NS	69		2	2		73		
	Wt	7344.21	16.32		8.10		7368.63		
Het	Chi	224.68	11.92		0.88		240.30		
Het	df	68	1		1		72		
Het	P	***	***		N.S.		***		
Fixed	RR	1.10	0.94		0.64		1.10		
	RRl	1.07	0.58		0.32		1.07		
	RRu	1.12	1.52		1.27		1.12		
	P	+++	N.S.		N.S.		+++		
Random	RR	1.21	1.20		0.64		1.20		
	RRl	1.14	0.21		0.32		1.13		
	RRu	1.29	6.93		1.27		1.28		
	P	+++	N.S.		N.S.		+++		
Between	Chi						2.81		
Between	df						2		
Between	P						N.S.		
								<u>Continent</u>	
			NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	13		3	31	21	2	3	73
	NS	13		3	30	20	2	3	71
	Wt	916.52	56.12		835.88	5491.21	41.18	27.73	7368.63
Het	Chi	32.82	0.46		51.76	105.91	5.77	1.53	240.30
Het	df	12	2		30	20	1	2	72
Het	P	**	N.S.		**	***	*	N.S.	***
Fixed	RR	1.15	1.46		1.26	1.06	1.19	2.07	1.10
	RRl	1.08	1.13		1.18	1.03	0.88	1.43	1.07
	RRu	1.23	1.90		1.35	1.09	1.62	3.01	1.12
	P	+++	++		+++	+++	N.S.	+++	+++
Random	RR	1.17	1.46		1.24	1.13	0.76	2.07	1.20
	RRl	1.03	1.13		1.13	1.00	0.21	1.43	1.13
	RRu	1.32	1.90		1.38	1.28	2.73	3.01	1.28
	P	+	++		+++	+	N.S.	+++	+++
Between	Chi								42.06
Between	df								5
Between	P								***

Appendix Table A3 - 6

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)

		Current Asthma Unadjusted					
		Start year of study			1990+	unknown	Total
		<1970	1970-79	1980-89			
RR data							
	N		5	17	44	7	73
	NS		5	17	42	7	71
	Wt	141.96	834.31	6253.34	139.02		7368.63
	Het Chi	5.84	42.50	144.17	12.00		240.30
	Het df	4	16	43	6		72
	Het P	N.S.	***	***	(*)		***
	Fixed RR	0.96	1.24	1.07	1.58		1.10
	RRl	0.81	1.15	1.05	1.34		1.07
	RRu	1.13	1.32	1.10	1.87		1.12
	P	N.S.	+++	+++	+++		+++
	Random RR	0.87	1.29	1.16	1.67		1.20
	RRl	0.60	1.13	1.07	1.25		1.13
	RRu	1.25	1.47	1.25	2.23		1.28
	P	N.S.	+++	+++	+++		+++
	Between Chi						35.78
	Between df						3
	Between P						***
		Study type					
		CC	Pr	CS	Total		
	N	23	8	42	73		
	NS	22	8	41	71		
	Wt	760.62	313.88	6294.14	7368.63		
	Het Chi	29.43	15.84	158.58	240.30		
	Het df	22	7	41	72		
	Het P	N.S.	*	***	***		
	Fixed RR	1.35	1.12	1.07	1.10		
	RRl	1.25	1.00	1.04	1.07		
	RRu	1.45	1.25	1.10	1.12		
	P	+++	+	+++	+++		
	Random RR	1.34	1.20	1.15	1.20		
	RRl	1.22	0.99	1.05	1.13		
	RRu	1.48	1.44	1.25	1.28		
	P	+++	(+)	++	+++		
	Between Chi				36.46		
	Between df				2		
	Between P				***		

Appendix Table A3 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma

Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
3	OLIVET	WEITZ1	WEITZ2													
4	CHINN	EHRLI1	KNIGHT	SOMERV												
5	AZIZI	BALL	DEKOK	FIELDE	HUGHES	KALYO1	KALYO2	LOPEZC	MCCON2	MELIA	STERN2					
14	WILLE2															

Appendix Table A3 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP													
GILLIL	GILLIL	1	MCCON1/GILLIL													
HJERN1	HJERN1	1	HJERN1/HJERN2													
HJERN2	HJERN2	1	HJERN1/HJERN2													
STERN1	STERN1	1	STERN1/STERN2													
FORSB3	FORSB3	1	FORSB3/WILLE2													
WOLFO1	WOLFO1	1	WOLFO1/WOLFO2/WOLFO3													
WOLFO2	WOLFO2	1	WOLFO1/WOLFO2/WOLFO3													
WOLFO3	WOLFO3	1	WOLFO1/WOLFO2/WOLFO3													

Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
ADDOYO	2	b	8	17	all	Africa	*	2001	CC	4	AnyHh	NoHhMemb	unspec	non	-	*	n
ARSHAD	7	b	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non	-	*	n
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	-	*	n
BALL	1	b	6	13	all	NAmer	1980	2000	Pr	0	AnyPar	NoParent	unspec	non	-	*	n
DEKOK	1	b	6	12	all	Eu:wst	1993	1996	CS	6	Mother	NotMothr	unspec	non	-	*	n
DIJKST	3	b	6	12	all	Eu:wst	1986	1990	CS	12	AnyHh	NoHhMemb	current	non	-	1.77	n
FIELDDE	2	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	-	*	n
KALYO1	2	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KALYO2	1	b	6	13	all	Eu:est	1997	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
KARUNA	2	b	1	10	all	As:cen	1996	2001	CC	10	TotETS	None	current	non	-	*	n
LOPEZC	3	b	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	-	1.06	n
MCCON2	5	b	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-	*	n
MELIA	1	b	5	11	all	Eu:UK	1977	1981	CS	0	AnyHh	NoHhMemb	current	non	-	*	y
MOHAME	5	b	9	11	all	Africa	1990	1995	CC	4	AnyHh	NoHhMemb	unspec	non	-	*	n
PALMIE	10	b	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non	-	*	y
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	-	0.98	n
STRACH	15	b	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	<1m	non	-	*	y

Appendix Table A4 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Biochemical, total, household (overall), or parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 9) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 10) UNEXSO : none, none in household, neither parent, not specific parent
- 11) UNEXTI : not a longer time (CUNNI1(3): not in utero or since birth), never (in smoker's lifetime), not at specified time
- 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 13) RACE : all in study or nearest available, otherwise by race
- 14) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A3 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A4 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF NRR CompA3 SEX AGE1 AGEH RACE	LOC BEGYR PUBYR STYP ADJ EXP-who UNEXsource	EXPOS-time UNEXTI BIOMEA
ADDOYO 1	b 8 17 all Africa *	2001 CC 0 AnyHh NoHhMemb unspec non -
AGAB1 14	b 6 7 all Eu:Ita 1994 1999	CC 11 AnyPar NoParent current never -
AGAB2 14	b 13 14 all Eu:Ita 1994 1999	CC 12 AnyPar NoParent current never -
ARSHAD 1	b 1 1 all Eu:UK 1990 1992	Pr 7 AnyPar NoParent utero/life non -
BERGMA 1	b 3 6 all Eu:Ger 1990 2000	Pr 8 AnyHh NoHhMemb 18m non -
CALL 1	b 3 15 all NAm 1990 1992	CC 0 AnyHh NoHhMemb unspec non -
CHEN2 50	b 6 17 all NAm 1993 1996	CS 1 AnyHh NoHhMemb current non -
CHHABR 1	b 4 17 all As:cen * 1998	CS 0 AnyHh NoHhMemb unspec non -
CLARK 2	b 5 7 all Eu:UK * 1994	CC 0 Biochem Low - - saliva
CONKA 4	b 6 13 all Eu:Sca * 2000	CS 4 AnyHh NoHhMemb <3y non -
CUNNI 1	b 8 11 all NAm 1988 1996	CS 0 AnyHh NoHhMemb current non -
DAIGLE 3	b 0 * all NAm 1986 1991	CC 7 Mother NotMothr unspec non -
DEKKER 6	b 5 8 all NAm 1988 1991	CC 9 AnyHh NoHhMemb unspec non -
DIJKST 1	b 6 12 all Eu:wst 1986 1990	CS 0 AnyHh NoHhMemb current non -
DOTTER 1	m 8 17 all Eu:est 1994 2001	CS 6 AnyHh NoHhMemb unspec non -
DOTTER 2	f 8 17 all Eu:est 1994 2001	CS 6 AnyHh NoHhMemb unspec non -
FAGBUL 2	b 0 18 all Africa * 1994	CC 1 AnyPar NoParent unspec non -
FORSB1 2	b 6 12 all Eu:Sca 1993 1997	CS 14 AnyHh NoHhMemb <2y non -
FORSB2 2	b 6 12 all Eu:Sca 1993 1997	CS 14 AnyHh NoHhMemb <2y non -
FORSB3 2	b 6 12 all Eu:Sca 1993 1997	CS 15 AnyHh NoHhMemb <2y non -
FUJI 1	b 8 11 all As:FE 1994 2002	CS 0 AnyHh NoHhMemb unspec non -
GILLIL 28	b 7 19 all NAm 1993 2001	CS 9 AnyHh NoHhMemb in life non -
GOLD 7	b 6 14 all NAm 1974 1993	Pr 11 Mother NotMothr ever never -
GUPTA 2	b 9 20 all As:cen 1997 2001	CS 2 AnyHh NoHhMemb unspec non -
HABY 4	b 3 5 all Auslia 1995 2001	CS 9 AnyPar NoParent <6m non -
HJERN1 13	b 3 15 all Eu:Sca 1996 2001	CS 9 Mother NotMothr ever never -
HJERN2 13	b 3 15 all Eu:Sca 1996 2001	CS 9 Father NotFathr ever never -
HOST 1	b 6 17 all Eu:Sca 1990 1993	CS 0 AnyPar NoParent current non -
HU1 6	b 10 11 all NAm 1994 1997	CS 0 Mother NotMothr current non -
HU2 24	b 20 22 all NAm 1986 1997	Pr 3 AnyPar LowParnt 13-15y non -
INFANT 10	b 3 4 all NAm 1988 1993	CC 19 Mother NotMothr in life non -
JAAKKO 2	b 4 4 all Eu:Sca 1992 2001	Pr 7 AnyHh NoHhMemb <1m non -
JONES 2	b 4 16 all Eu:UK 1996 1999	CC 0 Mother NotMothr unspec non -
KARUNA 1	b 1 10 all As:cen 1996 2001	CC 0 TotETS None current non -
LAM1 16	b 12 15 all As:FE 1994 1998	CS 4 AnyHh NoHhMemb unspec non -
LAM2 2	b 8 13 all As:FE 1995 1999	CS 4 AnyHh NoHhMemb unspec non -
LAU 1	b 3 10 all As:FE 1989 1995	CS 0 AnyPar NoParent current non -
LEE1 1	b 6 12 all As:FE 1995 2001	CS 8 AnyHh NoHhMemb current non -
LEE2 1	b 12 15 all As:FE 1995 2001	CS 8 AnyHh NoHhMemb current non -
LEEN 1	b 9 9 all Eu:wst 1991 1994	CC 0 AnyPar NoParent unspec non -
LILLJE 1	b 7 10 all Eu:Sca 1991 1997	CS 0 AnyPar NoParent unspec non -
LINDFO 1	b 1 4 all Eu:Sca 1990 1995	CC 0 AnyPar NoParent <2y non -
MELSOM 5	m 11 17 all As:cen 1997 2001	CC 0 AnyHh NoHhMemb unspec non -
MELSOM 6	f 11 17 all As:cen 1997 2001	CC 0 AnyHh NoHhMemb unspec non -
MOHAME 1	b 9 11 all Africa 1990 1995	CC 0 AnyHh NoHhMemb unspec non -
MOUSSA 1	b 6 18 all As:ME 1992 1996	CC 0 Mother NotMothr unspec non -
MUMCUO 6	b 3 15 all As:ME 1986 1994	CC 0 AnyHh NoHhMemb unspec non -
NHANE3 61	b 4 16 w+b NAm 1988 2001	CS 6 Biochem Low - - blood
NITTA 1	b 7 12 all As:FE 1995 1996	CS 5 AnyHh NoHhMemb current non -
OHARA 6	b 3 12 all As:FE 2001 2002	CS 4 AnyPar NoParent current non -
PALMIE 3	b 1 12 all Eu:Ita * 1990	CC 0 AnyPar NoParent unspec non -
PETERS 6	b 9 14 all As:FE 1989 1996	Pr 6 AnyHh NoHhMemb current non -
PIC 1	b 5 15 all Eu:wst 1999 2002	CS 0 AnyPar NoParent unspec non -
RIBETI 1	b 4 9 all SCAm 1996 2002	CS 0 AnyPar NoParent current non -
RONMAR 1	b 7 8 all Eu:Sca 1996 2002	Pr 5 Mother NotMothr unspec non -
SARRAZ 1	b 6 10 all SCAm * 1997	CC 0 AnyHh NoHhMemb unspec non -
SCHMIT 1	b 6 15 all Eu:wst 1989 1993	CS 4 Mother NotMothr unspec non -
SELCUK 4	b 7 12 all Eu:est 1994 1997	CS 6 AnyHh NoHhMemb unspec non -
SHOHAT 4	b 13 14 all As:ME 1997 2002	CS 12 Mother NotMothr unspec non -
SOTOQU 1	b 5 17 all SCAm 1987 1994	CS 0 Mother NotMothr current non -
STANHO 1	b 12 18 all Auslia 1975 1979	CS 0 Mother NotMothr current non -
STERN1 1	b 7 12 all NAm 1983 1989	CS 0 Mother NotMothr unspec non -
STODDA 10	b 0 17 all NAm 1986 1995	CS 9 Mother NotMothr current non -
STRACH 9	b 13 18 all Eu:UK 1993 1995	CC 4 Mother NotMothr current non -
TARIQ 12	b 4 4 all Eu:UK 1989 2000	Pr 1 Mother NotMothr in life non -
TOMINA 2	b 3 3 all As:FE 1978 1985	CS 0 Mother NoHhMemb unspec non -
WANG 2	b 11 16 all As:FE 1995 1999	CS 8 AnyHh NoHhMemb unspec non -
WILLE1 7	b 3 15 all Eu:Sca 1988 1991	CC 0 AnyPar NoParent current non -
WOLFO1 1	b 8 8 all Eu:Ger 1977 1995	CS 7 AnyHh NoHhMemb current non -
WOLFO2 1	b 10 10 all Eu:Ger 1979 1995	CS 7 AnyHh NoHhMemb current non -

Appendix Table A4 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF	NRR	CompA3	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
WOLFO3	1		b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
YANG	2		b	6	12	all	As:FE	1994	1997	CS	10	AnyHh	NoHhMemb	unspec	non	-
ZHENG	19		b	6	10	all	As:FE	1999	2002	CC	6	AnyHh	NoHhMemb	in life	non	-

Appendix Table A4 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Cont	Case	Cont			
ADDOYO	1	b	0	13	5	23	33	3.73	(1.17-	11.91)
AGABI1	14	b	11	558	-	148	-	1.34	(1.11-	1.62)
AGABI2	14	b	12	700	-	203	-	1.17	(0.99-	1.39)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80-	14.60)
BERGMA	1	b	8	-	-	-	-	1.32	(0.88-	1.97)
CALL	1	b	0	19	19	18	17	0.94	(0.38-	2.37)
CHEN2	50	b	1	24	-	50	-	1.07	(0.61-	1.87)
CHHABR	1	b	0	118	404	313	1733	1.62	(1.27-	2.05)
CLARK	2	b	0	13	23	6	20	1.88	(0.60-	5.88)
CSONKA	4	b	4	-	-	-	-	2.10	(1.20-	3.70)
CUNNI1	1	b	0	396	5339	412	5387	0.97	(0.84-	1.12)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10-	3.47)
DEKKER	6	b	9	386	-	249	-	1.49	(1.24-	1.78)
DIJKST	1	b	0	-	-	-	-	1.95	(0.91-	4.19)
DOTTER	1	m	6	-	-	-	-	0.50	(0.30-	1.00)
DOTTER	2	f	6	-	-	-	-	0.50	(0.20-	1.10)
Subtotal	DOTTER							0.50	(0.31-	0.82)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84-	2.36)
FORSB1	2	b	14	-	-	-	-	1.10	(0.70-	1.70)
FORSB2	2	b	14	-	-	-	-	0.70	(0.30-	1.60)
FORSB3	2	b	15	-	-	-	-	1.56	(1.18-	2.05)
FUJI	1	b	0	36	602	29	370	0.76	(0.46-	1.27)
GILLIL	28	b	9	182	-	255	-	0.99	(0.76-	1.27)
GOLD	7	b	11	-	-	-	-	0.99	(0.83-	1.18)
GUPTA	2	b	2	84	-	121	-	1.78	(1.34-	2.36)
HABY	4	b	9	86	-	104	-	1.62	(0.95-	2.75)
HJERN1	13	b	9	61	-	58	-	0.72	(0.52-	1.01)
HJERN2	13	b	9	44	-	34	-	0.94	(0.62-	1.43)
HOST	1	b	0	20	457	14	285	0.89	(0.44-	1.79)
HU1	6	b	0	28	148	44	238	1.02	(0.61-	1.71)
HU2	24	b	3	34	-	84	-	1.47	(0.97-	2.23)
INFANT	10	b	19	183	-	273	-	1.40	(0.95-	2.05)
JAAKO	2	b	7	71	-	93	-	1.21	(0.85-	1.72)
JONES	2	b	0	27	24	73	76	1.17	(0.62-	2.21)
KARUNA	1	b	0	130	121	170	179	1.13	(0.82-	1.57)
LAM1	16	b	4	30	-	35	-	0.84	(0.51-	1.38)
LAM2	2	b	4	-	-	-	-	0.76	(0.47-	1.25)
LAU	1	b	0	19	247	9	158	1.35	(0.60-	3.06)
LEE1	1	b	8	-	-	-	-	1.37	(1.24-	1.51)
LEE2	1	b	8	-	-	-	-	0.99	(0.87-	1.13)
LEEN	1	b	0	46	45	69	51	0.76	(0.44-	1.31)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81-	1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15-	2.37)
MELSOM	5	m	0	-	-	-	-	3.00	(1.30-	6.70)
MELSOM	6	f	0	-	-	-	-	1.00	(0.30-	3.10)
Subtotal	MELSOM							2.09	(1.07-	4.08)
MOHAME	1	b	0	-	-	-	-	1.60	(0.80-	3.20)
MOUSSA	1	b	0	1	0	202	203	3.01	(0.12-	74.44)
MUMCUO	6	b	0	181	62	119	38	0.93	(0.59-	1.48)
NHANE3	61	b	6	321	-	126	-	1.25	(0.74-	2.11)
NITTA	1	b	5	-	-	-	-	0.91	(0.54-	1.53)
OHARA	6	b	4	82	-	59	-	0.91	(0.65-	1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70-	1.42)
PETERS	6	b	6	-	-	-	-	0.86	(0.64-	1.15)
PIC	1	b	0	51	829	60	1069	1.10	(0.75-	1.61)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59-	2.41)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12-	2.28)
SARRAZ	1	b	0	6	8	8	13	1.22	(0.31-	4.83)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21-	3.54)
SELCHUK	4	b	6	240	-	68	-	1.28	(0.94-	1.75)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95-	1.55)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14-	2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13-	1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63-	1.98)
STODDA	10	b	9	224	-	443	-	1.36	(1.14-	1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85-	1.79)
TARIQ	12	b	1	48	-	133	-	0.89	(0.57-	1.40)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08-	1.47)

Appendix Table A4 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
WANG	2	b	8	12212	-	8425	-	1.08	(1.05- 1.12)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
WOLFO1	1	b	7	-	-	-	-	1.17	(0.57- 2.43)
WOLFO2	1	b	7	-	-	-	-	1.01	(0.42- 2.41)
WOLFO3	1	b	10	-	-	-	-	2.11	(1.15- 3.87)
YANG	2	b	10	90	-	76	-	0.87	(0.61- 1.22)
ZHENG	19	b	6	285	-	118	-	1.40	(1.10- 1.90)
Partial Totals				18106	10355	14607	15063		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO	1	b	0	1.32	2.85	4.08	0.0262
AGABI1	14	b	11	0.29	107.50	3.18	0.0024
AGABI2	14	b	12	0.16	133.43	0.17	0.0697
ARSHAD	1	b	7	1.20	1.82	2.13	0.1044
BERGMA	1	b	8	0.28	23.66	0.58	0.1769
CALL	1	b	0	-0.06	4.55	0.14	0.9029
CHEN2	50	b	1	0.07	12.24	0.03	0.8128
CHHABR	1	b	0	0.48	67.93	8.80	0.0001
CLARK	2	b	0	0.63	2.97	0.78	0.2753
CSONKA	4	b	4	0.74	12.12	4.68	0.0098
CUNNI1	1	b	0	-0.03	187.78	4.31	0.6744
DAIGLE	3	b	7	0.67	11.64	3.55	0.0217
DEKKER	6	b	9	0.40	117.58	9.09	0.0000
DIJKST	1	b	0	0.67	6.59	1.97	0.0865
DOTTER	1	m	6	-0.69	10.60	7.02	0.0240
DOTTER	2	f	6	-0.69	5.29	3.50	0.1110
Subtotal DOTTER				-1.63	15.89	10.53	
FAGBUL	2	b	1	0.34	14.40	0.71	0.1923
FORSB1	2	b	14	0.10	19.52	0.01	0.6737
FORSB2	2	b	14	-0.36	5.48	1.25	0.4036
FORSB3	2	b	15	0.44	50.37	5.28	0.0016
FUJI	1	b	0	-0.27	15.01	2.30	0.2946
GILLIL	28	b	9	-0.01	58.28	1.00	0.9388
GOLD	7	b	11	-0.01	124.12	2.12	0.9108
GUPTA	2	b	2	0.58	47.97	9.97	0.0001
HABY	4	b	9	0.48	13.60	1.78	0.0752
HJERN1	13	b	9	-0.33	34.86	7.04	0.0524
HJERN2	13	b	9	-0.06	22.00	0.73	0.7716
HOST	1	b	0	-0.12	7.87	0.44	0.7459
HU1	6	b	0	0.02	14.41	0.14	0.9302
HU2	24	b	3	0.39	22.17	1.55	0.0697
INFANT	10	b	19	0.34	25.97	1.21	0.0864
JAAKKO	2	b	7	0.19	30.93	0.15	0.2891
JONES	2	b	0	0.16	9.47	0.01	0.6266
KARUNA	1	b	0	0.12	36.46	0.00	0.4564
LAM1	16	b	4	-0.17	15.51	1.35	0.4923
LAM2	2	b	4	-0.27	16.06	2.51	0.2714
LAU	1	b	0	0.30	5.74	0.19	0.4716
LEE1	1	b	8	0.31	395.94	14.90	0.0000
LEE2	1	b	8	-0.01	224.74	3.85	0.8802
LEEN	1	b	0	-0.28	12.81	2.06	0.3157
LILLJE	1	b	0	0.09	42.18	0.05	0.5801
LINDFO	1	b	0	0.50	29.55	4.26	0.0065
MELSOM	5	m	0	1.10	5.71	5.46	0.0086
MELSOM	6	f	0	0.00	2.82	0.04	1.0000
Subtotal MELSOM				0.86	8.53	5.51	
MOHAME	1	b	0	0.47	8.00	0.98	0.1838
MOUSSA	1	b	0	1.10	0.37	0.36	0.5000
MUMCUO	6	b	0	-0.07	17.74	0.65	0.7676
NHANE3	61	b	6	0.22	14.00	0.15	0.4038
NITTA	1	b	5	-0.09	14.17	0.66	0.7226
OHARA	6	b	4	-0.09	34.25	1.58	0.5810
PALMIE	3	b	0	-0.00	30.71	0.45	0.9963
PETERS	6	b	6	-0.15	44.74	3.30	0.3131
PIC	1	b	0	0.09	26.03	0.02	0.6397
RIBEIR	1	b	0	0.18	7.76	0.03	0.6116

Appendix Table A4 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
RONMAR	1	b	5	0.47	30.41	3.71	0.0095
SARRAZ	1	b	0	0.20	2.03	0.01	0.7783
SCHMIT	1	b	4	0.73	13.33	4.91	0.0079
SELCUK	4	b	6	0.25	39.78	0.63	0.1195
SHOHAT	4	b	12	0.19	64.12	0.31	0.1269
SOTOQU	1	b	0	0.42	46.33	4.23	0.0040
STANHO	1	b	0	-1.02	3.66	4.77	0.0507
STERN1	1	b	0	0.11	11.71	0.00	0.7107
STODDA	10	b	9	0.31	124.44	4.34	0.0006
STRACH	9	b	4	0.21	27.70	0.21	0.2759
TARIQ	12	b	1	-0.12	19.03	1.07	0.6112
TOMINA	2	b	0	-1.06	1.84	2.55	0.1515
WANG	2	b	8	0.08	3689.08	7.09	0.0000
WILLE1	7	b	0	0.68	6.06	1.88	0.0955
WOLFO1	1	b	7	0.16	7.31	0.01	0.6712
WOLFO2	1	b	7	0.01	5.03	0.06	0.9822
WOLFO3	1	b	10	0.75	10.43	4.09	0.0159
YANG	2	b	10	-0.14	31.98	2.16	0.4310
ZHENG	19	b	6	0.34	51.44	2.39	0.0158

RR data

	N	73
	NS	71
	Wt	6396.00
Het	Chi	177.00
Het	df	72
Het	P	***
Fixed	RR	1.13
	RRl	1.10
	RRu	1.16
	P	+++
Random	RR	1.18
	RRl	1.11
	RRu	1.26
	P	+++
Asymm	P	N.S.

Appendix Table A4 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

RR data

	N	73			
	NS	71			
	Wt	6396.00			
Het	Chi	177.00			
Het	df	72			
Het	P	***			
Fixed	RR	1.13			
	RRl	1.10			
	RRu	1.16			
	P	+++			
Random	RR	1.18			
	RRl	1.11			
	RRu	1.26			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	69	2	2	73
	NS	69	2	2	73
	Wt	6371.58	16.32	8.10	6396.00
Het	Chi	160.96	11.92	0.88	177.00
Het	df	68	1	1	72
Het	P	***	***	N.S.	***
Fixed	RR	1.13	0.94	0.64	1.13
	RRl	1.10	0.58	0.32	1.10
	RRu	1.16	1.52	1.27	1.16
	P	+++	N.S.	N.S.	+++
Random	RR	1.19	1.20	0.64	1.18
	RRl	1.12	0.21	0.32	1.11
	RRu	1.27	6.93	1.27	1.26
	P	+++	N.S.	N.S.	+++
Between	Chi				3.24
Between	df				2
Between	P				N.S.

Appendix Table A4 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma

Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
3	OLIVET	WEITZ1	WEITZ2													
4	CHINN	EHRLI1	KNIGHT	SOMERV												
5	AZIZI	BALL	DEKOK	FIELDE	HUGHES	KALYO1	KALYO2	LOPEZC	MCCON2	MELIA	STERN2					
14	WILLE2															

Appendix Table A4 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP	
GILLIL	GILLIL	1	MCCON1/GILLIL	
HJERN1	HJERN1	1	HJERN1/HJERN2	
HJERN2	HJERN2	1	HJERN1/HJERN2	
STERN1	STERN1	1	STERN1/STERN2	
FORSB3	FORSB3	1	FORSB3/WILLE2	
WOLFO1	WOLFO1	1	WOLFO1/WOLFO2/WOLFO3	
WOLFO2	WOLFO2	1	WOLFO1/WOLFO2/WOLFO3	
WOLFO3	WOLFO3	1	WOLFO1/WOLFO2/WOLFO3	

Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
ADDOYO	2	b	8	17	all	Africa	*	2001	CC	4	AnyHh	NoHhMemb	unspec	non	-	*	n
ARSHAD	7	b	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non	-	*	n
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	-	*	n
BALL	1	b	6	13	all	NAmer	1980	2000	Pr	0	AnyPar	NoParent	unspec	non	-	*	n
CUNNI1	3	b	8	11	all	NAmer	1988	1996	CS	9	AnyHh	NoHhMemb	current	othr	-	1.08	?
DEKOK	1	b	6	12	all	Eu:wst	1993	1996	CS	6	Mother	NotMothr	unspec	non	-	*	n
DIJKST	3	b	6	12	all	Eu:wst	1986	1990	CS	12	AnyHh	NoHhMemb	current	non	-	1.77	n
FIELDE	2	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	-	*	n
KALYO1	2	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KALYO2	1	b	6	13	all	Eu:est	1997	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
KARUNA	2	b	1	10	all	As:cen	1996	2001	CC	10	TotETS	None	current	non	-	*	n
LOPEZC	3	b	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	-	1.06	n
MCCON2	5	b	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-	*	n
MELIA	1	b	5	11	all	Eu:UK	1977	1981	CS	0	AnyHh	NoHhMemb	current	non	-	*	y
MOHAME	5	b	9	11	all	Africa	1990	1995	CC	4	AnyHh	NoHhMemb	unspec	non	-	*	n
PALMIE	10	b	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non	-	*	y
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	-	0.98	n
STRACH	15	b	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	<1m	non	-	*	y

Appendix Table A5 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : not specific parent, neither parent, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A1 - 1 are marked 'x' in Section -1) and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A5 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	CompA1	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALBA	2	x	b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAWO	2		m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non
ANDRAE	2		b	0	16	all	Eu:Sca	1985	1988	CS	3	AnyPar	NoParent	in life	non
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non
BENER	1		b	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non
BURCHF	5		m	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BURCHF	8		f	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BUTZ	4	x	b	*	*	all	NAmer	1989	1992	CC	0	AnyPar	NotSpPar	ever	never
CHEN2	34	x	b	6	17	all	NAmer	1993	1996	CS	6	Mother	NotMothr	ever	never
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non
DODGE	12		b	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non
DOLD	7	x	b	9	11	all	Eu:Ger	1989	1992	CS	0	AnyPar	NoParent	unspec	non
ECE	7	x	b	6	15	all	Eu:est	1999	2001	CS	0	Mother	NotMothr	current	non
EHRLI2	4	x	b	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	ever	never
FARBE2	2		b	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non
FORAST	20		b	7	11	all	Eu:Ita	1987	1992	CS	9	AnyPar	NoParent	unspec	non
GOLD	11		b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non
GOREN1	4	x	b	7	11	all	As:ME	1980	1986	CS	0	Mother	NotMothr	current	non
GOREN2	5		b	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never
GORTM1	3		b	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non
GORTM2	1		b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non
HAJNAL	3	x	b	6	14	all	Eu:wst	1992	1999	CS	13	Mother	NotMothr	current	non
HU1	4		b	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non
HU2	23		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non
JENKIN	5		b	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non
KAY	20		b	3	11	all	Eu:UK	*	1995	CS	1	AnyPar	NoParent	unspec	non
KERSHA	5	x	b	0	5	all	Eu:UK	1983	1987	CC	1	Mother	LowMothr	<3y	non
KIVITY	4		b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non
KUEHR	6		b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non
KUHR	4		b	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non
LAM1	18	x	b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	9	x	b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LEEDER	2		b	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non
LEROUX	2		b	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non
LISTER	3		b	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MCCON1	2	x	b	9	18	all	NAmer	1993	2002	Pr	5	Mother	NotMothr	9-16y	non
MCCON2	1	x	b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never
MURRAY	5		m	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
MURRAY	7		f	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
NILSSO	1		b	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non
PONSON	4	x	b	0	7	all	Auslia	1988	2000	Pr	6	Mother	NotMothr	<1m	non
RASANE	3		b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never
RATAGE	2	x	b	5	15	all	As:cen	1996	2000	CC	0	Father	NotFathr	unspec	non
RENNIE	1		b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non
RONMAR	5		b	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non
SOYSET	14		b	7	13	all	Eu:Sca	1989	1995	CS	5	Mother	NotMothr	in life	non
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VERHOE	3		b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never
WITHER	6	x	b	14	16	all	Eu:UK	1995	1998	CS	5	Mother	NotMothr	current	non

Appendix Table A5 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	2	b	0	32	30	70	72	1.10	(0.60- 1.99)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF									
BUTZ	4	b	0	55	51	47	54	1.24	(0.72- 2.14)
CHEN2	34	b	6	51	-	42	-	1.67	(1.01- 2.77)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	7	b	0	176	1822	235	2931	1.20	(0.98- 1.48)
ECE	7	b	0	96	530	334	2080	1.13	(0.88- 1.44)
EHRLI2	4	b	0	-	-	-	-	2.00	(1.10- 3.80)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	4	b	0	37	279	93	1001	1.43	(0.95- 2.14)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
HAJNAL	3	b	13	-	-	-	-	1.16	(0.89- 1.55)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KERSHA	5	b	1	51	-	35	-	2.43	(1.55- 3.79)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	6	b	1	28	-	134	-	0.68	(0.44- 1.06)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	18	b	4	-	-	201	-	1.32	(0.71- 2.45)
LAM2	9	b	4	-	-	-	-	0.87	(0.64- 1.17)
*LEEDER	2	b	1	48	-	11	-	1.33	(0.67- 2.64)
LEROUX	2	b	10	39	-	58	-	1.79	(1.06- 3.02)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN									
*MCCON1	2	b	5	23	-	193	-	0.99	(0.67- 1.47)
MCCON2	1	b	0	7	59	8	149	2.21	(0.77- 6.37)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY									
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*PONSON	4	b	6	130	-	146	-	1.05	(0.87- 1.27)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)
RATAGE	2	b	0	51	29	69	31	0.79	(0.42- 1.47)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
*RONMAR	5	b	9	-	-	-	-	1.36	(0.82- 2.25)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SHAMGS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
SOYSET	14	b	5	35	-	16	-	2.80	(1.30- 6.10)
STANHO	2	b	0	7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER									
VERHOE	3	b	0	78	185	39	72	0.78	(0.49- 1.25)
WITHER	6	b	5	103	-	395	-	1.50	(1.14- 1.98)

Appendix Table A5 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI
				Exposed Case	Cont 23699	Case	Cont 34555		
*prospective study									
REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps		
ALBA	2	b	0	0.09	10.78	0.24	0.7608		
ALDAWO	2	m	0	0.76	8.40	2.27	0.0274		
ALFRA1	2	b	0	0.41	22.65	0.67	0.0498		
ANDRAE	2	b	3	-0.01	54.89	3.45	0.9406		
ANNESI	1	b	0	0.25	89.09	0.02	0.0166		
BENER	1	b	0	0.24	19.32	0.00	0.2839		
BURCHF	5	m	1	0.22	32.51	0.02	0.2200		
BURCHF	8	f	1	0.00	24.97	1.45	1.0000		
Subtotal	BURCHF			-0.27	57.49	1.47			
BUTZ	4	b	0	0.21	12.89	0.01	0.4416		
CHEN2	34	b	6	0.51	15.10	1.12	0.0463		
DELL	2	b	0	0.42	18.30	0.58	0.0733		
DODGE	12	b	1	0.41	7.12	0.19	0.2794		
DOLD	7	b	0	0.19	92.36	0.27	0.0734		
ECE	7	b	0	0.12	63.38	0.92	0.3376		
EHRLI2	4	b	0	0.69	10.00	2.05	0.0284		
FARBE2	2	b	3	0.41	57.72	1.70	0.0017		
FAROOQ	1	b	0	0.25	72.93	0.01	0.0297		
*FERGUS	7	b	0	0.04	37.52	1.52	0.8106		
FORAST	20	b	9	0.25	37.10	0.00	0.1327		
GOLD	11	b	0	0.26	211.41	0.05	0.0002		
GOREN1	4	b	0	0.36	23.61	0.31	0.0838		
GOREN2	5	b	2	0.22	99.84	0.07	0.0316		
GORTM1	3	b	7	0.40	36.85	0.92	0.0155		
GORTM2	1	b	0	0.63	6.99	1.04	0.0978		
HAJNAL	3	b	13	0.15	49.92	0.43	0.2943		
HU1	4	b	7	-0.22	12.73	2.74	0.4259		
HU2	23	b	3	0.44	31.16	1.22	0.0144		
JENKIN	5	b	7	0.23	116.41	0.01	0.0126		
KAY	20	b	1	0.35	38.89	0.47	0.0288		
KERSHA	5	b	1	0.89	19.22	8.05	0.0001		
KIVITY	4	b	0	0.59	13.44	1.62	0.0311		
KUEHR	6	b	1	-0.39	19.88	7.80	0.0855		
KUHR	4	b	0	0.70	5.57	1.16	0.0997		
LAM1	18	b	4	0.28	10.02	0.01	0.3796		
LAM2	9	b	4	-0.14	42.22	6.10	0.3655		
*LEEDER	2	b	1	0.29	8.17	0.02	0.4149		
LEROUX	2	b	10	0.58	14.02	1.63	0.0293		
LIS	1	b	0	0.31	37.30	0.17	0.0604		
LISTER	3	b	8	0.42	64.33	2.04	0.0008		
*MARTIN	5	m	1	0.56	11.93	1.21	0.0533		
*MARTIN	6	f	1	0.68	5.55	1.09	0.1075		
Subtotal	MARTIN			0.76	17.48	2.30			
*MCCON1	2	b	5	-0.01	24.89	1.56	0.9600		
MCCON2	1	b	0	0.79	3.43	1.05	0.1420		
*MCKEEV	4	b	0	0.27	1119.12	1.02	0.0000		
MURRAY	5	m	1	0.34	14.28	0.15	0.1941		
MURRAY	7	f	1	0.27	8.50	0.01	0.4311		
Subtotal	MURRAY			0.13	22.78	0.16			
NILSSO	1	b	0	0.00	31.98	1.85	1.0000		
OCONNE	1	b	0	0.25	33.98	0.01	0.1384		
*PONSON	4	b	6	0.05	107.38	3.96	0.6131		
RASANE	3	b	3	0.46	27.24	1.35	0.0155		
RATAGE	2	b	0	-0.24	9.92	2.25	0.4582		
RENNIE	1	b	6	0.02	13.41	0.65	0.9422		
*RONMAR	5	b	9	0.31	15.08	0.07	0.2324		
ROSASV	1	b	0	0.45	3.25	0.14	0.4168		
SHAMSS	2	b	0	0.33	79.17	0.62	0.0034		
*SHERMA	2	b	2	0.17	19.90	0.11	0.4603		
*SIGURS	1	b	0	0.18	3.26	0.01	0.7422		
SOYSET	14	b	5	1.03	6.43	4.00	0.0090		
STANHO	2	b	0	-0.92	4.90	6.57	0.0423		
*TAYLOR	4	b	0	-0.04	72.55	5.75	0.7281		

Appendix Table A5 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
VENNER	6	m	0	0.09	27.66	0.59	0.6182
VENNER	3	f	0	0.18	28.98	0.12	0.3399
Subtotal VENNER				-0.21	56.63	0.71	
VERHOE	3	b	0	-0.25	17.31	4.18	0.2972
WITHER	6	b	5	0.41	50.42	1.37	0.0040

RR data

	N	64
	NS	60
	Wt	3289.50
Het	Chi	92.02
Het	df	63
Het	P	**
Fixed	RR	1.27
	RRl	1.23
	RRu	1.32
	P	+++
Random	RR	1.26
	RRl	1.20
	RRu	1.33
	P	+++
Asymm	P	N.S.

Appendix Table A5 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

RR data

	N	64							
	NS	60							
	Wt	3289.50							
Het	Chi	92.02							
Het	df	63							
Het	P	**							
Fixed	RR	1.27							
	RR1	1.23							
	RRu	1.32							
	P	+++							
Random	RR	1.26							
	RR1	1.20							
	RRu	1.33							
	P	+++							
Asymm	P	N.S.							
			<u>Sex</u>						
			both	male	female		Total		
	N	55	5	5	4		64		
	NS	55	5	5	4		64		
	Wt	3126.71	94.79	68.00	3289.50				
Het	Chi	85.11	4.01	2.27	92.02				
Het	df	54	4	3	63				
Het	P	**	N.S.	N.S.	**				
Fixed	RR	1.27	1.34	1.18	1.27				
	RR1	1.23	1.09	0.93	1.23				
	RRu	1.32	1.64	1.50	1.32				
	P	+++	++	N.S.	+++				
Random	RR	1.26	1.34	1.18	1.26				
	RR1	1.19	1.09	0.93	1.20				
	RRu	1.33	1.64	1.50	1.33				
	P	+++	++	N.S.	+++				
Between	Chi				0.63				
Between	df				2				
Between	P				N.S.				
						<u>Continent</u>			
			NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	22	1	1	25	11	5		64
	NS	19	1	1	25	10	5		60
	Wt	613.62	3.25	2036.05	306.04	330.54			3289.50
Het	Chi	17.70	0.00	44.82	13.44	12.43			92.02
Het	df	21	0	24	10	4			63
Het	P	N.S.	N.S.	**	N.S.	*			**
Fixed	RR	1.33	1.57	1.28	1.22	1.18			1.27
	RR1	1.23	0.53	1.22	1.09	1.06			1.23
	RRu	1.44	4.66	1.33	1.36	1.32			1.32
	P	+++	N.S.	+++	+++	++			+++
Random	RR	1.33	1.57	1.26	1.23	1.14			1.26
	RR1	1.23	0.53	1.16	1.07	0.92			1.20
	RRu	1.44	4.66	1.36	1.42	1.41			1.33
	P	+++	N.S.	+++	++	N.S.			+++
Between	Chi								3.63
Between	df								4
Between	P								N.S.

Appendix Table A5 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Lifetime Asthma						
		Adjusted						
		Country in Europe					Total	
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
RR data	N	9	1	3	6	4	2	25
	NS	9	1	3	6	4	2	25
	Wt	1549.55	37.10	117.81	138.88	92.04	100.68	2036.05
	Het Chi	15.84	0.00	7.34	10.09	5.41	0.82	44.82
	Het df	8	0	2	5	3	1	24
	Het P	*	N.S.	*	(*)	N.S.	N.S.	**
Fixed	RR	1.31	1.28	1.12	1.19	1.14	1.21	1.28
	RRl	1.25	0.93	0.94	1.01	0.93	0.99	1.22
	RRu	1.38	1.77	1.34	1.40	1.40	1.47	1.33
	P	+++	N.S.	N.S.	+	N.S.	(+)	+++
Random	RR	1.33	1.28	1.09	1.28	1.14	1.21	1.26
	RRl	1.20	0.93	0.67	0.98	0.85	0.99	1.16
	RRu	1.48	1.77	1.78	1.66	1.54	1.47	1.36
	P	+++	N.S.	N.S.	(+)	N.S.	(+)	+++
Between	Chi							5.32
Between	df							5
Between	P							N.S.
		Country in Asia					Total	
		FarEast	Cent/SE	MidlEast				
	N	4	1	6	11			
	NS	3	1	6	10			
	Wt	108.87	9.92	187.26	306.04			
	Het Chi	2.55	0.00	4.02	13.44			
	Het df	3	0	5	10			
	Het P	N.S.	N.S.	N.S.	N.S.			
Fixed	RR	1.04	0.79	1.36	1.22			
	RRl	0.86	0.42	1.18	1.09			
	RRu	1.26	1.47	1.57	1.36			
	P	N.S.	N.S.	+++	+++			
Random	RR	1.04	0.79	1.36	1.23			
	RRl	0.86	0.42	1.18	1.07			
	RRu	1.26	1.47	1.57	1.42			
	P	N.S.	N.S.	+++	++			
Between	Chi				6.87			
Between	df				2			
Between	P				*			
		Start year of study					Total	
		<1970	1970-79	1980-89	1990+	unknown		
	N	5	10	20	21	8	64	
	NS	4	9	19	20	8	60	
	Wt	216.04	480.65	681.61	599.63	1311.57	3289.50	
	Het Chi	1.27	16.78	30.44	27.49	11.04	92.02	
	Het df	4	9	19	20	7	63	
	Het P	N.S.	(*)	*	N.S.	N.S.	**	
Fixed	RR	1.23	1.23	1.32	1.20	1.31	1.27	
	RRl	1.08	1.12	1.22	1.11	1.24	1.23	
	RRu	1.41	1.34	1.42	1.30	1.38	1.32	
	P	++	+++	+++	+++	+++	+++	
Random	RR	1.23	1.22	1.38	1.19	1.30	1.26	
	RRl	1.08	1.05	1.24	1.08	1.14	1.20	
	RRu	1.41	1.41	1.53	1.31	1.49	1.33	
	P	++	++	+++	+++	+++	+++	
Between	Chi						4.99	
Between	df						4	
Between	P						N.S.	

Appendix Table A5 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Lifetime Asthma Adjusted				
		Publication year				
		<1990	1990-94	1995-99	2000+	Total
RR data						
	N	14	15	20	15	64
	NS	13	13	20	14	60
	Wt	366.71	605.74	747.52	1569.53	3289.50
	Het Chi	28.41	18.69	24.85	17.09	92.02
	Het df	13	14	19	14	63
	Het P	**	N.S.	N.S.	N.S.	**
	Fixed RR	1.18	1.26	1.32	1.28	1.27
	RR1	1.07	1.16	1.23	1.22	1.23
	RRu	1.31	1.36	1.42	1.34	1.32
	P	++	+++	+++	+++	+++
	Random RR	1.24	1.26	1.32	1.24	1.26
	RR1	1.05	1.13	1.21	1.14	1.20
	RRu	1.46	1.40	1.44	1.35	1.33
	P	+	+++	+++	+++	+++
	Between Chi					2.98
	Between df					3
	Between P					N.S.
		Study type				
		CC	Pr	CS	Total	
	N	8	14	42	64	
	NS	8	13	39	60	
	Wt	117.35	1675.03	1497.12	3289.50	
	Het Chi	16.85	17.76	57.32	92.02	
	Het df	7	13	41	63	
	Het P	*	N.S.	*	**	
	Fixed RR	1.30	1.27	1.27	1.27	
	RR1	1.09	1.21	1.21	1.23	
	RRu	1.56	1.33	1.34	1.32	
	P	++	+++	+++	+++	
	Random RR	1.29	1.22	1.28	1.26	
	RR1	0.96	1.12	1.20	1.20	
	RRu	1.74	1.33	1.36	1.33	
	P	(+)	+++	+++	+++	
	Between Chi					0.09
	Between df					2
	Between P					N.S.
		Highest age in RR				
		0-9	10-14	15+	unknown	Total
	N	13	23	27	1	64
	NS	13	22	24	1	60
	Wt	494.33	1797.20	985.08	12.89	3289.50
	Het Chi	27.43	33.46	30.96	0.00	92.02
	Het df	12	22	26	0	63
	Het P	**	(*)	N.S.	N.S.	**
	Fixed RR	1.27	1.27	1.29	1.24	1.27
	RR1	1.16	1.21	1.21	0.72	1.23
	RRu	1.39	1.33	1.37	2.14	1.32
	P	+++	+++	+++	N.S.	+++
	Random RR	1.32	1.22	1.29	1.24	1.26
	RR1	1.12	1.12	1.20	0.72	1.20
	RRu	1.54	1.33	1.38	2.14	1.33
	P	+++	+++	+++	N.S.	+++
	Between Chi					0.17
	Between df					3
	Between P					N.S.

Appendix Table A5 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Lifetime Asthma					
		Adjusted					
		Population setting					
		general	school	medical	allergy	other	Total
RR data							
	N	17	26	16	2	3	64
	NS	15	26	15	1	3	60
	Wt	520.75	1115.71	1448.38	56.63	148.03	3289.50
Het	Chi	22.28	44.10	16.29	0.10	3.90	92.02
Het	df	16	25	15	1	2	63
Het	P	N.S.	*	N.S.	N.S.	N.S.	**
Fixed	RR	1.25	1.24	1.32	1.15	1.13	1.27
	RRl	1.15	1.17	1.25	0.88	0.96	1.23
	RRu	1.37	1.32	1.39	1.49	1.33	1.32
	P	+++	+++	+++	N.S.	N.S.	+++
Random	RR	1.28	1.23	1.33	1.15	1.18	1.26
	RRl	1.15	1.13	1.23	0.88	0.90	1.20
	RRu	1.42	1.35	1.44	1.49	1.56	1.33
	P	+++	+++	+++	N.S.	N.S.	+++
Between	Chi						5.36
Between	df						4
Between	P						N.S.
		<u>Respondent for smoking</u>					
		child	parent	med rec	mix/oth	Total	
	N	4	40	3	17	64	
	NS	4	39	3	14	60	
	Wt	94.44	1361.74	1226.03	607.29	3289.50	
Het	Chi	9.08	62.46	0.03	15.34	92.02	
Het	df	3	39	2	16	63	
Het	P	*	**	N.S.	N.S.	**	
Fixed	RR	1.04	1.25	1.31	1.28	1.27	
	RRl	0.85	1.19	1.24	1.18	1.23	
	RRu	1.27	1.32	1.38	1.39	1.32	
	P	N.S.	+++	+++	+++	+++	
Random	RR	0.99	1.28	1.31	1.28	1.26	
	RRl	0.66	1.18	1.24	1.18	1.20	
	RRu	1.47	1.37	1.38	1.39	1.33	
	P	N.S.	+++	+++	+++	+++	
Between	Chi						5.10
Between	df						3
Between	P						N.S.
		<u>Child smokers</u>					
		exc/none	included	ignored	Total		
	N	15	8	41	64		
	NS	11	8	41	60		
	Wt	284.12	392.84	2612.54	3289.50		
Het	Chi	19.37	9.01	61.33	92.02		
Het	df	14	7	40	63		
Het	P	N.S.	N.S.	*	**		
Fixed	RR	1.18	1.32	1.28	1.27		
	RRl	1.05	1.19	1.23	1.23		
	RRu	1.32	1.46	1.33	1.32		
	P	++	+++	+++	+++		
Random	RR	1.20	1.32	1.27	1.26		
	RRl	1.04	1.16	1.19	1.20		
	RRu	1.39	1.51	1.35	1.33		
	P	+	+++	+++	+++		
Between	Chi					2.31	
Between	df					2	
Between	P					N.S.	

Appendix Table A5 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

Lifetime Asthma
Adjusted

Physician diagnosis (lifetime)
yes no/mixed Total

RR data

N	34	30	64
NS	32	28	60
Wt	1933.19	1356.31	3289.50
Het Chi	52.15	39.78	92.02
Het df	33	29	63
Het P	*	(*)	**
Fixed RR	1.28	1.26	1.27
RRl	1.22	1.20	1.23
RRu	1.34	1.33	1.32
P	+++	+++	+++
Random RR	1.26	1.27	1.26
RRl	1.16	1.19	1.20
RRu	1.36	1.36	1.33
P	+++	+++	+++
Between Chi			0.09
Between df			1
Between P			N.S.

Respondent for diagnosis (lifetime)
medrec parent child mixed Total

N	11	38	8	7	64
NS	10	36	8	6	60
Wt	1376.24	1373.28	195.19	344.79	3289.50
Het Chi	13.38	50.27	14.79	7.26	92.02
Het df	10	37	7	6	63
Het P	N.S.	(*)	*	N.S.	**
Fixed RR	1.30	1.28	1.08	1.24	1.27
RRl	1.23	1.22	0.94	1.12	1.23
RRu	1.37	1.35	1.24	1.38	1.32
P	+++	+++	N.S.	+++	+++
Random RR	1.27	1.31	1.05	1.23	1.26
RRl	1.14	1.22	0.85	1.07	1.20
RRu	1.42	1.40	1.30	1.41	1.33
P	+++	+++	N.S.	++	+++
Between Chi					6.32
Between df					3
Between P					(*)

Questionnaire for symptoms
ISAAC ATS other Total

N	9	9	46	64
NS	9	8	43	60
Wt	486.03	465.36	2338.11	3289.50
Het Chi	8.27	3.89	76.91	92.02
Het df	8	8	45	63
Het P	N.S.	N.S.	**	**
Fixed RR	1.18	1.28	1.29	1.27
RRl	1.08	1.17	1.24	1.23
RRu	1.29	1.40	1.34	1.32
P	+++	+++	+++	+++
Random RR	1.18	1.28	1.29	1.26
RRl	1.08	1.17	1.20	1.20
RRu	1.30	1.40	1.38	1.33
P	+++	+++	+++	+++
Between Chi				2.94
Between df				2
Between P				N.S.

Appendix Table A5 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Lifetime Asthma				
		Adjusted				
		Analysis type				
		prevlnce	onset	Total		
RR data						
	N	53	11	64		
	NS	50	10	60		
	Wt	1864.15	1425.35	3289.50		
	Het Chi	75.58	16.16	92.02		
	Het df	52	10	63		
	Het P	*	(*)	**		
Fixed	RR	1.28	1.26	1.27		
	RRl	1.23	1.20	1.23		
	RRu	1.34	1.33	1.32		
	P	+++	+++	+++		
Random	RR	1.29	1.17	1.26		
	RRl	1.21	1.04	1.20		
	RRu	1.37	1.32	1.33		
	P	+++	+	+++		
Between	Chi			0.28		
Between	df			1		
Between	P			N.S.		
	<u>Number of cases (lifetime asthma)</u>					
		1-50	51-100	101-200	201+	unknown
	N	6	11	16	30	1
	NS	6	10	16	27	1
	Wt	31.26	136.29	313.50	2771.15	37.30
	Het Chi	9.83	11.73	29.79	33.28	0.00
	Het df	5	10	15	29	0
	Het P	(*)	N.S.	*	N.S.	N.S.
Fixed	RR	1.38	1.58	1.22	1.26	1.36
	RRl	0.97	1.33	1.09	1.22	0.99
	RRu	1.95	1.87	1.36	1.31	1.87
	P	(+)	+++	+++	+++	(+)
Random	RR	1.36	1.58	1.22	1.25	1.36
	RRl	0.82	1.32	1.04	1.19	0.99
	RRu	2.23	1.90	1.43	1.30	1.87
	P	N.S.	+++	+	+++	(+)
Between	Chi					7.39
Between	df					4
Between	P					N.S.
	<u>Study adjusts for or is matched on sex</u>					
		Yes	No	Total		
	N	28	36	64		
	NS	27	33	60		
	Wt	1034.62	2254.88	3289.50		
	Het Chi	35.34	56.50	92.02		
	Het df	27	35	63		
	Het P	N.S.	*	**		
Fixed	RR	1.26	1.28	1.27		
	RRl	1.18	1.23	1.23		
	RRu	1.34	1.33	1.32		
	P	+++	+++	+++		
Random	RR	1.26	1.26	1.26		
	RRl	1.17	1.17	1.20		
	RRu	1.37	1.35	1.33		
	P	+++	+++	+++		
Between	Chi			0.18		
Between	df			1		
Between	P			N.S.		

Appendix Table A5 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

Lifetime Asthma
Adjusted
Study adjusts for or is matched on age

	Yes	No	Total
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RR data

N	15	49	64
NS	14	46	60
Wt	593.23	2696.27	3289.50
Het Chi	18.15	73.62	92.02
Het df	14	48	63
Het P	N.S.	*	**
Fixed RR	1.25	1.28	1.27
RRl	1.15	1.23	1.23
RRu	1.35	1.33	1.32
P	+++	+++	+++
Random RR	1.24	1.27	1.26
RRl	1.12	1.20	1.20
RRu	1.37	1.35	1.33
P	+++	+++	+++
Between Chi			0.25
Between df			1
Between P			N.S.

Study adjusts for or is matched on race

N	9	55	64
NS	9	51	60
Wt	382.48	2907.02	3289.50
Het Chi	11.47	79.09	92.02
Het df	8	54	63
Het P	N.S.	*	**
Fixed RR	1.35	1.26	1.27
RRl	1.22	1.22	1.23
RRu	1.49	1.31	1.32
P	+++	+++	+++
Random RR	1.38	1.25	1.26
RRl	1.19	1.18	1.20
RRu	1.60	1.32	1.33
P	+++	+++	+++
Between Chi			1.46
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	14	50	64
NS	14	46	60
Wt	669.44	2620.06	3289.50
Het Chi	17.35	73.30	92.02
Het df	13	49	63
Het P	N.S.	*	**
Fixed RR	1.22	1.29	1.27
RRl	1.13	1.24	1.23
RRu	1.32	1.34	1.32
P	+++	+++	+++
Random RR	1.21	1.28	1.26
RRl	1.10	1.21	1.20
RRu	1.33	1.36	1.33
P	+++	+++	+++
Between Chi			1.37
Between df			1
Between P			N.S.

Appendix Table A5 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

Lifetime Asthma
Adjusted
Study adjusts for or is matched on SES

	Yes	No	Total
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RR data

N	19	45	64
NS	18	42	60
Wt	815.94	2473.56	3289.50
Het Chi	34.23	57.20	92.02
Het df	18	44	63
Het P	*	(*)	**
Fixed RR	1.24	1.28	1.27
RRl	1.16	1.23	1.23
RRu	1.33	1.33	1.32
P	+++	+++	+++
Random RR	1.28	1.26	1.26
RRl	1.15	1.19	1.20
RRu	1.42	1.34	1.33
P	+++	+++	+++
Between Chi			0.58
Between df			1
Between P			N.S.

Study adjusts for family medical history

N	20	44	64
NS	19	41	60
Wt	985.72	2303.78	3289.50
Het Chi	25.70	65.10	92.02
Het df	19	43	63
Het P	N.S.	*	**
Fixed RR	1.24	1.29	1.27
RRl	1.16	1.24	1.23
RRu	1.31	1.34	1.32
P	+++	+++	+++
Random RR	1.25	1.27	1.26
RRl	1.15	1.19	1.20
RRu	1.35	1.36	1.33
P	+++	+++	+++
Between Chi			1.22
Between df			1
Between P			N.S.

Study adjusts for family composition

N	11	53	64
NS	11	49	60
Wt	585.63	2703.87	3289.50
Het Chi	13.73	78.28	92.02
Het df	10	52	63
Het P	N.S.	*	**
Fixed RR	1.28	1.27	1.27
RRl	1.18	1.22	1.23
RRu	1.38	1.32	1.32
P	+++	+++	+++
Random RR	1.30	1.25	1.26
RRl	1.17	1.18	1.20
RRu	1.44	1.33	1.33
P	+++	+++	+++
Between Chi			0.01
Between df			1
Between P			N.S.

Appendix Table A5 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

Lifetime Asthma
Adjusted
Study adjusts for cooking, heating, air conditioning
Yes No Total

RR data

N	5	59	64
NS	5	55	60
Wt	411.39	2878.11	3289.50
Het Chi	4.69	86.29	92.02
Het df	4	58	63
Het P	N.S.	**	**
Fixed RR	1.21	1.28	1.27
RRl	1.10	1.23	1.23
RRu	1.34	1.33	1.32
P	+++	+++	+++
Random RR	1.21	1.27	1.26
RRl	1.08	1.20	1.20
RRu	1.35	1.34	1.33
P	+++	+++	+++
Between Chi			1.03
Between df			1
Between P			N.S.

Study adjusts for housing quality, crowding, damp, mould

N	9	55	64
NS	9	51	60
Wt	286.43	3003.07	3289.50
Het Chi	6.76	82.09	92.02
Het df	8	54	63
Het P	N.S.	**	**
Fixed RR	1.15	1.28	1.27
RRl	1.02	1.24	1.23
RRu	1.29	1.33	1.32
P	+	+++	+++
Random RR	1.15	1.28	1.26
RRl	1.02	1.21	1.20
RRu	1.29	1.35	1.33
P	+	+++	+++
Between Chi			3.16
Between df			1
Between P			(*)

Study adjusts for pets, animal contact, farming

N	8	56	64
NS	7	53	60
Wt	193.35	3096.15	3289.50
Het Chi	3.99	86.58	92.02
Het df	7	55	63
Het P	N.S.	**	**
Fixed RR	1.17	1.28	1.27
RRl	1.02	1.23	1.23
RRu	1.35	1.32	1.32
P	+	+++	+++
Random RR	1.17	1.27	1.26
RRl	1.02	1.20	1.20
RRu	1.35	1.35	1.33
P	+	+++	+++
Between Chi			1.45
Between df			1
Between P			N.S.

Appendix Table A5 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

Lifetime Asthma
Adjusted
Study adjusts for child's medical history

	Yes	No	Total
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RR data

N	22	42	64
NS	20	40	60
Wt	737.41	2552.09	3289.50
Het Chi	30.01	61.87	92.02
Het df	21	41	63
Het P	(*)	*	**
Fixed RR	1.26	1.28	1.27
RRl	1.17	1.23	1.23
RRu	1.35	1.33	1.32
P	+++	+++	+++
Random RR	1.28	1.26	1.26
RRl	1.17	1.18	1.20
RRu	1.41	1.34	1.33
P	+++	+++	+++
Between Chi			0.13
Between df			1
Between P			N.S.

Study adjusts for in utero exposure

N	2	62	64
NS	2	58	60
Wt	19.16	3270.34	3289.50
Het Chi	6.70	85.28	92.02
Het df	1	61	63
Het P	**	*	**
Fixed RR	1.22	1.27	1.27
RRl	0.78	1.23	1.23
RRu	1.91	1.32	1.32
P	N.S.	+++	+++
Random RR	1.45	1.26	1.26
RRl	0.43	1.20	1.20
RRu	4.95	1.33	1.33
P	N.S.	+++	+++
Between Chi			0.04
Between df			1
Between P			N.S.

Study adjusts for in life exposure

N	13	51	64
NS	13	47	60
Wt	647.50	2642.00	3289.50
Het Chi	15.80	76.05	92.02
Het df	12	50	63
Het P	N.S.	*	**
Fixed RR	1.29	1.27	1.27
RRl	1.19	1.22	1.23
RRu	1.39	1.32	1.32
P	+++	+++	+++
Random RR	1.29	1.25	1.26
RRl	1.18	1.18	1.20
RRu	1.42	1.33	1.33
P	+++	+++	+++
Between Chi			0.16
Between df			1
Between P			N.S.

Appendix Table A5 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Lifetime Asthma					
		Adjusted					
		Exposed group : who is smoker					
		AnyPar	Mother	Father	Total		
RR data							
	N	21	39	4	64		
	NS	20	37	3	60		
	Wt	623.82	2556.92	108.77	3289.50		
	Het Chi	17.42	63.06	2.53	92.02		
	Het df	20	38	3	63		
	Het P	N.S.	**	N.S.	**		
	Fixed RR	1.22	1.30	1.00	1.27		
	RR1	1.12	1.25	0.83	1.23		
	RRu	1.31	1.35	1.20	1.32		
	P	+++	+++	N.S.	+++		
	Random RR	1.22	1.31	1.00	1.26		
	RR1	1.12	1.23	0.83	1.20		
	RRu	1.31	1.40	1.20	1.33		
	P	+++	+++	N.S.	+++		
	Between Chi				9.01		
	Between df				2		
	Between P				*		
		Exposed group : when Exposed					
		lif/ev	age<7y	current	unspec	other	Total
	N	21	6	17	18	2	64
	NS	20	5	16	17	2	60
	Wt	1665.44	375.37	647.17	545.48	56.04	3289.50
	Het Chi	31.41	21.82	27.29	7.17	2.78	92.02
	Het df	20	5	16	17	1	63
	Het P	(*)	***	*	N.S.	(*)	**
	Fixed RR	1.27	1.23	1.25	1.33	1.27	1.27
	RR1	1.21	1.12	1.16	1.22	0.98	1.23
	RRu	1.33	1.37	1.35	1.44	1.65	1.32
	P	+++	+++	+++	+++	(+)	+++
	Random RR	1.23	1.32	1.23	1.33	1.25	1.26
	RR1	1.12	1.00	1.11	1.22	0.81	1.20
	RRu	1.36	1.74	1.37	1.44	1.94	1.33
	P	+++	(+)	+++	+++	N.S.	+++
	Between Chi						1.56
	Between df						4
	Between P						N.S.
		Unexposed group : who is smoker					
		NoHhMemb	NoParent	NotSpPar	Total		
	N	3	22	39	64		
	NS	3	20	37	60		
	Wt	63.02	667.56	2558.93	3289.50		
	Het Chi	1.61	17.69	65.23	92.02		
	Het df	2	21	38	63		
	Het P	N.S.	N.S.	**	**		
	Fixed RR	0.97	1.21	1.30	1.27		
	RR1	0.76	1.12	1.25	1.23		
	RRu	1.24	1.30	1.35	1.32		
	P	N.S.	+++	+++	+++		
	Random RR	0.97	1.21	1.31	1.26		
	RR1	0.76	1.12	1.22	1.20		
	RRu	1.24	1.30	1.40	1.33		
	P	N.S.	+++	+++	+++		
	Between Chi				7.48		
	Between df				2		
	Between P				*		

Appendix Table A5 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Lifetime Asthma						
		Adjusted						
		Unexposed group : time						
		non	never	non+othr	Total			
RR data								
	N	52	12		64			
	NS	49	11		60			
	Wt	1830.14	1459.36		3289.50			
	Het Chi	78.45	12.05		92.02			
	Het df	51	11		63			
	Het P	**	N.S.		**			
Fixed	RR	1.25	1.30		1.27			
	RRl	1.19	1.24		1.23			
	RRu	1.31	1.37		1.32			
	P	+++	+++		+++			
Random	RR	1.26	1.30		1.26			
	RRl	1.18	1.20		1.20			
	RRu	1.34	1.40		1.33			
	P	+++	+++		+++			
Between	Chi				1.51			
Between	df				1			
Between	P				N.S.			
		Number of adjustment variables						
		0	1	2	3-5	6-9	10+	Total
	N	31	11	2	9	9	2	64
	NS	30	8	2	9	9	2	60
	Wt	2191.43	191.02	119.74	304.98	418.39	63.94	3289.50
	Het Chi	37.04	20.20	0.04	20.76	11.35	2.06	92.02
	Het df	30	10	1	8	8	1	63
	Het P	N.S.	*	N.S.	**	N.S.	N.S.	**
Fixed	RR	1.28	1.32	1.23	1.27	1.25	1.28	1.27
	RRl	1.22	1.14	1.03	1.14	1.13	1.00	1.23
	RRu	1.33	1.52	1.47	1.42	1.37	1.63	1.32
	P	+++	+++	+	+++	+++	(+)	+++
Random	RR	1.25	1.35	1.23	1.30	1.26	1.36	1.26
	RRl	1.18	1.09	1.03	1.07	1.11	0.90	1.20
	RRu	1.33	1.66	1.47	1.57	1.43	2.04	1.33
	P	+++	++	+	++	+++	N.S.	+++
Between	Chi							0.55
Between	df							5
Between	P							N.S.
		RR adjusted for sex						
		Yes	No	Total				
	N	18	46	64				
	NS	18	42	60				
	Wt	674.66	2614.84	3289.50				
	Het Chi	28.11	63.71	92.02				
	Het df	17	45	63				
	Het P	*	*	**				
Fixed	RR	1.25	1.28	1.27				
	RRl	1.16	1.23	1.23				
	RRu	1.35	1.33	1.32				
	P	+++	+++	+++				
Random	RR	1.27	1.26	1.26				
	RRl	1.14	1.19	1.20				
	RRu	1.41	1.34	1.33				
	P	+++	+++	+++				
Between	Chi			0.19				
Between	df			1				
Between	P			N.S.				

Appendix Table A5 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

Lifetime Asthma
AdjustedRR adjusted for age
Yes No Total

RR data

N	13	51	64
NS	12	48	60
Wt	371.04	2918.46	3289.50
Het Chi	17.64	73.89	92.02
Het df	12	50	63
Het P	N.S.	*	**
Fixed RR	1.23	1.28	1.27
RRl	1.11	1.23	1.23
RRu	1.36	1.32	1.32
P	+++	+++	+++
Random RR	1.23	1.27	1.26
RRl	1.08	1.20	1.20
RRu	1.40	1.34	1.33
P	++	+++	+++
Between Chi			0.49
Between df			1
Between P			N.S.

RR adjusted for other ETS

N	4	60	64
NS	4	56	60
Wt	120.34	3169.16	3289.50
Het Chi	7.45	82.23	92.02
Het df	3	59	63
Het P	(*)	*	**
Fixed RR	1.46	1.27	1.27
RRl	1.22	1.22	1.23
RRu	1.74	1.31	1.32
P	+++	+++	+++
Random RR	1.44	1.25	1.26
RRl	1.04	1.19	1.20
RRu	1.99	1.32	1.33
P	+	+++	+++
Between Chi			2.33
Between df			1
Between P			N.S.

RR adjusted for factor other than sex, age, other ETS

N	30	34	64
NS	28	32	60
Wt	1020.68	2268.82	3289.50
Het Chi	53.37	38.63	92.02
Het df	29	33	63
Het P	**	N.S.	**
Fixed RR	1.28	1.27	1.27
RRl	1.20	1.22	1.23
RRu	1.36	1.32	1.32
P	+++	+++	+++
Random RR	1.30	1.25	1.26
RRl	1.19	1.18	1.20
RRu	1.43	1.32	1.33
P	+++	+++	+++
Between Chi			0.02
Between df			1
Between P			N.S.

Appendix Table A5 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Lifetime Asthma				
		Derivation of RR/CI			Adjusted	
		Original	Numbers	SumNumbs	Other	Total
RR data						
	N	24	16	13	11	64
	NS	24	14	12	10	60
	Wt	955.35	522.96	314.88	1496.31	3289.50
Het	Chi	37.73	16.09	15.42	18.58	92.02
Het	df	23	15	12	10	63
Het	P	*	N.S.	N.S.	*	**
Fixed	RR	1.26	1.35	1.17	1.28	1.27
	RRl	1.18	1.24	1.05	1.22	1.23
	RRu	1.34	1.47	1.31	1.35	1.32
	P	+++	+++	++	+++	+++
Random	RR	1.27	1.36	1.16	1.21	1.26
	RRl	1.17	1.24	1.01	1.08	1.20
	RRu	1.39	1.50	1.33	1.36	1.33
	P	+++	+++	+	+++	+++
Between	Chi					4.21
Between	df					3
Between	P					N.S.

Appendix Table A5 - 4

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Unadjusted

REF	NRR	X	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAWO	2		m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non
ANDRAE	1 x		b	0	16	all	Eu:Sca	1985	1988	CS	0	AnyPar	NoParent	in life	non
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non
BENER	1		b	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non
BURCHF	5		m	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BURCHF	8		f	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BUTZ	4		b	*	*	all	NAmer	1989	1992	CC	0	AnyPar	NotSpPar	ever	never
CHEN2	8 x		b	6	17	all	NAmer	1993	1996	CS	0	Mother	NotMothr	ever	never
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non
DODGE	9 x		b	8	12	all	NAmer	1978	1982	Pr	0	AnyPar	NoParent	unspec	non
DOLD	7		b	9	11	all	Eu:Ger	1989	1992	CS	0	AnyPar	NoParent	unspec	non
ECE	7		b	6	15	all	Eu:est	1999	2001	CS	0	Mother	NotMothr	current	non
EHLI2	4		b	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	ever	never
FARBE2	1 x		b	5	17	all	NAmer	1987	1997	CS	0	Mother	NotMothr	current	non
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non
FORAST	7 x		b	7	11	all	Eu:Ita	1987	1992	CS	0	AnyPar	NoParent	unspec	non
GOLD	11		b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non
GOREN1	4		b	7	11	all	As:ME	1980	1986	CS	0	Mother	NotMothr	current	non
GOREN2	2 x		b	7	11	all	As:ME	1982	1995	CS	0	Mother	NotMothr	ever	never
GORTM1	1 x		b	0	17	all	NAmer	1977	1982	CS	0	Mother	NotMothr	current	non
GORTM2	1		b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non
HAJNAL	3		b	6	14	all	Eu:wst	1992	1999	CS	13	Mother	NotMothr	current	non
HU1	2 x		b	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non
HU2	21 x		b	20	22	all	NAmer	1986	1997	Pr	0	AnyPar	LowParnt	13-15y	non
JENKIN	1 x		m	7	7	all	Auslia	1968	1993	CS	0	Mother	NotMothr	current	non
JENKIN	3 x		f	7	7	all	Auslia	1968	1993	CS	0	Mother	NotMothr	current	non
KAY	7 x		b	3	11	all	Eu:UK	*	1995	CS	0	AnyPar	NoParent	unspec	non
KERSHA	1 x		b	0	5	all	Eu:UK	1983	1987	CC	0	Mother	LowMothr	<3y	non
KIVITY	4		b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non
KUEHR	2 x		b	6	8	all	Eu:Ger	1990	1992	CS	0	Mother	NotMothr	<1y	non
KUHR	4		b	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non
LAM1	18		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	9		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LEEDER	1 x		b	0	5	all	Eu:UK	1963	1976	Pr	0	AnyPar	NoParent	in life	non
LEROUX	1 x		b	6	7	all	Eu:wst	1990	1995	CS	0	AnyPar	LowParnt	unspec	non
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non
LISTER	1 x		b	0	4	all	Auslia	1989	1998	CS	0	Mother	NotMothr	current	non
MARTIN	1 x		m	0	12	all	NAmer	1972	1992	Pr	0	Mother	LowMothr	<5y	non
MARTIN	2 x		f	0	12	all	NAmer	1972	1992	Pr	0	Mother	LowMothr	<5y	non
MCCON1	1 x		b	9	18	all	NAmer	1993	2002	Pr	0	Mother	NotMothr	9-16y	non
MCCON2	1		b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never
MURRAY	1 x		m	1	17	all	NAmer	1986	1990	CS	0	Mother	NotMothr	unspec	non
MURRAY	3 x		f	1	17	all	NAmer	1986	1990	CS	0	Mother	NotMothr	unspec	non
NILSSO	1		b	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non
PONSON	3 x		b	0	7	all	Auslia	1988	2000	Pr	0	Mother	NotMothr	<1m	non
RASANE	1 x		b	16	16	all	Eu:Sca	1991	2000	CS	0	Mother	NotMothr	ever	never
RATAGE	2		b	5	15	all	As:cen	1996	2000	CC	0	Father	NotFathr	unspec	non
RENNIE	1		b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non
RONMAR	4 x		b	7	10	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	non
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non
SOYSET	2 x		b	7	13	all	Eu:Sca	1989	1995	CS	0	Mother	NotMothr	in life	non
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VERHOE	3		b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never
WITHER	2 x		b	14	16	all	Eu:UK	1995	1998	CS	0	Mother	NotMothr	current	non

Appendix Table A5 - 5

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	2	b	0	32	30	70	72	1.10	(0.60- 1.99)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	1	b	0	101	2034	148	2645	0.89	(0.68- 1.15)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	4	b	0	55	51	47	54	1.24	(0.72- 2.14)
CHEN2	8	b	0	51	378	42	421	1.35	(0.88- 2.08)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	9	b	0	21	310	12	285	1.61	(0.78- 3.33)
DOLD	7	b	0	176	1822	235	2931	1.20	(0.98- 1.48)
ECE	7	b	0	96	530	334	2080	1.13	(0.88- 1.44)
EHRLI2	4	b	0	-	-	-	-	2.00	(1.10- 3.80)
FARBE2	1	b	0	109	707	116	1109	1.47	(1.12- 1.95)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FORAST	7	b	0	164	1800	52	781	1.37	(0.99- 1.89)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	4	b	0	37	279	93	1001	1.43	(0.95- 2.14)
GOREN2	2	b	0	203	1505	461	4103	1.20	(1.01- 1.43)
GORTM1	1	b	0	97	1158	91	1726	1.59	(1.18- 2.14)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
HAJNAL	3	b	13	-	-	-	-	1.16	(0.89- 1.55)
HU1	2	b	0	45	131	62	220	1.22	(0.78- 1.89)
HU2	21	b	0	52	240	101	1083	2.32	(1.62- 3.34)
JENKIN	1	m	0	310	1159	502	2367	1.26	(1.08- 1.48)
JENKIN	3	f	0	224	1208	313	2448	1.45	(1.21- 1.74)
Subtotal JENKIN								1.34	(1.19- 1.51)
KAY	7	b	0	103	348	108	518	1.42	(1.05- 1.92)
KERSHA	1	b	0	51	450	35	749	2.43	(1.55- 3.79)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	2	b	0	28	282	134	957	0.71	(0.46- 1.09)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	18	b	4	-	-	201	-	1.32	(0.71- 2.45)
LAM2	9	b	4	-	-	-	-	0.87	(0.64- 1.17)
*LEEDER	1	b	0	48	1433	11	445	1.36	(0.71- 2.59)
LEROUX	1	b	0	39	374	58	722	1.30	(0.85- 1.98)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	1	b	0	-	-	-	-	1.47	(1.19- 1.83)
*MARTIN	1	m	0	17	80	41	315	1.63	(0.98- 2.72)
*MARTIN	2	f	0	8	63	20	281	1.78	(0.82- 3.87)
Subtotal MARTIN								1.68	(1.10- 2.57)
*MCCON1	1	b	0	23	904	193	7899	1.04	(0.68- 1.60)
MCCON2	1	b	0	7	59	8	149	2.21	(0.77- 6.37)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MURRAY	1	m	0	50	34	153	149	1.43	(0.88- 2.34)
MURRAY	3	f	0	22	29	67	116	1.31	(0.70- 2.47)
Subtotal MURRAY								1.39	(0.94- 2.04)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*PONSON	3	b	0	130	382	146	473	1.10	(0.91- 1.34)
RASANE	1	b	0	101	2055	76	2306	1.49	(1.10- 2.02)
RATAGE	2	b	0	51	29	69	31	0.79	(0.42- 1.47)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
*RONMAR	4	b	0	-	-	-	-	1.12	(0.72- 1.73)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SHAMSS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
SOYSET	2	b	0	35	297	16	270	1.99	(1.08- 3.67)
STANHO	2	b	0	7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)

Appendix Table A5 - 5

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
VERHOE	3	b	0	78	185	39	72	0.78	(0.49- 1.25)
WITHER	2	b	0	103	299	395	1442	1.26	(0.98- 1.61)
Partial Totals				6254	41359	7934	68385		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALBA	2	b	0	0.09	10.78	0.25	0.7608
ALDAWO	2	m	0	0.76	8.40	2.24	0.0274
ALFRA1	2	b	0	0.41	22.65	0.64	0.0498
ANDRAE	1	b	0	-0.12	57.05	7.56	0.3670
ANNESI	1	b	0	0.25	89.09	0.01	0.0166
BENER	1	b	0	0.24	19.32	0.00	0.2839
BURCHF	5	m	1	0.22	32.51	0.03	0.2200
BURCHF	8	f	1	0.00	24.97	1.49	1.0000
Subtotal BURCHF				-0.27	57.49	1.52	
BUTZ	4	b	0	0.21	12.89	0.01	0.4416
CHEN2	8	b	0	0.30	20.64	0.07	0.1702
DELL	2	b	0	0.42	18.30	0.56	0.0733
DODGE	9	b	0	0.48	7.26	0.39	0.2000
DOLD	7	b	0	0.19	92.36	0.31	0.0734
ECE	7	b	0	0.12	63.38	0.98	0.3376
EHRLI2	4	b	0	0.69	10.00	2.01	0.0284
FARBE2	1	b	0	0.39	49.72	1.02	0.0062
FAROOQ	1	b	0	0.25	72.93	0.01	0.0297
*FERGUS	7	b	0	0.04	37.52	1.58	0.8106
FORAST	7	b	0	0.31	36.81	0.18	0.0570
GOLD	11	b	0	0.26	211.41	0.03	0.0002
GOREN1	4	b	0	0.36	23.61	0.29	0.0838
GOREN2	2	b	0	0.18	124.95	0.48	0.0411
GORTM1	1	b	0	0.46	43.97	2.10	0.0021
GORTM2	1	b	0	0.63	6.99	1.02	0.0978
HAJNAL	3	b	13	0.15	49.92	0.46	0.2943
HU1	2	b	0	0.20	19.79	0.04	0.3785
HU2	21	b	0	0.84	29.22	10.46	0.0000
JENKIN	1	m	0	0.23	153.77	0.02	0.0040
JENKIN	3	f	0	0.37	112.42	1.82	0.0001
Subtotal JENKIN				0.11	266.19	1.84	
KAY	7	b	0	0.35	42.07	0.47	0.0231
KERSHA	1	b	0	0.89	19.33	7.95	0.0001
KIVITY	4	b	0	0.59	13.44	1.58	0.0311
KUEHR	2	b	0	-0.34	20.93	7.25	0.1158
KUHR	4	b	0	0.70	5.57	1.14	0.0997
LAM1	18	b	4	0.28	10.02	0.01	0.3796
LAM2	9	b	4	-0.14	42.22	6.22	0.3655
*LEEDER	1	b	0	0.30	9.19	0.03	0.3569
LEROUX	1	b	0	0.26	21.30	0.01	0.2285
LIS	1	b	0	0.31	37.30	0.15	0.0604
LISTER	1	b	0	0.39	82.96	1.64	0.0004
*MARTIN	1	m	0	0.49	14.81	0.89	0.0593
*MARTIN	2	f	0	0.58	6.43	0.72	0.1422
Subtotal MARTIN				0.58	21.23	1.61	
*MCCON1	1	b	0	0.04	21.09	0.88	0.8526
MCCON2	1	b	0	0.79	3.43	1.03	0.1420
*MCKEEV	4	b	0	0.27	1119.12	0.77	0.0000
MURRAY	1	m	0	0.36	15.96	0.21	0.1513
MURRAY	3	f	0	0.27	9.66	0.01	0.3967
Subtotal MURRAY				0.14	25.62	0.22	
NILSSO	1	b	0	0.00	31.98	1.91	1.0000
OCONNE	1	b	0	0.25	33.98	0.00	0.1384
*PONSON	3	b	0	0.10	101.94	2.20	0.3244
RASANE	1	b	0	0.40	41.70	1.00	0.0099
RATAGE	2	b	0	-0.24	9.92	2.29	0.4582
RENNIE	1	b	6	0.02	13.41	0.68	0.9422
*RONMAR	4	b	0	0.11	20.00	0.34	0.6123
ROSASV	1	b	0	0.45	3.25	0.14	0.4168
SHAMSS	2	b	0	0.33	79.17	0.57	0.0034
*SHERMA	2	b	2	0.17	19.90	0.12	0.4603

Appendix Table A5 - 5

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
*SIGURS	1	b	0	0.18	3.26	0.01	0.7422
SOYSET	2	b	0	0.69	10.19	2.00	0.0282
STANHO	2	b	0	-0.92	4.90	6.62	0.0423
*TAYLOR	4	b	0	-0.04	72.55	5.91	0.7281
VENNER	6	m	0	0.09	27.66	0.62	0.6182
VENNER	3	f	0	0.18	28.98	0.13	0.3399
Subtotal	VENNER			-0.22	56.63	0.75	
VERHOE	3	b	0	-0.25	17.31	4.24	0.2972
WITHER	2	b	0	0.23	61.43	0.01	0.0724

RR data

	N	65
	NS	60
	Wt	3538.99
Het	Chi	95.82
Het	df	64
Het	P	**
Fixed	RR	1.28
	RRl	1.24
	RRu	1.32
	P	+++
Random	RR	1.27
	RRl	1.21
	RRu	1.33
	P	+++
Asymm	P	N.S.

Appendix Table A5 - 6

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Unadjusted

RR data

	N	65							
	NS	60							
	Wt	3538.99							
Het	Chi	95.82							
Het	df	64							
Het	P	**							
Fixed	RR	1.28							
	RR1	1.24							
	RRu	1.32							
	P	+++							
Random	RR	1.27							
	RR1	1.21							
	RRu	1.33							
	P	+++							
Asymm	P	N.S.							
			<u>Sex</u>						
			both	male	female		Total		
	N	54	6	5			65		
	NS	54	6	5			65		
	Wt	3103.42	253.11	182.46			3538.99		
Het	Chi	87.59	3.99	3.76			95.82		
Het	df	53	5	4			64		
Het	P	**	N.S.	N.S.			**		
Fixed	RR	1.27	1.29	1.34			1.28		
	RR1	1.23	1.14	1.16			1.24		
	RRu	1.32	1.46	1.55			1.32		
	P	+++	+++	+++			+++		
Random	RR	1.26	1.29	1.34			1.27		
	RR1	1.19	1.14	1.16			1.21		
	RRu	1.33	1.46	1.55			1.33		
	P	+++	+++	+++			+++		
Between	Chi						0.48		
Between	df						2		
Between	P						N.S.		
			<u>Continent</u>						
			NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	22	1	25	11		6		65
	NS	19	1	25	10		5		60
	Wt	626.35	3.25	2084.72	331.15		493.52		3538.99
Het	Chi	20.87	0.00	43.34	13.40		13.85		95.82
Het	df	21	0	24	10		5		64
Het	P	N.S.	N.S.	**	N.S.		*		**
Fixed	RR	1.37	1.57	1.26	1.21		1.27		1.28
	RR1	1.26	0.53	1.21	1.08		1.16		1.24
	RRu	1.48	4.66	1.32	1.34		1.38		1.32
	P	+++	N.S.	+++	+++		+++		+++
Random	RR	1.37	1.57	1.23	1.22		1.23		1.27
	RR1	1.26	0.53	1.14	1.07		1.04		1.21
	RRu	1.48	4.66	1.33	1.40		1.44		1.33
	P	+++	N.S.	+++	++		+		+++
Between	Chi								4.36
Between	df								4
Between	P								N.S.

Appendix Table A5 - 6

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Lifetime Asthma Unadjusted					
		Start year of study					
		<1970	1970-79	1980-89	1990+	unknown	Total
RR data	N	6	10	20	21	8	65
	NS	4	9	19	20	8	60
	Wt	366.85	491.68	718.55	647.17	1314.75	3538.99
	Het Chi	3.30	17.87	39.21	17.95	11.06	95.82
	Het df	5	9	19	20	7	64
	Het P	N.S.	*	**	N.S.	N.S.	**
Fixed	RR	1.30	1.24	1.32	1.18	1.31	1.28
	RRl	1.17	1.13	1.23	1.09	1.24	1.24
	RRu	1.44	1.35	1.43	1.28	1.38	1.32
	P	+++	+++	+++	+++	+++	+++
Random	RR	1.30	1.23	1.42	1.18	1.30	1.27
	RRl	1.17	1.06	1.26	1.09	1.14	1.21
	RRu	1.44	1.43	1.60	1.28	1.49	1.33
	P	+++	++	+++	+++	+++	+++
Between	Chi						6.42
Between	df						4
Between	P						N.S.
		Study type					
		CC	Pr	CS	Total		
	N	8	14	43	65		
	NS	8	13	39	60		
	Wt	117.46	1673.69	1747.85	3538.99		
	Het Chi	16.84	24.33	54.54	95.82		
	Het df	7	13	42	64		
	Het P	*	*	(*)	**		
Fixed	RR	1.30	1.28	1.27	1.28		
	RRl	1.09	1.22	1.21	1.24		
	RRu	1.56	1.34	1.33	1.32		
	P	++	+++	+++	+++		
Random	RR	1.29	1.25	1.27	1.27		
	RRl	0.96	1.13	1.20	1.21		
	RRu	1.74	1.39	1.35	1.33		
	P	(+)	+++	+++	+++		
Between	Chi				0.10		
Between	df				2		
Between	P				N.S.		

Appendix Table A5 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	BARRET	BECKET	BRABIN	CHEN1	FIELDE	FLYNN1	FLYNN2	GURKAN	KALYO1	KEARNE	KENDIR	MAIER	MONTEF	MOYES1	MOYES2
	WOLFO3	ODDY	POKHAR	RONCH1	RONCH2	RONCH3	RUDNIK	SELCUK	SENNHA	SPIEKE	SQUILL	TIMONE	TSIMOY	VARELA	VAVILI	WOLFO1
	WOLFO2															
3	CUNNI2	GILLIL	KAPLAN	KELLY	NHANE3	NYSTAD	WEITZ1	XU								
5	BURR	DEBENE	GOREN3	GOREN4	GOREN5	GOREN6	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	VONMAF	ZEIGER	ZEJDA	
13	ALFRA2	FARBE1	FARBE3													

Appendix Table A5 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP													
MCCON1	GILLIL	2	MCCON1/GILLIL													
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3													
KUEHR	KUEHR	1	KUEHR/SPIEKE													
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2													
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6													
Adjusted - insufficient data for metaanalysis																
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	1.01	?
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	*	n
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	1.46	y
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	*	n
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	1.67	y
KIVITY	5	b	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	*	y
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	*	n
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	*	n
SANZOR	1	b	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	*	n
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	*	n
STAZI	7	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	1.35	y
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	*	n
VOLKME	2	b	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	*	n
VONMAF	3	b	0	17	all	NAmer	1993	2001	CS	7	Mother	NotMothr	ever	never	*	y
ZEIGER	4	b	0	7	all	NAmer	1981	1995	Pr	4	Mother	NotMothr	unspec	non	*	n
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	*	n
Unadjusted - insufficient data for metaanalysis: as for adjusted plus the following																
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
STAZI	2	b	0	5	all	Eu:Ita	1993	2002	CS	2	Mother	NotMothr	in life	non	*	n
VOLKME	1	b	4	5	all	Auslia	1993	1995	CS	0	AnyPar	NoParent	unspec	non	*	n

Appendix Table A6 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : none in household, neither parent, not specific parent
- 9) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A5 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A6 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	CompA5	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAWO	2		m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non
ANDRAE	2		b	0	16	all	Eu:Sca	1985	1988	CS	3	AnyPar	NoParent	in life	non
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non
BENER	1		b	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non
BURCHF	5		m	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BURCHF	8		f	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BUTZ	4		b	*	*	all	NAmer	1989	1992	CC	0	AnyPar	NotSpPar	ever	never
CHEN2	34		b	6	17	all	NAmer	1993	1996	CS	6	Mother	NotMothr	ever	never
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non
DODGE	12		b	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non
DOLD	7		b	9	11	all	Eu:Ger	1989	1992	CS	0	AnyPar	NoParent	unspec	non
ECE	2	x	b	6	15	all	Eu:est	1999	2001	CS	0	Mother	NoHhMemb	current	non
EHRLI2	4		b	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	ever	never
FARBE2	2		b	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non
FORAST	20		b	7	11	all	Eu:Ita	1987	1992	CS	9	AnyPar	NoParent	unspec	non
GOLD	11		b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non
GOREN1	1	x	b	7	11	all	As:ME	1980	1986	CS	0	Mother	NoHhMemb	current	non
GOREN2	5		b	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never
GORTM1	3		b	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non
GORTM2	1		b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non
HAJNAL	3		b	6	14	all	Eu:wst	1992	1999	CS	13	Mother	NotMothr	current	non
HU1	4		b	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non
HU2	23		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non
JENKIN	5		b	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non
KAY	20		b	3	11	all	Eu:UK	*	1995	CS	1	AnyPar	NoParent	unspec	non
KERSHA	6	x	b	0	5	all	Eu:UK	1983	1987	CC	1	Mother	LowHh	<3y	non
KIVITY	4		b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non
KUEHR	6		b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non
KUHR	4		b	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non
LAM1	18		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	9		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LEEDER	2		b	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non
LEROUX	2		b	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non
LISTER	3		b	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MCCON1	2		b	9	18	all	NAmer	1993	2002	Pr	5	Mother	NotMothr	9-16y	non
MCCON2	1		b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never
MURRAY	5		m	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
MURRAY	7		f	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
NILSSO	1		b	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non
PONSON	9	x	b	0	7	all	Auslia	1988	2000	Pr	0	Mother	NoHhMemb	<1m	non
RASANE	3		b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never
RATAGE	3	x	b	5	15	all	As:cen	1996	2000	CC	0	Father	NoHhMemb	unspec	non
RENNIE	1		b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non
RONMAR	5		b	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non
SOYSET	14		b	7	13	all	Eu:Sca	1989	1995	CS	5	Mother	NotMothr	in life	non
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VERHOE	3		b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never
WITHER	4	x	b	14	16	all	Eu:UK	1995	1998	CS	0	Mother	NoHhMemb	current	non

Appendix Table A6 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	2	b	0	32	30	70	72	1.10	(0.60- 1.99)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF									
BUTZ	4	b	0	55	51	47	54	1.24	(0.72- 2.14)
CHEN2	34	b	6	51	-	42	-	1.67	(1.01- 2.77)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	7	b	0	176	1822	235	2931	1.20	(0.98- 1.48)
ECE	2	b	0	96	530	132	906	1.24	(0.94- 1.65)
EHRLI2	4	b	0	-	-	-	-	2.00	(1.10- 3.80)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	1	b	0	37	279	50	514	1.36	(0.87- 2.14)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
HAJNAL	3	b	13	-	-	-	-	1.16	(0.89- 1.55)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KERSHA	6	b	1	51	-	15	-	3.61	(1.99- 6.53)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	6	b	1	28	-	134	-	0.68	(0.44- 1.06)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	18	b	4	-	-	201	-	1.32	(0.71- 2.45)
LAM2	9	b	4	-	-	-	-	0.87	(0.64- 1.17)
*LEEDER	2	b	1	48	-	11	-	1.33	(0.67- 2.64)
LEROUX	2	b	10	39	-	58	-	1.79	(1.06- 3.02)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN									
*MCCON1	2	b	5	23	-	193	-	0.99	(0.67- 1.47)
MCCON2	1	b	0	7	59	8	149	2.21	(0.77- 6.37)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY									
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*PONSON	9	b	0	130	382	88	293	1.13	(0.91- 1.42)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)
RATAGE	3	b	0	51	29	58	30	0.91	(0.48- 1.71)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
*RONMAR	5	b	9	-	-	-	-	1.36	(0.82- 2.25)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SHAMGS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
SOYSET	14	b	5	35	-	16	-	2.80	(1.30- 6.10)
STANHO	2	b	0	7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER									
VERHOE	3	b	0	78	185	39	72	0.78	(0.49- 1.25)
WITHER	4	b	0	103	299	296	1107	1.29	(1.00- 1.67)

Appendix Table A6 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI
				Exposed Case	Cont 24380	Case	Cont 34293		
Partial Totals				6254	24380	7501	34293		
*prospective study									
REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps		
ALBA	2	b	0	0.09	10.78	0.25	0.7608		
ALDAWO	2	m	0	0.76	8.40	2.25	0.0274		
ALFRA1	2	b	0	0.41	22.65	0.64	0.0498		
ANDRAE	2	b	3	-0.01	54.89	3.53	0.9406		
ANNESI	1	b	0	0.25	89.09	0.01	0.0166		
BENER	1	b	0	0.24	19.32	0.00	0.2839		
BURCHF	5	m	1	0.22	32.51	0.03	0.2200		
BURCHF	8	f	1	0.00	24.97	1.48	1.0000		
Subtotal BURCHF				-0.27	57.49	1.51			
BUTZ	4	b	0	0.21	12.89	0.01	0.4416		
CHEN2	34	b	6	0.51	15.10	1.09	0.0463		
DELL	2	b	0	0.42	18.30	0.56	0.0733		
DODGE	12	b	1	0.41	7.12	0.19	0.2794		
DOLD	7	b	0	0.19	92.36	0.30	0.0734		
ECE	2	b	0	0.22	47.66	0.03	0.1329		
EHRLI2	4	b	0	0.69	10.00	2.02	0.0284		
FARBE2	2	b	3	0.41	57.72	1.64	0.0017		
FAROOQ	1	b	0	0.25	72.93	0.01	0.0297		
*FERGUS	7	b	0	0.04	37.52	1.57	0.8106		
FORAST	20	b	9	0.25	37.10	0.00	0.1327		
GOLD	11	b	0	0.26	211.41	0.03	0.0002		
GOREN1	1	b	0	0.31	19.03	0.08	0.1764		
GOREN2	5	b	2	0.22	99.84	0.08	0.0316		
GORTM1	3	b	7	0.40	36.85	0.89	0.0155		
GORTM2	1	b	0	0.63	6.99	1.02	0.0978		
HAJNAL	3	b	13	0.15	49.92	0.45	0.2943		
HU1	4	b	7	-0.22	12.73	2.77	0.4259		
HU2	23	b	3	0.44	31.16	1.18	0.0144		
JENKIN	5	b	7	0.23	116.41	0.02	0.0126		
KAY	20	b	1	0.35	38.89	0.44	0.0288		
KERSHA	6	b	1	1.28	10.88	11.77	0.0000		
KIVITY	4	b	0	0.59	13.44	1.59	0.0311		
KUEHR	6	b	1	-0.39	19.88	7.87	0.0855		
KUHR	4	b	0	0.70	5.57	1.15	0.0997		
LAM1	18	b	4	0.28	10.02	0.01	0.3796		
LAM2	9	b	4	-0.14	42.22	6.19	0.3655		
*LEEDER	2	b	1	0.29	8.17	0.01	0.4149		
LEROUX	2	b	10	0.58	14.02	1.61	0.0293		
LIS	1	b	0	0.31	37.30	0.15	0.0604		
LISTER	3	b	8	0.42	64.33	1.97	0.0008		
*MARTIN	5	m	1	0.56	11.93	1.19	0.0533		
*MARTIN	6	f	1	0.68	5.55	1.07	0.1075		
Subtotal MARTIN				0.76	17.48	2.26			
*MCCON1	2	b	5	-0.01	24.89	1.60	0.9600		
MCCON2	1	b	0	0.79	3.43	1.03	0.1420		
*MCKEEV	4	b	0	0.27	1119.12	0.82	0.0000		
MURRAY	5	m	1	0.34	14.28	0.14	0.1941		
MURRAY	7	f	1	0.27	8.50	0.01	0.4311		
Subtotal MURRAY				0.13	22.78	0.15			
NILSSO	1	b	0	0.00	31.98	1.90	1.0000		
OCONNE	1	b	0	0.25	33.98	0.00	0.1384		
*PONSON	9	b	0	0.12	76.77	1.08	0.2736		
RASANE	3	b	3	0.46	27.24	1.32	0.0155		
RATAGE	3	b	0	-0.09	9.55	1.09	0.7697		
RENNIE	1	b	6	0.02	13.41	0.67	0.9422		
*RONMAR	5	b	9	0.31	15.08	0.06	0.2324		
ROSASV	1	b	0	0.45	3.25	0.14	0.4168		
SHAMSS	2	b	0	0.33	79.17	0.58	0.0034		
*SHERMA	2	b	2	0.17	19.90	0.12	0.4603		
*SIGURS	1	b	0	0.18	3.26	0.01	0.7422		
SOYSET	14	b	5	1.03	6.43	3.97	0.0090		
STANHO	2	b	0	-0.92	4.90	6.61	0.0423		
*TAYLOR	4	b	0	-0.04	72.55	5.87	0.7281		

Appendix Table A6 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
VENNER	6	m	0	0.09	27.66	0.61	0.6182
VENNER	3	f	0	0.18	28.98	0.13	0.3399
Subtotal	VENNER			-0.22	56.63	0.74	
VERHOE	3	b	0	-0.25	17.31	4.23	0.2972
WITHER	4	b	0	0.25	57.69	0.01	0.0543

RR data

	N	64
	NS	60
	Wt	3237.16
Het	Chi	89.20
Het	df	63
Het	P	*
Fixed	RR	1.28
	RRl	1.23
	RRu	1.32
	P	+++
Random	RR	1.27
	RRl	1.20
	RRu	1.33
	P	+++
Asymm	P	N.S.

Appendix Table A6 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

RR data

	N	64			
	NS	60			
	Wt	3237.16			
Het	Chi	89.20			
Het	df	63			
Het	P	*			
Fixed	RR	1.28			
	RRl	1.23			
	RRu	1.32			
	P	+++			
Random	RR	1.27			
	RRl	1.20			
	RRu	1.33			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	55	5	4	64
	NS	55	5	4	64
	Wt	3074.38	94.79	68.00	3237.16
Het	Chi	82.29	4.01	2.27	89.20
Het	df	54	4	3	63
Het	P	**	N.S.	N.S.	*
Fixed	RR	1.28	1.34	1.18	1.28
	RRl	1.23	1.09	0.93	1.23
	RRu	1.32	1.64	1.50	1.32
	P	+++	++	N.S.	+++
Random	RR	1.26	1.34	1.18	1.27
	RRl	1.20	1.09	0.93	1.20
	RRu	1.34	1.64	1.50	1.33
	P	+++	++	N.S.	+++
Between	Chi				0.63
Between	df				2
Between	P				N.S.

Appendix Table A6 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	BARRET	BECKET	BRABIN	CHEN1	FIELDE	FLYNN1	FLYNN2	GURKAN	KALYO1	KEARNE	KENDIR	MAIER	MONTEF	MOYES1	MOYES2
	ODDY	POKHAR	RONCH1	RONCH2	RONCH3	RUDNIK	SELCUK	SENNHA	SPIEKE	SQUILL	TIMONE	TSIMOY	VARELA	VAVILI	WOLFO1	WOLFO2
	WOLFO3															
3	CUNNI2	GILLIL	KAPLAN	KELLY	NHANE3	NYSTAD	WEITZ1	XU								
5	BURR	DEBENE	GOREN3	GOREN4	GOREN5	GOREN6	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	VONMAF	ZEIGER	ZEJDA	
13	ALFRA2	FARBE1	FARBE3													

Appendix Table A6 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
MCCON1	GILLIL	2	MCCON1/GILLIL
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3
KUEHR	KUEHR	1	KUEHR/SPIEKE
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	1.01	?
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	*	n
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	1.46	y
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	*	n
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	1.67	y
KIVITY	5	b	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	*	y
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	*	n
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	*	n
SANZOR	1	b	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	*	n
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	*	n
STAZI	7	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	1.35	y
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	*	n
VOLKME	2	b	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	*	n
VONMAF	3	b	0	17	all	NAmer	1993	2001	CS	7	Mother	NotMothr	ever	never	*	y
ZEIGER	4	b	0	7	all	NAmer	1981	1995	Pr	4	Mother	NotMothr	unspec	non	*	n
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	*	n

Appendix Table A7 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : not specific parent, neither parent, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A3 - 1 are marked 'x' in Section -1) and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A7 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

REF	NRR	CompA3	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	14		b	6	7	all	Eu:Ita	1994	1999	CC	11	AnyPar	NoParent	current	never
AGABI2	14		b	13	14	all	Eu:Ita	1994	1999	CC	12	AnyPar	NoParent	current	never
ARSHAD	1		b	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non
CHEN2	47	x	b	6	17	all	NAmer	1993	1996	CS	1	Mother	NotMothr	ever	never
DAIGLE	3		b	0	*	all	NAmer	1986	1991	CC	7	Mother	NotMothr	unspec	non
FAGBUL	2		b	0	18	all	Africa	*	1994	CC	1	AnyPar	NoParent	unspec	non
GILLIL	36	x	b	7	19	all	NAmer	1993	2001	CS	8	Mother	NoHhMemb	current	non
GOLD	7		b	6	14	all	NAmer	1974	1993	Pr	11	Mother	NotMothr	ever	never
HABY	4		b	3	5	all	Auslia	1995	2001	CS	9	AnyPar	NoParent	<6m	non
HJERN1	13		b	3	15	all	Eu:Sca	1996	2001	CS	9	Mother	NotMothr	ever	never
HJERN2	13		b	3	15	all	Eu:Sca	1996	2001	CS	9	Father	NotFathr	ever	never
HOST	1		b	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non
HU1	6		b	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non
HU2	24		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non
INFANT	10		b	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non
JONES	2		b	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non
LAM1	20	x	b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	12	x	b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LAU	1		b	3	10	all	As:FE	1989	1995	CS	0	AnyPar	NoParent	current	non
LEEN	1		b	9	9	all	Eu:wst	1991	1994	CC	0	AnyPar	NoParent	unspec	non
LILLJE	1		b	7	10	all	Eu:Sca	1991	1997	CS	0	AnyPar	NoParent	unspec	non
LINDFO	1		b	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non
MOUSSA	1		b	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCUO	2	x	b	3	15	all	As:ME	1986	1994	CC	0	Mother	NotMothr	unspec	non
OHARA	6		b	3	12	all	As:FE	2001	2002	CS	4	AnyPar	NoParent	current	non
PALMIE	3		b	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non
PIC	1		b	5	15	all	Eu:wst	1999	2002	CS	0	AnyPar	NoParent	unspec	non
RIBEIR	1		b	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non
RONMAR	1		b	7	8	all	Eu:Sca	1996	2002	Pr	5	Mother	NotMothr	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHOHAT	4		b	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non
SOTOQU	1		b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non
STANHO	1		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
STERN1	1		b	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non
STODDA	10		b	0	17	all	NAmer	1986	1995	CS	9	Mother	NotMothr	current	non
STRACH	9		b	13	18	all	Eu:UK	1993	1995	CC	4	Mother	NotMothr	current	non
TARIQ	12		b	4	4	all	Eu:UK	1989	2000	Pr	1	Mother	NotMothr	in life	non
TOMINA	2		b	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non
WILLE1	7		b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non
ZHENG	26	x	b	6	10	all	As:FE	1999	2002	CC	0	Mother	NotMothr	in life	non

Appendix Table A7 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	14	b	11	558	-	148	-	1.34	(1.11- 1.62)
AGABI2	14	b	12	700	-	203	-	1.17	(0.99- 1.39)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80- 14.60)
CHEN2	47	b	1	37	-	37	-	1.11	(0.67- 1.83)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10- 3.47)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84- 2.36)
GILLIL	36	b	8	-	-	-	-	0.90	(0.50- 1.50)
GOLD	7	b	11	-	-	-	-	0.99	(0.83- 1.18)
HABY	4	b	9	86	-	104	-	1.62	(0.95- 2.75)
HJERN1	13	b	9	61	-	58	-	0.72	(0.52- 1.01)
HJERN2	13	b	9	44	-	34	-	0.94	(0.62- 1.43)
HOST	1	b	0	20	457	14	285	0.89	(0.44- 1.79)
HU1	6	b	0	28	148	44	238	1.02	(0.61- 1.71)
HU2	24	b	3	34	-	84	-	1.47	(0.97- 2.23)
INFANT	10	b	19	183	-	273	-	1.40	(0.95- 2.05)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
LAM1	20	b	4	-	-	35	-	2.13	(0.72- 6.33)
LAM2	12	b	4	-	-	-	-	0.69	(0.39- 1.22)
LAU	1	b	0	19	247	9	158	1.35	(0.60- 3.06)
LEEN	1	b	0	46	45	69	51	0.76	(0.44- 1.31)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81- 1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15- 2.37)
MOUSSA	1	b	0	1	0	202	203	3.01~	(0.12- 74.44)
MUMCUO	2	b	0	0	4	300	96	0.04~	(0.00- 0.67)
OHARA	6	b	4	82	-	59	-	0.91	(0.65- 1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70- 1.42)
PIC	1	b	0	51	829	60	1069	1.10	(0.75- 1.61)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59- 2.41)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12- 2.28)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95- 1.55)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14- 2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13- 1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63- 1.98)
STODDA	10	b	9	224	-	443	-	1.36	(1.14- 1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85- 1.79)
TARIQ	12	b	1	48	-	133	-	0.89	(0.57- 1.40)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
ZHENG	26	b	0	13	13	390	793	2.03	(0.93- 4.43)
Partial Totals				3319	3789	4655	8162		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	14	b	11	0.29	107.50	1.57	0.0024
AGABI2	14	b	12	0.16	133.43	0.03	0.0697
ARSHAD	1	b	7	1.20	1.82	1.94	0.1044
CHEN2	47	b	1	0.10	15.22	0.07	0.6839
DAIGLE	3	b	7	0.67	11.64	2.93	0.0217
FAGBUL	2	b	1	0.34	14.40	0.43	0.1923
GILLIL	36	b	8	-0.11	12.73	0.98	0.7070
GOLD	7	b	11	-0.01	124.12	4.10	0.9108
HABY	4	b	9	0.48	13.60	1.31	0.0752
HJERN1	13	b	9	-0.33	34.86	8.72	0.0524
HJERN2	13	b	9	-0.06	22.00	1.20	0.7716
HOST	1	b	0	-0.12	7.87	0.65	0.7459
HU1	6	b	0	0.02	14.41	0.32	0.9302
HU2	24	b	3	0.39	22.17	1.01	0.0697
INFANT	10	b	19	0.34	25.97	0.71	0.0864
JONES	2	b	0	0.16	9.47	0.00	0.6266
LAM1	20	b	4	0.76	3.25	1.11	0.1727
LAM2	12	b	4	-0.37	11.81	3.48	0.2022
LAU	1	b	0	0.30	5.74	0.10	0.4716
LEEN	1	b	0	-0.28	12.81	2.62	0.3157
LILLJE	1	b	0	0.09	42.18	0.32	0.5801
LINDFO	1	b	0	0.50	29.55	3.20	0.0065
MOUSSA	1	b	0	1.10	0.37	0.32	0.5000

Appendix Table A7 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
MUMCUO	2	b	0	-3.33	0.45	5.49	0.0258
OHARA	6	b	4	-0.09	34.25	2.42	0.5810
PALMIE	3	b	0	-0.00	30.71	0.91	0.9963
PIC	1	b	0	0.09	26.03	0.17	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMAR	1	b	5	0.47	30.41	2.71	0.0095
SCHMIT	1	b	4	0.73	13.33	4.12	0.0079
SHOHAT	4	b	12	0.19	64.12	0.02	0.1269
SOTOQU	1	b	0	0.42	46.33	2.92	0.0040
STANHO	1	b	0	-1.02	3.66	5.21	0.0507
STERN1	1	b	0	0.11	11.71	0.05	0.7107
STODDA	10	b	9	0.31	124.44	2.30	0.0006
STRACH	9	b	4	0.21	27.70	0.03	0.2759
TARIQ	12	b	1	-0.12	19.03	1.58	0.6112
TOMINA	2	b	0	-1.06	1.84	2.78	0.1515
WILLE1	7	b	0	0.68	6.06	1.55	0.0955
ZHENG	26	b	0	0.71	6.34	1.84	0.0739

RR data

	N	40
	NS	40
	Wt	1131.13
Het	Chi	71.20
Het	df	39
Het	P	**
Fixed	RR	1.19
	RRl	1.12
	RRu	1.26
	P	+++
Random	RR	1.18
	RRl	1.08
	RRu	1.29
	P	+++
Asymm	P	N.S.

Appendix Table A7 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

RR data

	N	40						
	NS	40						
	Wt	1131.13						
Het	Chi	71.20						
Het	df	39						
Het	P	**						
Fixed	RR	1.19						
	RR1	1.12						
	RRu	1.26						
	P	+++						
Random	RR	1.18						
	RR1	1.08						
	RRu	1.29						
	P	+++						
Asymm	P	N.S.						
			<u>Sex</u>					
	both		male	female			Total	
	N	40					40	
	NS	40					40	
	Wt	1131.13					1131.13	
Het	Chi	71.20					71.20	
Het	df	39					39	
Het	P	**					**	
Fixed	RR	1.19					1.19	
	RR1	1.12					1.12	
	RRu	1.26					1.26	
	P	+++					+++	
Random	RR	1.18					1.18	
	RR1	1.08					1.08	
	RRu	1.29					1.29	
	P	+++					+++	
Between	Chi							
Between	df							
Between	P						N.S.	
			<u>Continent</u>					
	NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total	
	N	9	2	17	9	2	1	40
	NS	9	2	17	9	2	1	40
	Wt	362.42	54.09	554.78	128.18	17.26	14.40	1131.13
Het	Chi	12.44	0.38	31.28	16.49	6.52	0.00	71.20
Het	df	8	1	16	8	1	0	39
Het	P	N.S.	N.S.	*	*	*	N.S.	**
Fixed	RR	1.19	1.47	1.18	1.08	1.18	1.41	1.19
	RR1	1.08	1.13	1.08	0.91	0.73	0.84	1.12
	RRu	1.32	1.92	1.28	1.29	1.89	2.36	1.26
	P	+++	++	+++	N.S.	N.S.	N.S.	+++
Random	RR	1.21	1.47	1.17	1.06	0.82	1.41	1.18
	RR1	1.04	1.13	1.02	0.76	0.19	0.84	1.08
	RRu	1.41	1.92	1.33	1.48	3.54	2.36	1.29
	P	+	++	+	N.S.	N.S.	N.S.	+++
Between	Chi							4.08
Between	df							5
Between	P							N.S.

Appendix Table A7 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Current Asthma						
		Adjusted						
		Country in Europe						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
RR data								
	N	4	3		7	3		17
	NS	4	3		7	3		17
	Wt	58.03	271.64		172.93	52.17		554.78
	Het Chi	3.42	2.39		18.09	6.90		31.28
	Het df	3	2		6	2		16
	Het P	N.S.	N.S.		**	*		*
Fixed	RR	1.13	1.21		1.14	1.18		1.18
	RR1	0.88	1.08		0.98	0.90		1.08
	RRu	1.46	1.37		1.33	1.54		1.28
	P	N.S.	++		(+)	N.S.		+++
Random	RR	1.14	1.21		1.16	1.19		1.17
	RR1	0.85	1.06		0.89	0.71		1.02
	RRu	1.51	1.38		1.53	2.01		1.33
	P	N.S.	++		N.S.	N.S.		+
Between	Chi							0.48
Between	df							3
Between	P							N.S.
		Country in Asia						
		FarEast	Cent/SE	MidlEast			Total	
	N	6		3				9
	NS	6		3				9
	Wt	63.24		64.94				128.18
	Het Chi	9.55		5.84				16.49
	Het df	5		2				8
	Het P	(*)		(*)				*
Fixed	RR	0.99		1.19				1.08
	RR1	0.77		0.93				0.91
	RRu	1.26		1.51				1.29
	P	N.S.		N.S.				N.S.
Random	RR	1.06		0.60				1.06
	RR1	0.71		0.07				0.76
	RRu	1.59		5.12				1.48
	P	N.S.		N.S.				N.S.
Between	Chi							1.10
Between	df							1
Between	P							N.S.
		Start year of study						
		<1970	1970-79	1980-89	1990+	unknown		Total
	N		3	11	24	2		40
	NS		3	11	24	2		40
	Wt		129.62	286.89	669.51	45.11		1131.13
	Het Chi		5.52	15.11	34.70	1.16		71.20
	Het df		2	10	23	1		39
	Het P		(*)	N.S.	(*)	N.S.		**
Fixed	RR		0.95	1.40	1.16	1.12		1.19
	RR1		0.80	1.24	1.08	0.83		1.12
	RRu		1.13	1.57	1.25	1.49		1.26
	P		N.S.	+++	+++	N.S.		+++
Random	RR		0.60	1.41	1.14	1.13		1.18
	RR1		0.27	1.19	1.03	0.82		1.08
	RRu		1.36	1.66	1.27	1.55		1.29
	P		N.S.	+++	+	N.S.		+++
Between	Chi							14.71
Between	df							3
Between	P							**

Appendix Table A7 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Current Asthma Adjusted				
		Publication year			2000+	Total
		<1990	1990-94	1995-99		
RR data	N	3	12	14	11	40
	NS	3	12	14	11	40
	Wt	17.20	295.52	547.26	271.13	1131.13
	Het Chi	4.88	28.36	11.86	18.69	71.20
	Het df	2	11	13	10	39
	Het P	(*)	**	N.S.	*	**
	Fixed RR	0.77	1.18	1.26	1.08	1.19
	RR1	0.48	1.06	1.16	0.96	1.12
	RRu	1.24	1.33	1.37	1.22	1.26
	P	N.S.	++	+++	N.S.	+++
	Random RR	0.60	1.28	1.26	1.09	1.18
	RR1	0.25	1.03	1.16	0.92	1.08
	RRu	1.44	1.61	1.37	1.30	1.29
	P	N.S.	+	+++	N.S.	+++
	Between Chi					7.41
	Between df					3
	Between P					(*)
		Study type				
		CC	Pr	CS	Total	
	N	14	5	21	40	
	NS	14	5	21	40	
	Wt	416.42	197.56	517.15	1131.13	
	Het Chi	19.69	10.56	37.74	71.20	
	Het df	13	4	20	39	
	Het P	N.S.	*	**	**	
	Fixed RR	1.27	1.12	1.15	1.19	
	RR1	1.15	0.97	1.06	1.12	
	RRu	1.40	1.28	1.25	1.26	
	P	+++	N.S.	++	+++	
	Random RR	1.29	1.23	1.10	1.18	
	RR1	1.12	0.92	0.96	1.08	
	RRu	1.49	1.65	1.26	1.29	
	P	+++	N.S.	N.S.	+++	
	Between Chi					3.20
	Between df					2
	Between P					N.S.
		Highest age in RR				
		0-9	10-14	15+	unknown	Total
	N	10	11	18	1	40
	NS	10	11	18	1	40
	Wt	250.30	478.82	390.36	11.64	1131.13
	Het Chi	15.11	9.06	35.92	0.00	71.20
	Het df	9	10	17	0	39
	Het P	(*)	N.S.	**	N.S.	**
	Fixed RR	1.33	1.08	1.22	1.96	1.19
	RR1	1.18	0.99	1.11	1.10	1.12
	RRu	1.51	1.18	1.35	3.48	1.26
	P	+++	N.S.	+++	+	+++
	Random RR	1.30	1.08	1.18	1.96	1.18
	RR1	1.08	0.99	1.00	1.10	1.08
	RRu	1.57	1.18	1.40	3.48	1.29
	P	++	N.S.	(+)	+	+++
	Between Chi					11.10
	Between df					3
	Between P					*

Appendix Table A7 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Current Asthma					
		Adjusted					
		Population setting					
		general	school	medical	allergy	other	Total
RR data							
	N	6	23	10	1		40
	NS	6	23	10	1		40
	Wt	229.15	727.87	172.28	1.82		1131.13
Het	Chi	14.90	35.72	17.40	0.00		71.20
Het	df	5	22	9	0		39
Het	P	*	*	*	N.S.		**
Fixed	RR	1.15	1.18	1.28	3.33		1.19
	RR1	1.01	1.09	1.10	0.78		1.12
	RRu	1.31	1.27	1.48	14.23		1.26
	P	+	+++	++	N.S.		+++
Random	RR	1.06	1.18	1.29	3.33		1.18
	RR1	0.82	1.06	1.02	0.78		1.08
	RRu	1.38	1.31	1.62	14.23		1.29
	P	N.S.	++	+	N.S.		+++
Between	Chi						3.17
Between	df						3
Between	P						N.S.
		<u>Respondent for smoking</u>					
		child	parent	med rec	mix/oth		Total
	N	4	25		11		40
	NS	4	25		11		40
	Wt	82.84	703.71		344.58		1131.13
Het	Chi	9.11	41.84		19.46		71.20
Het	df	3	24		10		39
Het	P	*	*		*		**
Fixed	RR	1.08	1.20		1.19		1.19
	RR1	0.87	1.11		1.07		1.12
	RRu	1.34	1.29		1.32		1.26
	P	N.S.	+++		++		+++
Random	RR	0.92	1.20		1.21		1.18
	RR1	0.52	1.07		1.00		1.08
	RRu	1.60	1.33		1.46		1.29
	P	N.S.	++		+		+++
Between	Chi						0.78
Between	df						2
Between	P						N.S.
		<u>Child smokers</u>					
		exc/none	included	ignored			Total
	N	6	8	26			40
	NS	6	8	26			40
	Wt	173.21	330.93	626.99			1131.13
Het	Chi	14.35	9.70	44.73			71.20
Het	df	5	7	25			39
Het	P	*	N.S.	**			**
Fixed	RR	1.13	1.13	1.24			1.19
	RR1	0.97	1.01	1.14			1.12
	RRu	1.31	1.25	1.34			1.26
	P	N.S.	+	+++			+++
Random	RR	0.96	1.16	1.23			1.18
	RR1	0.68	0.99	1.09			1.08
	RRu	1.34	1.35	1.38			1.29
	P	N.S.	(+)	+++			+++
Between	Chi						2.41
Between	df						2
Between	P						N.S.

Appendix Table A7 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Physician diagnosis (current)			Current Asthma Adjusted	
		yes	no/mix	Total		
RR data						
	N	16	24	40		
	NS	16	24	40		
	Wt	225.58	905.55	1131.13		
Het	Chi	35.01	36.18	71.20		
Het	df	15	23	39		
Het	P	**	*	**		
Fixed	RR	1.19	1.19	1.19		
	RRl	1.04	1.11	1.12		
	RRu	1.35	1.27	1.26		
	P	+	+++	+++		
Random	RR	1.23	1.18	1.18		
	RRl	0.98	1.07	1.08		
	RRu	1.53	1.29	1.29		
	P	(+)	+++	+++		
Between	Chi			0.00		
Between	df			1		
Between	P			N.S.		
	<u>Respondent for diagnosis (current)</u>					
		medrec	parent	child	mixed	Total
	N	11	21	8		40
	NS	11	21	8		40
	Wt	132.29	822.55	176.29		1131.13
Het	Chi	17.71	29.77	16.74		71.20
Het	df	10	20	7		39
Het	P	(*)	(*)	*		**
Fixed	RR	1.36	1.20	1.01		1.19
	RRl	1.15	1.12	0.88		1.12
	RRu	1.62	1.29	1.18		1.26
	P	+++	+++	N.S.		+++
Random	RR	1.37	1.20	0.97		1.18
	RRl	1.05	1.09	0.75		1.08
	RRu	1.78	1.32	1.26		1.29
	P	+	+++	N.S.		+++
Between	Chi					6.99
Between	df					2
Between	P					*
	<u>Questionnaire for symptoms</u>					
		ISAAC	ATS	other	Total	
	N	7	2	31	40	
	NS	7	2	31	40	
	Wt	383.91	135.83	611.38	1131.13	
Het	Chi	5.07	0.15	60.53	71.20	
Het	df	6	1	30	39	
Het	P	N.S.	N.S.	***	**	
Fixed	RR	1.26	1.00	1.19	1.19	
	RRl	1.14	0.85	1.10	1.12	
	RRu	1.40	1.18	1.28	1.26	
	P	+++	N.S.	+++	+++	
Random	RR	1.26	1.00	1.16	1.18	
	RRl	1.14	0.85	1.02	1.08	
	RRu	1.40	1.18	1.32	1.29	
	P	+++	N.S.	+	+++	
Between	Chi				5.45	
Between	df				2	
Between	P				(*)	

Appendix Table A7 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Current Asthma				Total
		Adjusted				
		Number of cases (current asthma)				
		1-50	51-100	101-200	201+	
RR data	N	7	8	11	14	40
	NS	7	8	11	14	40
	Wt	44.62	91.34	248.76	746.41	1131.13
	Het Chi	9.43	12.41	27.03	21.31	71.20
	Het df	6	7	10	13	39
	Het P	N.S.	(*)	**	(*)	**
Fixed	RR	1.15	1.09	1.17	1.21	1.19
	RRl	0.85	0.89	1.03	1.12	1.12
	RRu	1.54	1.34	1.32	1.30	1.26
	P	N.S.	N.S.	+	+++	+++
Random	RR	1.15	1.09	1.20	1.21	1.18
	RRl	0.79	0.82	0.97	1.09	1.08
	RRu	1.68	1.46	1.47	1.34	1.29
	P	N.S.	N.S.	(+)	+++	+++
Between	Chi					1.02
Between	df					3
Between	P					N.S.

Study adjusts for or is matched on sex

		Yes	No	Total
	N	29	11	40
	NS	29	11	40
	Wt	942.40	188.73	1131.13
	Het Chi	54.16	16.41	71.20
	Het df	28	10	39
	Het P	**	(*)	**
Fixed	RR	1.17	1.25	1.19
	RRl	1.10	1.08	1.12
	RRu	1.25	1.44	1.26
	P	+++	++	+++
Random	RR	1.17	1.20	1.18
	RRl	1.06	0.98	1.08
	RRu	1.30	1.47	1.29
	P	++	(+)	+++
Between	Chi			0.62
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on age

		Yes	No	Total
	N	23	17	40
	NS	23	17	40
	Wt	806.39	324.74	1131.13
	Het Chi	48.34	22.05	71.20
	Het df	22	16	39
	Het P	***	N.S.	**
Fixed	RR	1.17	1.24	1.19
	RRl	1.09	1.11	1.12
	RRu	1.25	1.38	1.26
	P	+++	+++	+++
Random	RR	1.16	1.22	1.18
	RRl	1.03	1.07	1.08
	RRu	1.31	1.41	1.29
	P	+	++	+++
Between	Chi			0.81
Between	df			1
Between	P			N.S.

Appendix Table A7 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

Current Asthma
Adjusted
Study adjusts for or is matched on race

	Yes	No	Total
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RR data

N	7	33	40
NS	7	33	40
Wt	368.33	762.79	1131.13
Het Chi	10.55	60.63	71.20
Het df	6	32	39
Het P	N.S.	**	**
Fixed RR	1.18	1.19	1.19
RRl	1.07	1.11	1.12
RRu	1.31	1.28	1.26
P	++	+++	+++
Random RR	1.19	1.18	1.18
RRl	1.02	1.05	1.08
RRu	1.40	1.31	1.29
P	+	++	+++
Between Chi			0.02
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	16	24	40
NS	16	24	40
Wt	750.81	380.32	1131.13
Het Chi	34.16	36.95	71.20
Het df	15	23	39
Het P	**	*	**
Fixed RR	1.18	1.20	1.19
RRl	1.10	1.09	1.12
RRu	1.27	1.33	1.26
P	+++	+++	+++
Random RR	1.17	1.20	1.18
RRl	1.03	1.05	1.08
RRu	1.32	1.38	1.29
P	+	++	+++
Between Chi			0.08
Between df			1
Between P			N.S.

Study adjusts for or is matched on SES

N	16	24	40
NS	16	24	40
Wt	755.58	375.55	1131.13
Het Chi	30.01	41.03	71.20
Het df	15	23	39
Het P	*	*	**
Fixed RR	1.18	1.21	1.19
RRl	1.10	1.09	1.12
RRu	1.26	1.34	1.26
P	+++	+++	+++
Random RR	1.18	1.18	1.18
RRl	1.05	1.01	1.08
RRu	1.32	1.36	1.29
P	++	+	+++
Between Chi			0.15
Between df			1
Between P			N.S.

Appendix Table A7 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

Current Asthma
Adjusted
Study adjusts for family medical history

	Yes	No	Total
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RR data

N	14	26	40
NS	14	26	40
Wt	600.19	530.93	1131.13
Het Chi	22.20	49.00	71.20
Het df	13	25	39
Het P	(*)	**	**
Fixed RR	1.19	1.19	1.19
RRl	1.09	1.09	1.12
RRu	1.28	1.29	1.26
P	+++	+++	+++
Random RR	1.21	1.14	1.18
RRl	1.08	1.00	1.08
RRu	1.37	1.31	1.29
P	++	(+)	+++
Between Chi			0.00
Between df			1
Between P			N.S.

Study adjusts for family composition

N	8	32	40
NS	8	32	40
Wt	432.62	698.51	1131.13
Het Chi	17.64	49.50	71.20
Het df	7	31	39
Het P	*	*	**
Fixed RR	1.10	1.24	1.19
RRl	1.00	1.16	1.12
RRu	1.21	1.34	1.26
P	+	+++	+++
Random RR	1.07	1.23	1.18
RRl	0.91	1.11	1.08
RRu	1.26	1.37	1.29
P	N.S.	+++	+++
Between Chi			4.06
Between df			1
Between P			*

Study adjusts for cooking, heating, air conditioning

N	7	33	40
NS	7	33	40
Wt	443.71	687.41	1131.13
Het Chi	13.38	57.64	71.20
Het df	6	32	39
Het P	*	**	**
Fixed RR	1.21	1.18	1.19
RRl	1.10	1.09	1.12
RRu	1.32	1.27	1.26
P	+++	+++	+++
Random RR	1.28	1.14	1.18
RRl	1.09	1.02	1.08
RRu	1.49	1.28	1.29
P	++	+	+++
Between Chi			0.18
Between df			1
Between P			N.S.

Appendix Table A7 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

Current Asthma

Adjusted

Study adjusts for housing quality, crowding, damp, mould

Yes No Total

RR data

N	8	32	40
NS	8	32	40
Wt	435.06	696.06	1131.13
Het Chi	5.11	64.55	71.20
Het df	7	31	39
Het P	N.S.	***	**
Fixed RR	1.24	1.15	1.19
RRl	1.13	1.07	1.12
RRu	1.37	1.24	1.26
P	+++	+++	+++
Random RR	1.24	1.15	1.18
RRl	1.13	1.02	1.08
RRu	1.37	1.31	1.29
P	+++	+	+++
Between Chi			1.54
Between df			1
Between P			N.S.

Study adjusts for pets, animal contact, farming

N	6	34	40
NS	6	34	40
Wt	152.99	978.13	1131.13
Het Chi	8.03	61.03	71.20
Het df	5	33	39
Het P	N.S.	**	**
Fixed RR	1.33	1.17	1.19
RRl	1.13	1.10	1.12
RRu	1.55	1.24	1.26
P	+++	+++	+++
Random RR	1.36	1.15	1.18
RRl	1.09	1.04	1.08
RRu	1.69	1.27	1.29
P	++	++	+++
Between Chi			2.13
Between df			1
Between P			N.S.

Study adjusts for child's medical history

N	10	30	40
NS	10	30	40
Wt	167.48	963.65	1131.13
Het Chi	13.90	56.05	71.20
Het df	9	29	39
Het P	N.S.	**	**
Fixed RR	1.29	1.17	1.19
RRl	1.11	1.10	1.12
RRu	1.50	1.25	1.26
P	++	+++	+++
Random RR	1.30	1.15	1.18
RRl	1.07	1.04	1.08
RRu	1.59	1.27	1.29
P	++	++	+++
Between Chi			1.25
Between df			1
Between P			N.S.

Appendix Table A7 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Current Asthma			
		Adjusted			
		<u>Study adjusts for in utero exposure</u>			
		Yes	No	Total	
RR data					
	N	6	34	40	
	NS	6	34	40	
	Wt	300.70	830.42	1131.13	
	Het Chi	5.74	65.39	71.20	
	Het df	5	33	39	
	Het P	N.S.	***	**	
Fixed	RR	1.20	1.18	1.19	
	RR1	1.08	1.10	1.12	
	RRu	1.35	1.26	1.26	
	P	++	+++	+++	
Random	RR	1.20	1.19	1.18	
	RR1	1.05	1.06	1.08	
	RRu	1.36	1.32	1.29	
	P	++	++	+++	
Between	Chi			0.08	
Between	df			1	
Between	P			N.S.	
		<u>Study adjusts for in life exposure</u>			
	N	12	28	40	
	NS	12	28	40	
	Wt	534.76	596.37	1131.13	
	Het Chi	12.63	53.64	71.20	
	Het df	11	27	39	
	Het P	N.S.	**	**	
Fixed	RR	1.27	1.12	1.19	
	RR1	1.17	1.03	1.12	
	RRu	1.39	1.21	1.26	
	P	+++	++	+++	
Random	RR	1.27	1.13	1.18	
	RR1	1.16	0.99	1.08	
	RRu	1.40	1.28	1.29	
	P	+++	(+)	+++	
Between	Chi			4.93	
Between	df			1	
Between	P			*	
		<u>Exposed group : who is smoker</u>			
		AnyPar	Mother	Father	Total
	N	16	22	2	40
	NS	16	22	2	40
	Wt	495.89	601.42	33.82	1131.13
	Het Chi	18.03	48.29	0.73	71.20
	Het df	15	21	1	39
	Het P	N.S.	***	N.S.	**
Fixed	RR	1.21	1.19	0.84	1.19
	RR1	1.11	1.10	0.60	1.12
	RRu	1.32	1.29	1.18	1.26
	P	+++	+++	N.S.	+++
Random	RR	1.21	1.19	0.84	1.18
	RR1	1.09	1.03	0.60	1.08
	RRu	1.34	1.38	1.18	1.29
	P	+++	+	N.S.	+++
Between	Chi				4.14
Between	df				2
Between	P				N.S.

Appendix Table A7 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Current Asthma					
		Adjusted					
		Exposed group : when Exposed					
		lif/ev	age<7y	current	unspec	other	Total
RR data	N	8	2	14	15	1	40
	NS	8	2	14	15	1	40
	Wt	249.38	43.15	543.70	272.72	22.17	1131.13
Het	Chi	13.05	0.00	21.05	23.80	0.00	71.20
Het	df	7	1	13	14	0	39
Het	P	(*)	N.S.	(*)	*	N.S.	**
Fixed	RR	1.00	1.64	1.22	1.22	1.47	1.19
	RRl	0.89	1.22	1.13	1.08	0.97	1.12
	RRu	1.14	2.21	1.33	1.37	2.23	1.26
	P	N.S.	++	+++	++	(+)	+++
Random	RR	1.04	1.64	1.18	1.23	1.47	1.18
	RRl	0.85	1.22	1.04	1.03	0.97	1.08
	RRu	1.28	2.21	1.34	1.46	2.23	1.29
	P	N.S.	++	+	+	(+)	+++
Between	Chi						13.29
Between	df						4
Between	P						**
		Unexposed group : who is smoker					
		NoHhMemb	NoParent	NotSpPar	Total		
	N	4	16	20	40		
	NS	4	16	20	40		
	Wt	29.63	495.89	605.60	1131.13		
Het	Chi	4.77	18.03	44.63	71.20		
Het	df	3	15	19	39		
Het	P	N.S.	N.S.	***	**		
Fixed	RR	0.84	1.21	1.19	1.19		
	RRl	0.59	1.11	1.10	1.12		
	RRu	1.20	1.32	1.29	1.26		
	P	N.S.	+++	+++	+++		
Random	RR	0.85	1.21	1.19	1.18		
	RRl	0.52	1.09	1.03	1.08		
	RRu	1.40	1.34	1.37	1.29		
	P	N.S.	+++	+	+++		
Between	Chi				3.77		
Between	df				2		
Between	P				N.S.		
		Unexposed group : time					
		non	never	non+othr	Total		
	N	34	6		40		
	NS	34	6		40		
	Wt	693.98	437.14		1131.13		
Het	Chi	53.73	12.87		71.20		
Het	df	33	5		39		
Het	P	*	*		**		
Fixed	RR	1.25	1.10		1.19		
	RRl	1.16	1.00		1.12		
	RRu	1.35	1.20		1.26		
	P	+++	(+)		+++		
Random	RR	1.23	1.06		1.18		
	RRl	1.11	0.89		1.08		
	RRu	1.37	1.25		1.29		
	P	+++	N.S.		+++		
Between	Chi				4.60		
Between	df				1		
Between	P				*		

Appendix Table A7 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Current Asthma						
		Adjusted						
		Number of adjustment variables						
		0	1	2	3-5	6-9	10+	Total
RR data								
	N	18	3		7	7	5	40
	NS	18	3		7	7	5	40
	Wt	263.29	48.65		142.94	221.10	455.15	1131.13
	Het Chi	28.43	1.74		14.37	19.34	6.35	71.20
	Het df	17	2		6	6	4	39
	Het P	*	N.S.		*	**	N.S.	**
	Fixed RR	1.18	1.09		1.26	1.20	1.17	1.19
	RR1	1.05	0.83		1.07	1.05	1.07	1.12
	RRu	1.33	1.45		1.49	1.37	1.28	1.26
	P	++	N.S.		++	++	+++	+++
	Random RR	1.14	1.09		1.29	1.19	1.18	1.18
	RR1	0.96	0.83		0.98	0.89	1.05	1.08
	RRu	1.36	1.45		1.68	1.60	1.33	1.29
	P	N.S.	N.S.		(+)	N.S.	++	+++
	Between Chi							0.97
	Between df							4
	Between P							N.S.

RR adjusted for sex

		Yes	No	Total
	N	19	21	40
	NS	19	21	40
	Wt	819.18	311.94	1131.13
	Het Chi	40.65	30.42	71.20
	Het df	18	20	39
	Het P	**	(*)	**
	Fixed RR	1.20	1.17	1.19
	RR1	1.12	1.04	1.12
	RRu	1.28	1.30	1.26
	P	+++	++	+++
	Random RR	1.21	1.14	1.18
	RR1	1.08	0.98	1.08
	RRu	1.36	1.32	1.29
	P	++	(+)	+++
	Between Chi			0.12
	Between df			1
	Between P			N.S.

RR adjusted for age

		Yes	No	Total
	N	14	26	40
	NS	14	26	40
	Wt	687.06	444.06	1131.13
	Het Chi	33.33	36.94	71.20
	Het df	13	25	39
	Het P	**	(*)	**
	Fixed RR	1.16	1.23	1.19
	RR1	1.08	1.12	1.12
	RRu	1.25	1.35	1.26
	P	+++	+++	+++
	Random RR	1.15	1.21	1.18
	RR1	1.00	1.07	1.08
	RRu	1.32	1.37	1.29
	P	+	++	+++
	Between Chi			0.93
	Between df			1
	Between P			N.S.

Appendix Table A7 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

Current Asthma
AdjustedRR adjusted for other ETS
Yes No Total

RR data

N	7	33	40
NS	7	33	40
Wt	488.09	643.03	1131.13
Het Chi	5.40	62.07	71.20
Het df	6	32	39
Het P	N.S.	**	**
Fixed RR	1.27	1.13	1.19
RRl	1.16	1.05	1.12
RRu	1.39	1.22	1.26
P	+++	++	+++
Random RR	1.27	1.15	1.18
RRl	1.16	1.02	1.08
RRu	1.39	1.30	1.29
P	+++	+	+++
Between Chi			3.73
Between df			1
Between P			(*)

RR adjusted for factor other than sex, age, other ETS

N	21	19	40
NS	21	19	40
Wt	848.80	282.32	1131.13
Het Chi	41.13	29.85	71.20
Het df	20	18	39
Het P	**	*	**
Fixed RR	1.20	1.16	1.19
RRl	1.12	1.03	1.12
RRu	1.28	1.30	1.26
P	+++	+	+++
Random RR	1.21	1.12	1.18
RRl	1.08	0.95	1.08
RRu	1.35	1.32	1.29
P	+++	N.S.	+++
Between Chi			0.22
Between df			1
Between P			N.S.

Derivation of RR/CI

	Original	Numbers	SumNumbs	Other	Total
N	13	8	6	13	40
NS	13	8	6	13	40
Wt	512.25	134.97	104.23	379.67	1131.13
Het Chi	13.61	8.53	12.41	30.73	71.20
Het df	12	7	5	12	39
Het P	N.S.	N.S.	*	**	**
Fixed RR	1.27	1.20	1.15	1.08	1.19
RRl	1.17	1.02	0.95	0.98	1.12
RRu	1.39	1.43	1.39	1.20	1.26
P	+++	+	N.S.	N.S.	+++
Random RR	1.28	1.18	1.11	1.12	1.18
RRl	1.15	0.97	0.80	0.93	1.08
RRu	1.41	1.43	1.54	1.35	1.29
P	+++	(+)	N.S.	N.S.	+++
Between Chi					5.93
Between df					3
Between P					N.S.

Appendix Table A7 - 4

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Unadjusted

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	7	x	b	6	7	all	Eu:Ita	1994	1999	CC	0	AnyPar	NoParent	current	never
AGABI2	7	x	b	13	14	all	Eu:Ita	1994	1999	CC	0	AnyPar	NoParent	current	never
ARSHAD	1		b	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non
CHEN2	21	x	b	6	17	all	NAmer	1993	1996	CS	0	Mother	NotMothr	ever	never
DAIGLE	1	x	b	0	*	all	NAmer	1986	1991	CC	0	Mother	NotMothr	unspec	non
FAGBUL	1	x	b	0	18	all	Africa	*	1994	CC	0	AnyPar	NoParent	unspec	non
GILLIL	36		b	7	19	all	NAmer	1993	2001	CS	8	Mother	NoHhMemb	current	non
GOLD	7		b	6	14	all	NAmer	1974	1993	Pr	11	Mother	NotMothr	ever	never
HABY	2	x	b	3	5	all	Auslia	1995	2001	CS	0	AnyPar	NoParent	<6m	non
HJERN1	5	x	b	3	15	all	Eu:Sca	1996	2001	CS	0	Mother	NotMothr	ever	never
HJERN2	5	x	b	3	15	all	Eu:Sca	1996	2001	CS	0	Father	NotFathr	ever	never
HOST	1		b	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non
HU1	2	x	b	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non
HU2	22		b	20	22	all	NAmer	1986	1997	Pr	0	AnyPar	LowParnt	13-15y	non
INFANT	3	x	b	3	4	all	NAmer	1988	1993	CC	0	Mother	NotMothr	in life	non
JONES	2		b	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non
LAM1	20		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	12		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LAU	1		b	3	10	all	As:FE	1989	1995	CS	0	AnyPar	NoParent	current	non
LEEN	1		b	9	9	all	Eu:wst	1991	1994	CC	0	AnyPar	NoParent	unspec	non
LILLJE	1		b	7	10	all	Eu:Sca	1991	1997	CS	0	AnyPar	NoParent	unspec	non
LINDFO	1		b	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non
MOUSSA	1		b	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCUO	2		b	3	15	all	As:ME	1986	1994	CC	0	Mother	NotMothr	unspec	non
OHARA	5	x	b	3	12	all	As:FE	2001	2002	CS	0	AnyPar	NoParent	current	non
PALMIE	3		b	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non
PIC	1		b	5	15	all	Eu:wst	1999	2002	CS	0	AnyPar	NoParent	unspec	non
RIBEIR	1		b	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non
RONMAR	1		b	7	8	all	Eu:Sca	1996	2002	Pr	5	Mother	NotMothr	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHOHAT	2	x	b	13	14	all	As:ME	1997	2002	CS	0	Mother	NotMothr	unspec	non
SOTOQU	1		b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non
STANHO	1		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
STERN1	1		b	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non
STODDA	5	x	b	0	17	all	NAmer	1986	1995	CS	0	Mother	NotMothr	current	non
STRACH	3	x	b	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	current	non
TARIQ	10	x	b	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	NotMothr	in life	non
TOMINA	2		b	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non
WILLE1	7		b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non
ZHENG	26		b	6	10	all	As:FE	1999	2002	CC	0	Mother	NotMothr	in life	non

Appendix Table A7 - 5

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	7	b	0	558	8013	148	2825	1.33	(1.10- 1.60)
AGABI2	7	b	0	700	7742	203	2837	1.26	(1.07- 1.49)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80- 14.60)
CHEN2	21	b	0	37	392	37	426	1.09	(0.68- 1.75)
DAIGLE	1	b	0	51	72	86	174	1.43	(0.92- 2.23)
FAGBUL	1	b	0	81	55	59	85	2.12	(1.32- 3.42)
GILLIL	36	b	8	-	-	-	-	0.90	(0.50- 1.50)
GOLD	7	b	11	-	-	-	-	0.99	(0.83- 1.18)
HABY	2	b	0	86	299	104	485	1.34	(0.97- 1.85)
HJERN1	5	b	0	61	1346	58	1078	0.84	(0.58- 1.22)
HJERN2	5	b	0	44	977	34	884	1.17	(0.74- 1.85)
HOST	1	b	0	20	457	14	285	0.89	(0.44- 1.79)
HU1	6	b	0	28	148	44	238	1.02	(0.61- 1.71)
HU2	22	b	0	34	258	84	1100	1.73	(1.13- 2.63)
INFANT	3	b	0	183	167	273	289	1.16	(0.89- 1.52)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
LAM1	20	b	4	-	-	35	-	2.13	(0.72- 6.33)
LAM2	12	b	4	-	-	-	-	0.69	(0.39- 1.22)
LAU	1	b	0	19	247	9	158	1.35	(0.60- 3.06)
LEEN	1	b	0	46	45	69	51	0.76	(0.44- 1.31)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81- 1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15- 2.37)
MOUSSA	1	b	0	1	0	202	203	3.01~	(0.12- 74.44)
MUMCUO	2	b	0	0	4	300	96	0.04~	(0.00- 0.67)
OHARA	5	b	0	82	1214	59	786	0.90	(0.64- 1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70- 1.42)
PIC	1	b	0	51	829	60	1069	1.10	(0.75- 1.61)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59- 2.41)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12- 2.28)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SHOHAT	2	b	0	187	1762	493	7207	1.55	(1.30- 1.85)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14- 2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13- 1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63- 1.98)
STODDA	5	b	0	224	1779	443	4826	1.37	(1.16- 1.63)
STRACH	3	b	0	122	93	364	382	1.38	(1.01- 1.87)
TARIQ	10	b	0	48	259	133	778	1.08	(0.76- 1.55)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
ZHENG	26	b	0	13	13	390	793	2.03	(0.93- 4.43)
Partial Totals				3319	28217	4655	32324		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	7	b	0	0.28	110.77	0.40	0.0027
AGABI2	7	b	0	0.23	146.28	0.01	0.0047
ARSHAD	1	b	7	1.20	1.82	1.74	0.1044
CHEN2	21	b	0	0.08	16.96	0.34	0.7319
DAIGLE	1	b	0	0.36	19.66	0.36	0.1106
FAGBUL	1	b	0	0.75	16.88	4.70	0.0020
GILLIL	36	b	8	-0.11	12.73	1.39	0.7070
GOLD	7	b	11	-0.01	124.12	6.84	0.9108
HABY	2	b	0	0.29	37.52	0.18	0.0720
HJERN1	5	b	0	-0.17	28.32	4.45	0.3611
HJERN2	5	b	0	0.16	18.42	0.08	0.4983
HOST	1	b	0	-0.12	7.87	0.91	0.7459
HU1	6	b	0	0.02	14.41	0.59	0.9302
HU2	22	b	0	0.55	21.69	2.23	0.0110
INFANT	3	b	0	0.15	53.83	0.31	0.2761
JONES	2	b	0	0.16	9.47	0.04	0.6266
LAM1	20	b	4	0.76	3.25	0.92	0.1727
LAM2	12	b	4	-0.37	11.81	4.19	0.2022
LAU	1	b	0	0.30	5.74	0.03	0.4716
LEEN	1	b	0	-0.28	12.81	3.27	0.3157
LILLJE	1	b	0	0.09	42.18	0.82	0.5801
LINDFO	1	b	0	0.50	29.55	2.25	0.0065
MOUSSA	1	b	0	1.10	0.37	0.29	0.5000

Appendix Table A7 - 5

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
MUMCUO	2	b	0	-3.33	0.45	5.66	0.0258
OHARA	5	b	0	-0.11	32.01	3.49	0.5504
PALMIE	3	b	0	-0.00	30.71	1.56	0.9963
PIC	1	b	0	0.09	26.03	0.46	0.6397
RIBEIR	1	b	0	0.18	7.76	0.01	0.6116
RONMAR	1	b	5	0.47	30.41	1.83	0.0095
SCHMIT	1	b	4	0.73	13.33	3.37	0.0079
SHOHAT	2	b	0	0.44	123.73	5.69	0.0000
SOTOQU	1	b	0	0.42	46.33	1.82	0.0040
STANHO	1	b	0	-1.02	3.66	5.68	0.0507
STERN1	1	b	0	0.11	11.71	0.16	0.7107
STODDA	5	b	0	0.32	133.49	1.11	0.0003
STRACH	3	b	0	0.32	41.13	0.37	0.0403
TARIQ	10	b	0	0.08	29.85	0.62	0.6591
TOMINA	2	b	0	-1.06	1.84	3.02	0.1515
WILLE1	7	b	0	0.68	6.06	1.24	0.0955
ZHENG	26	b	0	0.71	6.34	1.49	0.0739

RR data

	N	40
	NS	40
	Wt	1291.33
Het	Chi	73.94
Het	df	39
Het	P	***
Fixed	RR	1.25
	RRl	1.19
	RRu	1.32
	P	+++
Random	RR	1.23
	RRl	1.13
	RRu	1.34
	P	+++
Asymm	P	N.S.

Appendix Table A7 - 6

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Unadjusted

RR data

	N	40							
	NS	40							
	Wt	1291.33							
	Het Chi	73.94							
	Het df	39							
	Het P	***							
Fixed	RR	1.25							
	RR1	1.19							
	RRu	1.32							
	P	+++							
Random	RR	1.23							
	RR1	1.13							
	RRu	1.34							
	P	+++							
Asymm	P	N.S.							
			<u>Sex</u>						
			both	male	female		Total		
	N	40					40		
	NS	40					40		
	Wt	1291.33					1291.33		
	Het Chi	73.94					73.94		
	Het df	39					39		
	Het P	***					***		
Fixed	RR	1.25					1.25		
	RR1	1.19					1.19		
	RRu	1.32					1.32		
	P	+++					+++		
Random	RR	1.23					1.23		
	RR1	1.13					1.13		
	RRu	1.34					1.34		
	P	+++					+++		
Between	Chi								
Between	df								
Between	P						N.S.		
			<u>Continent</u>						
			NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	9	2	17	9	2	1	40	
	NS	9	2	17	9	2	1	40	
	Wt	408.61	54.09	585.02	185.55	41.18	16.88	1291.33	
	Het Chi	12.11	0.38	23.40	24.19	5.77	0.00	73.94	
	Het df	8	1	16	8	1	0	39	
	Het P	N.S.	N.S.	N.S.	**	*	N.S.	***	
Fixed	RR	1.19	1.47	1.24	1.33	1.19	2.12	1.25	
	RR1	1.08	1.13	1.15	1.15	0.88	1.32	1.19	
	RRu	1.31	1.92	1.35	1.53	1.62	3.42	1.32	
	P	+++	++	+++	+++	N.S.	++	+++	
Random	RR	1.19	1.47	1.23	1.11	0.76	2.12	1.23	
	RR1	1.04	1.13	1.11	0.75	0.21	1.32	1.13	
	RRu	1.36	1.92	1.37	1.65	2.73	3.42	1.34	
	P	+	++	+++	N.S.	N.S.	++	+++	
Between	Chi							8.09	
Between	df							5	
Between	P							N.S.	

Appendix Table A7 - 6

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)

		Current Asthma Unadjusted					
		Start year of study			1990+	unknown	Total
		<1970	1970-79	1980-89			
RR data	N		3	11	24	2	40
	NS		3	11	24	2	40
	Wt	129.62	342.16	771.97	47.59		1291.33
	Het Chi	5.52	14.38	35.19	6.18		73.94
	Het df	2	10	23	1		39
	Het P	(*)	N.S.	*	*		***
Fixed	RR	0.95	1.36	1.26	1.31		1.25
	RRl	0.80	1.23	1.17	0.98		1.19
	RRu	1.13	1.52	1.35	1.73		1.32
	P	N.S.	+++	+++	(+)		+++
Random	RR	0.60	1.37	1.22	1.43		1.23
	RRl	0.27	1.19	1.10	0.68		1.13
	RRu	1.36	1.59	1.34	2.99		1.34
	P	N.S.	+++	+++	N.S.		+++
Between	Chi						12.68
Between	df						3
Between	P						**
		Study type					
		CC	Pr	CS	Total		
	N	14	5	21	40		
	NS	14	5	21	40		
	Wt	484.31	207.90	599.12	1291.33		
	Het Chi	21.28	11.84	38.72	73.94		
	Het df	13	4	20	39		
	Het P	(*)	*	**	***		
Fixed	RR	1.30	1.15	1.25	1.25		
	RRl	1.19	1.01	1.15	1.19		
	RRu	1.42	1.32	1.35	1.32		
	P	+++	+	+++	+++		
Random	RR	1.31	1.32	1.16	1.23		
	RRl	1.15	0.98	1.02	1.13		
	RRu	1.50	1.76	1.32	1.34		
	P	+++	(+)	+	+++		
Between	Chi				2.10		
Between	df				2		
Between	P				N.S.		

Appendix Table A7 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	CALL	CHHABR	CLARK	DEKKER	DIJKST	DOTTER	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	JAAKKO	KALYO1	KALYO2
	KARUNA	KNIGHT	LEE1	LEE2	MELIA	MELSOM	NHANE3	NITTA	PETERS	SARRAZ	SELCUK	WANG	WILLE2	WOLFO1	WOLFO2	WOLFO3
	YANG															
3	BERGMA	CSONKA	EHRLI1	OLIVET	WEITZ1	WEITZ2										
4	CHINN	SOMERV														
5	AZIZI	BALL	CUNNI1	DEKOK	HUGHES	LOPEZC	MCCON2	MOHAME	STERN2							

Appendix Table A7 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL
HJERN1	HJERN1	1	HJERN1/HJERN2
HJERN2	HJERN2	1	HJERN1/HJERN2
STERN1	STERN1	1	STERN1/STERN2

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ARSHAD	7	b	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non	*	n
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	*	n
BALL	1	b	6	13	all	NAmer	1980	2000	Pr	0	AnyPar	NoParent	unspec	non	*	n
CUNNI1	11	b	8	11	all	NAmer	1988	1996	CS	9	Mother	NotMothr	current	non	0.84	?
DEKOK	1	b	6	12	all	Eu:wst	1993	1996	CS	6	Mother	NotMothr	unspec	non	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	*	n
LOPEZC	3	b	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	1.06	n
MCCON2	4	b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non	*	n
MOHAME	2	b	9	11	all	Africa	1990	1995	CC	0	Mother	NotMothr	unspec	non	*	n
PALMIE	10	b	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non	*	y
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	0.98	n
STRACH	15	b	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	<1m	non	*	y

Appendix Table A8 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : none in household, neither parent, not specific parent
- 9) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A7 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A8 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

REF	NRR	CompA7	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	14		b	6	7	all	Eu:Ita	1994	1999	CC	11	AnyPar	NoParent	current	never
AGABI2	14		b	13	14	all	Eu:Ita	1994	1999	CC	12	AnyPar	NoParent	current	never
ARSHAD	1		b	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non
CHEN2	47		b	6	17	all	NAmer	1993	1996	CS	1	Mother	NotMothr	ever	never
DAIGLE	3		b	0	*	all	NAmer	1986	1991	CC	7	Mother	NotMothr	unspec	non
FAGBUL	2		b	0	18	all	Africa	*	1994	CC	1	AnyPar	NoParent	unspec	non
GILLIL	36		b	7	19	all	NAmer	1993	2001	CS	8	Mother	NoHhMemb	current	non
GOLD	7		b	6	14	all	NAmer	1974	1993	Pr	11	Mother	NotMothr	ever	never
HABY	4		b	3	5	all	Auslia	1995	2001	CS	9	AnyPar	NoParent	<6m	non
HJERN1	13		b	3	15	all	Eu:Sca	1996	2001	CS	9	Mother	NotMothr	ever	never
HJERN2	13		b	3	15	all	Eu:Sca	1996	2001	CS	9	Father	NotFathr	ever	never
HOST	1		b	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non
HU1	6		b	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non
HU2	24		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non
INFANT	10		b	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non
JONES	2		b	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non
LAM1	20		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	12		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LAU	1		b	3	10	all	As:FE	1989	1995	CS	0	AnyPar	NoParent	current	non
LEEN	1		b	9	9	all	Eu:wst	1991	1994	CC	0	AnyPar	NoParent	unspec	non
LILLJE	1		b	7	10	all	Eu:Sca	1991	1997	CS	0	AnyPar	NoParent	unspec	non
LINDFO	1		b	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non
MOUSSA	1		b	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCUO	2		b	3	15	all	As:ME	1986	1994	CC	0	Mother	NotMothr	unspec	non
OHARA	6		b	3	12	all	As:FE	2001	2002	CS	4	AnyPar	NoParent	current	non
PALMIE	3		b	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non
PIC	1		b	5	15	all	Eu:wst	1999	2002	CS	0	AnyPar	NoParent	unspec	non
RIBEIR	1		b	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non
RONMAR	1		b	7	8	all	Eu:Sca	1996	2002	Pr	5	Mother	NotMothr	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHOHAT	4		b	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non
SOTOQU	1		b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non
STANHO	1		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
STERN1	1		b	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non
STODDA	10		b	0	17	all	NAmer	1986	1995	CS	9	Mother	NotMothr	current	non
STRACH	9		b	13	18	all	Eu:UK	1993	1995	CC	4	Mother	NotMothr	current	non
TARIQ	12		b	4	4	all	Eu:UK	1989	2000	Pr	1	Mother	NotMothr	in life	non
TOMINA	2		b	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non
WILLE1	7		b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non
ZHENG	26		b	6	10	all	As:FE	1999	2002	CC	0	Mother	NotMothr	in life	non

Appendix Table A8 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	14	b	11	558	-	148	-	1.34	(1.11- 1.62)
AGABI2	14	b	12	700	-	203	-	1.17	(0.99- 1.39)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80- 14.60)
CHEN2	47	b	1	37	-	37	-	1.11	(0.67- 1.83)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10- 3.47)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84- 2.36)
GILLIL	36	b	8	-	-	-	-	0.90	(0.50- 1.50)
GOLD	7	b	11	-	-	-	-	0.99	(0.83- 1.18)
HABY	4	b	9	86	-	104	-	1.62	(0.95- 2.75)
HJERN1	13	b	9	61	-	58	-	0.72	(0.52- 1.01)
HJERN2	13	b	9	44	-	34	-	0.94	(0.62- 1.43)
HOST	1	b	0	20	457	14	285	0.89	(0.44- 1.79)
HU1	6	b	0	28	148	44	238	1.02	(0.61- 1.71)
HU2	24	b	3	34	-	84	-	1.47	(0.97- 2.23)
INFANT	10	b	19	183	-	273	-	1.40	(0.95- 2.05)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
LAM1	20	b	4	-	-	35	-	2.13	(0.72- 6.33)
LAM2	12	b	4	-	-	-	-	0.69	(0.39- 1.22)
LAU	1	b	0	19	247	9	158	1.35	(0.60- 3.06)
LEEN	1	b	0	46	45	69	51	0.76	(0.44- 1.31)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81- 1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15- 2.37)
MOUSSA	1	b	0	1	0	202	203	3.01~	(0.12- 74.44)
MUMCUO	2	b	0	0	4	300	96	0.04~	(0.00- 0.67)
OHARA	6	b	4	82	-	59	-	0.91	(0.65- 1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70- 1.42)
PIC	1	b	0	51	829	60	1069	1.10	(0.75- 1.61)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59- 2.41)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12- 2.28)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95- 1.55)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14- 2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13- 1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63- 1.98)
STODDA	10	b	9	224	-	443	-	1.36	(1.14- 1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85- 1.79)
TARIQ	12	b	1	48	-	133	-	0.89	(0.57- 1.40)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
ZHENG	26	b	0	13	13	390	793	2.03	(0.93- 4.43)
Partial Totals				3319	3789	4655	8162		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	14	b	11	0.29	107.50	1.57	0.0024
AGABI2	14	b	12	0.16	133.43	0.03	0.0697
ARSHAD	1	b	7	1.20	1.82	1.94	0.1044
CHEN2	47	b	1	0.10	15.22	0.07	0.6839
DAIGLE	3	b	7	0.67	11.64	2.93	0.0217
FAGBUL	2	b	1	0.34	14.40	0.43	0.1923
GILLIL	36	b	8	-0.11	12.73	0.98	0.7070
GOLD	7	b	11	-0.01	124.12	4.10	0.9108
HABY	4	b	9	0.48	13.60	1.31	0.0752
HJERN1	13	b	9	-0.33	34.86	8.72	0.0524
HJERN2	13	b	9	-0.06	22.00	1.20	0.7716
HOST	1	b	0	-0.12	7.87	0.65	0.7459
HU1	6	b	0	0.02	14.41	0.32	0.9302
HU2	24	b	3	0.39	22.17	1.01	0.0697
INFANT	10	b	19	0.34	25.97	0.71	0.0864
JONES	2	b	0	0.16	9.47	0.00	0.6266
LAM1	20	b	4	0.76	3.25	1.11	0.1727
LAM2	12	b	4	-0.37	11.81	3.48	0.2022
LAU	1	b	0	0.30	5.74	0.10	0.4716
LEEN	1	b	0	-0.28	12.81	2.62	0.3157
LILLJE	1	b	0	0.09	42.18	0.32	0.5801
LINDFO	1	b	0	0.50	29.55	3.20	0.0065
MOUSSA	1	b	0	1.10	0.37	0.32	0.5000

Appendix Table A8 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
MUMCUO	2	b	0	-3.33	0.45	5.49	0.0258
OHARA	6	b	4	-0.09	34.25	2.42	0.5810
PALMIE	3	b	0	-0.00	30.71	0.91	0.9963
PIC	1	b	0	0.09	26.03	0.17	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMAR	1	b	5	0.47	30.41	2.71	0.0095
SCHMIT	1	b	4	0.73	13.33	4.12	0.0079
SHOHAT	4	b	12	0.19	64.12	0.02	0.1269
SOTOQU	1	b	0	0.42	46.33	2.92	0.0040
STANHO	1	b	0	-1.02	3.66	5.21	0.0507
STERN1	1	b	0	0.11	11.71	0.05	0.7107
STODDA	10	b	9	0.31	124.44	2.30	0.0006
STRACH	9	b	4	0.21	27.70	0.03	0.2759
TARIQ	12	b	1	-0.12	19.03	1.58	0.6112
TOMINA	2	b	0	-1.06	1.84	2.78	0.1515
WILLE1	7	b	0	0.68	6.06	1.55	0.0955
ZHENG	26	b	0	0.71	6.34	1.84	0.0739

RR data

	N	40
	NS	40
	Wt	1131.13
Het	Chi	71.20
Het	df	39
Het	P	**
Fixed	RR	1.19
	RRl	1.12
	RRu	1.26
	P	+++
Random	RR	1.18
	RRl	1.08
	RRu	1.29
	P	+++
Asymm	P	N.S.

Appendix Table A8 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

RR data

	N	40			
	NS	40			
	Wt	1131.13			
Het	Chi	71.20			
Het	df	39			
Het	P	**			
Fixed	RR	1.19			
	RRl	1.12			
	RRu	1.26			
	P	+++			
Random	RR	1.18			
	RRl	1.08			
	RRu	1.29			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both		male	female	Total
	N	40			40
	NS	40			40
	Wt	1131.13			1131.13
Het	Chi	71.20			71.20
Het	df	39			39
Het	P	**			**
Fixed	RR	1.19			1.19
	RRl	1.12			1.12
	RRu	1.26			1.26
	P	+++			+++
Random	RR	1.18			1.18
	RRl	1.08			1.08
	RRu	1.29			1.29
	P	+++			+++
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table A8 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	CALL	CHHABR	CLARK	DEKKER	DIJKST	DOTTER	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	JAAKKO	KALYO1	KALYO2
	KARUNA	KNIGHT	LEE1	LEE2	MELIA	MELSOM	NHANE3	NITTA	PETERS	SARRAZ	SELCUK	WANG	WILLE2	WOLFO1	WOLFO2	WOLFO3
	YANG															
3	BERGMA	CSONKA	EHRLI1	OLIVET	WEITZ1	WEITZ2										
4	CHINN	SOMERV														
5	AZIZI	BALL	CUNNI1	DEKOK	HUGHES	LOPEZC	MCCON2	MOHAME	STERN2							

Appendix Table A8 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP	
GILLIL	GILLIL	1	MCCON1/GILLIL	
HJERN1	HJERN1	1	HJERN1/HJERN2	
HJERN2	HJERN2	1	HJERN1/HJERN2	
STERN1	STERN1	1	STERN1/STERN2	

Adjusted - insufficient data for metaanalysis															RR	SIG
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI		
ARSHAD	7	b	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non	*	n
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	*	n
BALL	1	b	6	13	all	NAmer	1980	2000	Pr	0	AnyPar	NoParent	unspec	non	*	n
CUNNI1	11	b	8	11	all	NAmer	1988	1996	CS	9	Mother	NotMothr	current	non	0.84	?
DEKOK	1	b	6	12	all	Eu:wst	1993	1996	CS	6	Mother	NotMothr	unspec	non	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	*	n
LOPEZC	3	b	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	1.06	n
MCCON2	4	b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non	*	n
MOHAME	2	b	9	11	all	Africa	1990	1995	CC	0	Mother	NotMothr	unspec	non	*	n
PALMIE	10	b	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non	*	y
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	0.98	n
STRACH	15	b	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	<1m	non	*	y

Appendix Table A9 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Biochemical, total, household (overall), or parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : biochemical, total, household, parent
 - 7) BIOMEA : saliva, blood, urine
 - 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
 - 9) WHESMO : current, at a specific age (oldest first), unspecified, during child's lifetime, ever (i.e. during smoker's lifetime)
 - 10) UNEXSO : not specific parent, neither parent, none in household, none
 - 11) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time (GILLIL: not in utero or since birth)
 - 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
 - 13) RACE : all in study or nearest available, otherwise by race
 - 14) ONSET : yes, no (prevalence)
 - 15) For overlapping studies: principal rather than subsidiary studies
- Finally by Age: whole study if available, otherwise by widest available age group
and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3
(and those which actually differ from the adjusted results in Appendix Table A1 - 1 are marked 'x' in Section -1)
(Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A9 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Adjusted

REF	NRR	CompA1	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ALBA	1		b	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALDAWO	2		m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never	-
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non	-
ANDRAE	2		b	0	16	all	Eu:Sca	1985	1988	CS	3	AnyPar	NoParent	in life	non	-
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
BARRET	1		b	9	11	all	Eu:Ita	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
BECKET	6		b	0	17	all	NAmer	1993	1996	CS	7	AnyHh	NoHhMemb	ever	never	-
BENER	1		b	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non	-
BRABIN	2		b	5	11	all	Eu:UK	1991	1994	CS	1	AnyHh	NoHhMemb	unspec	non	-
BURCHF	5		m	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-
BURCHF	8		f	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-
BUTZ	7		b	*	*	all	NAmer	1989	1992	CC	1	TotETS	None	current	non	-
CHEN1	1		b	1	1	all	As:FE	1985	1988	CS	0	AnyHh	NoHhMemb	in life	non	-
CHEN2	37		b	6	17	all	NAmer	1993	1996	CS	6	AnyHh	NoHhMemb	current	non	-
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non	-
DODGE	12		b	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non	-
DOLD	21		b	9	11	all	Eu:Ger	1989	1992	CS	1	AnyHh	NoHhMemb	unspec	non	-
ECE	3		b	6	15	all	Eu:est	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
EHRLI2	3		b	3	14	all	NAmer	1988	1992	CC	0	Biochem	Low	-	-	urine
FARBE2	2		b	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non	-
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never	-
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non	-
FLYNN1	1		b	9	10	all	Auslia	1990	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-
FORAST	20		b	7	11	all	Eu:Ita	1987	1992	CS	9	AnyPar	NoParent	unspec	non	-
GILLIL	53	x	m	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	current	othr	-
GILLIL	62	x	f	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	current	othr	-
GOLD	11		b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non	-
GOREN1	3		b	7	11	all	As:ME	1980	1986	CS	0	AnyHh	NoHhMemb	current	non	-
GOREN2	5		b	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never	-
GORTM1	3		b	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non	-
GORTM2	1		b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non	-
GURKAN	1		b	3	15	all	Eu:est	1995	2002	CC	0	TotETS	None	unspec	non	-
HAJNAL	1		b	6	14	all	Eu:wst	1992	1999	CS	13	AnyHh	NoHhMemb	current	non	-
HU1	4		b	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non	-
HU2	23		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non	-
JENKIN	5		b	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non	-
KAY	20		b	3	11	all	Eu:UK	*	1995	CS	1	AnyPar	NoParent	unspec	non	-
KENDIR	1		b	6	14	all	Eu:est	1993	1998	CS	0	AnyHh	NoHhMemb	current	non	-
KERSHA	7		b	0	5	all	Eu:UK	1983	1987	CC	1	AnyHh	LowHh	<3y	non	-
KIVITY	4		b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non	-
KUEHR	5	x	b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	current	non	-
KUHR	3	x	b	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	current	non	-
LAM1	8		b	12	15	all	As:FE	1994	1998	CS	4	AnyHh	NoHhMemb	unspec	non	-
LAM2	1		b	8	13	all	As:FE	1995	1999	CS	4	AnyHh	NoHhMemb	unspec	non	-
LEEDER	2		b	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non	-
LEROUX	2		b	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non	-
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non	-
LISTER	3		b	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non	-
MATER	5		b	5	9	all	NAmer	1994	1997	CS	8	TotETS	None	current	non	-
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MCCON2	2		b	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-
MCKEEV	3	x	b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	current	non	-
MOYES1	1		b	6	7	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MOYES2	1		b	13	14	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MURRAY	5		m	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non	-
MURRAY	7		f	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non	-
NHANE3	28		b	4	16	w+b	NAmer	1988	2001	CS	6	Biochem	Low	-	-	blood
NILSSO	1		b	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non	-
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non	-
ODDY	1		b	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-
POKHAR	2		b	11	15	all	As:cen	1995	2001	CC	5	AnyHh	NoHhMemb	unspec	non	-
PONSON	8		b	0	7	all	Auslia	1988	2000	Pr	6	AnyHh	NoHhMemb	<1m	non	-
RASANE	3		b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never	-
RATAGE	1		b	5	15	all	As:cen	1996	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
RENNIE	1		b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non	-
RONCH1	7		b	6	13	all	Eu:Ita	1974	2001	CS	2	AnyHh	Low	current	non	-
RONCH2	3		b	6	14	all	Eu:Ita	1992	2001	CS	0	AnyHh	Low	current	non	-
RONCH3	3		b	6	14	all	Eu:Ita	1998	2001	CS	0	AnyHh	Low	current	non	-
RONMAR	5		b	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non	-

Appendix Table A9 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

REF	NRR	CompA1	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non	-
SELCUK	2		b	7	12	all	Eu:est	1994	1997	CS	6	AnyHh	NoHhMemb	unspec	non	-
SENNHA	1		b	1	16	all	Eu:wst	1990	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non	-
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never	-
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non	-
SOYSET	4	x	b	7	13	all	Eu:Sca	1989	1995	CS	0	Mother	NotMothr	current	non	-
SQUILL	1		b	8	12	all	NAmer	1992	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non	-
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non	-
TIMONE	1		b	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	current	non	-
TSIMOY	1		b	12	17	all	NAmer	1985	1987	CS	0	TotETS	None	current	non	-
VARELA	1		b	6	15	all	SCAmer	1999	2001	CS	0	AnyHh	NoHhMemb	unspec	non	-
VAVILI	1		b	6	15	all	Eu:est	*	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VERHOE	1	x	b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	current	non	-
VONMAF	1		b	0	17	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	ever	never	-
WITHER	1		b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLFO1	2		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO2	2		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO3	2		b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
ZEIGER	1		b	0	7	all	NAmer	1981	1995	Pr	0	AnyHh	NoHhMemb	unspec	non	-

Appendix Table A9 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	1	b	0	68	70	34	32	0.91	(0.51- 1.64)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
BARRET	1	b	0	17	91	9	81	1.68	(0.71- 3.98)
BECKET	6	b	7	133	-	352	-	1.31	(1.03- 1.66)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BRABIN	2	b	1	204	-	114	-	1.06	(0.82- 1.37)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	7	b	1	28	-	74	-	1.18	(0.62- 2.24)
CHEN1	1	b	0	64	1668	14	467	1.28	(0.71- 2.30)
CHEN2	37	b	6	32	-	61	-	1.67	(0.96- 2.89)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	21	b	1	217	-	295	-	1.10	(0.92- 1.33)
ECE	3	b	0	298	1704	132	906	1.20	(0.96- 1.50)
EHRLI2	3	b	0	37	29	60	88	1.87	(1.04- 3.36)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FLYNN1	1	b	0	-	-	-	-	1.26	(0.95- 1.68)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
GILLIL	53	m	0	49	228	247	1183	1.03	(0.73- 1.44)
GILLIL	62	f	0	34	261	149	1281	1.12	(0.75- 1.66)
Subtotal GILLIL								1.07	(0.83- 1.38)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	3	b	0	80	766	50	514	1.07	(0.74- 1.56)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
GURKAN	1	b	0	50	22	90	74	1.87	(1.04- 3.37)
HAJNAL	1	b	13	-	-	-	-	1.20	(0.94- 1.54)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KENDIR	1	b	0	-	-	-	-	1.41	(1.16- 1.72)
KERSHA	7	b	1	71	-	15	-	3.12	(1.76- 5.54)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	5	b	1	41	-	121	-	0.77	(0.53- 1.12)
KUHR	3	b	0	20	221	21	442	1.90	(1.01- 3.59)
LAM1	8	b	4	163	-	201	-	0.92	(0.74- 1.15)
LAM2	1	b	4	-	-	-	-	0.91	(0.69- 1.18)
*LEEDER	2	b	1	48	-	11	-	1.33	(0.67- 2.64)
LEROUX	2	b	10	39	-	58	-	1.79	(1.06- 3.02)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
MAIER	5	b	8	33	-	73	-	2.26	(1.33- 3.85)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
MCCON2	2	b	0	2	45	13	163	0.56	(0.12- 2.56)
*MCKEEV	3	b	0	1088	5003	2609	15730	1.31	(1.23- 1.40)
MOYES1	1	b	0	358	1017	295	886	1.06	(0.88- 1.26)
MOYES2	1	b	0	363	1285	252	842	0.94	(0.79- 1.13)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY								1.37	(0.91- 2.07)
NHANE3	28	b	6	424	-	175	-	1.16	(0.77- 1.76)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*ODDY	1	b	4	-	-	-	-	1.27	(1.04- 1.55)
POKHAR	2	b	5	27	-	13	-	3.33	(1.85- 7.65)
*PONSON	8	b	6	185	-	88	-	1.03	(0.83- 1.26)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)

Appendix Table A9 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
RATAGE 1	b	0		62	30	58	30	1.07	(0.58- 1.99)
RENNIE 1	b	6		-	-	-	-	1.02	(0.60- 1.75)
RONCH1 7	b	2		40	-	83	-	1.40	(1.02- 1.91)
RONCH2 3	b	0		60	351	93	726	1.33	(0.94- 1.89)
RONCH3 3	b	0		40	312	91	696	0.98	(0.66- 1.46)
*RONMAR 5	b	9		-	-	-	-	1.36	(0.82- 2.25)
ROSASV 1	b	0		9	6	65	68	1.57	(0.53- 4.66)
SELCUK 2	b	6		689	-	193	-	1.35	(1.12- 1.62)
SENNHA 1	b	0		119	1631	132	2268	1.25	(0.97- 1.62)
SHAMSS 2	b	0		-	-	-	-	1.39	(1.12- 1.74)
*SHERMA 2	b	2		-	-	-	-	1.18	(0.76- 1.83)
*SIGURS 1	b	0		-	-	-	-	1.20	(0.41- 3.60)
SOYSET 4	b	0		25	256	26	311	1.17	(0.66- 2.07)
SQUILL 1	b	0		38	80	97	226	1.11	(0.70- 1.74)
STANHO 2	b	0		7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR 4	b	0		-	4855	-	4815	0.96	(0.77- 1.22)
TIMONE 1	b	0		10	225	170	2139	0.56	(0.29- 1.07)
TSIMOY 1	b	0		9	123	4	57	1.04	(0.31- 3.53)
VARELA 1	b	0		27	13	7	10	2.97	(0.92- 9.57)
VAVILI 1	b	0		60	74	40	30	0.61	(0.34- 1.09)
VENNER 6	m	0		217	477	48	116	1.10	(0.76- 1.60)
VENNER 3	f	0		214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE 1	b	0		59	149	58	108	0.74	(0.48- 1.14)
VONMAF 1	b	0		166	766	217	1260	1.26	(1.01- 1.57)
WITHER 1	b	0		202	633	296	1107	1.19	(0.97- 1.46)
WOLFO1 2	b	7		-	-	-	-	1.12	(0.63- 1.98)
WOLFO2 2	b	7		-	-	-	-	1.35	(0.75- 2.43)
WOLFO3 2	b	10		-	-	-	-	1.39	(0.93- 2.06)
*ZEIGER 1	b	0		8	22	42	143	1.24	(0.67- 2.28)
Partial Totals				9358	29645	10946	46713		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALBA 1	b	0		-0.09	11.15	1.02	0.7647
ALDAWO 2	m	0		0.76	8.40	2.53	0.0274
ALFRA1 2	b	0		0.41	22.65	0.90	0.0498
ANDRAE 2	b	3		-0.01	54.89	2.72	0.9406
ANNESI 1	b	0		0.25	89.09	0.15	0.0166
BARRET 1	b	0		0.52	5.17	0.49	0.2373
BECKET 6	b	7		0.27	67.46	0.22	0.0266
BENER 1	b	0		0.24	19.32	0.02	0.2839
BRABIN 2	b	1		0.06	58.33	1.38	0.6563
BURCHF 5	m	1		0.22	32.51	0.00	0.2200
BURCHF 8	f	1		0.00	24.97	1.13	1.0000
Subtotal BURCHF				-0.21	57.49	1.13	
BUTZ 7	b	1		0.17	9.31	0.02	0.6135
CHEN1 1	b	0		0.25	11.14	0.01	0.4102
CHEN2 37	b	6		0.51	12.65	1.14	0.0681
DELL 2	b	0		0.42	18.30	0.78	0.0733
DODGE 12	b	1		0.41	7.12	0.27	0.2794
DOLD 21	b	1		0.10	113.12	1.55	0.3107
ECE 3	b	0		0.18	79.23	0.07	0.1041
EHRLI2 3	b	0		0.63	11.17	1.92	0.0363
FARBE2 2	b	3		0.41	57.72	2.30	0.0017
FAROOQ 1	b	0		0.25	72.93	0.13	0.0297
*FERGUS 7	b	0		0.04	37.52	1.13	0.8106
FLYNN1 1	b	0		0.23	47.28	0.02	0.1120
FORAST 20	b	9		0.25	37.10	0.04	0.1327
GILLIL 53	m	0		0.03	33.68	1.13	0.8668
GILLIL 62	f	0		0.11	24.55	0.24	0.5746
Subtotal GILLIL				-0.28	58.23	1.37	
GOLD 11	b	0		0.26	211.41	0.40	0.0002
GOREN1 3	b	0		0.07	27.97	0.56	0.7071
GOREN2 5	b	2		0.22	99.84	0.00	0.0316
GORTM1 3	b	7		0.40	36.85	1.28	0.0155
GORTM2 1	b	0		0.63	6.99	1.20	0.0978

Appendix Table A9 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
GURKAN	1	b	0	0.63	11.10	1.89	0.0372
HAJNAL	1	b	13	0.18	63.05	0.06	0.1477
HU1	4	b	7	-0.22	12.73	2.41	0.4259
HU2	23	b	3	0.44	31.16	1.59	0.0144
JENKIN	5	b	7	0.23	116.41	0.04	0.0126
KAY	20	b	1	0.35	38.89	0.74	0.0288
KENDIR	1	b	0	0.34	99.03	1.71	0.0006
KERSHA	7	b	1	1.14	11.69	10.01	0.0001
KIVITY	4	b	0	0.59	13.44	1.90	0.0311
KUEHR	5	b	1	-0.26	27.45	6.16	0.1709
KUHR	3	b	0	0.64	9.58	1.79	0.0461
LAM1	8	b	4	-0.08	79.06	6.91	0.4585
LAM2	1	b	4	-0.09	53.37	5.02	0.4908
*LEEDER	2	b	1	0.29	8.17	0.04	0.4149
LEROUX	2	b	10	0.58	14.02	1.92	0.0293
LIS	1	b	0	0.31	37.30	0.34	0.0604
LISTER	3	b	8	0.42	64.33	2.74	0.0008
MAIER	5	b	8	0.82	13.60	4.95	0.0026
*MARTIN	5	m	1	0.56	11.93	1.44	0.0533
*MARTIN	6	f	1	0.68	5.55	1.23	0.1075
Subtotal	MARTIN			0.82	17.48	2.67	
MCCON2	2	b	0	-0.58	1.65	1.05	0.4523
*MCKEEV	3	b	0	0.27	962.51	3.30	0.0000
MOYES1	1	b	0	0.06	120.55	2.96	0.5411
MOYES2	1	b	0	-0.06	115.09	8.40	0.5355
MURRAY	5	m	1	0.34	14.28	0.25	0.1941
MURRAY	7	f	1	0.27	8.50	0.03	0.4311
Subtotal	MURRAY			0.19	22.78	0.27	
NHANE3	28	b	6	0.15	22.48	0.09	0.4816
NILSSO	1	b	0	0.00	31.98	1.44	1.0000
OCONNE	1	b	0	0.25	33.98	0.06	0.1384
*ODDY	1	b	4	0.24	96.50	0.07	0.0189
POKHAR	2	b	5	1.20	7.63	7.48	0.0009
*PONSON	8	b	6	0.03	88.18	2.95	0.7813
RASANE	3	b	3	0.46	27.24	1.72	0.0155
RATAGE	1	b	0	0.07	10.00	0.21	0.8330
RENNIE	1	b	6	0.02	13.41	0.50	0.9422
RONCH1	7	b	2	0.34	39.05	0.60	0.0355
RONCH2	3	b	0	0.29	31.60	0.18	0.1048
RONCH3	3	b	0	-0.02	24.61	1.32	0.9224
*ROMMAR	5	b	9	0.31	15.08	0.14	0.2324
ROSASV	1	b	0	0.45	3.25	0.18	0.4168
SELCUK	2	b	6	0.30	112.79	0.87	0.0014
SENNHA	1	b	0	0.23	58.71	0.01	0.0833
SHAMSS	2	b	0	0.33	79.17	1.08	0.0034
*SHERMA	2	b	2	0.17	19.90	0.04	0.4603
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOYSET	4	b	0	0.16	11.68	0.04	0.5953
SQUILL	1	b	0	0.10	18.67	0.23	0.6613
STANHO	2	b	0	-0.92	4.90	6.25	0.0423
*TAYLOR	4	b	0	-0.04	72.55	4.65	0.7281
TIMONE	1	b	0	-0.58	9.03	5.68	0.0808
TSIMOY	1	b	0	0.04	2.59	0.08	0.9464
VARELA	1	b	0	1.09	2.80	2.15	0.0687
VAVILI	1	b	0	-0.50	11.30	5.69	0.0945
VENNER	6	m	0	0.09	27.66	0.38	0.6182
VENNER	3	f	0	0.18	28.98	0.04	0.3399
Subtotal	VENNER			-0.15	56.63	0.42	
VERHOE	1	b	0	-0.30	19.94	5.33	0.1737
VONMAF	1	b	0	0.23	78.55	0.02	0.0417
WITHER	1	b	0	0.18	92.49	0.12	0.0890
WOLFO1	2	b	7	0.11	11.72	0.11	0.6981
WOLFO2	2	b	7	0.30	11.12	0.09	0.3170
WOLFO3	2	b	10	0.33	24.30	0.33	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.00	0.4914

Appendix Table A9 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

RR data

	N	93
	NS	88
	Wt	4451.71
Het	Chi	143.76
Het	df	92
Het	P	***
Fixed	RR	1.24
	RRl	1.20
	RRu	1.27
	P	+++
Random	RR	1.23
	RRl	1.18
	RRu	1.28
	P	+++
Asymm	P	N.S.

Appendix Table A9 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

RR data

	N	93			
	NS	88			
	Wt	4451.71			
Het	Chi	143.76			
Het	df	92			
Het	P	***			
Fixed	RR	1.24			
	RRl	1.20			
	RRu	1.27			
	P	+++			
Random	RR	1.23			
	RRl	1.18			
	RRu	1.28			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	82	6	5	93
	NS	82	6	5	93
	Wt	4230.69	128.47	92.55	4451.71
Het	Chi	135.36	5.72	2.32	143.76
Het	df	81	5	4	92
Het	P	***	N.S.	N.S.	***
Fixed	RR	1.24	1.25	1.16	1.24
	RRl	1.20	1.05	0.95	1.20
	RRu	1.28	1.48	1.43	1.27
	P	+++	+	N.S.	+++
Random	RR	1.23	1.26	1.16	1.23
	RRl	1.17	1.05	0.95	1.18
	RRu	1.29	1.52	1.43	1.28
	P	+++	+	N.S.	+++
Between	Chi				0.36
Between	df				2
Between	P				N.S.

Appendix Table A9 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
3	CUNNI2	KAPLAN	KELLY	NYSTAD	WEITZ1	XU										
5	AKCAKA	BURR	DEBENE	FIELDE	FLYNN2	GOREN3	GOREN4	GOREN5	GOREN6	KALYO1	KEARNE	MONTEF	RUDNIK	SANZOR	SCHENK	STAZI
	STERN2	ULRIK	VOLKME	ZEJDA												
15	ALFRA2	FARBE1	FARBE3	MCCON1	SPIEKE											

Appendix Table A9 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP											RR	SIG		
GILLIL	GILLIL	1	MCCON1/GILLIL											*	n		
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3														
BRABIN	BRABIN	1	KELLY/BRABIN											*	n		
KUEHR	KUEHR	1	KUEHR/SPIEKE											*	n		
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2														
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6														
WOLFO1	WOLFO1	1	WOLFO1/WOLFO2/WOLFO3														
WOLFO2	WOLFO2	1	WOLFO1/WOLFO2/WOLFO3														
WOLFO3	WOLFO3	1	WOLFO1/WOLFO2/WOLFO3														
Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
AKCAKA	1	b	6	15	all	Eu:est	1996	2000	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	-	1.01	?
BRABIN	3	b	5	11	all	Eu:UK	1991	1994	CS	6	AnyHh	NoHhMemb	unspec	non	-	*	n
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	-	*	n
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	-	1.46	y
ECE	8	b	6	15	all	Eu:est	1999	2001	CS	3	AnyHh	NoHhMemb	current	non	-	*	n
FIELDE	1	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
FLYNN2	1	b	9	10	all	Auslia	1991	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	-	*	n
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	-	1.67	y
KALYO1	1	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KEARNE	1	m	6	12	all	Eu:wst	1997	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KIVITY	5	b	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	-	*	y
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	-	*	n
LISTER	9	b	0	4	all	Auslia	1989	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
MONTEF	1	b	5	8	all	Eu:wst	*	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	-	*	n
RUDNIK	1	b	8	10	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	0.74	?
RUDNIK	2	b	11	13	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.43	?
RUDNIK	3	b	14	16	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.09	?
SANZOR	1	b	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	-	*	n
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	-	*	n
SOYSET	10	b	7	13	all	Eu:Sca	1989	1995	CS	1	Mother	NotMothr	current	non	-	*	n
STAZI	9	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	current	non	-	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	-	1.35	y
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	-	*	n
VOLKME	2	b	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	-	*	n
ZEIGER	3	b	0	7	all	NAmer	1981	1995	Pr	4	AnyHh	NoHhMemb	unspec	non	-	*	n
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	-	*	n

Appendix Table A10 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Biochemical, total, household (overall), or parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 9) WHESMO : current, at a specific age (oldest first), unspecified, during child's lifetime, ever (i.e. during smoker's lifetime)
- 10) UNEXSO : none, none in household, neither parent, not specific parent
- 11) UNEXTI : not a longer time (GILLIL: not in utero or since birth, KUHR: not since birth), never (in smoker's lifetime), not at specified time
- 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 13) RACE : all in study or nearest available, otherwise by race
- 14) ONSET : yes, no (prevalence)
- 15) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A9 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A10 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Adjusted

REF	NRR	CompA9	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ALBA	1		b	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALDAWO	2		m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never	-
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non	-
ANDRAE	2		b	0	16	all	Eu:Sca	1985	1988	CS	3	AnyPar	NoParent	in life	non	-
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
BARRET	1		b	9	11	all	Eu:Ita	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
BECKET	6		b	0	17	all	NAmer	1993	1996	CS	7	AnyHh	NoHhMemb	ever	never	-
BENER	1		b	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non	-
BRABIN	2		b	5	11	all	Eu:UK	1991	1994	CS	1	AnyHh	NoHhMemb	unspec	non	-
BURCHF	5		m	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-
BURCHF	8		f	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-
BUTZ	7		b	*	*	all	NAmer	1989	1992	CC	1	TotETS	None	current	non	-
CHEN1	1		b	1	1	all	As:FE	1985	1988	CS	0	AnyHh	NoHhMemb	in life	non	-
CHEN2	37		b	6	17	all	NAmer	1993	1996	CS	6	AnyHh	NoHhMemb	current	non	-
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non	-
DODGE	12		b	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non	-
DOLD	21		b	9	11	all	Eu:Ger	1989	1992	CS	1	AnyHh	NoHhMemb	unspec	non	-
ECE	3		b	6	15	all	Eu:est	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
EHRLI2	3		b	3	14	all	NAmer	1988	1992	CC	0	Biochem	Low	-	-	urine
FARBE2	2		b	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non	-
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never	-
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non	-
FLYNN1	1		b	9	10	all	Auslia	1990	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-
FORAST	20		b	7	11	all	Eu:Ita	1987	1992	CS	9	AnyPar	NoParent	unspec	non	-
GILLIL	53		m	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	current	othr	-
GILLIL	62		f	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	current	othr	-
GOLD	11		b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non	-
GOREN1	3		b	7	11	all	As:ME	1980	1986	CS	0	AnyHh	NoHhMemb	current	non	-
GOREN2	5		b	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never	-
GORTM1	3		b	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non	-
GORTM2	1		b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non	-
GURKAN	1		b	3	15	all	Eu:est	1995	2002	CC	0	TotETS	None	unspec	non	-
HAJNAL	1		b	6	14	all	Eu:wst	1992	1999	CS	13	AnyHh	NoHhMemb	current	non	-
HU1	4		b	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non	-
HU2	23		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non	-
JENKIN	5		b	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non	-
KAY	20		b	3	11	all	Eu:UK	*	1995	CS	1	AnyPar	NoParent	unspec	non	-
KENDIR	1		b	6	14	all	Eu:est	1993	1998	CS	0	AnyHh	NoHhMemb	current	non	-
KERSHA	7		b	0	5	all	Eu:UK	1983	1987	CC	1	AnyHh	LowHh	<3y	non	-
KIVITY	4		b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non	-
KUEHR	5		b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	current	non	-
KUHR	6	x	b	7	16	all	Eu:Ger	1987	1991	CS	6	AnyPar	NoParent	current	othr	-
LAM1	8		b	12	15	all	As:FE	1994	1998	CS	4	AnyHh	NoHhMemb	unspec	non	-
LAM2	1		b	8	13	all	As:FE	1995	1999	CS	4	AnyHh	NoHhMemb	unspec	non	-
LEEDER	2		b	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non	-
LEROUX	2		b	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non	-
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non	-
LISTER	3		b	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non	-
MATER	5		b	5	9	all	NAmer	1994	1997	CS	8	TotETS	None	current	non	-
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MCCON2	2		b	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-
MCKEEV	2	x	b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	current	never	-
MOYES1	1		b	6	7	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MOYES2	1		b	13	14	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MURRAY	5		m	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non	-
MURRAY	7		f	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non	-
NHANE3	28		b	4	16	w+b	NAmer	1988	2001	CS	6	Biochem	Low	-	-	blood
NILSSO	1		b	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non	-
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non	-
ODDY	1		b	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-
POKHAR	2		b	11	15	all	As:cen	1995	2001	CC	5	AnyHh	NoHhMemb	unspec	non	-
PONSON	8		b	0	7	all	Auslia	1988	2000	Pr	6	AnyHh	NoHhMemb	<1m	non	-
RASANE	3		b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never	-
RATAGE	1		b	5	15	all	As:cen	1996	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
RENNIE	1		b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non	-
RONCH1	7		b	6	13	all	Eu:Ita	1974	2001	CS	2	AnyHh	Low	current	non	-
RONCH2	3		b	6	14	all	Eu:Ita	1992	2001	CS	0	AnyHh	Low	current	non	-
RONCH3	3		b	6	14	all	Eu:Ita	1998	2001	CS	0	AnyHh	Low	current	non	-
RONMAR	5		b	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non	-

Appendix Table A10 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

REF	NRR	CompA9	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non	-
SELCUK	2		b	7	12	all	Eu:est	1994	1997	CS	6	AnyHh	NoHhMemb	unspec	non	-
SENNHA	1		b	1	16	all	Eu:wst	1990	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non	-
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never	-
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non	-
SOYSET	4		b	7	13	all	Eu:Sca	1989	1995	CS	0	Mother	NotMothr	current	non	-
SQUILL	1		b	8	12	all	NAmer	1992	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non	-
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non	-
TIMONE	1		b	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	current	non	-
TSIMOY	1		b	12	17	all	NAmer	1985	1987	CS	0	TotETS	None	current	non	-
VARELA	1		b	6	15	all	SCAmer	1999	2001	CS	0	AnyHh	NoHhMemb	unspec	non	-
VAVILI	1		b	6	15	all	Eu:est	*	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VERHOE	2	x	b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	current	never	-
VONMAF	1		b	0	17	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	ever	never	-
WITHER	1		b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLFO1	2		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO2	2		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO3	2		b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
ZEIGER	1		b	0	7	all	NAmer	1981	1995	Pr	0	AnyHh	NoHhMemb	unspec	non	-

Appendix Table A10 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	1	b	0	68	70	34	32	0.91	(0.51- 1.64)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
BARRET	1	b	0	17	91	9	81	1.68	(0.71- 3.98)
BECKET	6	b	7	133	-	352	-	1.31	(1.03- 1.66)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BRABIN	2	b	1	204	-	114	-	1.06	(0.82- 1.37)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	7	b	1	28	-	74	-	1.18	(0.62- 2.24)
CHEN1	1	b	0	64	1668	14	467	1.28	(0.71- 2.30)
CHEN2	37	b	6	32	-	61	-	1.67	(0.96- 2.89)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	21	b	1	217	-	295	-	1.10	(0.92- 1.33)
ECE	3	b	0	298	1704	132	906	1.20	(0.96- 1.50)
EHRLI2	3	b	0	37	29	60	88	1.87	(1.04- 3.36)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FLYNN1	1	b	0	-	-	-	-	1.26	(0.95- 1.68)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
GILLIL	53	m	0	49	228	247	1183	1.03	(0.73- 1.44)
GILLIL	62	f	0	34	261	149	1281	1.12	(0.75- 1.66)
Subtotal GILLIL								1.07	(0.83- 1.38)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	3	b	0	80	766	50	514	1.07	(0.74- 1.56)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
GURKAN	1	b	0	50	22	90	74	1.87	(1.04- 3.37)
HAJNAL	1	b	13	-	-	-	-	1.20	(0.94- 1.54)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KENDIR	1	b	0	-	-	-	-	1.41	(1.16- 1.72)
KERSHA	7	b	1	71	-	15	-	3.12	(1.76- 5.54)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	5	b	1	41	-	121	-	0.77	(0.53- 1.12)
KUHR	6	b	6	20	-	7	-	2.58	(1.07- 6.23)
LAM1	8	b	4	163	-	201	-	0.92	(0.74- 1.15)
LAM2	1	b	4	-	-	-	-	0.91	(0.69- 1.18)
*LEEDER	2	b	1	48	-	11	-	1.33	(0.67- 2.64)
LEROUX	2	b	10	39	-	58	-	1.79	(1.06- 3.02)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
MAIER	5	b	8	33	-	73	-	2.26	(1.33- 3.85)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
MCCON2	2	b	0	2	45	13	163	0.56	(0.12- 2.56)
*MCKEEV	2	b	0	1088	5003	2088	13058	1.36	(1.27- 1.45)
MOYES1	1	b	0	358	1017	295	886	1.06	(0.88- 1.26)
MOYES2	1	b	0	363	1285	252	842	0.94	(0.79- 1.13)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY								1.37	(0.91- 2.07)
NHANE3	28	b	6	424	-	175	-	1.16	(0.77- 1.76)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*ODDY	1	b	4	-	-	-	-	1.27	(1.04- 1.55)
POKHAR	2	b	5	27	-	13	-	3.33	(1.85- 7.65)
*PONSON	8	b	6	185	-	88	-	1.03	(0.83- 1.26)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)

Appendix Table A10 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
RATAGE 1	b	0		62	30	58	30	1.07	(0.58- 1.99)
RENNIE 1	b	6		-	-	-	-	1.02	(0.60- 1.75)
RONCH1 7	b	2		40	-	83	-	1.40	(1.02- 1.91)
RONCH2 3	b	0		60	351	93	726	1.33	(0.94- 1.89)
RONCH3 3	b	0		40	312	91	696	0.98	(0.66- 1.46)
*RONMAR 5	b	9		-	-	-	-	1.36	(0.82- 2.25)
ROSASV 1	b	0		9	6	65	68	1.57	(0.53- 4.66)
SELCUK 2	b	6		689	-	193	-	1.35	(1.12- 1.62)
SENNHA 1	b	0		119	1631	132	2268	1.25	(0.97- 1.62)
SHAMSS 2	b	0		-	-	-	-	1.39	(1.12- 1.74)
*SHERMA 2	b	2		-	-	-	-	1.18	(0.76- 1.83)
*SIGURS 1	b	0		-	-	-	-	1.20	(0.41- 3.60)
SOYSET 4	b	0		25	256	26	311	1.17	(0.66- 2.07)
SQUILL 1	b	0		38	80	97	226	1.11	(0.70- 1.74)
STANHO 2	b	0		7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR 4	b	0		-	4855	-	4815	0.96	(0.77- 1.22)
TIMONE 1	b	0		10	225	170	2139	0.56	(0.29- 1.07)
TSIMOY 1	b	0		9	123	4	57	1.04	(0.31- 3.53)
VARELA 1	b	0		27	13	7	10	2.97	(0.92- 9.57)
VAVILI 1	b	0		60	74	40	30	0.61	(0.34- 1.09)
VENNER 6	m	0		217	477	48	116	1.10	(0.76- 1.60)
VENNER 3	f	0		214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE 2	b	0		59	149	39	72	0.73	(0.45- 1.20)
VONMAF 1	b	0		166	766	217	1260	1.26	(1.01- 1.57)
WITHER 1	b	0		202	633	296	1107	1.19	(0.97- 1.46)
WOLFO1 2	b	7		-	-	-	-	1.12	(0.63- 1.98)
WOLFO2 2	b	7		-	-	-	-	1.35	(0.75- 2.43)
WOLFO3 2	b	10		-	-	-	-	1.39	(0.93- 2.06)
*ZEIGER 1	b	0		8	22	42	143	1.24	(0.67- 2.28)
Partial Totals				9358	29424	10392	43563		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALBA 1	b	0		-0.09	11.15	1.06	0.7647
ALDAWO 2	m	0		0.76	8.40	2.47	0.0274
ALFRA1 2	b	0		0.41	22.65	0.84	0.0498
ANDRAE 2	b	3		-0.01	54.89	2.89	0.9406
ANNESI 1	b	0		0.25	89.09	0.11	0.0166
BARRET 1	b	0		0.52	5.17	0.47	0.2373
BECKET 6	b	7		0.27	67.46	0.17	0.0266
BENER 1	b	0		0.24	19.32	0.01	0.2839
BRABIN 2	b	1		0.06	58.33	1.51	0.6563
BURCHF 5	m	1		0.22	32.51	0.00	0.2200
BURCHF 8	f	1		0.00	24.97	1.20	1.0000
Subtotal BURCHF				-0.22	57.49	1.20	
BUTZ 7	b	1		0.17	9.31	0.03	0.6135
CHEN1 1	b	0		0.25	11.14	0.01	0.4102
CHEN2 37	b	6		0.51	12.65	1.09	0.0681
DELL 2	b	0		0.42	18.30	0.73	0.0733
DODGE 12	b	1		0.41	7.12	0.25	0.2794
DOLD 21	b	1		0.10	113.12	1.74	0.3107
ECE 3	b	0		0.18	79.23	0.11	0.1041
EHRLI2 3	b	0		0.63	11.17	1.85	0.0363
FARBE2 2	b	3		0.41	57.72	2.15	0.0017
FAROOQ 1	b	0		0.25	72.93	0.09	0.0297
*FERGUS 7	b	0		0.04	37.52	1.22	0.8106
FLYNN1 1	b	0		0.23	47.28	0.01	0.1120
FORAST 20	b	9		0.25	37.10	0.03	0.1327
GILLIL 53	m	0		0.03	33.68	1.22	0.8668
GILLIL 62	f	0		0.11	24.55	0.28	0.5746
Subtotal GILLIL				-0.30	58.23	1.50	
GOLD 11	b	0		0.26	211.41	0.28	0.0002
GOREN1 3	b	0		0.07	27.97	0.61	0.7071
GOREN2 5	b	2		0.22	99.84	0.00	0.0316
GORTM1 3	b	7		0.40	36.85	1.19	0.0155
GORTM2 1	b	0		0.63	6.99	1.16	0.0978

Appendix Table A10 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
GURKAN	1	b	0	0.63	11.10	1.83	0.0372
HAJNAL	1	b	13	0.18	63.05	0.09	0.1477
HU1	4	b	7	-0.22	12.73	2.49	0.4259
HU2	23	b	3	0.44	31.16	1.49	0.0144
JENKIN	5	b	7	0.23	116.41	0.02	0.0126
KAY	20	b	1	0.35	38.89	0.67	0.0288
KENDIR	1	b	0	0.34	99.03	1.53	0.0006
KERSHA	7	b	1	1.14	11.69	9.86	0.0001
KIVITY	4	b	0	0.59	13.44	1.83	0.0311
KUEHR	5	b	1	-0.26	27.45	6.34	0.1709
KUHR	6	b	6	0.95	4.95	2.63	0.0350
LAM1	8	b	4	-0.08	79.06	7.24	0.4585
LAM2	1	b	4	-0.09	53.37	5.25	0.4908
*LEEDER	2	b	1	0.29	8.17	0.04	0.4149
LEROUX	2	b	10	0.58	14.02	1.85	0.0293
LIS	1	b	0	0.31	37.30	0.29	0.0604
LISTER	3	b	8	0.42	64.33	2.56	0.0008
MAIER	5	b	8	0.82	13.60	4.83	0.0026
*MARTIN	5	m	1	0.56	11.93	1.38	0.0533
*MARTIN	6	f	1	0.68	5.55	1.19	0.1075
Subtotal	MARTIN			0.80	17.48	2.58	
MCCON2	2	b	0	-0.58	1.65	1.07	0.4523
*MCKEEV	2	b	0	0.31	891.60	6.95	0.0000
MOYES1	1	b	0	0.06	120.55	3.22	0.5411
MOYES2	1	b	0	-0.06	115.09	8.83	0.5355
MURRAY	5	m	1	0.34	14.28	0.22	0.1941
MURRAY	7	f	1	0.27	8.50	0.02	0.4311
Subtotal	MURRAY			0.18	22.78	0.24	
NHANE3	28	b	6	0.15	22.48	0.11	0.4816
NILSSO	1	b	0	0.00	31.98	1.54	1.0000
OCONNE	1	b	0	0.25	33.98	0.04	0.1384
*ODDY	1	b	4	0.24	96.50	0.04	0.0189
POKHAR	2	b	5	1.20	7.63	7.38	0.0009
*PONSON	8	b	6	0.03	88.18	3.17	0.7813
RASANE	3	b	3	0.46	27.24	1.63	0.0155
RATAGE	1	b	0	0.07	10.00	0.23	0.8330
RENNIE	1	b	6	0.02	13.41	0.53	0.9422
RONCH1	7	b	2	0.34	39.05	0.54	0.0355
RONCH2	3	b	0	0.29	31.60	0.15	0.1048
RONCH3	3	b	0	-0.02	24.61	1.40	0.9224
*ROMMAR	5	b	9	0.31	15.08	0.12	0.2324
ROSASV	1	b	0	0.45	3.25	0.17	0.4168
SELCUK	2	b	6	0.30	112.79	0.74	0.0014
SENNHA	1	b	0	0.23	58.71	0.00	0.0833
SHAMSS	2	b	0	0.33	79.17	0.96	0.0034
*SHERMA	2	b	2	0.17	19.90	0.06	0.4603
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOYSET	4	b	0	0.16	11.68	0.05	0.5953
SQUILL	1	b	0	0.10	18.67	0.26	0.6613
STANHO	2	b	0	-0.92	4.90	6.33	0.0423
*TAYLOR	4	b	0	-0.04	72.55	4.91	0.7281
TIMONE	1	b	0	-0.58	9.03	5.78	0.0808
TSIMOY	1	b	0	0.04	2.59	0.08	0.9464
VARELA	1	b	0	1.09	2.80	2.11	0.0687
VAVILI	1	b	0	-0.50	11.30	5.80	0.0945
VENNER	6	m	0	0.09	27.66	0.43	0.6182
VENNER	3	f	0	0.18	28.98	0.05	0.3399
Subtotal	VENNER			-0.17	56.63	0.48	
VERHOE	2	b	0	-0.31	15.83	4.49	0.2126
VONMAF	1	b	0	0.23	78.55	0.01	0.0417
WITHER	1	b	0	0.18	92.49	0.17	0.0890
WOLFO1	2	b	7	0.11	11.72	0.13	0.6981
WOLFO2	2	b	7	0.30	11.12	0.07	0.3170
WOLFO3	2	b	10	0.33	24.30	0.29	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.00	0.4914

Appendix Table A10 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

RR data

	N	93
	NS	88
	Wt	4372.06
Het	Chi	148.26
Het	df	92
Het	P	***
Fixed	RR	1.25
	RRl	1.21
	RRu	1.28
	P	+++
Random	RR	1.23
	RRl	1.18
	RRu	1.29
	P	+++
Asymm	P	N.S.

Appendix Table A10 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

RR data

	N	93			
	NS	88			
	Wt	4372.06			
Het	Chi	148.26			
Het	df	92			
Het	P	***			
Fixed	RR	1.25			
	RRl	1.21			
	RRu	1.28			
	P	+++			
Random	RR	1.23			
	RRl	1.18			
	RRu	1.29			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	82	6	5	93
	NS	82	6	5	93
	Wt	4151.04	128.47	92.55	4372.06
Het	Chi	139.79	5.72	2.32	148.26
Het	df	81	5	4	92
Het	P	***	N.S.	N.S.	***
Fixed	RR	1.25	1.25	1.16	1.25
	RRl	1.21	1.05	0.95	1.21
	RRu	1.29	1.48	1.43	1.28
	P	+++	+	N.S.	+++
Random	RR	1.23	1.26	1.16	1.23
	RRl	1.18	1.05	0.95	1.18
	RRu	1.29	1.52	1.43	1.29
	P	+++	+	N.S.	+++
Between	Chi				0.44
Between	df				2
Between	P				N.S.

Appendix Table A10 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
3	CUNNI2	KAPLAN	KELLY	NYSTAD	WEITZ1	XU										
5	AKCAKA	BURR	DEBENE	FIELDE	FLYNN2	GOREN3	GOREN4	GOREN5	GOREN6	KALYO1	KEARNE	MONTEF	RUDNIK	SANZOR	SCHENK	STAZI
	STERN2	ULRIK	VOLKME	ZEJDA												
15	ALFRA2	FARBE1	FARBE3	MCCON1	SPIEKE											

Appendix Table A10 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP	
GILLIL	GILLIL	1	MCCON1/GILLIL	
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3	
BRABIN	BRABIN	1	KELLY/BRABIN	
KUEHR	KUEHR	1	KUEHR/SPIEKE	
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2	
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6	
WOLFO1	WOLFO1	1	WOLFO1/WOLFO2/WOLFO3	
WOLFO2	WOLFO2	1	WOLFO1/WOLFO2/WOLFO3	
WOLFO3	WOLFO3	1	WOLFO1/WOLFO2/WOLFO3	

Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
AKCAKA	1	b	6	15	all	Eu:est	1996	2000	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	-	1.01	?
BRABIN	3	b	5	11	all	Eu:UK	1991	1994	CS	6	AnyHh	NoHhMemb	unspec	non	-	*	n
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	-	*	n
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	-	1.46	y
ECE	8	b	6	15	all	Eu:est	1999	2001	CS	3	AnyHh	NoHhMemb	current	non	-	*	n
FIELDE	1	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
FLYNN2	1	b	9	10	all	Auslia	1991	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	-	*	n
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	-	1.67	y
KALYO1	1	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KEARNE	1	m	6	12	all	Eu:wst	1997	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KIVITY	5	b	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	-	*	y
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	-	*	n
LISTER	9	b	0	4	all	Auslia	1989	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
MONTEF	1	b	5	8	all	Eu:wst	*	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	-	*	n
RUDNIK	1	b	8	10	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	0.74	?
RUDNIK	2	b	11	13	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.43	?
RUDNIK	3	b	14	16	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.09	?
SANZOR	1	b	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	-	*	n
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	-	*	n
SOYSET	10	b	7	13	all	Eu:Sca	1989	1995	CS	1	Mother	NotMothr	current	non	-	*	n
STAZI	9	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	current	non	-	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	-	1.35	y
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	-	*	n
VOLKME	2	b	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	-	*	n
ZEIGER	3	b	0	7	all	NAmer	1981	1995	Pr	4	AnyHh	NoHhMemb	unspec	non	-	*	n
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	-	*	n

Appendix Table A11 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Biochemical, total, household (overall), or parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 9) WHESMO : current, at a specific age (oldest first), unspecified, during child's lifetime, ever (i.e. during smoker's lifetime)
- 10) UNEXSO : not specific parent, neither parent, none in household, none
- 11) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 13) RACE : all in study or nearest available, otherwise by race
- 14) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group
 and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3
 (and those which actually differ from the adjusted results in Appendix Table A3 - 1 are marked 'x' in Section -1)
 (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A11 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma
Adjusted

REF	NRR	CompA3	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ADDOYO	1		b	8	17	all	Africa	*	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
AGAB1	14		b	6	7	all	Eu:Ita	1994	1999	CC	11	AnyPar	NoParent	current	never	-
AGAB2	14		b	13	14	all	Eu:Ita	1994	1999	CC	12	AnyPar	NoParent	current	never	-
ARSHAD	1		b	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non	-
BERGMA	1		b	3	6	all	Eu:Ger	1990	2000	Pr	8	AnyHh	NoHhMemb	18m	non	-
CALL	1		b	3	15	all	NAmer	1990	1992	CC	0	AnyHh	NoHhMemb	unspec	non	-
CHEN2	50		b	6	17	all	NAmer	1993	1996	CS	1	AnyHh	NoHhMemb	current	non	-
CHHABR	1		b	4	17	all	As:cen	*	1998	CS	0	AnyHh	NoHhMemb	unspec	non	-
CLARK	2		b	5	7	all	Eu:UK	*	1994	CC	0	Biochem	Low	-	-	saliva
CSONKA	1	x	b	6	13	all	Eu:Sca	*	2000	CS	0	AnyHh	NoHhMemb	current	non	-
CUNNI1	1		b	8	11	all	NAmer	1988	1996	CS	0	AnyHh	NoHhMemb	current	non	-
DAIGLE	3		b	0	*	all	NAmer	1986	1991	CC	7	Mother	NotMothr	unspec	non	-
DEKKER	6		b	5	8	all	NAmer	1988	1991	CC	9	AnyHh	NoHhMemb	unspec	non	-
DIJKST	1		b	6	12	all	Eu:wst	1986	1990	CS	0	AnyHh	NoHhMemb	current	non	-
DOTTER	1		m	8	17	all	Eu:est	1994	2001	CS	6	AnyHh	NoHhMemb	unspec	non	-
DOTTER	2		f	8	17	all	Eu:est	1994	2001	CS	6	AnyHh	NoHhMemb	unspec	non	-
FAGBUL	2		b	0	18	all	Africa	*	1994	CC	1	AnyPar	NoParent	unspec	non	-
FORSB1	1	x	b	6	12	all	Eu:Sca	1993	1997	CS	14	AnyHh	NoHhMemb	current	non	-
FORSB2	1	x	b	6	12	all	Eu:Sca	1993	1997	CS	14	AnyHh	NoHhMemb	current	non	-
FORSB3	1	x	b	6	12	all	Eu:Sca	1993	1997	CS	15	AnyHh	NoHhMemb	current	non	-
FUJI	1		b	8	11	all	As:FE	1994	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-
GILLIL	34	x	b	7	19	all	NAmer	1993	2001	CS	8	AnyHh	NoHhMemb	current	non	-
GOLD	6	x	b	6	14	all	NAmer	1974	1993	Pr	11	Mother	NotMothr	current	non	-
GUPTA	2		b	9	20	all	As:cen	1997	2001	CS	2	AnyHh	NoHhMemb	unspec	non	-
HABY	4		b	3	5	all	Auslia	1995	2001	CS	9	AnyPar	NoParent	<6m	non	-
HJERN1	16	x	b	3	15	all	Eu:Sca	1996	2001	CS	9	Mother	NotMothr	current	non	-
HJERN2	16	x	b	3	15	all	Eu:Sca	1996	2001	CS	9	Father	NotFathr	current	non	-
HOST	1		b	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non	-
HU1	6		b	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non	-
HU2	24		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non	-
INFANT	10		b	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non	-
JAAKKO	2		b	4	4	all	Eu:Sca	1992	2001	Pr	7	AnyHh	NoHhMemb	<1m	non	-
JONES	2		b	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non	-
KARUNA	1		b	1	10	all	As:cen	1996	2001	CC	0	TotETS	None	current	non	-
LAM1	16		b	12	15	all	As:FE	1994	1998	CS	4	AnyHh	NoHhMemb	unspec	non	-
LAM2	2		b	8	13	all	As:FE	1995	1999	CS	4	AnyHh	NoHhMemb	unspec	non	-
LAU	1		b	3	10	all	As:FE	1989	1995	CS	0	AnyPar	NoParent	current	non	-
LEE1	1		b	6	12	all	As:FE	1995	2001	CS	8	AnyHh	NoHhMemb	current	non	-
LEE2	1		b	12	15	all	As:FE	1995	2001	CS	8	AnyHh	NoHhMemb	current	non	-
LEEN	1		b	9	9	all	Eu:wst	1991	1994	CC	0	AnyPar	NoParent	unspec	non	-
LILLJE	1		b	7	10	all	Eu:Sca	1991	1997	CS	0	AnyPar	NoParent	unspec	non	-
LINDFO	1		b	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non	-
MELSOM	5		m	11	17	all	As:cen	1997	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
MELSOM	6		f	11	17	all	As:cen	1997	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
MOHAME	1		b	9	11	all	Africa	1990	1995	CC	0	AnyHh	NoHhMemb	unspec	non	-
MOUSSA	1		b	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non	-
MUMCUO	6		b	3	15	all	As:ME	1986	1994	CC	0	AnyHh	NoHhMemb	unspec	non	-
NHANE3	61		b	4	16	w+b	NAmer	1988	2001	CS	6	Biochem	Low	-	-	blood
NITTA	1		b	7	12	all	As:FE	1995	1996	CS	5	AnyHh	NoHhMemb	current	non	-
OHARA	6		b	3	12	all	As:FE	2001	2002	CS	4	AnyPar	NoParent	current	non	-
PALMIE	3		b	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non	-
PETERS	6		b	9	14	all	As:FE	1989	1996	Pr	6	AnyHh	NoHhMemb	current	non	-
PIC	1		b	5	15	all	Eu:wst	1999	2002	CS	0	AnyPar	NoParent	unspec	non	-
RIBETR	1		b	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non	-
RONMAR	1		b	7	8	all	Eu:Sca	1996	2002	Pr	5	Mother	NotMothr	unspec	non	-
SARRAZ	1		b	6	10	all	SCAmer	*	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non	-
SELCUK	4		b	7	12	all	Eu:est	1994	1997	CS	6	AnyHh	NoHhMemb	unspec	non	-
SHOHAT	4		b	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non	-
SOTOQU	1		b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non	-
STANHO	1		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non	-
STERN1	1		b	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non	-
STODDA	10		b	0	17	all	NAmer	1986	1995	CS	9	Mother	NotMothr	current	non	-
STRACH	9		b	13	18	all	Eu:UK	1993	1995	CC	4	Mother	NotMothr	current	non	-
TARIQ	16	x	b	4	4	all	Eu:UK	1989	2000	Pr	7	Mother	NotMothr	current	non	-
TOMINA	2		b	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non	-
WANG	2		b	11	16	all	As:FE	1995	1999	CS	8	AnyHh	NoHhMemb	unspec	non	-
WILLE1	7		b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-
WOLFO1	1		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO2	1		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-

Appendix Table A11 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma
Adjusted

REF	NRR	CompA3	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
WOLFO3	1		b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
YANG	2		b	6	12	all	As:FE	1994	1997	CS	10	AnyHh	NoHhMemb	unspec	non	-
ZHENG	19		b	6	10	all	As:FE	1999	2002	CC	6	AnyHh	NoHhMemb	in life	non	-

Appendix Table A11 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Cont	Case	Cont			
ADDOYO	1	b	0	13	5	23	33	3.73	(1.17-	11.91)
AGABI1	14	b	11	558	-	148	-	1.34	(1.11-	1.62)
AGABI2	14	b	12	700	-	203	-	1.17	(0.99-	1.39)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80-	14.60)
BERGMA	1	b	8	-	-	-	-	1.32	(0.88-	1.97)
CALL	1	b	0	19	19	18	17	0.94	(0.38-	2.37)
CHEN2	50	b	1	24	-	50	-	1.07	(0.61-	1.87)
CHHABR	1	b	0	118	404	313	1733	1.62	(1.27-	2.05)
CLARK	2	b	0	13	23	6	20	1.88	(0.60-	5.88)
CSONKA	1	b	0	-	-	-	-	1.60	(1.00-	2.60)
CUNNI1	1	b	0	396	5339	412	5387	0.97	(0.84-	1.12)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10-	3.47)
DEKKER	6	b	9	386	-	249	-	1.49	(1.24-	1.78)
DIJKST	1	b	0	-	-	-	-	1.95	(0.91-	4.19)
DOTTER	1	m	6	-	-	-	-	0.50	(0.30-	1.00)
DOTTER	2	f	6	-	-	-	-	0.50	(0.20-	1.10)
Subtotal	DOTTER							0.50	(0.31-	0.82)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84-	2.36)
FORSB1	1	b	14	-	-	-	-	0.70	(0.50-	1.10)
FORSB2	1	b	14	-	-	-	-	1.00	(0.40-	2.40)
FORSB3	1	b	15	-	-	-	-	0.50	(0.36-	0.69)
FUJI	1	b	0	36	602	29	370	0.76	(0.46-	1.27)
GILLIL	34	b	8	103	-	384	-	1.24	(0.91-	1.68)
GOLD	6	b	11	-	-	-	-	1.10	(0.92-	1.31)
GUPTA	2	b	2	84	-	121	-	1.78	(1.34-	2.36)
HABY	4	b	9	86	-	104	-	1.62	(0.95-	2.75)
HJERN1	16	b	9	31	-	88	-	0.87	(0.58-	1.30)
HJERN2	16	b	9	12	-	66	-	0.81	(0.45-	1.47)
HOST	1	b	0	20	457	14	285	0.89	(0.44-	1.79)
HU1	6	b	0	28	148	44	238	1.02	(0.61-	1.71)
HU2	24	b	3	34	-	84	-	1.47	(0.97-	2.23)
INFANT	10	b	19	183	-	273	-	1.40	(0.95-	2.05)
JAAKO	2	b	7	71	-	93	-	1.21	(0.85-	1.72)
JONES	2	b	0	27	24	73	76	1.17	(0.62-	2.21)
KARUNA	1	b	0	130	121	170	179	1.13	(0.82-	1.57)
LAM1	16	b	4	30	-	35	-	0.84	(0.51-	1.38)
LAM2	2	b	4	-	-	-	-	0.76	(0.47-	1.25)
LAU	1	b	0	19	247	9	158	1.35	(0.60-	3.06)
LEE1	1	b	8	-	-	-	-	1.37	(1.24-	1.51)
LEE2	1	b	8	-	-	-	-	0.99	(0.87-	1.13)
LEEN	1	b	0	46	45	69	51	0.76	(0.44-	1.31)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81-	1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15-	2.37)
MELSOM	5	m	0	-	-	-	-	3.00	(1.30-	6.70)
MELSOM	6	f	0	-	-	-	-	1.00	(0.30-	3.10)
Subtotal	MELSOM							2.09	(1.07-	4.08)
MOHAME	1	b	0	-	-	-	-	1.60	(0.80-	3.20)
MOUSSA	1	b	0	1	0	202	203	3.01	(0.12-	74.44)
MUMCUO	6	b	0	181	62	119	38	0.93	(0.59-	1.48)
NHANE3	61	b	6	321	-	126	-	1.25	(0.74-	2.11)
NITTA	1	b	5	-	-	-	-	0.91	(0.54-	1.53)
OHARA	6	b	4	82	-	59	-	0.91	(0.65-	1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70-	1.42)
PETERS	6	b	6	-	-	-	-	0.86	(0.64-	1.15)
PIC	1	b	0	51	829	60	1069	1.10	(0.75-	1.61)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59-	2.41)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12-	2.28)
SARRAZ	1	b	0	6	8	8	13	1.22	(0.31-	4.83)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21-	3.54)
SELCHUK	4	b	6	240	-	68	-	1.28	(0.94-	1.75)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95-	1.55)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14-	2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13-	1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63-	1.98)
STODDA	10	b	9	224	-	443	-	1.36	(1.14-	1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85-	1.79)
TARIQ	16	b	7	-	-	-	-	1.20	(0.30-	2.70)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08-	1.47)

Appendix Table A11 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
WANG	2	b	8	12212	-	8425	-	1.08	(1.05- 1.12)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
WOLFO1	1	b	7	-	-	-	-	1.17	(0.57- 2.43)
WOLFO2	1	b	7	-	-	-	-	1.01	(0.42- 2.41)
WOLFO3	1	b	10	-	-	-	-	2.11	(1.15- 3.87)
YANG	2	b	10	90	-	76	-	0.87	(0.61- 1.22)
ZHENG	19	b	6	285	-	118	-	1.40	(1.10- 1.90)
Partial Totals				17917	10355	14665	15063		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO	1	b	0	1.32	2.85	4.10	0.0262
AGABI1	14	b	11	0.29	107.50	3.28	0.0024
AGABI2	14	b	12	0.16	133.43	0.20	0.0697
ARSHAD	1	b	7	1.20	1.82	2.14	0.1044
BERGMA	1	b	8	0.28	23.66	0.60	0.1769
CALL	1	b	0	-0.06	4.55	0.14	0.9029
CHEN2	50	b	1	0.07	12.24	0.03	0.8128
CHHABR	1	b	0	0.48	67.93	8.93	0.0001
CLARK	2	b	0	0.63	2.97	0.79	0.2753
CSONKA	1	b	0	0.47	16.83	2.09	0.0538
CUNNI1	1	b	0	-0.03	187.78	4.15	0.6744
DAIGLE	3	b	7	0.67	11.64	3.59	0.0217
DEKKER	6	b	9	0.40	117.58	9.27	0.0000
DIJKST	1	b	0	0.67	6.59	1.99	0.0865
DOTTER	1	m	6	-0.69	10.60	6.97	0.0240
DOTTER	2	f	6	-0.69	5.29	3.48	0.1110
Subtotal DOTTER				-1.62	15.89	10.45	
FAGBUL	2	b	1	0.34	14.40	0.73	0.1923
FORSB1	1	b	14	-0.36	24.72	5.57	0.0762
FORSB2	1	b	14	0.00	4.79	0.07	1.0000
FORSB3	1	b	15	-0.69	36.30	23.89	0.0000
FUJI	1	b	0	-0.27	15.01	2.27	0.2946
GILLIL	34	b	8	0.22	40.88	0.39	0.1690
GOLD	6	b	11	0.10	123.03	0.06	0.2904
GUPTA	2	b	2	0.58	47.97	10.09	0.0001
HABY	4	b	9	0.48	13.60	1.81	0.0752
HJERN1	16	b	9	-0.14	23.59	1.56	0.4988
HJERN2	16	b	9	-0.21	10.97	1.19	0.4853
HOST	1	b	0	-0.12	7.87	0.43	0.7459
HU1	6	b	0	0.02	14.41	0.13	0.9302
HU2	24	b	3	0.39	22.17	1.58	0.0697
INFANT	10	b	19	0.34	25.97	1.24	0.0864
JAAKKO	2	b	7	0.19	30.93	0.16	0.2891
JONES	2	b	0	0.16	9.47	0.02	0.6266
KARUNA	1	b	0	0.12	36.46	0.00	0.4564
LAM1	16	b	4	-0.17	15.51	1.33	0.4923
LAM2	2	b	4	-0.27	16.06	2.47	0.2714
LAU	1	b	0	0.30	5.74	0.19	0.4716
LEE1	1	b	8	0.31	395.94	15.33	0.0000
LEE2	1	b	8	-0.01	224.74	3.69	0.8802
LEEN	1	b	0	-0.28	12.81	2.03	0.3157
LILLJE	1	b	0	0.09	42.18	0.05	0.5801
LINDFO	1	b	0	0.50	29.55	4.33	0.0065
MELSOM	5	m	0	1.10	5.71	5.50	0.0086
MELSOM	6	f	0	0.00	2.82	0.04	1.0000
Subtotal MELSOM				0.86	8.53	5.53	
MOHAME	1	b	0	0.47	8.00	0.99	0.1838
MOUSSA	1	b	0	1.10	0.37	0.36	0.5000
MUMCUO	6	b	0	-0.07	17.74	0.63	0.7676
NHANE3	61	b	6	0.22	14.00	0.15	0.4038
NITTA	1	b	5	-0.09	14.17	0.64	0.7226
OHARA	6	b	4	-0.09	34.25	1.54	0.5810
PALMIE	3	b	0	-0.00	30.71	0.43	0.9963
PETERS	6	b	6	-0.15	44.74	3.23	0.3131
PIC	1	b	0	0.09	26.03	0.02	0.6397
RIBEIR	1	b	0	0.18	7.76	0.03	0.6116

Appendix Table A11 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
RONMAR	1	b	5	0.47	30.41	3.77	0.0095
SARRAZ	1	b	0	0.20	2.03	0.01	0.7783
SCHMIT	1	b	4	0.73	13.33	4.95	0.0079
SELCUK	4	b	6	0.25	39.78	0.66	0.1195
SHOHAT	4	b	12	0.19	64.12	0.34	0.1269
SOTOQU	1	b	0	0.42	46.33	4.31	0.0040
STANHO	1	b	0	-1.02	3.66	4.75	0.0507
STERN1	1	b	0	0.11	11.71	0.00	0.7107
STODDA	10	b	9	0.31	124.44	4.47	0.0006
STRACH	9	b	4	0.21	27.70	0.22	0.2759
TARIQ	16	b	7	0.18	3.18	0.01	0.7450
TOMINA	2	b	0	-1.06	1.84	2.54	0.1515
WANG	2	b	8	0.08	3689.08	6.22	0.0000
WILLE1	7	b	0	0.68	6.06	1.89	0.0955
WOLFO1	1	b	7	0.16	7.31	0.01	0.6712
WOLFO2	1	b	7	0.01	5.03	0.06	0.9822
WOLFO3	1	b	10	0.75	10.43	4.12	0.0159
YANG	2	b	10	-0.14	31.98	2.12	0.4310
ZHENG	19	b	6	0.34	51.44	2.45	0.0158

RR data

	N	73
	NS	71
	Wt	6334.49
Het	Chi	188.82
Het	df	72
Het	P	***
Fixed	RR	1.13
	RRl	1.10
	RRu	1.15
	P	+++
Random	RR	1.17
	RRl	1.10
	RRu	1.25
	P	+++
Asymm	P	N.S.

Appendix Table A11 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

RR data

	N	73			
	NS	71			
	Wt	6334.49			
Het	Chi	188.82			
Het	df	72			
Het	P	***			
Fixed	RR	1.13			
	RRl	1.10			
	RRu	1.15			
	P	+++			
Random	RR	1.17			
	RRl	1.10			
	RRu	1.25			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	69	2	2	73
	NS	69	2	2	73
	Wt	6310.07	16.32	8.10	6334.49
Het	Chi	172.82	11.92	0.88	188.82
Het	df	68	1	1	72
Het	P	***	***	N.S.	***
Fixed	RR	1.13	0.94	0.64	1.13
	RRl	1.10	0.58	0.32	1.10
	RRu	1.15	1.52	1.27	1.15
	P	+++	N.S.	N.S.	+++
Random	RR	1.18	1.20	0.64	1.17
	RRl	1.11	0.21	0.32	1.10
	RRu	1.25	6.93	1.27	1.25
	P	+++	N.S.	N.S.	+++
Between	Chi				3.19
Between	df				2
Between	P				N.S.

Appendix Table A11 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
3	OLIVET	WEITZ1	WEITZ2													
4	CHINN	EHRLI1	KNIGHT	SOMERV												
5	AZIZI	BALL	DEKOK	FIELDE	HUGHES	KALYO1	KALYO2	LOPEZC	MCCON2	MELIA	STERN2					
14	WILLE2															

Appendix Table A11 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP														RR	SIG
GILLIL	GILLIL	1	MCCON1/GILLIL															
HJERN1	HJERN1	1	HJERN1/HJERN2															
HJERN2	HJERN2	1	HJERN1/HJERN2															
STERN1	STERN1	1	STERN1/STERN2															
FORSB3	FORSB3	1	FORSB3/WILLE2															
WOLFO1	WOLFO1	1	WOLFO1/WOLFO2/WOLFO3															
WOLFO2	WOLFO2	1	WOLFO1/WOLFO2/WOLFO3															
WOLFO3	WOLFO3	1	WOLFO1/WOLFO2/WOLFO3															
Adjusted - insufficient data for metaanalysis																		
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG	
ADDOYO	2	b	8	17	all	Africa	*	2001	CC	4	AnyHh	NoHhMemb	unspec	non	-	*	n	
ARSHAD	7	b	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non	-	*	n	
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	-	*	n	
BALL	1	b	6	13	all	NAmer	1980	2000	Pr	0	AnyPar	NoParent	unspec	non	-	*	n	
CSONKA	5	b	6	13	all	Eu:Sca	*	2000	CS	5	AnyHh	NoHhMemb	current	non	-	*	n	
DEKOK	1	b	6	12	all	Eu:wst	1993	1996	CS	6	Mother	NotMothr	unspec	non	-	*	n	
DIJKST	3	b	6	12	all	Eu:wst	1986	1990	CS	12	AnyHh	NoHhMemb	current	non	-	1.77	n	
FIELDE	2	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n	
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	-	*	n	
KALYO1	2	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n	
KALYO2	1	b	6	13	all	Eu:est	1997	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n	
KARUNA	2	b	1	10	all	As:cen	1996	2001	CC	10	TotETS	None	current	non	-	*	n	
LOPEZC	3	b	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	-	1.06	n	
MCCON2	5	b	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-	*	n	
MELIA	1	b	5	11	all	Eu:UK	1977	1981	CS	0	AnyHh	NoHhMemb	current	non	-	*	y	
MOHAME	5	b	9	11	all	Africa	1990	1995	CC	4	AnyHh	NoHhMemb	unspec	non	-	*	n	
PALMIE	10	b	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non	-	*	y	
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	-	0.98	n	

Appendix Table A12 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Biochemical, total, household (overall), or parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 9) WHESMO : current, at a specific age (oldest first), unspecified, during child's lifetime, ever (i.e. during smoker's lifetime)
- 10) UNEXSO : none, none in household, neither parent, not specific parent
- 11) UNEXTI : not a longer time (GILLIL: not since birth, CUNNIl(3): not in utero or since birth), never (in smoker's lifetime), not at specifiedtime
- 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 13) RACE : all in study or nearest available, otherwise by race
- 14) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A11 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A12 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF NRR CompA11 SEX AGEL AGEH RACE	LOC BEGYR PUBYR STTYP ADJ EXP-who UNEXsource	EXPOS-time UNEXTI BIOMEA
ADDOYO 1	b 8 17 all Africa *	2001 CC 0 AnyHh NoHhMemb unspec non -
AGAB1 14	b 6 7 all Eu:Ita 1994 1999	CC 11 AnyPar NoParent current never -
AGAB2 14	b 13 14 all Eu:Ita 1994 1999	CC 12 AnyPar NoParent current never -
ARSHAD 1	b 1 1 all Eu:UK 1990 1992	Pr 7 AnyPar NoParent utero/life non -
BERGMA 1	b 3 6 all Eu:Ger 1990 2000	Pr 8 AnyHh NoHhMemb 18m non -
CALL 1	b 3 15 all NAmEr 1990 1992	CC 0 AnyHh NoHhMemb unspec non -
CHEN2 50	b 6 17 all NAmEr 1993 1996	CS 1 AnyHh NoHhMemb current non -
CHHABR 1	b 4 17 all As:cen *	1998 CS 0 AnyHh NoHhMemb unspec non -
CLARK 2	b 5 7 all Eu:UK *	1994 CC 0 Biochem Low - - saliva
CSONKA 1	b 6 13 all Eu:Sca *	2000 CS 0 AnyHh NoHhMemb current non -
CUNNI 1	b 8 11 all NAmEr 1988 1996	CS 0 AnyHh NoHhMemb current non -
DAIGLE 3	b 0 * all NAmEr 1986 1991	CC 7 Mother NotMothr unspec non -
DEKKER 6	b 5 8 all NAmEr 1988 1991	CC 9 AnyHh NoHhMemb unspec non -
DIJKST 1	b 6 12 all Eu:wst 1986 1990	CS 0 AnyHh NoHhMemb current non -
DOTTER 1	m 8 17 all Eu:est 1994 2001	CS 6 AnyHh NoHhMemb unspec non -
DOTTER 2	f 8 17 all Eu:est 1994 2001	CS 6 AnyHh NoHhMemb unspec non -
FAGBUL 2	b 0 18 all Africa *	1994 CC 1 AnyPar NoParent unspec non -
FORSB1 1	b 6 12 all Eu:Sca 1993 1997	CS 14 AnyHh NoHhMemb current non -
FORSB2 1	b 6 12 all Eu:Sca 1993 1997	CS 14 AnyHh NoHhMemb current non -
FORSB3 1	b 6 12 all Eu:Sca 1993 1997	CS 15 AnyHh NoHhMemb current non -
FUJI 1	b 8 11 all As:FE 1994 2002	CS 0 AnyHh NoHhMemb unspec non -
GILLIL 33	x b 7 19 all NAmEr 1993 2001	CS 8 AnyHh NoHhMemb current othr -
GOLD 5	x b 6 14 all NAmEr 1974 1993	Pr 11 Mother NotMothr current never -
GUPTA 2	b 9 20 all As:cen 1997 2001	CS 2 AnyHh NoHhMemb unspec non -
HABY 4	b 3 5 all Auslia 1995 2001	CS 9 AnyPar NoParent <6m non -
HJERN1 12	x b 3 15 all Eu:Sca 1996 2001	CS 9 Mother NotMothr current never -
HJERN2 12	x b 3 15 all Eu:Sca 1996 2001	CS 9 Father NotFathr current never -
HOST 1	b 6 17 all Eu:Sca 1990 1993	CS 0 AnyPar NoParent current non -
HU1 6	b 10 11 all NAmEr 1994 1997	CS 0 Mother NotMothr current non -
HU2 24	b 20 22 all NAmEr 1986 1997	Pr 3 AnyPar LowParnt 13-15y non -
INFANT 10	b 3 4 all NAmEr 1988 1993	CC 19 Mother NotMothr in life non -
JAAKKO 2	b 4 4 all Eu:Sca 1992 2001	Pr 7 AnyHh NoHhMemb <1m non -
JONES 2	b 4 16 all Eu:UK 1996 1999	CC 0 Mother NotMothr unspec non -
KARUNA 1	b 1 10 all As:cen 1996 2001	CC 0 TotETS None current non -
LAM1 16	b 12 15 all As:FE 1994 1998	CS 4 AnyHh NoHhMemb unspec non -
LAM2 2	b 8 13 all As:FE 1995 1999	CS 4 AnyHh NoHhMemb unspec non -
LAU 1	b 3 10 all As:FE 1989 1995	CS 0 AnyPar NoParent current non -
LEE1 1	b 6 12 all As:FE 1995 2001	CS 8 AnyHh NoHhMemb current non -
LEE2 1	b 12 15 all As:FE 1995 2001	CS 8 AnyHh NoHhMemb current non -
LEEN 1	b 9 9 all Eu:wst 1991 1994	CC 0 AnyPar NoParent unspec non -
LILLJE 1	b 7 10 all Eu:Sca 1991 1997	CS 0 AnyPar NoParent unspec non -
LINDFO 1	b 1 4 all Eu:Sca 1990 1995	CC 0 AnyPar NoParent <2y non -
MELSOM 5	m 11 17 all As:cen 1997 2001	CC 0 AnyHh NoHhMemb unspec non -
MELSOM 6	f 11 17 all As:cen 1997 2001	CC 0 AnyHh NoHhMemb unspec non -
MOHAME 1	b 9 11 all Africa 1990 1995	CC 0 AnyHh NoHhMemb unspec non -
MOUSSA 1	b 6 18 all As:ME 1992 1996	CC 0 Mother NotMothr unspec non -
MUMCUO 6	b 3 15 all As:ME 1986 1994	CC 0 AnyHh NoHhMemb unspec non -
NHANE3 61	b 4 16 w+b NAmEr 1988 2001	CS 6 Biochem Low - - blood
NITTA 1	b 7 12 all As:FE 1995 1996	CS 5 AnyHh NoHhMemb current non -
OHARA 6	b 3 12 all As:FE 2001 2002	CS 4 AnyPar NoParent current non -
PALMIE 3	b 1 12 all Eu:Ita *	1990 CC 0 AnyPar NoParent unspec non -
PETERS 6	b 9 14 all As:FE 1989 1996	Pr 6 AnyHh NoHhMemb current non -
PIC 1	b 5 15 all Eu:wst 1999 2002	CS 0 AnyPar NoParent unspec non -
RIBETR 1	b 4 9 all SCAmEr 1996 2002	CS 0 AnyPar NoParent current non -
RONMAR 1	b 7 8 all Eu:Sca 1996 2002	Pr 5 Mother NotMothr unspec non -
SARRAZ 1	b 6 10 all SCAmEr *	1997 CC 0 AnyHh NoHhMemb unspec non -
SCHMIT 1	b 6 15 all Eu:wst 1989 1993	CS 4 Mother NotMothr unspec non -
SELCUK 4	b 7 12 all Eu:est 1994 1997	CS 6 AnyHh NoHhMemb unspec non -
SHOHAT 4	b 13 14 all As:ME 1997 2002	CS 12 Mother NotMothr unspec non -
SOTOQU 1	b 5 17 all SCAmEr 1987 1994	CS 0 Mother NotMothr current non -
STANHO 1	b 12 18 all Auslia 1975 1979	CS 0 Mother NotMothr current non -
STERN1 1	b 7 12 all NAmEr 1983 1989	CS 0 Mother NotMothr unspec non -
STODDA 10	b 0 17 all NAmEr 1986 1995	CS 9 Mother NotMothr current non -
STRACH 9	b 13 18 all Eu:UK 1993 1995	CC 4 Mother NotMothr current non -
TARIQ 16	b 4 4 all Eu:UK 1989 2000	Pr 7 Mother NotMothr current non -
TOMINA 2	b 3 3 all As:FE 1978 1985	CS 0 Mother NoHhMemb unspec non -
WANG 2	b 11 16 all As:FE 1995 1999	CS 8 AnyHh NoHhMemb unspec non -
WILLE1 7	b 3 15 all Eu:Sca 1988 1991	CC 0 AnyPar NoParent current non -
WOLFO1 1	b 8 8 all Eu:Ger 1977 1995	CS 7 AnyHh NoHhMemb current non -
WOLFO2 1	b 10 10 all Eu:Ger 1979 1995	CS 7 AnyHh NoHhMemb current non -

Appendix Table A12 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF	NRR	CompA11	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
WOLFO3	1		b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
YANG	2		b	6	12	all	As:FE	1994	1997	CS	10	AnyHh	NoHhMemb	unspec	non	-
ZHENG	19		b	6	10	all	As:FE	1999	2002	CC	6	AnyHh	NoHhMemb	in life	non	-

Appendix Table A12 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Cont	Case	Cont			
ADDOYO	1	b	0	13	5	23	33	3.73	(1.17-	11.91)
AGABI1	14	b	11	558	-	148	-	1.34	(1.11-	1.62)
AGABI2	14	b	12	700	-	203	-	1.17	(0.99-	1.39)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80-	14.60)
BERGMA	1	b	8	-	-	-	-	1.32	(0.88-	1.97)
CALL	1	b	0	19	19	18	17	0.94	(0.38-	2.37)
CHEN2	50	b	1	24	-	50	-	1.07	(0.61-	1.87)
CHHABR	1	b	0	118	404	313	1733	1.62	(1.27-	2.05)
CLARK	2	b	0	13	23	6	20	1.88	(0.60-	5.88)
CSONKA	1	b	0	-	-	-	-	1.60	(1.00-	2.60)
CUNNI1	1	b	0	396	5339	412	5387	0.97	(0.84-	1.12)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10-	3.47)
DEKKER	6	b	9	386	-	249	-	1.49	(1.24-	1.78)
DIJKST	1	b	0	-	-	-	-	1.95	(0.91-	4.19)
DOTTER	1	m	6	-	-	-	-	0.50	(0.30-	1.00)
DOTTER	2	f	6	-	-	-	-	0.50	(0.20-	1.10)
Subtotal	DOTTER							0.50	(0.31-	0.82)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84-	2.36)
FORSB1	1	b	14	-	-	-	-	0.70	(0.50-	1.10)
FORSB2	1	b	14	-	-	-	-	1.00	(0.40-	2.40)
FORSB3	1	b	15	-	-	-	-	0.50	(0.36-	0.69)
FUJI	1	b	0	36	602	29	370	0.76	(0.46-	1.27)
GILLIL	33	b	8	103	-	298	-	1.30	(0.90-	1.70)
GOLD	5	b	11	-	-	-	-	1.05	(0.87-	1.28)
GUPTA	2	b	2	84	-	121	-	1.78	(1.34-	2.36)
HABY	4	b	9	86	-	104	-	1.62	(0.95-	2.75)
HJERN1	12	b	9	31	-	58	-	0.76	(0.49-	1.16)
HJERN2	12	b	9	12	-	34	-	0.81	(0.43-	1.52)
HOST	1	b	0	20	457	14	285	0.89	(0.44-	1.79)
HU1	6	b	0	28	148	44	238	1.02	(0.61-	1.71)
HU2	24	b	3	34	-	84	-	1.47	(0.97-	2.23)
INFANT	10	b	19	183	-	273	-	1.40	(0.95-	2.05)
JAAKO	2	b	7	71	-	93	-	1.21	(0.85-	1.72)
JONES	2	b	0	27	24	73	76	1.17	(0.62-	2.21)
KARUNA	1	b	0	130	121	170	179	1.13	(0.82-	1.57)
LAM1	16	b	4	30	-	35	-	0.84	(0.51-	1.38)
LAM2	2	b	4	-	-	-	-	0.76	(0.47-	1.25)
LAU	1	b	0	19	247	9	158	1.35	(0.60-	3.06)
LEE1	1	b	8	-	-	-	-	1.37	(1.24-	1.51)
LEE2	1	b	8	-	-	-	-	0.99	(0.87-	1.13)
LEEN	1	b	0	46	45	69	51	0.76	(0.44-	1.31)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81-	1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15-	2.37)
MELSOM	5	m	0	-	-	-	-	3.00	(1.30-	6.70)
MELSOM	6	f	0	-	-	-	-	1.00	(0.30-	3.10)
Subtotal	MELSOM							2.09	(1.07-	4.08)
MOHAME	1	b	0	-	-	-	-	1.60	(0.80-	3.20)
MOUSSA	1	b	0	1	0	202	203	3.01	(0.12-	74.44)
MUMCUO	6	b	0	181	62	119	38	0.93	(0.59-	1.48)
NHANE3	61	b	6	321	-	126	-	1.25	(0.74-	2.11)
NITTA	1	b	5	-	-	-	-	0.91	(0.54-	1.53)
OHARA	6	b	4	82	-	59	-	0.91	(0.65-	1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70-	1.42)
PETERS	6	b	6	-	-	-	-	0.86	(0.64-	1.15)
PIC	1	b	0	51	829	60	1069	1.10	(0.75-	1.61)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59-	2.41)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12-	2.28)
SARRAZ	1	b	0	6	8	8	13	1.22	(0.31-	4.83)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21-	3.54)
SELCHUK	4	b	6	240	-	68	-	1.28	(0.94-	1.75)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95-	1.55)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14-	2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13-	1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63-	1.98)
STODDA	10	b	9	224	-	443	-	1.36	(1.14-	1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85-	1.79)
TARIQ	16	b	7	-	-	-	-	1.20	(0.30-	2.70)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08-	1.47)

Appendix Table A12 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
WANG	2	b	8	12212	-	8425	-	1.08	(1.05- 1.12)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
WOLFO1	1	b	7	-	-	-	-	1.17	(0.57- 2.43)
WOLFO2	1	b	7	-	-	-	-	1.01	(0.42- 2.41)
WOLFO3	1	b	10	-	-	-	-	2.11	(1.15- 3.87)
YANG	2	b	10	90	-	76	-	0.87	(0.61- 1.22)
ZHENG	19	b	6	285	-	118	-	1.40	(1.10- 1.90)
Partial Totals				17917	10355	14517	15063		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO	1	b	0	1.32	2.85	4.10	0.0262
AGABI1	14	b	11	0.29	107.50	3.31	0.0024
AGABI2	14	b	12	0.16	133.43	0.21	0.0697
ARSHAD	1	b	7	1.20	1.82	2.15	0.1044
BERGMA	1	b	8	0.28	23.66	0.61	0.1769
CALL	1	b	0	-0.06	4.55	0.14	0.9029
CHEN2	50	b	1	0.07	12.24	0.03	0.8128
CHHABR	1	b	0	0.48	67.93	8.97	0.0001
CLARK	2	b	0	0.63	2.97	0.79	0.2753
CSONKA	1	b	0	0.47	16.83	2.09	0.0538
CUNNI1	1	b	0	-0.03	187.78	4.11	0.6744
DAIGLE	3	b	7	0.67	11.64	3.59	0.0217
DEKKER	6	b	9	0.40	117.58	9.31	0.0000
DIJKST	1	b	0	0.67	6.59	2.00	0.0865
DOTTER	1	m	6	-0.69	10.60	6.96	0.0240
DOTTER	2	f	6	-0.69	5.29	3.47	0.1110
Subtotal DOTTER				-1.62	15.89	10.44	
FAGBUL	2	b	1	0.34	14.40	0.74	0.1923
FORSB1	1	b	14	-0.36	24.72	5.55	0.0762
FORSB2	1	b	14	0.00	4.79	0.07	1.0000
FORSB3	1	b	15	-0.69	36.30	23.85	0.0000
FUJI	1	b	0	-0.27	15.01	2.26	0.2946
GILLIL	33	b	8	0.26	37.99	0.80	0.1059
GOLD	5	b	11	0.05	103.06	0.48	0.6204
GUPTA	2	b	2	0.58	47.97	10.12	0.0001
HABY	4	b	9	0.48	13.60	1.81	0.0752
HJERN1	12	b	9	-0.27	20.69	3.18	0.2119
HJERN2	12	b	9	-0.21	9.64	1.04	0.5130
HOST	1	b	0	-0.12	7.87	0.43	0.7459
HU1	6	b	0	0.02	14.41	0.13	0.9302
HU2	24	b	3	0.39	22.17	1.59	0.0697
INFANT	10	b	19	0.34	25.97	1.25	0.0864
JAAKKO	2	b	7	0.19	30.93	0.17	0.2891
JONES	2	b	0	0.16	9.47	0.02	0.6266
KARUNA	1	b	0	0.12	36.46	0.00	0.4564
LAM1	16	b	4	-0.17	15.51	1.32	0.4923
LAM2	2	b	4	-0.27	16.06	2.46	0.2714
LAU	1	b	0	0.30	5.74	0.19	0.4716
LEE1	1	b	8	0.31	395.94	15.44	0.0000
LEE2	1	b	8	-0.01	224.74	3.65	0.8802
LEEN	1	b	0	-0.28	12.81	2.03	0.3157
LILLJE	1	b	0	0.09	42.18	0.04	0.5801
LINDFO	1	b	0	0.50	29.55	4.34	0.0065
MELSOM	5	m	0	1.10	5.71	5.50	0.0086
MELSOM	6	f	0	0.00	2.82	0.04	1.0000
Subtotal MELSOM				0.86	8.53	5.54	
MOHAME	1	b	0	0.47	8.00	0.99	0.1838
MOUSSA	1	b	0	1.10	0.37	0.36	0.5000
MUMCUO	6	b	0	-0.07	17.74	0.62	0.7676
NHANE3	61	b	6	0.22	14.00	0.16	0.4038
NITTA	1	b	5	-0.09	14.17	0.63	0.7226
OHARA	6	b	4	-0.09	34.25	1.53	0.5810
PALMIE	3	b	0	-0.00	30.71	0.43	0.9963
PETERS	6	b	6	-0.15	44.74	3.22	0.3131
PIC	1	b	0	0.09	26.03	0.02	0.6397
RIBEIR	1	b	0	0.18	7.76	0.03	0.6116

Appendix Table A12 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
RONMAR	1	b	5	0.47	30.41	3.78	0.0095
SARRAZ	1	b	0	0.20	2.03	0.01	0.7783
SCHMIT	1	b	4	0.73	13.33	4.97	0.0079
SELCUK	4	b	6	0.25	39.78	0.67	0.1195
SHOHAT	4	b	12	0.19	64.12	0.34	0.1269
SOTOQU	1	b	0	0.42	46.33	4.33	0.0040
STANHO	1	b	0	-1.02	3.66	4.74	0.0507
STERN1	1	b	0	0.11	11.71	0.00	0.7107
STODDA	10	b	9	0.31	124.44	4.50	0.0006
STRACH	9	b	4	0.21	27.70	0.22	0.2759
TARIQ	16	b	7	0.18	3.18	0.01	0.7450
TOMINA	2	b	0	-1.06	1.84	2.54	0.1515
WANG	2	b	8	0.08	3689.08	6.01	0.0000
WILLE1	7	b	0	0.68	6.06	1.90	0.0955
WOLFO1	1	b	7	0.16	7.31	0.01	0.6712
WOLFO2	1	b	7	0.01	5.03	0.06	0.9822
WOLFO3	1	b	10	0.75	10.43	4.13	0.0159
YANG	2	b	10	-0.14	31.98	2.11	0.4310
ZHENG	19	b	6	0.34	51.44	2.47	0.0158

RR data

	N	73
	NS	71
	Wt	6307.41
Het	Chi	191.14
Het	df	72
Het	P	***
Fixed	RR	1.12
	RRl	1.10
	RRu	1.15
	P	+++
Random	RR	1.17
	RRl	1.09
	RRu	1.24
	P	+++
Asymm	P	N.S.

Appendix Table A12 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

RR data

	N	73			
	NS	71			
	Wt	6307.41			
Het	Chi	191.14			
Het	df	72			
Het	P	***			
Fixed	RR	1.12			
	RRl	1.10			
	RRu	1.15			
	P	+++			
Random	RR	1.17			
	RRl	1.09			
	RRu	1.24			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	69	2	2	73
	NS	69	2	2	73
	Wt	6282.99	16.32	8.10	6307.41
Het	Chi	175.15	11.92	0.88	191.14
Het	df	68	1	1	72
Het	P	***	***	N.S.	***
Fixed	RR	1.13	0.94	0.64	1.12
	RRl	1.10	0.58	0.32	1.10
	RRu	1.15	1.52	1.27	1.15
	P	+++	N.S.	N.S.	+++
Random	RR	1.18	1.20	0.64	1.17
	RRl	1.10	0.21	0.32	1.09
	RRu	1.25	6.93	1.27	1.24
	P	+++	N.S.	N.S.	+++
Between	Chi				3.18
Between	df				2
Between	P				N.S.

Appendix Table A12 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
3	OLIVET	WEITZ1	WEITZ2													
4	CHINN	EHRLI1	KNIGHT	SOMERV												
5	AZIZI	BALL	DEKOK	FIELDE	HUGHES	KALYO1	KALYO2	LOPEZC	MCCON2	MELIA	STERN2					
14	WILLE2															

Appendix Table A12 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP													
GILLIL	GILLIL	1	MCCON1/GILLIL													
HJERN1	HJERN1	1	HJERN1/HJERN2													
HJERN2	HJERN2	1	HJERN1/HJERN2													
STERN1	STERN1	1	STERN1/STERN2													
FORSB3	FORSB3	1	FORSB3/WILLE2													
WOLFO1	WOLFO1	1	WOLFO1/WOLFO2/WOLFO3													
WOLFO2	WOLFO2	1	WOLFO1/WOLFO2/WOLFO3													
WOLFO3	WOLFO3	1	WOLFO1/WOLFO2/WOLFO3													

Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
ADDOYO	2	b	8	17	all	Africa	*	2001	CC	4	AnyHh	NoHhMemb	unspec	non	-	*	n
ARSHAD	7	b	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non	-	*	n
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	-	*	n
BALL	1	b	6	13	all	NAmer	1980	2000	Pr	0	AnyPar	NoParent	unspec	non	-	*	n
CSONKA	5	b	6	13	all	Eu:Sca	*	2000	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
CUNNI1	3	b	8	11	all	NAmer	1988	1996	CS	9	AnyHh	NoHhMemb	current	othr	-	1.08	?
DEKOK	1	b	6	12	all	Eu:wst	1993	1996	CS	6	Mother	NotMothr	unspec	non	-	*	n
DIJKST	3	b	6	12	all	Eu:wst	1986	1990	CS	12	AnyHh	NoHhMemb	current	non	-	1.77	n
FIELDDE	2	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	-	*	n
KALYO1	2	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KALYO2	1	b	6	13	all	Eu:est	1997	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
KARUNA	2	b	1	10	all	As:cen	1996	2001	CC	10	TotETS	None	current	non	-	*	n
LOPEZC	3	b	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	-	1.06	n
MCCON2	5	b	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-	*	n
MELIA	1	b	5	11	all	Eu:UK	1977	1981	CS	0	AnyHh	NoHhMemb	current	non	-	*	y
MOHAME	5	b	9	11	all	Africa	1990	1995	CC	4	AnyHh	NoHhMemb	unspec	non	-	*	n
PALMIE	10	b	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non	-	*	y
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	-	0.98	n

Appendix Table A13 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 7) WHESMO : current, at a specific age (oldest first), unspecified, during child's lifetime, ever (i.e. during smoker's lifetime)
- 8) UNEXSO : not specific parent, neither parent, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A5 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A13 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma
Adjusted

REF	NRR	CompA5	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAWO	2		m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non
ANDRAE	2		b	0	16	all	Eu:Sca	1985	1988	CS	3	AnyPar	NoParent	in life	non
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non
BENER	1		b	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non
BURCHF	5		m	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BURCHF	8		f	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BUTZ	3	x	b	*	*	all	NAmer	1989	1992	CC	0	AnyPar	NotSpPar	current	non
CHEN2	33	x	b	6	17	all	NAmer	1993	1996	CS	6	Mother	NotMothr	current	non
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non
DODGE	12		b	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non
DOLD	7		b	9	11	all	Eu:Ger	1989	1992	CS	0	AnyPar	NoParent	unspec	non
ECE	7		b	6	15	all	Eu:est	1999	2001	CS	0	Mother	NotMothr	current	non
EHRLI2	2	x	b	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	current	non
FARBE2	2		b	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non
FORAST	20		b	7	11	all	Eu:Ita	1987	1992	CS	9	AnyPar	NoParent	unspec	non
GOLD	11		b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non
GOREN1	4		b	7	11	all	As:ME	1980	1986	CS	0	Mother	NotMothr	current	non
GOREN2	5		b	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never
GORTM1	3		b	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non
GORTM2	1		b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non
HAJNAL	3		b	6	14	all	Eu:wst	1992	1999	CS	13	Mother	NotMothr	current	non
HU1	4		b	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non
HU2	23		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non
JENKIN	5		b	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non
KAY	20		b	3	11	all	Eu:UK	*	1995	CS	1	AnyPar	NoParent	unspec	non
KERSHA	5		b	0	5	all	Eu:UK	1983	1987	CC	1	Mother	LowMothr	<3y	non
KIVITY	4		b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non
KUEHR	5	x	b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	current	non
KUHR	3	x	b	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	current	non
LAM1	18		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	9		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LEEDER	2		b	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non
LEROUX	2		b	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non
LISTER	3		b	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MCCON1	2		b	9	18	all	NAmer	1993	2002	Pr	5	Mother	NotMothr	9-16y	non
MCCON2	1		b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non
MCKEEV	3	x	b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	current	non
MURRAY	5		m	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
MURRAY	7		f	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
NILSSO	1		b	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non
PONSON	4		b	0	7	all	Auslia	1988	2000	Pr	6	Mother	NotMothr	<1m	non
RASANE	3		b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never
RATAGE	2		b	5	15	all	As:cen	1996	2000	CC	0	Father	NotFathr	unspec	non
RENNIE	1		b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non
RONMAR	5		b	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non
SOYSET	4	x	b	7	13	all	Eu:Sca	1989	1995	CS	0	Mother	NotMothr	current	non
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VERHOE	1	x	b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	current	non
WITHER	6		b	14	16	all	Eu:UK	1995	1998	CS	5	Mother	NotMothr	current	non

Appendix Table A13 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	2	b	0	32	30	70	72	1.10	(0.60- 1.99)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	3	b	0	15	14	87	91	1.12	(0.51- 2.46)
CHEN2	33	b	6	22	-	71	-	1.72	(0.95- 3.10)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	7	b	0	176	1822	235	2931	1.20	(0.98- 1.48)
ECE	7	b	0	96	530	334	2080	1.13	(0.88- 1.44)
EHRLI2	2	b	0	-	-	-	-	1.90	(1.10- 3.60)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	4	b	0	37	279	93	1001	1.43	(0.95- 2.14)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
HAJNAL	3	b	13	-	-	-	-	1.16	(0.89- 1.55)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KERSHA	5	b	1	51	-	35	-	2.43	(1.55- 3.79)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	5	b	1	41	-	121	-	0.77	(0.53- 1.12)
KUHR	3	b	0	20	221	21	442	1.90	(1.01- 3.59)
LAM1	18	b	4	-	-	201	-	1.32	(0.71- 2.45)
LAM2	9	b	4	-	-	-	-	0.87	(0.64- 1.17)
*LEEDER	2	b	1	48	-	11	-	1.33	(0.67- 2.64)
LEROUX	2	b	10	39	-	58	-	1.79	(1.06- 3.02)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
*MCCON1	2	b	5	23	-	193	-	0.99	(0.67- 1.47)
MCCON2	1	b	0	7	59	8	149	2.21	(0.77- 6.37)
*MCKEEV	3	b	0	1088	5003	2609	15730	1.31	(1.23- 1.40)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY								1.37	(0.91- 2.07)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*PONSON	4	b	6	130	-	146	-	1.05	(0.87- 1.27)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)
RATAGE	2	b	0	51	29	69	31	0.79	(0.42- 1.47)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
*RONMAR	5	b	9	-	-	-	-	1.36	(0.82- 2.25)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SHAMGS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
SOYSET	4	b	0	25	256	26	311	1.17	(0.66- 2.07)
STANHO	2	b	0	7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE	1	b	0	59	149	58	108	0.74	(0.48- 1.14)
WITHER	6	b	5	103	-	395	-	1.50	(1.14- 1.98)

Appendix Table A13 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI
				Exposed Case	Cont 20962	Case	Cont 37859		
Partial Totals									
*prospective study									
REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps		
ALBA	2	b	0	0.09	10.78	0.22	0.7608		
ALDAWO	2	m	0	0.76	8.40	2.32	0.0274		
ALFRA1	2	b	0	0.41	22.65	0.70	0.0498		
ANDRAE	2	b	3	-0.01	54.89	3.33	0.9406		
ANNESI	1	b	0	0.25	89.09	0.03	0.0166		
BENER	1	b	0	0.24	19.32	0.00	0.2839		
BURCHF	5	m	1	0.22	32.51	0.01	0.2200		
BURCHF	8	f	1	0.00	24.97	1.39	1.0000		
Subtotal BURCHF				-0.26	57.49	1.41			
BUTZ	3	b	0	0.11	6.23	0.09	0.7761		
CHEN2	33	b	6	0.54	10.99	1.03	0.0723		
DELL	2	b	0	0.42	18.30	0.61	0.0733		
DODGE	12	b	1	0.41	7.12	0.20	0.2794		
DOLD	7	b	0	0.19	92.36	0.23	0.0734		
ECE	7	b	0	0.12	63.38	0.85	0.3376		
EHRLI2	2	b	0	0.64	10.93	1.80	0.0338		
FARBE2	2	b	3	0.41	57.72	1.79	0.0017		
FAROOQ	1	b	0	0.25	72.93	0.03	0.0297		
*FERGUS	7	b	0	0.04	37.52	1.46	0.8106		
FORAST	20	b	9	0.25	37.10	0.00	0.1327		
GOLD	11	b	0	0.26	211.41	0.08	0.0002		
GOREN1	4	b	0	0.36	23.61	0.34	0.0838		
GOREN2	5	b	2	0.22	99.84	0.04	0.0316		
GORTM1	3	b	7	0.40	36.85	0.98	0.0155		
GORTM2	1	b	0	0.63	6.99	1.06	0.0978		
HAJNAL	3	b	13	0.15	49.92	0.38	0.2943		
HU1	4	b	7	-0.22	12.73	2.69	0.4259		
HU2	23	b	3	0.44	31.16	1.27	0.0144		
JENKIN	5	b	7	0.23	116.41	0.00	0.0126		
KAY	20	b	1	0.35	38.89	0.51	0.0288		
KERSHA	5	b	1	0.89	19.22	8.17	0.0001		
KIVITY	4	b	0	0.59	13.44	1.66	0.0311		
KUEHR	5	b	1	-0.26	27.45	6.79	0.1709		
KUHR	3	b	0	0.64	9.58	1.60	0.0461		
LAM1	18	b	4	0.28	10.02	0.02	0.3796		
LAM2	9	b	4	-0.14	42.22	5.95	0.3655		
*LEEDER	2	b	1	0.29	8.17	0.02	0.4149		
LEROUX	2	b	10	0.58	14.02	1.68	0.0293		
LIS	1	b	0	0.31	37.30	0.19	0.0604		
LISTER	3	b	8	0.42	64.33	2.15	0.0008		
*MARTIN	5	m	1	0.56	11.93	1.25	0.0533		
*MARTIN	6	f	1	0.68	5.55	1.11	0.1075		
Subtotal MARTIN				0.77	17.48	2.36			
*MCCON1	2	b	5	-0.01	24.89	1.51	0.9600		
MCCON2	1	b	0	0.79	3.43	1.06	0.1420		
*MCKEEV	3	b	0	0.27	962.51	1.17	0.0000		
MURRAY	5	m	1	0.34	14.28	0.17	0.1941		
MURRAY	7	f	1	0.27	8.50	0.01	0.4311		
Subtotal MURRAY				0.14	22.78	0.17			
NILSSO	1	b	0	0.00	31.98	1.78	1.0000		
OCONNE	1	b	0	0.25	33.98	0.01	0.1384		
*PONSON	4	b	6	0.05	107.38	3.77	0.6131		
RASANE	3	b	3	0.46	27.24	1.41	0.0155		
RATAGE	2	b	0	-0.24	9.92	2.21	0.4582		
RENNIE	1	b	6	0.02	13.41	0.63	0.9422		
*RONMAR	5	b	9	0.31	15.08	0.08	0.2324		
ROSASV	1	b	0	0.45	3.25	0.15	0.4168		
SHAMSS	2	b	0	0.33	79.17	0.69	0.0034		
*SHERMA	2	b	2	0.17	19.90	0.10	0.4603		
*SIGURS	1	b	0	0.18	3.26	0.01	0.7422		
SOYSET	4	b	0	0.16	11.68	0.08	0.5953		
STANHO	2	b	0	-0.92	4.90	6.52	0.0423		
*TAYLOR	4	b	0	-0.04	72.55	5.56	0.7281		

Appendix Table A13 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
VENNER	6	m	0	0.09	27.66	0.55	0.6182
VENNER	3	f	0	0.18	28.98	0.10	0.3399
Subtotal	VENNER			-0.20	56.63	0.65	
VERHOE	1	b	0	-0.30	19.94	5.83	0.1737
WITHER	6	b	5	0.41	50.42	1.45	0.0040

RR data

	N	64
	NS	60
	Wt	3142.50
Het	Chi	88.85
Het	df	63
Het	P	*
Fixed	RR	1.27
	RRl	1.22
	RRu	1.31
	P	+++
Random	RR	1.26
	RRl	1.19
	RRu	1.32
	P	+++
Asymm	P	N.S.

Appendix Table A13 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

RR data

	N	64			
	NS	60			
	Wt	3142.50			
Het	Chi	88.85			
Het	df	63			
Het	P	*			
Fixed	RR	1.27			
	RRl	1.22			
	RRu	1.31			
	P	+++			
Random	RR	1.26			
	RRl	1.19			
	RRu	1.32			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	55	5	4	64
	NS	55	5	4	64
	Wt	2979.72	94.79	68.00	3142.50
Het	Chi	81.94	4.01	2.27	88.85
Het	df	54	4	3	63
Het	P	**	N.S.	N.S.	*
Fixed	RR	1.27	1.34	1.18	1.27
	RRl	1.22	1.09	0.93	1.22
	RRu	1.31	1.64	1.50	1.31
	P	+++	++	N.S.	+++
Random	RR	1.25	1.34	1.18	1.26
	RRl	1.19	1.09	0.93	1.19
	RRu	1.32	1.64	1.50	1.32
	P	+++	++	N.S.	+++
Between	Chi				0.63
Between	df				2
Between	P				N.S.

Appendix Table A13 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	BARRET	BECKET	BRABIN	CHEN1	FIELDE	FLYNN1	FLYNN2	GURKAN	KALYO1	KEARNE	KENDIR	MAIER	MONTEF	MOYES1	MOYES2
	ODDY	POKHAR	RONCH1	RONCH2	RONCH3	RUDNIK	SELCUK	SENNHA	SPIEKE	SQUILL	TIMONE	TSIMOY	VARELA	VAVILI	WOLFO1	WOLFO2
	WOLFO3															
3	CUNNI2	GILLIL	KAPLAN	KELLY	NHANE3	NYSTAD	WEITZ1	XU								
5	BURR	DEBENE	GOREN3	GOREN4	GOREN5	GOREN6	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	VONMAF	ZEIGER	ZEJDA	
13	ALFRA2	FARBE1	FARBE3													

Appendix Table A13 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP														RR	SIG
MCCON1	GILLIL	2	MCCON1/GILLIL															
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3															
KUEHR	KUEHR	1	KUEHR/SPIEKE															
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2															
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6															
Adjusted - insufficient data for metaanalysis																		
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG		
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	1.01	?		
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	*	n		
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	1.46	y		
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	*	n		
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	1.67	y		
KIVITY	5	b	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	*	y		
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	*	n		
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	*	n		
SANZOR	1	b	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	*	n		
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	*	n		
SOYSET	10	b	7	13	all	Eu:Sca	1989	1995	CS	1	Mother	NotMothr	current	non	*	n		
STAZI	9	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	current	non	*	n		
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	1.35	y		
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	*	n		
VOLKME	2	b	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	*	n		
VONMAF	3	b	0	17	all	NAmer	1993	2001	CS	7	Mother	NotMothr	ever	never	*	y		
ZEIGER	4	b	0	7	all	NAmer	1981	1995	Pr	4	Mother	NotMothr	unspec	non	*	n		
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	*	n		

Appendix Table A14 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 7) WHESMO : current, at a specific age (oldest first), unspecified, during child's lifetime, ever (i.e. during smoker's lifetime)
- 8) UNEXSO : none in household, neither parent, not specific parent
- 9) UNEXTI : not at longer time (KUHR: not since birth), never (in smoker's lifetime), not at specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A13 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A14 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	CompA13	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAWO	2		m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non
ANDRAE	2		b	0	16	all	Eu:Sca	1985	1988	CS	3	AnyPar	NoParent	in life	non
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non
BENER	1		b	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non
BURCHF	5		m	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BURCHF	8		f	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BUTZ	2	x	b	*	*	all	NAmer	1989	1992	CC	0	AnyPar	NotSpPar	current	never
CHEN2	32	x	b	6	17	all	NAmer	1993	1996	CS	6	Mother	NotMothr	current	never
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non
DODGE	12		b	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non
DOLD	7		b	9	11	all	Eu:Ger	1989	1992	CS	0	AnyPar	NoParent	unspec	non
ECE	2	x	b	6	15	all	Eu:est	1999	2001	CS	0	Mother	NoHhMemb	current	non
EHRLI2	2		b	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	current	non
FARBE2	2		b	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non
FORAST	20		b	7	11	all	Eu:Ita	1987	1992	CS	9	AnyPar	NoParent	unspec	non
GOLD	11		b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non
GOREN1	1	x	b	7	11	all	As:ME	1980	1986	CS	0	Mother	NoHhMemb	current	non
GOREN2	5		b	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never
GORTM1	3		b	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non
GORTM2	1		b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non
HAJNAL	3		b	6	14	all	Eu:wst	1992	1999	CS	13	Mother	NotMothr	current	non
HU1	4		b	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non
HU2	23		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non
JENKIN	5		b	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non
KAY	20		b	3	11	all	Eu:UK	*	1995	CS	1	AnyPar	NoParent	unspec	non
KERSHA	6	x	b	0	5	all	Eu:UK	1983	1987	CC	1	Mother	LowHh	<3y	non
KIVITY	4		b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non
KUEHR	5		b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	current	non
KUHR	6	x	b	7	16	all	Eu:Ger	1987	1991	CS	6	AnyPar	NoParent	current	othr
LAM1	18		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	9		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LEEDER	2		b	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non
LEROUX	2		b	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non
LISTER	3		b	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MCCON1	2		b	9	18	all	NAmer	1993	2002	Pr	5	Mother	NotMothr	9-16y	non
MCCON2	1		b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non
MCKEEV	2	x	b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	current	never
MURRAY	5		m	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
MURRAY	7		f	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
NILSSO	1		b	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non
PONSON	9	x	b	0	7	all	Auslia	1988	2000	Pr	0	Mother	NoHhMemb	<1m	non
RASANE	3		b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never
RATAGE	3	x	b	5	15	all	As:cen	1996	2000	CC	0	Father	NoHhMemb	unspec	non
RENNIE	1		b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non
RONMAR	5		b	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non
SOYSET	4		b	7	13	all	Eu:Sca	1989	1995	CS	0	Mother	NotMothr	current	non
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VERHOE	2	x	b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	current	never
WITHER	4	x	b	14	16	all	Eu:UK	1995	1998	CS	0	Mother	NoHhMemb	current	non

Appendix Table A14 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	2	b	0	32	30	70	72	1.10	(0.60- 1.99)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	2	b	0	15	14	47	54	1.23	(0.54- 2.81)
CHEN2	32	b	6	22	-	42	-	2.03	(1.07- 3.88)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	7	b	0	176	1822	235	2931	1.20	(0.98- 1.48)
ECE	2	b	0	96	530	132	906	1.24	(0.94- 1.65)
EHRLI2	2	b	0	-	-	-	-	1.90	(1.10- 3.60)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	1	b	0	37	279	50	514	1.36	(0.87- 2.14)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
HAJNAL	3	b	13	-	-	-	-	1.16	(0.89- 1.55)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KERSHA	6	b	1	51	-	15	-	3.61	(1.99- 6.53)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	5	b	1	41	-	121	-	0.77	(0.53- 1.12)
KUHR	6	b	6	20	-	7	-	2.58	(1.07- 6.23)
LAM1	18	b	4	-	-	201	-	1.32	(0.71- 2.45)
LAM2	9	b	4	-	-	-	-	0.87	(0.64- 1.17)
*LEEDER	2	b	1	48	-	11	-	1.33	(0.67- 2.64)
LEROUX	2	b	10	39	-	58	-	1.79	(1.06- 3.02)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
*MCCON1	2	b	5	23	-	193	-	0.99	(0.67- 1.47)
MCCON2	1	b	0	7	59	8	149	2.21	(0.77- 6.37)
*MCKEEV	2	b	0	1088	5003	2088	13058	1.36	(1.27- 1.45)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY								1.37	(0.91- 2.07)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*PONSON	9	b	0	130	382	88	293	1.13	(0.91- 1.42)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)
RATAGE	3	b	0	51	29	58	30	0.91	(0.48- 1.71)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
*RONMAR	5	b	9	-	-	-	-	1.36	(0.82- 2.25)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SHAMGS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
SOYSET	4	b	0	25	256	26	311	1.17	(0.66- 2.07)
STANHO	2	b	0	7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE	2	b	0	59	149	39	72	0.73	(0.45- 1.20)
WITHER	4	b	0	103	299	296	1107	1.29	(1.00- 1.67)

Appendix Table A14 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI
				Exposed Case	Cont 21422	Case	Cont 34410		
Partial Totals				5634	21422	7498	34410		
*prospective study									
REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps		
ALBA	2	b	0	0.09	10.78	0.27	0.7608		
ALDAWO	2	m	0	0.76	8.40	2.19	0.0274		
ALFRA1	2	b	0	0.41	22.65	0.59	0.0498		
ANDRAE	2	b	3	-0.01	54.89	3.72	0.9406		
ANNESI	1	b	0	0.25	89.09	0.00	0.0166		
BENER	1	b	0	0.24	19.32	0.00	0.2839		
BURCHF	5	m	1	0.22	32.51	0.04	0.2200		
BURCHF	8	f	1	0.00	24.97	1.57	1.0000		
Subtotal BURCHF				-0.29	57.49	1.61			
BUTZ	2	b	0	0.21	5.62	0.01	0.6222		
CHEN2	32	b	6	0.71	9.26	1.94	0.0312		
DELL	2	b	0	0.42	18.30	0.52	0.0733		
DODGE	12	b	1	0.41	7.12	0.17	0.2794		
DOLD	7	b	0	0.19	92.36	0.38	0.0734		
ECE	2	b	0	0.22	47.66	0.05	0.1329		
EHRLI2	2	b	0	0.64	10.93	1.68	0.0338		
FARBE2	2	b	3	0.41	57.72	1.51	0.0017		
FAROOQ	1	b	0	0.25	72.93	0.00	0.0297		
*FERGUS	7	b	0	0.04	37.52	1.67	0.8106		
FORAST	20	b	9	0.25	37.10	0.00	0.1327		
GOLD	11	b	0	0.26	211.41	0.01	0.0002		
GOREN1	1	b	0	0.31	19.03	0.07	0.1764		
GOREN2	5	b	2	0.22	99.84	0.12	0.0316		
GORTM1	3	b	7	0.40	36.85	0.81	0.0155		
GORTM2	1	b	0	0.63	6.99	0.99	0.0978		
HAJNAL	3	b	13	0.15	49.92	0.52	0.2943		
HU1	4	b	7	-0.22	12.73	2.85	0.4259		
HU2	23	b	3	0.44	31.16	1.10	0.0144		
JENKIN	5	b	7	0.23	116.41	0.04	0.0126		
KAY	20	b	1	0.35	38.89	0.39	0.0288		
KERSHA	6	b	1	1.28	10.88	11.62	0.0000		
KIVITY	4	b	0	0.59	13.44	1.53	0.0311		
KUEHR	5	b	1	-0.26	27.45	7.19	0.1709		
KUHR	6	b	6	0.95	4.95	2.41	0.0350		
LAM1	18	b	4	0.28	10.02	0.01	0.3796		
LAM2	9	b	4	-0.14	42.22	6.41	0.3655		
*LEEDER	2	b	1	0.29	8.17	0.01	0.4149		
LEROUX	2	b	10	0.58	14.02	1.54	0.0293		
LIS	1	b	0	0.31	37.30	0.12	0.0604		
LISTER	3	b	8	0.42	64.33	1.82	0.0008		
*MARTIN	5	m	1	0.56	11.93	1.14	0.0533		
*MARTIN	6	f	1	0.68	5.55	1.04	0.1075		
Subtotal MARTIN				0.74	17.48	2.18			
*MCCON1	2	b	5	-0.01	24.89	1.69	0.9600		
MCCON2	1	b	0	0.79	3.43	1.01	0.1420		
*MCKEEV	2	b	0	0.31	891.60	2.91	0.0000		
MURRAY	5	m	1	0.34	14.28	0.12	0.1941		
MURRAY	7	f	1	0.27	8.50	0.00	0.4311		
Subtotal MURRAY				0.11	22.78	0.13			
NILSSO	1	b	0	0.00	31.98	2.00	1.0000		
OCONNE	1	b	0	0.25	33.98	0.00	0.1384		
*PONSON	9	b	0	0.12	76.77	1.21	0.2736		
RASANE	3	b	3	0.46	27.24	1.24	0.0155		
RATAGE	3	b	0	-0.09	9.55	1.14	0.7697		
RENNIE	1	b	6	0.02	13.41	0.71	0.9422		
*RONMAR	5	b	9	0.31	15.08	0.05	0.2324		
ROSASV	1	b	0	0.45	3.25	0.13	0.4168		
SHAMSS	2	b	0	0.33	79.17	0.49	0.0034		
*SHERMA	2	b	2	0.17	19.90	0.14	0.4603		
*SIGURS	1	b	0	0.18	3.26	0.02	0.7422		
SOYSET	4	b	0	0.16	11.68	0.11	0.5953		
STANHO	2	b	0	-0.92	4.90	6.68	0.0423		
*TAYLOR	4	b	0	-0.04	72.55	6.15	0.7281		

Appendix Table A14 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
VENNER	6	m	0	0.09	27.66	0.67	0.6182
VENNER	3	f	0	0.18	28.98	0.15	0.3399
Subtotal	VENNER			-0.23	56.63	0.82	
VERHOE	2	b	0	-0.31	15.83	5.03	0.2126
WITHER	4	b	0	0.25	57.69	0.00	0.0543

RR data

	N	64
	NS	60
	Wt	3008.19
Het	Chi	89.72
Het	df	63
Het	P	*
Fixed	RR	1.28
	RRl	1.24
	RRu	1.33
	P	+++
Random	RR	1.26
	RRl	1.20
	RRu	1.33
	P	+++
Asymm	P	N.S.

Appendix Table A14 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

RR data

	N	64			
	NS	60			
	Wt	3008.19			
Het	Chi	89.72			
Het	df	63			
Het	P	*			
Fixed	RR	1.28			
	RRl	1.24			
	RRu	1.33			
	P	+++			
Random	RR	1.26			
	RRl	1.20			
	RRu	1.33			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	55	5	4	64
	NS	55	5	4	64
	Wt	2845.40	94.79	68.00	3008.19
Het	Chi	82.79	4.01	2.27	89.72
Het	df	54	4	3	63
Het	P	**	N.S.	N.S.	*
Fixed	RR	1.29	1.34	1.18	1.28
	RRl	1.24	1.09	0.93	1.24
	RRu	1.33	1.64	1.50	1.33
	P	+++	++	N.S.	+++
Random	RR	1.26	1.34	1.18	1.26
	RRl	1.19	1.09	0.93	1.20
	RRu	1.33	1.64	1.50	1.33
	P	+++	++	N.S.	+++
Between	Chi				0.65
Between	df				2
Between	P				N.S.

Appendix Table A14 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	BARRET	BECKET	BRABIN	CHEN1	FIELDE	FLYNN1	FLYNN2	GURKAN	KALYO1	KEARNE	KENDIR	MAIER	MONTEF	MOYES1	MOYES2
	ODDY	POKHAR	RONCH1	RONCH2	RONCH3	RUDNIK	SELCUK	SENNHA	SPIEKE	SQUILL	TIMONE	TSIMOY	VARELA	VAVILI	WOLFO1	WOLFO2
	WOLFO3															
3	CUNNI2	GILLIL	KAPLAN	KELLY	NHANE3	NYSTAD	WEITZ1	XU								
5	BURR	DEBENE	GOREN3	GOREN4	GOREN5	GOREN6	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	VONMAF	ZEIGER	ZEJDA	
13	ALFRA2	FARBE1	FARBE3													

Appendix Table A14 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
MCCON1	GILLIL	2	MCCON1/GILLIL
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3
KUEHR	KUEHR	1	KUEHR/SPIEKE
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	1.01	?
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	*	n
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	1.46	y
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	*	n
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	1.67	y
KIVITY	5	b	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	*	y
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	*	n
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	*	n
SANZOR	1	b	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	*	n
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	*	n
SOYSET	10	b	7	13	all	Eu:Sca	1989	1995	CS	1	Mother	NotMothr	current	non	*	n
STAZI	9	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	current	non	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	1.35	y
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	*	n
VOLKME	2	b	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	*	n
VONMAF	3	b	0	17	all	NAmer	1993	2001	CS	7	Mother	NotMothr	ever	never	*	y
ZEIGER	4	b	0	7	all	NAmer	1981	1995	Pr	4	Mother	NotMothr	unspec	non	*	n
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	*	n

Appendix Table A15 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 7) WHESMO : current, at a specific age (oldest first), unspecified, during child's lifetime, ever (i.e. during smoker's lifetime)
- 8) UNEXSO : not specific parent, neither parent, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A7 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A15 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

REF	NRR	CompA7	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	14		b	6	7	all	Eu:Ita	1994	1999	CC	11	AnyPar	NoParent	current	never
AGABI2	14		b	13	14	all	Eu:Ita	1994	1999	CC	12	AnyPar	NoParent	current	never
ARSHAD	1		b	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non
CHEN2	46	x	b	6	17	all	NAmer	1993	1996	CS	1	Mother	NotMothr	current	non
DAIGLE	3		b	0	*	all	NAmer	1986	1991	CC	7	Mother	NotMothr	unspec	non
FAGBUL	2		b	0	18	all	Africa	*	1994	CC	1	AnyPar	NoParent	unspec	non
GILLIL	36		b	7	19	all	NAmer	1993	2001	CS	8	Mother	NoHhMemb	current	non
GOLD	6	x	b	6	14	all	NAmer	1974	1993	Pr	11	Mother	NotMothr	current	non
HABY	4		b	3	5	all	Auslia	1995	2001	CS	9	AnyPar	NoParent	<6m	non
HJERN1	16	x	b	3	15	all	Eu:Sca	1996	2001	CS	9	Mother	NotMothr	current	non
HJERN2	16	x	b	3	15	all	Eu:Sca	1996	2001	CS	9	Father	NotFathr	current	non
HOST	1		b	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non
HU1	6		b	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non
HU2	24		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non
INFANT	10		b	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non
JONES	2		b	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non
LAM1	20		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	12		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LAU	1		b	3	10	all	As:FE	1989	1995	CS	0	AnyPar	NoParent	current	non
LEEN	1		b	9	9	all	Eu:wst	1991	1994	CC	0	AnyPar	NoParent	unspec	non
LILLJE	1		b	7	10	all	Eu:Sca	1991	1997	CS	0	AnyPar	NoParent	unspec	non
LINDFO	1		b	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non
MOUSSA	1		b	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCUO	2		b	3	15	all	As:ME	1986	1994	CC	0	Mother	NotMothr	unspec	non
OHARA	6		b	3	12	all	As:FE	2001	2002	CS	4	AnyPar	NoParent	current	non
PALMIE	3		b	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non
PIC	1		b	5	15	all	Eu:wst	1999	2002	CS	0	AnyPar	NoParent	unspec	non
RIBEIR	1		b	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non
RONMAR	1		b	7	8	all	Eu:Sca	1996	2002	Pr	5	Mother	NotMothr	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHOHAT	4		b	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non
SOTOQU	1		b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non
STANHO	1		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
STERN1	1		b	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non
STODDA	10		b	0	17	all	NAmer	1986	1995	CS	9	Mother	NotMothr	current	non
STRACH	9		b	13	18	all	Eu:UK	1993	1995	CC	4	Mother	NotMothr	current	non
TARIQ	16	x	b	4	4	all	Eu:UK	1989	2000	Pr	7	Mother	NotMothr	current	non
TOMINA	2		b	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non
WILLE1	7		b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non
ZHENG	26		b	6	10	all	As:FE	1999	2002	CC	0	Mother	NotMothr	in life	non

Appendix Table A15 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	14	b	11	558	-	148	-	1.34	(1.11- 1.62)
AGABI2	14	b	12	700	-	203	-	1.17	(0.99- 1.39)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80- 14.60)
CHEN2	46	b	1	15	-	59	-	1.02	(0.55- 1.90)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10- 3.47)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84- 2.36)
GILLIL	36	b	8	-	-	-	-	0.90	(0.50- 1.50)
GOLD	6	b	11	-	-	-	-	1.10	(0.92- 1.31)
HABY	4	b	9	86	-	104	-	1.62	(0.95- 2.75)
HJERN1	16	b	9	31	-	88	-	0.87	(0.58- 1.30)
HJERN2	16	b	9	12	-	66	-	0.81	(0.45- 1.47)
HOST	1	b	0	20	457	14	285	0.89	(0.44- 1.79)
HU1	6	b	0	28	148	44	238	1.02	(0.61- 1.71)
HU2	24	b	3	34	-	84	-	1.47	(0.97- 2.23)
INFANT	10	b	19	183	-	273	-	1.40	(0.95- 2.05)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
LAM1	20	b	4	-	-	35	-	2.13	(0.72- 6.33)
LAM2	12	b	4	-	-	-	-	0.69	(0.39- 1.22)
LAU	1	b	0	19	247	9	158	1.35	(0.60- 3.06)
LEEN	1	b	0	46	45	69	51	0.76	(0.44- 1.31)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81- 1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15- 2.37)
MOUSSA	1	b	0	1	0	202	203	3.01~	(0.12- 74.44)
MUMCUO	2	b	0	0	4	300	96	0.04~	(0.00- 0.67)
OHARA	6	b	4	82	-	59	-	0.91	(0.65- 1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70- 1.42)
PIC	1	b	0	51	829	60	1069	1.10	(0.75- 1.61)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59- 2.41)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12- 2.28)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95- 1.55)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14- 2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13- 1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63- 1.98)
STODDA	10	b	9	224	-	443	-	1.36	(1.14- 1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85- 1.79)
TARIQ	16	b	7	-	-	-	-	1.20	(0.30- 2.70)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
ZHENG	26	b	0	13	13	390	793	2.03	(0.93- 4.43)
Partial Totals				3187	3789	4606	8162		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	14	b	11	0.29	107.50	0.95	0.0024
AGABI2	14	b	12	0.16	133.43	0.23	0.0697
ARSHAD	1	b	7	1.20	1.82	1.84	0.1044
CHEN2	46	b	1	0.02	10.00	0.32	0.9501
DAIGLE	3	b	7	0.67	11.64	2.62	0.0217
FAGBUL	2	b	1	0.34	14.40	0.30	0.1923
GILLIL	36	b	8	-0.11	12.73	1.18	0.7070
GOLD	6	b	11	0.10	123.03	1.31	0.2904
HABY	4	b	9	0.48	13.60	1.10	0.0752
HJERN1	16	b	9	-0.14	23.59	2.69	0.4988
HJERN2	16	b	9	-0.21	10.97	1.84	0.4853
HOST	1	b	0	-0.12	7.87	0.78	0.7459
HU1	6	b	0	0.02	14.41	0.44	0.9302
HU2	24	b	3	0.39	22.17	0.77	0.0697
INFANT	10	b	19	0.34	25.97	0.49	0.0864
JONES	2	b	0	0.16	9.47	0.02	0.6266
LAM1	20	b	4	0.76	3.25	1.01	0.1727
LAM2	12	b	4	-0.37	11.81	3.83	0.2022
LAU	1	b	0	0.30	5.74	0.06	0.4716
LEEN	1	b	0	-0.28	12.81	2.94	0.3157
LILLJE	1	b	0	0.09	42.18	0.54	0.5801
LINDFO	1	b	0	0.50	29.55	2.70	0.0065
MOUSSA	1	b	0	1.10	0.37	0.31	0.5000

Appendix Table A15 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
MUMCUO	2	b	0	-3.33	0.45	5.58	0.0258
OHARA	6	b	4	-0.09	34.25	2.94	0.5810
PALMIE	3	b	0	-0.00	30.71	1.22	0.9963
PIC	1	b	0	0.09	26.03	0.30	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMAR	1	b	5	0.47	30.41	2.24	0.0095
SCHMIT	1	b	4	0.73	13.33	3.73	0.0079
SHOHAT	4	b	12	0.19	64.12	0.00	0.1269
SOTOQU	1	b	0	0.42	46.33	2.33	0.0040
STANHO	1	b	0	-1.02	3.66	5.45	0.0507
STERN1	1	b	0	0.11	11.71	0.10	0.7107
STODDA	10	b	9	0.31	124.44	1.48	0.0006
STRACH	9	b	4	0.21	27.70	0.00	0.2759
TARIQ	16	b	7	0.18	3.18	0.00	0.7450
TOMINA	2	b	0	-1.06	1.84	2.90	0.1515
WILLE1	7	b	0	0.68	6.06	1.39	0.0955
ZHENG	26	b	0	0.71	6.34	1.66	0.0739

RR data

	N	40
	NS	40
	Wt	1086.65
Het	Chi	59.57
Het	df	39
Het	P	*
Fixed	RR	1.22
	RRl	1.15
	RRu	1.29
	P	+++
Random	RR	1.21
	RRl	1.11
	RRu	1.32
	P	+++
Asymm	P	N.S.

Appendix Table A15 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

RR data

	N	40			
	NS	40			
	Wt	1086.65			
Het	Chi	59.57			
Het	df	39			
Het	P	*			
Fixed	RR	1.22			
	RRl	1.15			
	RRu	1.29			
	P	+++			
Random	RR	1.21			
	RRl	1.11			
	RRu	1.32			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	40		40	
	NS	40		40	
	Wt	1086.65		1086.65	
Het	Chi	59.57		59.57	
Het	df	39		39	
Het	P	*		*	
Fixed	RR	1.22		1.22	
	RRl	1.15		1.15	
	RRu	1.29		1.29	
	P	+++		+++	
Random	RR	1.21		1.21	
	RRl	1.11		1.11	
	RRu	1.32		1.32	
	P	+++		+++	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A15 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	CALL	CHHABR	CLARK	DEKKER	DIJKST	DOTTER	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	JAAKKO	KALYO1	KALYO2
	KARUNA	KNIGHT	LEE1	LEE2	MELIA	MELSOM	NHANE3	NITTA	PETERS	SARRAZ	SELCUK	WANG	WILLE2	WOLFO1	WOLFO2	WOLFO3
	YANG															
3	BERGMA	CSONKA	EHRLI1	OLIVET	WEITZ1	WEITZ2										
4	CHINN	SOMERV														
5	AZIZI	BALL	CUNNI1	DEKOK	HUGHES	LOPEZC	MCCON2	MOHAME	STERN2							

Appendix Table A15 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP	
GILLIL	GILLIL	1	MCCON1/GILLIL	
HJERN1	HJERN1	1	HJERN1/HJERN2	
HJERN2	HJERN2	1	HJERN1/HJERN2	
STERN1	STERN1	1	STERN1/STERN2	

Adjusted - insufficient data for metaanalysis																
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ARSHAD	7	b	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non	*	n
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	*	n
BALL	1	b	6	13	all	NAmer	1980	2000	Pr	0	AnyPar	NoParent	unspec	non	*	n
CUNNI1	11	b	8	11	all	NAmer	1988	1996	CS	9	Mother	NotMothr	current	non	0.84	?
DEKOK	1	b	6	12	all	Eu:wst	1993	1996	CS	6	Mother	NotMothr	unspec	non	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	*	n
LOPEZC	3	b	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	1.06	n
MCCON2	4	b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non	*	n
MOHAME	2	b	9	11	all	Africa	1990	1995	CC	0	Mother	NotMothr	unspec	non	*	n
PALMIE	10	b	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non	*	y
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	0.98	n

Appendix Table A16 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 7) WHESMO : current, at a specific age (oldest first), unspecified, during child's lifetime, ever (i.e. during smoker's lifetime)
- 8) UNEXSO : none in household, neither parent, not specific parent
- 9) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A15 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A16 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

REF NRR CompA15 SEX AGEL AGEH RACE	LOC BEGYR PUBYR STTYP ADJ EXP-who UNEXsource	EXPOS-time UNEXTI
AGABI1 14	b 6 7 all Eu:Ita 1994 1999	CC 11 AnyPar NoParent current never
AGABI2 14	b 13 14 all Eu:Ita 1994 1999	CC 12 AnyPar NoParent current never
ARSHAD 1	b 1 1 all Eu:UK 1990 1992	Pr 7 AnyPar NoParent utero/life non
CHEN2 45	x b 6 17 all NAmer 1993 1996	CS 1 Mother NotMothr current never
DAIGLE 3	b 0 * all NAmer 1986 1991	CC 7 Mother NotMothr unspec non
FAGBUL 2	b 0 18 all Africa * 1994	CC 1 AnyPar NoParent unspec non
GILLIL 36	b 7 19 all NAmer 1993 2001	CS 8 Mother NoHhMemb current non
GOLD 5	x b 6 14 all NAmer 1974 1993	Pr 11 Mother NotMothr current never
HABY 4	b 3 5 all Auslia 1995 2001	CS 9 AnyPar NoParent <6m non
HJERN1 12	x b 3 15 all Eu:Sca 1996 2001	CS 9 Mother NotMothr current never
HJERN2 12	x b 3 15 all Eu:Sca 1996 2001	CS 9 Father NotFathr current never
HOST 1	b 6 17 all Eu:Sca 1990 1993	CS 0 AnyPar NoParent current non
HU1 6	b 10 11 all NAmer 1994 1997	CS 0 Mother NotMothr current non
HU2 24	b 20 22 all NAmer 1986 1997	Pr 3 AnyPar LowParnt 13-15y non
INFANT 10	b 3 4 all NAmer 1988 1993	CC 19 Mother NotMothr in life non
JONES 2	b 4 16 all Eu:UK 1996 1999	CC 0 Mother NotMothr unspec non
LAM1 20	b 12 15 all As:FE 1994 1998	CS 4 Mother NoHhMemb unspec non
LAM2 12	b 8 13 all As:FE 1995 1999	CS 4 Father NoHhMemb current non
LAU 1	b 3 10 all As:FE 1989 1995	CS 0 AnyPar NoParent current non
LEEN 1	b 9 9 all Eu:wst 1991 1994	CC 0 AnyPar NoParent unspec non
LILLJE 1	b 7 10 all Eu:Sca 1991 1997	CS 0 AnyPar NoParent unspec non
LINDFO 1	b 1 4 all Eu:Sca 1990 1995	CC 0 AnyPar NoParent <2y non
MOUSSA 1	b 6 18 all As:ME 1992 1996	CC 0 Mother NotMothr unspec non
MUMCUO 2	b 3 15 all As:ME 1986 1994	CC 0 Mother NotMothr unspec non
OHARA 6	b 3 12 all As:FE 2001 2002	CS 4 AnyPar NoParent current non
PALMIE 3	b 1 12 all Eu:Ita * 1990	CC 0 AnyPar NoParent unspec non
PIC 1	b 5 15 all Eu:wst 1999 2002	CS 0 AnyPar NoParent unspec non
RIBEIR 1	b 4 9 all SCAmer 1996 2002	CS 0 AnyPar NoParent current non
RONMAR 1	b 7 8 all Eu:Sca 1996 2002	Pr 5 Mother NotMothr unspec non
SCHMIT 1	b 6 15 all Eu:wst 1989 1993	CS 4 Mother NotMothr unspec non
SHOHAT 4	b 13 14 all As:ME 1997 2002	CS 12 Mother NotMothr unspec non
SOTOQU 1	b 5 17 all SCAmer 1987 1994	CS 0 Mother NotMothr current non
STANHO 1	b 12 18 all Auslia 1975 1979	CS 0 Mother NotMothr current non
STERN1 1	b 7 12 all NAmer 1983 1989	CS 0 Mother NotMothr unspec non
STODDA 10	b 0 17 all NAmer 1986 1995	CS 9 Mother NotMothr current non
STRACH 9	b 13 18 all Eu:UK 1993 1995	CC 4 Mother NotMothr current non
TARIQ 16	b 4 4 all Eu:UK 1989 2000	Pr 7 Mother NotMothr current non
TOMINA 2	b 3 3 all As:FE 1978 1985	CS 0 Mother NoHhMemb unspec non
WILLE1 7	b 3 15 all Eu:Sca 1988 1991	CC 0 AnyPar NoParent current non
ZHENG 26	b 6 10 all As:FE 1999 2002	CC 0 Mother NotMothr in life non

Appendix Table A16 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	14	b	11	558	-	148	-	1.34	(1.11- 1.62)
AGABI2	14	b	12	700	-	203	-	1.17	(0.99- 1.39)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80- 14.60)
CHEN2	45	b	1	15	-	37	-	1.07	(0.56- 2.07)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10- 3.47)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84- 2.36)
GILLIL	36	b	8	-	-	-	-	0.90	(0.50- 1.50)
GOLD	5	b	11	-	-	-	-	1.05	(0.87- 1.28)
HABY	4	b	9	86	-	104	-	1.62	(0.95- 2.75)
HJERN1	12	b	9	31	-	58	-	0.76	(0.49- 1.16)
HJERN2	12	b	9	12	-	34	-	0.81	(0.43- 1.52)
HOST	1	b	0	20	457	14	285	0.89	(0.44- 1.79)
HU1	6	b	0	28	148	44	238	1.02	(0.61- 1.71)
HU2	24	b	3	34	-	84	-	1.47	(0.97- 2.23)
INFANT	10	b	19	183	-	273	-	1.40	(0.95- 2.05)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
LAM1	20	b	4	-	-	35	-	2.13	(0.72- 6.33)
LAM2	12	b	4	-	-	-	-	0.69	(0.39- 1.22)
LAU	1	b	0	19	247	9	158	1.35	(0.60- 3.06)
LEEN	1	b	0	46	45	69	51	0.76	(0.44- 1.31)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81- 1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15- 2.37)
MOUSSA	1	b	0	1	0	202	203	3.01~	(0.12- 74.44)
MUMCUO	2	b	0	0	4	300	96	0.04~	(0.00- 0.67)
OHARA	6	b	4	82	-	59	-	0.91	(0.65- 1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70- 1.42)
PIC	1	b	0	51	829	60	1069	1.10	(0.75- 1.61)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59- 2.41)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12- 2.28)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95- 1.55)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14- 2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13- 1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63- 1.98)
STODDA	10	b	9	224	-	443	-	1.36	(1.14- 1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85- 1.79)
TARIQ	16	b	7	-	-	-	-	1.20	(0.30- 2.70)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
ZHENG	26	b	0	13	13	390	793	2.03	(0.93- 4.43)
Partial Totals				3187	3789	4522	8162		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	14	b	11	0.29	107.50	1.02	0.0024
AGABI2	14	b	12	0.16	133.43	0.20	0.0697
ARSHAD	1	b	7	1.20	1.82	1.85	0.1044
CHEN2	45	b	1	0.07	8.99	0.15	0.8392
DAIGLE	3	b	7	0.67	11.64	2.66	0.0217
FAGBUL	2	b	1	0.34	14.40	0.32	0.1923
GILLIL	36	b	8	-0.11	12.73	1.15	0.7070
GOLD	5	b	11	0.05	103.06	2.21	0.6204
HABY	4	b	9	0.48	13.60	1.12	0.0752
HJERN1	12	b	9	-0.27	20.69	4.57	0.2119
HJERN2	12	b	9	-0.21	9.64	1.59	0.5130
HOST	1	b	0	-0.12	7.87	0.76	0.7459
HU1	6	b	0	0.02	14.41	0.43	0.9302
HU2	24	b	3	0.39	22.17	0.80	0.0697
INFANT	10	b	19	0.34	25.97	0.52	0.0864
JONES	2	b	0	0.16	9.47	0.01	0.6266
LAM1	20	b	4	0.76	3.25	1.02	0.1727
LAM2	12	b	4	-0.37	11.81	3.79	0.2022
LAU	1	b	0	0.30	5.74	0.06	0.4716
LEEN	1	b	0	-0.28	12.81	2.90	0.3157
LILLJE	1	b	0	0.09	42.18	0.51	0.5801
LINDFO	1	b	0	0.50	29.55	2.75	0.0065
MOUSSA	1	b	0	1.10	0.37	0.31	0.5000

Appendix Table A16 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
MUMCUO	2	b	0	-3.33	0.45	5.57	0.0258
OHARA	6	b	4	-0.09	34.25	2.87	0.5810
PALMIE	3	b	0	-0.00	30.71	1.18	0.9963
PIC	1	b	0	0.09	26.03	0.28	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMAR	1	b	5	0.47	30.41	2.29	0.0095
SCHMIT	1	b	4	0.73	13.33	3.78	0.0079
SHOHAT	4	b	12	0.19	64.12	0.00	0.1269
SOTOQU	1	b	0	0.42	46.33	2.40	0.0040
STANHO	1	b	0	-1.02	3.66	5.42	0.0507
STERN1	1	b	0	0.11	11.71	0.09	0.7107
STODDA	10	b	9	0.31	124.44	1.56	0.0006
STRACH	9	b	4	0.21	27.70	0.00	0.2759
TARIQ	16	b	7	0.18	3.18	0.00	0.7450
TOMINA	2	b	0	-1.06	1.84	2.89	0.1515
WILLE1	7	b	0	0.68	6.06	1.41	0.0955
ZHENG	26	b	0	0.71	6.34	1.68	0.0739

RR data

	N	40
	NS	40
	Wt	1061.45
Het	Chi	62.11
Het	df	39
Het	P	*
Fixed	RR	1.22
	RRl	1.14
	RRu	1.29
	P	+++
Random	RR	1.21
	RRl	1.10
	RRu	1.32
	P	+++
Asymm	P	N.S.

Appendix Table A16 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

RR data

	N	40			
	NS	40			
	Wt	1061.45			
Het	Chi	62.11			
Het	df	39			
Het	P	*			
Fixed	RR	1.22			
	RRl	1.14			
	RRu	1.29			
	P	+++			
Random	RR	1.21			
	RRl	1.10			
	RRu	1.32			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	40		40	
	NS	40		40	
	Wt	1061.45		1061.45	
Het	Chi	62.11		62.11	
Het	df	39		39	
Het	P	*		*	
Fixed	RR	1.22		1.22	
	RRl	1.14		1.14	
	RRu	1.29		1.29	
	P	+++		+++	
Random	RR	1.21		1.21	
	RRl	1.10		1.10	
	RRu	1.32		1.32	
	P	+++		+++	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A16 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	CALL	CHHABR	CLARK	DEKKER	DIJKST	DOTTER	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	JAAKKO	KALYO1	KALYO2
	KARUNA	KNIGHT	LEE1	LEE2	MELIA	MELSOM	NHANE3	NITTA	PETERS	SARRAZ	SELCUK	WANG	WILLE2	WOLFO1	WOLFO2	WOLFO3
	YANG															
3	BERGMA	CSONKA	EHRLI1	OLIVET	WEITZ1	WEITZ2										
4	CHINN	SOMERV														
5	AZIZI	BALL	CUNNI1	DEKOK	HUGHES	LOPEZC	MCCON2	MOHAME	STERN2							

Appendix Table A16 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP	
GILLIL	GILLIL	1	MCCON1/GILLIL	
HJERN1	HJERN1	1	HJERN1/HJERN2	
HJERN2	HJERN2	1	HJERN1/HJERN2	
STERN1	STERN1	1	STERN1/STERN2	

Adjusted - insufficient data for metaanalysis															RR	SIG
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI		
ARSHAD	7	b	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non	*	n
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	*	n
BALL	1	b	6	13	all	NAmer	1980	2000	Pr	0	AnyPar	NoParent	unspec	non	*	n
CUNNI1	11	b	8	11	all	NAmer	1988	1996	CS	9	Mother	NotMothr	current	non	0.84	?
DEKOK	1	b	6	12	all	Eu:wst	1993	1996	CS	6	Mother	NotMothr	unspec	non	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	*	n
LOPEZC	3	b	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	1.06	n
MCCON2	4	b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non	*	n
MOHAME	2	b	9	11	all	Africa	1990	1995	CC	0	Mother	NotMothr	unspec	non	*	n
PALMIE	10	b	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non	*	y
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	0.98	n

Appendix Table A17 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Biochemical, total, household (overall), or parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 9) WHESMO : at a specific age (youngest first), during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, current
- 10) UNEXSO : not specific parent, neither parent, none in household, none
- 11) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 13) RACE : all in study or nearest available, otherwise by race
- 14) ONSET : yes, no (prevalence)
- 15) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A1 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A17 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Adjusted

REF	NRR	CompA1	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ALBA	1		b	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALDAWO	2		m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never	-
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non	-
ANDRAE	2		b	0	16	all	Eu:Sca	1985	1988	CS	3	AnyPar	NoParent	in life	non	-
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
BARRET	1		b	9	11	all	Eu:Ita	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
BECKET	6		b	0	17	all	NAmer	1993	1996	CS	7	AnyHh	NoHhMemb	ever	never	-
BENER	1		b	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non	-
BRABIN	2		b	5	11	all	Eu:UK	1991	1994	CS	1	AnyHh	NoHhMemb	unspec	non	-
BURCHF	5		m	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-
BURCHF	8		f	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-
BUTZ	7		b	*	*	all	NAmer	1989	1992	CC	1	TotETS	None	current	non	-
CHEN1	1		b	1	1	all	As:FE	1985	1988	CS	0	AnyHh	NoHhMemb	in life	non	-
CHEN2	37		b	6	17	all	NAmer	1993	1996	CS	6	AnyHh	NoHhMemb	current	non	-
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non	-
DODGE	12		b	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non	-
DOLD	21		b	9	11	all	Eu:Ger	1989	1992	CS	1	AnyHh	NoHhMemb	unspec	non	-
ECE	3		b	6	15	all	Eu:est	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
EHRLI2	3		b	3	14	all	NAmer	1988	1992	CC	0	Biochem	Low	-	-	urine
FARBE2	2		b	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non	-
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never	-
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non	-
FLYNN1	1		b	9	10	all	Auslia	1990	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-
FORAST	20		b	7	11	all	Eu:Ita	1987	1992	CS	9	AnyPar	NoParent	unspec	non	-
GILLIL	4		m	7	19	all	NAmer	1993	2001	CS	4	AnyHh	NoHhMemb	in life	non	-
GILLIL	12		f	7	19	all	NAmer	1993	2001	CS	4	AnyHh	NoHhMemb	in life	non	-
GOLD	11		b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non	-
GOREN1	3		b	7	11	all	As:ME	1980	1986	CS	0	AnyHh	NoHhMemb	current	non	-
GOREN2	5		b	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never	-
GORTM1	3		b	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non	-
GORTM2	1		b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non	-
GURKAN	1		b	3	15	all	Eu:est	1995	2002	CC	0	TotETS	None	unspec	non	-
HAJNAL	1		b	6	14	all	Eu:wst	1992	1999	CS	13	AnyHh	NoHhMemb	current	non	-
HU1	4		b	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non	-
HU2	23		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non	-
JENKIN	5		b	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non	-
KAY	20		b	3	11	all	Eu:UK	*	1995	CS	1	AnyPar	NoParent	unspec	non	-
KENDIR	1		b	6	14	all	Eu:est	1993	1998	CS	0	AnyHh	NoHhMemb	current	non	-
KERSHA	7		b	0	5	all	Eu:UK	1983	1987	CC	1	AnyHh	LowHh	<3y	non	-
KIVITY	4		b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non	-
KUEHR	6		b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non	-
KUHR	4		b	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non	-
LAM1	8		b	12	15	all	As:FE	1994	1998	CS	4	AnyHh	NoHhMemb	unspec	non	-
LAM2	1		b	8	13	all	As:FE	1995	1999	CS	4	AnyHh	NoHhMemb	unspec	non	-
LEEDER	2		b	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non	-
LEROUX	2		b	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non	-
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non	-
LISTER	3		b	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non	-
MATER	5		b	5	9	all	NAmer	1994	1997	CS	8	TotETS	None	current	non	-
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MCCON2	2		b	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never	-
MOYES1	1		b	6	7	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MOYES2	1		b	13	14	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MURRAY	5		m	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non	-
MURRAY	7		f	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non	-
NHANE3	28		b	4	16	w+b	NAmer	1988	2001	CS	6	Biochem	Low	-	-	blood
NILSSO	1		b	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non	-
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non	-
ODDY	1		b	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-
POKHAR	2		b	11	15	all	As:cen	1995	2001	CC	5	AnyHh	NoHhMemb	unspec	non	-
PONSON	8		b	0	7	all	Auslia	1988	2000	Pr	6	AnyHh	NoHhMemb	<1m	non	-
RASANE	3		b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never	-
RATAGE	1		b	5	15	all	As:cen	1996	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
RENNIE	1		b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non	-
RONCH1	7		b	6	13	all	Eu:Ita	1974	2001	CS	2	AnyHh	Low	current	non	-
RONCH2	3		b	6	14	all	Eu:Ita	1992	2001	CS	0	AnyHh	Low	current	non	-
RONCH3	3		b	6	14	all	Eu:Ita	1998	2001	CS	0	AnyHh	Low	current	non	-
RONMAR	5		b	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non	-

Appendix Table A17 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

REF	NRR	CompA1	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non	-
SELCUK	2		b	7	12	all	Eu:est	1994	1997	CS	6	AnyHh	NoHhMemb	unspec	non	-
SENNHA	1		b	1	16	all	Eu:wst	1990	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non	-
SHERMA	1	x	b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	everlyrago	never	-
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non	-
SOYSET	3	x	b	7	13	all	Eu:Sca	1989	1995	CS	0	Mother	NotMothr	<1y	non	-
SQUILL	1		b	8	12	all	NAmer	1992	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non	-
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non	-
TIMONE	1		b	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	current	non	-
TSIMOY	1		b	12	17	all	NAmer	1985	1987	CS	0	TotETS	None	current	non	-
VARELA	1		b	6	15	all	SCAmer	1999	2001	CS	0	AnyHh	NoHhMemb	unspec	non	-
VAVILI	1		b	6	15	all	Eu:est	*	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VERHOE	3		b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never	-
VONMAF	1		b	0	17	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	ever	never	-
WITHER	1		b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLFO1	2		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO2	2		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO3	2		b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
ZEIGER	1		b	0	7	all	NAmer	1981	1995	Pr	0	AnyHh	NoHhMemb	unspec	non	-

Appendix Table A17 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	1	b	0	68	70	34	32	0.91	(0.51- 1.64)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
BARRET	1	b	0	17	91	9	81	1.68	(0.71- 3.98)
BECKET	6	b	7	133	-	352	-	1.31	(1.03- 1.66)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BRABIN	2	b	1	204	-	114	-	1.06	(0.82- 1.37)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	7	b	1	28	-	74	-	1.18	(0.62- 2.24)
CHEN1	1	b	0	64	1668	14	467	1.28	(0.71- 2.30)
CHEN2	37	b	6	32	-	61	-	1.67	(0.96- 2.89)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	21	b	1	217	-	295	-	1.10	(0.92- 1.33)
ECE	3	b	0	298	1704	132	906	1.20	(0.96- 1.50)
EHRLI2	3	b	0	37	29	60	88	1.87	(1.04- 3.36)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FLYNN1	1	b	0	-	-	-	-	1.26	(0.95- 1.68)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
GILLIL	4	m	4	-	-	-	-	0.93	(0.74- 1.16)
GILLIL	12	f	4	-	-	-	-	1.05	(0.81- 1.35)
Subtotal GILLIL								0.98	(0.83- 1.16)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	3	b	0	80	766	50	514	1.07	(0.74- 1.56)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
GURKAN	1	b	0	50	22	90	74	1.87	(1.04- 3.37)
HAJNAL	1	b	13	-	-	-	-	1.20	(0.94- 1.54)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KENDIR	1	b	0	-	-	-	-	1.41	(1.16- 1.72)
KERSHA	7	b	1	71	-	15	-	3.12	(1.76- 5.54)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	6	b	1	28	-	134	-	0.68	(0.44- 1.06)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	8	b	4	163	-	201	-	0.92	(0.74- 1.15)
LAM2	1	b	4	-	-	-	-	0.91	(0.69- 1.18)
*LEEDER	2	b	1	48	-	11	-	1.33	(0.67- 2.64)
LEROUX	2	b	10	39	-	58	-	1.79	(1.06- 3.02)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
MAIER	5	b	8	33	-	73	-	2.26	(1.33- 3.85)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
MCCON2	2	b	0	2	45	13	163	0.56	(0.12- 2.56)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MOYES1	1	b	0	358	1017	295	886	1.06	(0.88- 1.26)
MOYES2	1	b	0	363	1285	252	842	0.94	(0.79- 1.13)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY								1.37	(0.91- 2.07)
NHANE3	28	b	6	424	-	175	-	1.16	(0.77- 1.76)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*ODDY	1	b	4	-	-	-	-	1.27	(1.04- 1.55)
POKHAR	2	b	5	27	-	13	-	3.33	(1.85- 7.65)
*PONSON	8	b	6	185	-	88	-	1.03	(0.83- 1.26)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)

Appendix Table A17 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
RATAGE 1	b	0		62	30	58	30	1.07	(0.58- 1.99)
RENNIE 1	b	6		-	-	-	-	1.02	(0.60- 1.75)
RONCH1 7	b	2		40	-	83	-	1.40	(1.02- 1.91)
RONCH2 3	b	0		60	351	93	726	1.33	(0.94- 1.89)
RONCH3 3	b	0		40	312	91	696	0.98	(0.66- 1.46)
*RONMAR 5	b	9		-	-	-	-	1.36	(0.82- 2.25)
ROSASV 1	b	0		9	6	65	68	1.57	(0.53- 4.66)
SELCUK 2	b	6		689	-	193	-	1.35	(1.12- 1.62)
SENNHA 1	b	0		119	1631	132	2268	1.25	(0.97- 1.62)
SHAMSS 2	b	0		-	-	-	-	1.39	(1.12- 1.74)
*SHERMA 1	b	2		-	-	-	-	1.09	(0.68- 1.74)
*SIGURS 1	b	0		-	-	-	-	1.20	(0.41- 3.60)
SOYSET 3	b	0		24	237	27	330	1.24	(0.70- 2.20)
SQUILL 1	b	0		38	80	97	226	1.11	(0.70- 1.74)
STANHO 2	b	0		7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR 4	b	0		-	4855	-	4815	0.96	(0.77- 1.22)
TIMONE 1	b	0		10	225	170	2139	0.56	(0.29- 1.07)
TSIMOY 1	b	0		9	123	4	57	1.04	(0.31- 3.53)
VARELA 1	b	0		27	13	7	10	2.97	(0.92- 9.57)
VAVILI 1	b	0		60	74	40	30	0.61	(0.34- 1.09)
VENNER 6	m	0		217	477	48	116	1.10	(0.76- 1.60)
VENNER 3	f	0		214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE 3	b	0		78	185	39	72	0.78	(0.49- 1.25)
VONMAF 1	b	0		166	766	217	1260	1.26	(1.01- 1.57)
WITHER 1	b	0		202	633	296	1107	1.19	(0.97- 1.46)
WOLFO1 2	b	7		-	-	-	-	1.12	(0.63- 1.98)
WOLFO2 2	b	7		-	-	-	-	1.35	(0.75- 2.43)
WOLFO3 2	b	10		-	-	-	-	1.39	(0.93- 2.06)
*ZEIGER 1	b	0		8	22	42	143	1.24	(0.67- 2.28)
Partial Totals				9815	32093	10010	41312		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALBA 1	b	0		-0.09	11.15	1.00	0.7647
ALDAWO 2	m	0		0.76	8.40	2.55	0.0274
ALFRA1 2	b	0		0.41	22.65	0.93	0.0498
ANDRAE 2	b	3		-0.01	54.89	2.65	0.9406
ANNESI 1	b	0		0.25	89.09	0.17	0.0166
BARRET 1	b	0		0.52	5.17	0.50	0.2373
BECKET 6	b	7		0.27	67.46	0.25	0.0266
BENER 1	b	0		0.24	19.32	0.02	0.2839
BRABIN 2	b	1		0.06	58.33	1.34	0.6563
BURCHF 5	m	1		0.22	32.51	0.00	0.2200
BURCHF 8	f	1		0.00	24.97	1.10	1.0000
Subtotal BURCHF				-0.20	57.49	1.10	
BUTZ 7	b	1		0.17	9.31	0.02	0.6135
CHEN1 1	b	0		0.25	11.14	0.02	0.4102
CHEN2 37	b	6		0.51	12.65	1.16	0.0681
DELL 2	b	0		0.42	18.30	0.80	0.0733
DODGE 12	b	1		0.41	7.12	0.27	0.2794
DOLD 21	b	1		0.10	113.12	1.48	0.3107
ECE 3	b	0		0.18	79.23	0.06	0.1041
EHRLI2 3	b	0		0.63	11.17	1.94	0.0363
FARBE2 2	b	3		0.41	57.72	2.36	0.0017
FAROOQ 1	b	0		0.25	72.93	0.15	0.0297
*FERGUS 7	b	0		0.04	37.52	1.09	0.8106
FLYNN1 1	b	0		0.23	47.28	0.02	0.1120
FORAST 20	b	9		0.25	37.10	0.05	0.1327
GILLIL 4	m	4		-0.07	76.04	6.06	0.5268
GILLIL 12	f	4		0.05	58.89	1.53	0.7081
Subtotal GILLIL				-0.44	134.93	7.59	
GOLD 11	b	0		0.26	211.41	0.45	0.0002
GOREN1 3	b	0		0.07	27.97	0.54	0.7071
GOREN2 5	b	2		0.22	99.84	0.00	0.0316
GORTM1 3	b	7		0.40	36.85	1.32	0.0155
GORTM2 1	b	0		0.63	6.99	1.21	0.0978

Appendix Table A17 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
GURKAN	1	b	0	0.63	11.10	1.92	0.0372
HAJNAL	1	b	13	0.18	63.05	0.05	0.1477
HU1	4	b	7	-0.22	12.73	2.39	0.4259
HU2	23	b	3	0.44	31.16	1.63	0.0144
JENKIN	5	b	7	0.23	116.41	0.05	0.0126
KAY	20	b	1	0.35	38.89	0.77	0.0288
KENDIR	1	b	0	0.34	99.03	1.77	0.0006
KERSHA	7	b	1	1.14	11.69	10.07	0.0001
KIVITY	4	b	0	0.59	13.44	1.92	0.0311
KUEHR	6	b	1	-0.39	19.88	7.05	0.0855
KUHR	4	b	0	0.70	5.57	1.33	0.0997
LAM1	8	b	4	-0.08	79.06	6.79	0.4585
LAM2	1	b	4	-0.09	53.37	4.93	0.4908
*LEEDER	2	b	1	0.29	8.17	0.05	0.4149
LEROUX	2	b	10	0.58	14.02	1.94	0.0293
LIS	1	b	0	0.31	37.30	0.36	0.0604
LISTER	3	b	8	0.42	64.33	2.81	0.0008
MAIER	5	b	8	0.82	13.60	4.99	0.0026
*MARTIN	5	m	1	0.56	11.93	1.46	0.0533
*MARTIN	6	f	1	0.68	5.55	1.24	0.1075
Subtotal	MARTIN			0.82	17.48	2.70	
MCCON2	2	b	0	-0.58	1.65	1.04	0.4523
*MCKEEV	4	b	0	0.27	1119.12	4.18	0.0000
MOYES1	1	b	0	0.06	120.55	2.86	0.5411
MOYES2	1	b	0	-0.06	115.09	8.24	0.5355
MURRAY	5	m	1	0.34	14.28	0.26	0.1941
MURRAY	7	f	1	0.27	8.50	0.03	0.4311
Subtotal	MURRAY			0.19	22.78	0.29	
NHANE3	28	b	6	0.15	22.48	0.08	0.4816
NILSSO	1	b	0	0.00	31.98	1.41	1.0000
OCONNE	1	b	0	0.25	33.98	0.07	0.1384
*ODDY	1	b	4	0.24	96.50	0.08	0.0189
POKHAR	2	b	5	1.20	7.63	7.52	0.0009
*PONSON	8	b	6	0.03	88.18	2.86	0.7813
RASANE	3	b	3	0.46	27.24	1.76	0.0155
RATAGE	1	b	0	0.07	10.00	0.20	0.8330
RENNIE	1	b	6	0.02	13.41	0.48	0.9422
RONCH1	7	b	2	0.34	39.05	0.63	0.0355
RONCH2	3	b	0	0.29	31.60	0.20	0.1048
RONCH3	3	b	0	-0.02	24.61	1.29	0.9224
*ROMMAR	5	b	9	0.31	15.08	0.14	0.2324
ROSASV	1	b	0	0.45	3.25	0.19	0.4168
SELCUK	2	b	6	0.30	112.79	0.92	0.0014
SENNHA	1	b	0	0.23	58.71	0.02	0.0833
SHAMSS	2	b	0	0.33	79.17	1.13	0.0034
*SHERMA	1	b	2	0.09	17.41	0.27	0.7192
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOYSET	3	b	0	0.21	11.63	0.00	0.4670
SQUILL	1	b	0	0.10	18.67	0.22	0.6613
STANHO	2	b	0	-0.92	4.90	6.22	0.0423
*TAYLOR	4	b	0	-0.04	72.55	4.55	0.7281
TIMONE	1	b	0	-0.58	9.03	5.65	0.0808
TSIMOY	1	b	0	0.04	2.59	0.07	0.9464
VARELA	1	b	0	1.09	2.80	2.16	0.0687
VAVILI	1	b	0	-0.50	11.30	5.65	0.0945
VENNER	6	m	0	0.09	27.66	0.37	0.6182
VENNER	3	f	0	0.18	28.98	0.03	0.3399
Subtotal	VENNER			-0.15	56.63	0.40	
VERHOE	3	b	0	-0.25	17.31	3.67	0.2972
VONMAF	1	b	0	0.23	78.55	0.03	0.0417
WITHER	1	b	0	0.18	92.49	0.10	0.0890
WOLFO1	2	b	7	0.11	11.72	0.11	0.6981
WOLFO2	2	b	7	0.30	11.12	0.09	0.3170
WOLFO3	2	b	10	0.33	24.30	0.35	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.00	0.4914

Appendix Table A17 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

RR data

	N	93
	NS	88
	Wt	4668.27
Het	Chi	149.68
Het	df	92
Het	P	***
Fixed	RR	1.23
	RRl	1.20
	RRu	1.27
	P	+++
Random	RR	1.22
	RRl	1.17
	RRu	1.28
	P	+++
Asymm	P	N.S.

Appendix Table A17 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

RR data

	N	93			
	NS	88			
	Wt	4668.27			
Het	Chi	149.68			
Het	df	92			
Het	P	***			
Fixed	RR	1.23			
	RRl	1.20			
	RRu	1.27			
	P	+++			
Random	RR	1.22			
	RRl	1.17			
	RRu	1.28			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	82	6	5	93
	NS	82	6	5	93
	Wt	4370.56	170.83	126.89	4668.27
Het	Chi	134.90	9.59	2.69	149.68
Het	df	81	5	4	92
Het	P	***	(*)	N.S.	***
Fixed	RR	1.24	1.14	1.12	1.23
	RRl	1.20	0.98	0.94	1.20
	RRu	1.28	1.32	1.33	1.27
	P	+++	(+)	N.S.	+++
Random	RR	1.23	1.24	1.12	1.22
	RRl	1.17	0.99	0.94	1.17
	RRu	1.29	1.57	1.33	1.28
	P	+++	(+)	N.S.	+++
Between	Chi				2.50
Between	df				2
Between	P				N.S.

Appendix Table A17 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
3	CUNNI2	KAPLAN	KELLY	NYSTAD	WEITZ1	XU										
5	AKCAKA	BURR	DEBENE	FIELDE	FLYNN2	GOREN3	GOREN4	GOREN5	GOREN6	KALYO1	KEARNE	MONTEF	RUDNIK	SANZOR	SCHENK	STAZI
	STERN2	ULRIK	VOLKME	ZEJDA												
15	ALFRA2	FARBE1	FARBE3	MCCON1	SPIEKE											

Appendix Table A17 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP											RR	SIG		
GILLIL	GILLIL	1	MCCON1/GILLIL														
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3														
BRABIN	BRABIN	1	KELLY/BRABIN														
KUEHR	KUEHR	1	KUEHR/SPIEKE														
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2														
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6														
WOLFO1	WOLFO1	1	WOLFO1/WOLFO2/WOLFO3														
WOLFO2	WOLFO2	1	WOLFO1/WOLFO2/WOLFO3														
WOLFO3	WOLFO3	1	WOLFO1/WOLFO2/WOLFO3														
Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
AKCAKA	1	b	6	15	all	Eu:est	1996	2000	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	-	1.01	?
BRABIN	3	b	5	11	all	Eu:UK	1991	1994	CS	6	AnyHh	NoHhMemb	unspec	non	-	*	n
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	-	*	n
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	-	1.46	y
ECE	8	b	6	15	all	Eu:est	1999	2001	CS	3	AnyHh	NoHhMemb	current	non	-	*	n
FIELDE	1	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
FLYNN2	1	b	9	10	all	Auslia	1991	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	-	*	n
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	-	1.67	y
KALYO1	1	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KEARNE	1	m	6	12	all	Eu:wst	1997	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KIVITY	5	b	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	-	*	y
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	-	*	n
LISTER	9	b	0	4	all	Auslia	1989	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
MONTEF	1	b	5	8	all	Eu:wst	*	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	-	*	n
RUDNIK	1	b	8	10	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	0.74	?
RUDNIK	2	b	11	13	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.43	?
RUDNIK	3	b	14	16	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.09	?
SANZOR	1	b	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	-	*	n
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	-	*	n
SOYSET	9	b	7	13	all	Eu:Sca	1989	1995	CS	1	Mother	NotMothr	<1y	non	-	*	n
STAZI	7	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	-	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	-	1.35	y
TIMONE	2	b	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	<2y	non	-	*	n
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	-	*	n
VOLKME	2	b	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	-	*	n
ZEIGER	3	b	0	7	all	NAmer	1981	1995	Pr	4	AnyHh	NoHhMemb	unspec	non	-	*	n
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	-	*	n

Appendix Table A18 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Biochemical, total, household (overall), or parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 9) WHESMO : at a specific age (youngest first), during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, current
- 10) UNEXSO : none, none in household, neither parent, not specific parent
- 11) UNEXTI : not a longer time, never (in smoker's lifetime), not at specified time
- 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 13) RACE : all in study or nearest available, otherwise by race
- 14) ONSET : yes, no (prevalence)
- 15) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A17 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A18 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Adjusted

REF NRR CompA17 SEX AGE1 AGEH RACE	LOC BEGYR PUBYR STTYP ADJ EXP-who UNEXsource	EXPOS-time UNEXTI BIOMEA
ALBA 1	b 0 13 all Eu:wst 1993 1996	CC 0 AnyHh NoHhMemb current non -
ALDAWO 2	m 6 15 all As:ME * 2000	CS 0 Mother NotMothr ever never -
ALFRA1 2	b 7 12 all As:ME 1986 1990	CS 0 Mother NotMothr unspec non -
ANDRAE 2	b 0 16 all Eu:Sca 1985 1988	CS 3 AnyPar NoParent in life non -
ANNESI 1	b 1 18 all Eu:UK 1991 2001	CS 0 AnyPar NoParent unspec non -
BARRET 1	b 9 11 all Eu:Ita 1999 2001	CS 0 AnyHh NoHhMemb current non -
BECKET 6	b 0 17 all NAmEr 1993 1996	CS 7 AnyHh NoHhMemb ever never -
BENER 1	b 6 14 all As:ME 1992 1996	CS 0 AnyPar NoParent unspec non -
BRABIN 2	b 5 11 all Eu:UK 1991 1994	CS 1 AnyHh NoHhMemb unspec non -
BURCHF 5	m 0 19 all NAmEr 1962 1986	CS 1 AnyPar NoParent utero/life non -
BURCHF 8	f 0 19 all NAmEr 1962 1986	CS 1 AnyPar NoParent utero/life non -
BUTZ 7	b * * all NAmEr 1989 1992	CC 1 TotETS None current non -
CHEN1 1	b 1 1 all As:FE 1985 1988	CS 0 AnyHh NoHhMemb in life non -
CHEN2 37	b 6 17 all NAmEr 1993 1996	CS 6 AnyHh NoHhMemb current non -
DELL 2	b 1 1 all NAmEr 1994 2001	CS 0 AnyPar NoParent current non -
DODGE 12	b 8 12 all NAmEr 1978 1982	Pr 1 AnyPar NoParent unspec non -
DOLD 21	b 9 11 all Eu:Ger 1989 1992	CS 1 AnyHh NoHhMemb unspec non -
ECE 3	b 6 15 all Eu:est 1999 2001	CS 0 AnyHh NoHhMemb current non -
EHRIL2 3	b 3 14 all NAmEr 1988 1992	CC 0 Biochem Low - - urine
FARBE2 2	b 5 17 all NAmEr 1987 1997	CS 3 Mother NotMothr current non -
FAROOQ 1	b 0 21 all Eu:UK 1975 1998	CS 0 Mother NotMothr ever never -
FERGUS 7	b 0 6 all Auslia 1977 1985	Pr 0 AnyPar NoParent in life non -
FLYNN1 1	b 9 10 all Auslia 1990 1994	CS 0 AnyHh NoHhMemb unspec non -
FORAST 20	b 7 11 all Eu:Ita 1987 1992	CS 9 AnyPar NoParent unspec non -
GILLIL 4	m 7 19 all NAmEr 1993 2001	CS 4 AnyHh NoHhMemb in life non -
GILLIL 12	f 7 19 all NAmEr 1993 2001	CS 4 AnyHh NoHhMemb in life non -
GOLD 11	b 6 18 wh NAmEr 1974 1993	Pr 0 Mother NotMothr <6y non -
GOREN1 3	b 7 11 all As:ME 1980 1986	CS 0 AnyHh NoHhMemb current non -
GOREN2 5	b 7 11 all As:ME 1982 1995	CS 2 Mother NotMothr ever never -
GORTM1 3	b 0 17 all NAmEr 1977 1982	CS 7 Mother NotMothr current non -
GORTM2 1	b 0 17 all NAmEr 1980 1982	CS 0 Mother NotMothr current non -
GURKAN 1	b 3 15 all Eu:est 1995 2002	CC 0 TotETS None unspec non -
HAJNAL 1	b 6 14 all Eu:wst 1992 1999	CS 13 AnyHh NoHhMemb current non -
HU1 4	b 10 11 all NAmEr 1994 1997	CS 7 Mother NotMothr current non -
HU2 23	b 20 22 all NAmEr 1986 1997	Pr 3 AnyPar LowParnt 13-15y non -
JENKIN 5	b 7 7 all Auslia 1968 1993	CS 7 Mother NotMothr current non -
KAY 20	b 3 11 all Eu:UK * 1995	CS 1 AnyPar NoParent unspec non -
KENDIR 1	b 6 14 all Eu:est 1993 1998	CS 0 AnyHh NoHhMemb current non -
KERSHA 7	b 0 5 all Eu:UK 1983 1987	CC 1 AnyHh LowHh <3y non -
KIVITY 4	b 8 17 jew As:ME * 2001	CS 0 Mother NotMothr unspec non -
KUEHR 6	b 6 8 all Eu:Ger 1990 1992	CS 1 Mother NotMothr <1y non -
KUHR 4	b 7 16 all Eu:Ger 1987 1991	CS 0 AnyPar NoParent in life non -
LAM1 8	b 12 15 all As:FE 1994 1998	CS 4 AnyHh NoHhMemb unspec non -
LAM2 1	b 8 13 all As:FE 1995 1999	CS 4 AnyHh NoHhMemb unspec non -
LEEDER 2	b 0 5 all Eu:UK 1963 1976	Pr 1 AnyPar NoParent in life non -
LEROUX 2	b 6 7 all Eu:wst 1990 1995	CS 10 AnyPar LowParnt unspec non -
LIS 1	b 12 14 all Eu:est 1992 1997	CS 0 Mother NotMothr unspec non -
LISTER 3	b 0 4 all Auslia 1989 1998	CS 8 Mother NotMothr current non -
MATER 5	b 5 9 all NAmEr 1994 1997	CS 8 TotETS None current non -
MARTIN 5	m 0 12 all NAmEr 1972 1992	Pr 1 Mother LowMothr <5y non -
MARTIN 6	f 0 12 all NAmEr 1972 1992	Pr 1 Mother LowMothr <5y non -
MCCON2 2	b 5 9 all NAmEr 1980 1986	CS 0 AnyHh Low in life non -
MCKEEV 4	b 0 11 all Eu:UK * 2001	Pr 0 Mother NotMothr ever never -
MOYES1 1	b 6 7 all Auslia * 1995	CS 0 AnyHh NoHhMemb unspec non -
MOYES2 1	b 13 14 all Auslia * 1995	CS 0 AnyHh NoHhMemb unspec non -
MURRAY 5	m 1 17 all NAmEr 1986 1990	CS 1 Mother NotMothr unspec non -
MURRAY 7	f 1 17 all NAmEr 1986 1990	CS 1 Mother NotMothr unspec non -
NHANE3 28	b 4 16 w+b NAmEr 1988 2001	CS 6 Biochem Low - - blood
NILSSO 1	b 13 14 all Eu:Sca * 1999	CS 0 AnyPar NoParent current non -
OCONNE 1	b 2 16 all NAmEr 1969 1974	CC 0 AnyPar NoParent unspec non -
ODDY 1	b 0 6 all Auslia 1989 1999	Pr 4 AnyHh NoHhMemb unspec non -
POKHAR 2	b 11 15 all As:cen 1995 2001	CC 5 AnyHh NoHhMemb unspec non -
PONSON 8	b 0 7 all Auslia 1988 2000	Pr 6 AnyHh NoHhMemb <1m non -
RASANE 3	b 16 16 all Eu:Sca 1991 2000	CS 3 Mother NotMothr ever never -
RATAGE 1	b 5 15 all As:cen 1996 2000	CC 0 AnyHh NoHhMemb unspec non -
RENNIE 1	b 6 11 all NAmEr 1993 2002	CS 6 AnyPar NoParent in life non -
RONCH1 7	b 6 13 all Eu:Ita 1974 2001	CS 2 AnyHh Low current non -
RONCH2 3	b 6 14 all Eu:Ita 1992 2001	CS 0 AnyHh Low current non -
RONCH3 3	b 6 14 all Eu:Ita 1998 2001	CS 0 AnyHh Low current non -
RONMAR 5	b 7 10 all Eu:Sca 1996 2002	Pr 9 Mother NotMothr unspec non -

Appendix Table A18 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

REF	NRR	CompA17	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non	-
SELCUK	2		b	7	12	all	Eu:est	1994	1997	CS	6	AnyHh	NoHhMemb	unspec	non	-
SENNHA	1		b	1	16	all	Eu:wst	1990	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non	-
SHERMA	1		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	everlyrago	never	-
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non	-
SOYSET	3		b	7	13	all	Eu:Sca	1989	1995	CS	0	Mother	NotMothr	<1y	non	-
SQUILL	1		b	8	12	all	NAmer	1992	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non	-
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non	-
TIMONE	1		b	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	current	non	-
TSIMOY	1		b	12	17	all	NAmer	1985	1987	CS	0	TotETS	None	current	non	-
VARELA	1		b	6	15	all	SCAmer	1999	2001	CS	0	AnyHh	NoHhMemb	unspec	non	-
VAVILI	1		b	6	15	all	Eu:est	*	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VERHOE	3		b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never	-
VONMAF	1		b	0	17	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	ever	never	-
WITHER	1		b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLFO1	2		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO2	2		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO3	2		b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
ZEIGER	1		b	0	7	all	NAmer	1981	1995	Pr	0	AnyHh	NoHhMemb	unspec	non	-

Appendix Table A18 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	1	b	0	68	70	34	32	0.91	(0.51- 1.64)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
BARRET	1	b	0	17	91	9	81	1.68	(0.71- 3.98)
BECKET	6	b	7	133	-	352	-	1.31	(1.03- 1.66)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BRABIN	2	b	1	204	-	114	-	1.06	(0.82- 1.37)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	7	b	1	28	-	74	-	1.18	(0.62- 2.24)
CHEN1	1	b	0	64	1668	14	467	1.28	(0.71- 2.30)
CHEN2	37	b	6	32	-	61	-	1.67	(0.96- 2.89)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	21	b	1	217	-	295	-	1.10	(0.92- 1.33)
ECE	3	b	0	298	1704	132	906	1.20	(0.96- 1.50)
EHRLI2	3	b	0	37	29	60	88	1.87	(1.04- 3.36)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FLYNN1	1	b	0	-	-	-	-	1.26	(0.95- 1.68)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
GILLIL	4	m	4	-	-	-	-	0.93	(0.74- 1.16)
GILLIL	12	f	4	-	-	-	-	1.05	(0.81- 1.35)
Subtotal GILLIL								0.98	(0.83- 1.16)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	3	b	0	80	766	50	514	1.07	(0.74- 1.56)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
GURKAN	1	b	0	50	22	90	74	1.87	(1.04- 3.37)
HAJNAL	1	b	13	-	-	-	-	1.20	(0.94- 1.54)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KENDIR	1	b	0	-	-	-	-	1.41	(1.16- 1.72)
KERSHA	7	b	1	71	-	15	-	3.12	(1.76- 5.54)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	6	b	1	28	-	134	-	0.68	(0.44- 1.06)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	8	b	4	163	-	201	-	0.92	(0.74- 1.15)
LAM2	1	b	4	-	-	-	-	0.91	(0.69- 1.18)
*LEEDER	2	b	1	48	-	11	-	1.33	(0.67- 2.64)
LEROUX	2	b	10	39	-	58	-	1.79	(1.06- 3.02)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
MAIER	5	b	8	33	-	73	-	2.26	(1.33- 3.85)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
MCCON2	2	b	0	2	45	13	163	0.56	(0.12- 2.56)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MOYES1	1	b	0	358	1017	295	886	1.06	(0.88- 1.26)
MOYES2	1	b	0	363	1285	252	842	0.94	(0.79- 1.13)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY								1.37	(0.91- 2.07)
NHANE3	28	b	6	424	-	175	-	1.16	(0.77- 1.76)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*ODDY	1	b	4	-	-	-	-	1.27	(1.04- 1.55)
POKHAR	2	b	5	27	-	13	-	3.33	(1.85- 7.65)
*PONSON	8	b	6	185	-	88	-	1.03	(0.83- 1.26)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)

Appendix Table A18 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
RATAGE 1	b	0		62	30	58	30	1.07	(0.58- 1.99)
RENNIE 1	b	6		-	-	-	-	1.02	(0.60- 1.75)
RONCH1 7	b	2		40	-	83	-	1.40	(1.02- 1.91)
RONCH2 3	b	0		60	351	93	726	1.33	(0.94- 1.89)
RONCH3 3	b	0		40	312	91	696	0.98	(0.66- 1.46)
*RONMAR 5	b	9		-	-	-	-	1.36	(0.82- 2.25)
ROSASV 1	b	0		9	6	65	68	1.57	(0.53- 4.66)
SELCUK 2	b	6		689	-	193	-	1.35	(1.12- 1.62)
SENNHA 1	b	0		119	1631	132	2268	1.25	(0.97- 1.62)
SHAMSS 2	b	0		-	-	-	-	1.39	(1.12- 1.74)
*SHERMA 1	b	2		-	-	-	-	1.09	(0.68- 1.74)
*SIGURS 1	b	0		-	-	-	-	1.20	(0.41- 3.60)
SOYSET 3	b	0		24	237	27	330	1.24	(0.70- 2.20)
SQUILL 1	b	0		38	80	97	226	1.11	(0.70- 1.74)
STANHO 2	b	0		7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR 4	b	0		-	4855	-	4815	0.96	(0.77- 1.22)
TIMONE 1	b	0		10	225	170	2139	0.56	(0.29- 1.07)
TSIMOY 1	b	0		9	123	4	57	1.04	(0.31- 3.53)
VARELA 1	b	0		27	13	7	10	2.97	(0.92- 9.57)
VAVILI 1	b	0		60	74	40	30	0.61	(0.34- 1.09)
VENNER 6	m	0		217	477	48	116	1.10	(0.76- 1.60)
VENNER 3	f	0		214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE 3	b	0		78	185	39	72	0.78	(0.49- 1.25)
VONMAF 1	b	0		166	766	217	1260	1.26	(1.01- 1.57)
WITHER 1	b	0		202	633	296	1107	1.19	(0.97- 1.46)
WOLFO1 2	b	7		-	-	-	-	1.12	(0.63- 1.98)
WOLFO2 2	b	7		-	-	-	-	1.35	(0.75- 2.43)
WOLFO3 2	b	10		-	-	-	-	1.39	(0.93- 2.06)
*ZEIGER 1	b	0		8	22	42	143	1.24	(0.67- 2.28)
Partial Totals				9815	32093	10010	41312		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALBA 1	b	0		-0.09	11.15	1.00	0.7647
ALDAWO 2	m	0		0.76	8.40	2.55	0.0274
ALFRA1 2	b	0		0.41	22.65	0.93	0.0498
ANDRAE 2	b	3		-0.01	54.89	2.65	0.9406
ANNESI 1	b	0		0.25	89.09	0.17	0.0166
BARRET 1	b	0		0.52	5.17	0.50	0.2373
BECKET 6	b	7		0.27	67.46	0.25	0.0266
BENER 1	b	0		0.24	19.32	0.02	0.2839
BRABIN 2	b	1		0.06	58.33	1.34	0.6563
BURCHF 5	m	1		0.22	32.51	0.00	0.2200
BURCHF 8	f	1		0.00	24.97	1.10	1.0000
Subtotal BURCHF				-0.20	57.49	1.10	
BUTZ 7	b	1		0.17	9.31	0.02	0.6135
CHEN1 1	b	0		0.25	11.14	0.02	0.4102
CHEN2 37	b	6		0.51	12.65	1.16	0.0681
DELL 2	b	0		0.42	18.30	0.80	0.0733
DODGE 12	b	1		0.41	7.12	0.27	0.2794
DOLD 21	b	1		0.10	113.12	1.48	0.3107
ECE 3	b	0		0.18	79.23	0.06	0.1041
EHRLI2 3	b	0		0.63	11.17	1.94	0.0363
FARBE2 2	b	3		0.41	57.72	2.36	0.0017
FAROOQ 1	b	0		0.25	72.93	0.15	0.0297
*FERGUS 7	b	0		0.04	37.52	1.09	0.8106
FLYNN1 1	b	0		0.23	47.28	0.02	0.1120
FORAST 20	b	9		0.25	37.10	0.05	0.1327
GILLIL 4	m	4		-0.07	76.04	6.06	0.5268
GILLIL 12	f	4		0.05	58.89	1.53	0.7081
Subtotal GILLIL				-0.44	134.93	7.59	
GOLD 11	b	0		0.26	211.41	0.45	0.0002
GOREN1 3	b	0		0.07	27.97	0.54	0.7071
GOREN2 5	b	2		0.22	99.84	0.00	0.0316
GORTM1 3	b	7		0.40	36.85	1.32	0.0155
GORTM2 1	b	0		0.63	6.99	1.21	0.0978

Appendix Table A18 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
GURKAN	1	b	0	0.63	11.10	1.92	0.0372
HAJNAL	1	b	13	0.18	63.05	0.05	0.1477
HU1	4	b	7	-0.22	12.73	2.39	0.4259
HU2	23	b	3	0.44	31.16	1.63	0.0144
JENKIN	5	b	7	0.23	116.41	0.05	0.0126
KAY	20	b	1	0.35	38.89	0.77	0.0288
KENDIR	1	b	0	0.34	99.03	1.77	0.0006
KERSHA	7	b	1	1.14	11.69	10.07	0.0001
KIVITY	4	b	0	0.59	13.44	1.92	0.0311
KUEHR	6	b	1	-0.39	19.88	7.05	0.0855
KUHR	4	b	0	0.70	5.57	1.33	0.0997
LAM1	8	b	4	-0.08	79.06	6.79	0.4585
LAM2	1	b	4	-0.09	53.37	4.93	0.4908
*LEEDER	2	b	1	0.29	8.17	0.05	0.4149
LEROUX	2	b	10	0.58	14.02	1.94	0.0293
LIS	1	b	0	0.31	37.30	0.36	0.0604
LISTER	3	b	8	0.42	64.33	2.81	0.0008
MAIER	5	b	8	0.82	13.60	4.99	0.0026
*MARTIN	5	m	1	0.56	11.93	1.46	0.0533
*MARTIN	6	f	1	0.68	5.55	1.24	0.1075
Subtotal MARTIN				0.82	17.48	2.70	
MCCON2	2	b	0	-0.58	1.65	1.04	0.4523
*MCKEEV	4	b	0	0.27	1119.12	4.18	0.0000
MOYES1	1	b	0	0.06	120.55	2.86	0.5411
MOYES2	1	b	0	-0.06	115.09	8.24	0.5355
MURRAY	5	m	1	0.34	14.28	0.26	0.1941
MURRAY	7	f	1	0.27	8.50	0.03	0.4311
Subtotal MURRAY				0.19	22.78	0.29	
NHANE3	28	b	6	0.15	22.48	0.08	0.4816
NILSSO	1	b	0	0.00	31.98	1.41	1.0000
OCONNE	1	b	0	0.25	33.98	0.07	0.1384
*ODDY	1	b	4	0.24	96.50	0.08	0.0189
POKHAR	2	b	5	1.20	7.63	7.52	0.0009
*PONSON	8	b	6	0.03	88.18	2.86	0.7813
RASANE	3	b	3	0.46	27.24	1.76	0.0155
RATAGE	1	b	0	0.07	10.00	0.20	0.8330
RENNIE	1	b	6	0.02	13.41	0.48	0.9422
RONCH1	7	b	2	0.34	39.05	0.63	0.0355
RONCH2	3	b	0	0.29	31.60	0.20	0.1048
RONCH3	3	b	0	-0.02	24.61	1.29	0.9224
*ROMMAR	5	b	9	0.31	15.08	0.14	0.2324
ROSASV	1	b	0	0.45	3.25	0.19	0.4168
SELCUK	2	b	6	0.30	112.79	0.92	0.0014
SENNHA	1	b	0	0.23	58.71	0.02	0.0833
SHAMSS	2	b	0	0.33	79.17	1.13	0.0034
*SHERMA	1	b	2	0.09	17.41	0.27	0.7192
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOYSET	3	b	0	0.21	11.63	0.00	0.4670
SQUILL	1	b	0	0.10	18.67	0.22	0.6613
STANHO	2	b	0	-0.92	4.90	6.22	0.0423
*TAYLOR	4	b	0	-0.04	72.55	4.55	0.7281
TIMONE	1	b	0	-0.58	9.03	5.65	0.0808
TSIMOY	1	b	0	0.04	2.59	0.07	0.9464
VARELA	1	b	0	1.09	2.80	2.16	0.0687
VAVILI	1	b	0	-0.50	11.30	5.65	0.0945
VENNER	6	m	0	0.09	27.66	0.37	0.6182
VENNER	3	f	0	0.18	28.98	0.03	0.3399
Subtotal VENNER				-0.15	56.63	0.40	
VERHOE	3	b	0	-0.25	17.31	3.67	0.2972
VONMAF	1	b	0	0.23	78.55	0.03	0.0417
WITHER	1	b	0	0.18	92.49	0.10	0.0890
WOLFO1	2	b	7	0.11	11.72	0.11	0.6981
WOLFO2	2	b	7	0.30	11.12	0.09	0.3170
WOLFO3	2	b	10	0.33	24.30	0.35	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.00	0.4914

Appendix Table A18 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

RR data

	N	93
	NS	88
	Wt	4668.27
Het	Chi	149.68
Het	df	92
Het	P	***
Fixed	RR	1.23
	RRl	1.20
	RRu	1.27
	P	+++
Random	RR	1.22
	RRl	1.17
	RRu	1.28
	P	+++
Asymm	P	N.S.

Appendix Table A18 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Adjusted

RR data

	N	93			
	NS	88			
	Wt	4668.27			
Het	Chi	149.68			
Het	df	92			
Het	P	***			
Fixed	RR	1.23			
	RRl	1.20			
	RRu	1.27			
	P	+++			
Random	RR	1.22			
	RRl	1.17			
	RRu	1.28			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	82	6	5	93
	NS	82	6	5	93
	Wt	4370.56	170.83	126.89	4668.27
Het	Chi	134.90	9.59	2.69	149.68
Het	df	81	5	4	92
Het	P	***	(*)	N.S.	***
Fixed	RR	1.24	1.14	1.12	1.23
	RRl	1.20	0.98	0.94	1.20
	RRu	1.28	1.32	1.33	1.27
	P	+++	(+)	N.S.	+++
Random	RR	1.23	1.24	1.12	1.22
	RRl	1.17	0.99	0.94	1.17
	RRu	1.29	1.57	1.33	1.28
	P	+++	(+)	N.S.	+++
Between	Chi				2.50
Between	df				2
Between	P				N.S.

Appendix Table A18 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
3	CUNNI2	KAPLAN	KELLY	NYSTAD	WEITZ1	XU										
5	AKCAKA	BURR	DEBENE	FIELDE	FLYNN2	GOREN3	GOREN4	GOREN5	GOREN6	KALYO1	KEARNE	MONTEF	RUDNIK	SANZOR	SCHENK	STAZI
	STERN2	ULRIK	VOLKME	ZEJDA												
15	ALFRA2	FARBE1	FARBE3	MCCON1	SPIEKE											

Appendix Table A18 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP											RR	SIG		
GILLIL	GILLIL	1	MCCON1/GILLIL											*	n		
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3														
BRABIN	BRABIN	1	KELLY/BRABIN											*	n		
KUEHR	KUEHR	1	KUEHR/SPIEKE											*	n		
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2														
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6														
WOLFO1	WOLFO1	1	WOLFO1/WOLFO2/WOLFO3														
WOLFO2	WOLFO2	1	WOLFO1/WOLFO2/WOLFO3														
WOLFO3	WOLFO3	1	WOLFO1/WOLFO2/WOLFO3														
Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
AKCAKA	1	b	6	15	all	Eu:est	1996	2000	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	-	1.01	?
BRABIN	3	b	5	11	all	Eu:UK	1991	1994	CS	6	AnyHh	NoHhMemb	unspec	non	-	*	n
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	-	*	n
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	-	1.46	y
ECE	8	b	6	15	all	Eu:est	1999	2001	CS	3	AnyHh	NoHhMemb	current	non	-	*	n
FIELDE	1	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
FLYNN2	1	b	9	10	all	Auslia	1991	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	-	*	n
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	-	1.67	y
KALYO1	1	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KEARNE	1	m	6	12	all	Eu:wst	1997	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KIVITY	5	b	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	-	*	y
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	-	*	n
LISTER	9	b	0	4	all	Auslia	1989	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
MONTEF	1	b	5	8	all	Eu:wst	*	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	-	*	n
RUDNIK	1	b	8	10	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	0.74	?
RUDNIK	2	b	11	13	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.43	?
RUDNIK	3	b	14	16	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.09	?
SANZOR	1	b	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	-	*	n
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	-	*	n
SOYSET	9	b	7	13	all	Eu:Sca	1989	1995	CS	1	Mother	NotMothr	<1y	non	-	*	n
STAZI	7	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	-	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	-	1.35	y
TIMONE	2	b	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	<2y	non	-	*	n
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	-	*	n
VOLKME	2	b	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	-	*	n
ZEIGER	3	b	0	7	all	NAmer	1981	1995	Pr	4	AnyHh	NoHhMemb	unspec	non	-	*	n
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	-	*	n

Appendix Table A19 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Biochemical, total, household (overall), or parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 9) WHESMO : at a specific age (youngest first), during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, current
- 10) UNEXSO : not specific parent, neither parent, none in household, none
- 11) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 13) RACE : all in study or nearest available, otherwise by race
- 14) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group
 and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3
 (and those which actually differ from the adjusted results in Appendix Table A3 - 1 are marked 'x' in Section -1)
 (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A19 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF NRR CompA3 SEX AGE1 AGEH RACE	LOC BEGYR PUBYR STYP ADJ EXP-who UNEXsource	EXPOS-time UNEXTI BIOMEA
ADDOYO 1	b 8 17 all Africa *	2001 CC 0 AnyHh NoHhMemb unspec non -
AGAB1 14	b 6 7 all Eu:Ita 1994 1999	CC 11 AnyPar NoParent current never -
AGAB2 14	b 13 14 all Eu:Ita 1994 1999	CC 12 AnyPar NoParent current never -
ARSHAD 1	b 1 1 all Eu:UK 1990 1992	Pr 7 AnyPar NoParent utero/life non -
BERGMA 1	b 3 6 all Eu:Ger 1990 2000	Pr 8 AnyHh NoHhMemb 18m non -
CALL 1	b 3 15 all NAmer 1990 1992	CC 0 AnyHh NoHhMemb unspec non -
CHEN2 50	b 6 17 all NAmer 1993 1996	CS 1 AnyHh NoHhMemb current non -
CHHABR 1	b 4 17 all As:cen *	1998 CS 0 AnyHh NoHhMemb unspec non -
CLARK 2	b 5 7 all Eu:UK *	1994 CC 0 Biochem Low - - saliva
CSONKA 4	b 6 13 all Eu:Sca *	2000 CS 4 AnyHh NoHhMemb <3y non -
CUNNI 1	b 8 11 all NAmer 1988 1996	CS 0 AnyHh NoHhMemb current non -
DAIGLE 3	b 0 * all NAmer 1986 1991	CC 7 Mother NotMothr unspec non -
DEKKER 6	b 5 8 all NAmer 1988 1991	CC 9 AnyHh NoHhMemb unspec non -
DIJKST 1	b 6 12 all Eu:wst 1986 1990	CS 0 AnyHh NoHhMemb current non -
DOTTER 1	m 8 17 all Eu:est 1994 2001	CS 6 AnyHh NoHhMemb unspec non -
DOTTER 2	f 8 17 all Eu:est 1994 2001	CS 6 AnyHh NoHhMemb unspec non -
FAGBUL 2	b 0 18 all Africa *	1994 CC 1 AnyPar NoParent unspec non -
FORSB1 2	b 6 12 all Eu:Sca 1993 1997	CS 14 AnyHh NoHhMemb <2y non -
FORSB2 2	b 6 12 all Eu:Sca 1993 1997	CS 14 AnyHh NoHhMemb <2y non -
FORSB3 2	b 6 12 all Eu:Sca 1993 1997	CS 15 AnyHh NoHhMemb <2y non -
FUJI 1	b 8 11 all As:FE 1994 2002	CS 0 AnyHh NoHhMemb unspec non -
GILLIL 28	b 7 19 all NAmer 1993 2001	CS 9 AnyHh NoHhMemb in life non -
GOLD 7	b 6 14 all NAmer 1974 1993	Pr 11 Mother NotMothr ever never -
GUPTA 2	b 9 20 all As:cen 1997 2001	CS 2 AnyHh NoHhMemb unspec non -
HABY 4	b 3 5 all Auslia 1995 2001	CS 9 AnyPar NoParent <6m non -
HJERN1 13	b 3 15 all Eu:Sca 1996 2001	CS 9 Mother NotMothr ever never -
HJERN2 13	b 3 15 all Eu:Sca 1996 2001	CS 9 Father NotFathr ever never -
HOST 1	b 6 17 all Eu:Sca 1990 1993	CS 0 AnyPar NoParent current non -
HU1 6	b 10 11 all NAmer 1994 1997	CS 0 Mother NotMothr current non -
HU2 24	b 20 22 all NAmer 1986 1997	Pr 3 AnyPar LowParnt 13-15y non -
INFANT 10	b 3 4 all NAmer 1988 1993	CC 19 Mother NotMothr in life non -
JAAKKO 2	b 4 4 all Eu:Sca 1992 2001	Pr 7 AnyHh NoHhMemb <1m non -
JONES 2	b 4 16 all Eu:UK 1996 1999	CC 0 Mother NotMothr unspec non -
KARUNA 1	b 1 10 all As:cen 1996 2001	CC 0 TotETS None current non -
LAM1 16	b 12 15 all As:FE 1994 1998	CS 4 AnyHh NoHhMemb unspec non -
LAM2 2	b 8 13 all As:FE 1995 1999	CS 4 AnyHh NoHhMemb unspec non -
LAU 1	b 3 10 all As:FE 1989 1995	CS 0 AnyPar NoParent current non -
LEE1 1	b 6 12 all As:FE 1995 2001	CS 8 AnyHh NoHhMemb current non -
LEE2 1	b 12 15 all As:FE 1995 2001	CS 8 AnyHh NoHhMemb current non -
LEEN 1	b 9 9 all Eu:wst 1991 1994	CC 0 AnyPar NoParent unspec non -
LILLJE 1	b 7 10 all Eu:Sca 1991 1997	CS 0 AnyPar NoParent unspec non -
LINDFO 1	b 1 4 all Eu:Sca 1990 1995	CC 0 AnyPar NoParent <2y non -
MELSOM 5	m 11 17 all As:cen 1997 2001	CC 0 AnyHh NoHhMemb unspec non -
MELSOM 6	f 11 17 all As:cen 1997 2001	CC 0 AnyHh NoHhMemb unspec non -
MOHAME 1	b 9 11 all Africa 1990 1995	CC 0 AnyHh NoHhMemb unspec non -
MOUSSA 1	b 6 18 all As:ME 1992 1996	CC 0 Mother NotMothr unspec non -
MUMCUO 6	b 3 15 all As:ME 1986 1994	CC 0 AnyHh NoHhMemb unspec non -
NHANE3 61	b 4 16 w+b NAmer 1988 2001	CS 6 Biochem Low - - blood
NITTA 1	b 7 12 all As:FE 1995 1996	CS 5 AnyHh NoHhMemb current non -
OHARA 6	b 3 12 all As:FE 2001 2002	CS 4 AnyPar NoParent current non -
PALMIE 3	b 1 12 all Eu:Ita *	1990 CC 0 AnyPar NoParent unspec non -
PETERS 6	b 9 14 all As:FE 1989 1996	Pr 6 AnyHh NoHhMemb current non -
PIC 1	b 5 15 all Eu:wst 1999 2002	CS 0 AnyPar NoParent unspec non -
RIBETI 1	b 4 9 all SCamer 1996 2002	CS 0 AnyPar NoParent current non -
RONMAR 1	b 7 8 all Eu:Sca 1996 2002	Pr 5 Mother NotMothr unspec non -
SARRAZ 1	b 6 10 all SCamer *	1997 CC 0 AnyHh NoHhMemb unspec non -
SCHMIT 1	b 6 15 all Eu:wst 1989 1993	CS 4 Mother NotMothr unspec non -
SELCUK 4	b 7 12 all Eu:est 1994 1997	CS 6 AnyHh NoHhMemb unspec non -
SHOHAT 4	b 13 14 all As:ME 1997 2002	CS 12 Mother NotMothr unspec non -
SOTOQU 1	b 5 17 all SCamer 1987 1994	CS 0 Mother NotMothr current non -
STANHO 1	b 12 18 all Auslia 1975 1979	CS 0 Mother NotMothr current non -
STERN1 1	b 7 12 all NAmer 1983 1989	CS 0 Mother NotMothr unspec non -
STODDA 10	b 0 17 all NAmer 1986 1995	CS 9 Mother NotMothr current non -
STRACH 9	b 13 18 all Eu:UK 1993 1995	CC 4 Mother NotMothr current non -
TARIQ 12	b 4 4 all Eu:UK 1989 2000	Pr 1 Mother NotMothr in life non -
TOMINA 2	b 3 3 all As:FE 1978 1985	CS 0 Mother NoHhMemb unspec non -
WANG 2	b 11 16 all As:FE 1995 1999	CS 8 AnyHh NoHhMemb unspec non -
WILLE1 7	b 3 15 all Eu:Sca 1988 1991	CC 0 AnyPar NoParent current non -
WOLFO1 1	b 8 8 all Eu:Ger 1977 1995	CS 7 AnyHh NoHhMemb current non -
WOLFO2 1	b 10 10 all Eu:Ger 1979 1995	CS 7 AnyHh NoHhMemb current non -

Appendix Table A19 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF	NRR	CompA3	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
WOLFO3	1		b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
YANG	2		b	6	12	all	As:FE	1994	1997	CS	10	AnyHh	NoHhMemb	unspec	non	-
ZHENG	19		b	6	10	all	As:FE	1999	2002	CC	6	AnyHh	NoHhMemb	in life	non	-

Appendix Table A19 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Cont	Case	Cont			
ADDOYO	1	b	0	13	5	23	33	3.73	(1.17-	11.91)
AGABI1	14	b	11	558	-	148	-	1.34	(1.11-	1.62)
AGABI2	14	b	12	700	-	203	-	1.17	(0.99-	1.39)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80-	14.60)
BERGMA	1	b	8	-	-	-	-	1.32	(0.88-	1.97)
CALL	1	b	0	19	19	18	17	0.94	(0.38-	2.37)
CHEN2	50	b	1	24	-	50	-	1.07	(0.61-	1.87)
CHHABR	1	b	0	118	404	313	1733	1.62	(1.27-	2.05)
CLARK	2	b	0	13	23	6	20	1.88	(0.60-	5.88)
CSONKA	4	b	4	-	-	-	-	2.10	(1.20-	3.70)
CUNNI1	1	b	0	396	5339	412	5387	0.97	(0.84-	1.12)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10-	3.47)
DEKKER	6	b	9	386	-	249	-	1.49	(1.24-	1.78)
DIJKST	1	b	0	-	-	-	-	1.95	(0.91-	4.19)
DOTTER	1	m	6	-	-	-	-	0.50	(0.30-	1.00)
DOTTER	2	f	6	-	-	-	-	0.50	(0.20-	1.10)
Subtotal	DOTTER							0.50	(0.31-	0.82)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84-	2.36)
FORSB1	2	b	14	-	-	-	-	1.10	(0.70-	1.70)
FORSB2	2	b	14	-	-	-	-	0.70	(0.30-	1.60)
FORSB3	2	b	15	-	-	-	-	1.56	(1.18-	2.05)
FUJI	1	b	0	36	602	29	370	0.76	(0.46-	1.27)
GILLIL	28	b	9	182	-	255	-	0.99	(0.76-	1.27)
GOLD	7	b	11	-	-	-	-	0.99	(0.83-	1.18)
GUPTA	2	b	2	84	-	121	-	1.78	(1.34-	2.36)
HABY	4	b	9	86	-	104	-	1.62	(0.95-	2.75)
HJERN1	13	b	9	61	-	58	-	0.72	(0.52-	1.01)
HJERN2	13	b	9	44	-	34	-	0.94	(0.62-	1.43)
HOST	1	b	0	20	457	14	285	0.89	(0.44-	1.79)
HU1	6	b	0	28	148	44	238	1.02	(0.61-	1.71)
HU2	24	b	3	34	-	84	-	1.47	(0.97-	2.23)
INFANT	10	b	19	183	-	273	-	1.40	(0.95-	2.05)
JAAKO	2	b	7	71	-	93	-	1.21	(0.85-	1.72)
JONES	2	b	0	27	24	73	76	1.17	(0.62-	2.21)
KARUNA	1	b	0	130	121	170	179	1.13	(0.82-	1.57)
LAM1	16	b	4	30	-	35	-	0.84	(0.51-	1.38)
LAM2	2	b	4	-	-	-	-	0.76	(0.47-	1.25)
LAU	1	b	0	19	247	9	158	1.35	(0.60-	3.06)
LEE1	1	b	8	-	-	-	-	1.37	(1.24-	1.51)
LEE2	1	b	8	-	-	-	-	0.99	(0.87-	1.13)
LEEN	1	b	0	46	45	69	51	0.76	(0.44-	1.31)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81-	1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15-	2.37)
MELSOM	5	m	0	-	-	-	-	3.00	(1.30-	6.70)
MELSOM	6	f	0	-	-	-	-	1.00	(0.30-	3.10)
Subtotal	MELSOM							2.09	(1.07-	4.08)
MOHAME	1	b	0	-	-	-	-	1.60	(0.80-	3.20)
MOUSSA	1	b	0	1	0	202	203	3.01	(0.12-	74.44)
MUMCUO	6	b	0	181	62	119	38	0.93	(0.59-	1.48)
NHANE3	61	b	6	321	-	126	-	1.25	(0.74-	2.11)
NITTA	1	b	5	-	-	-	-	0.91	(0.54-	1.53)
OHARA	6	b	4	82	-	59	-	0.91	(0.65-	1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70-	1.42)
PETERS	6	b	6	-	-	-	-	0.86	(0.64-	1.15)
PIC	1	b	0	51	829	60	1069	1.10	(0.75-	1.61)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59-	2.41)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12-	2.28)
SARRAZ	1	b	0	6	8	8	13	1.22	(0.31-	4.83)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21-	3.54)
SELCHUK	4	b	6	240	-	68	-	1.28	(0.94-	1.75)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95-	1.55)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14-	2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13-	1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63-	1.98)
STODDA	10	b	9	224	-	443	-	1.36	(1.14-	1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85-	1.79)
TARIQ	12	b	1	48	-	133	-	0.89	(0.57-	1.40)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08-	1.47)

Appendix Table A19 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
WANG	2	b	8	12212	-	8425	-	1.08	(1.05- 1.12)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
WOLFO1	1	b	7	-	-	-	-	1.17	(0.57- 2.43)
WOLFO2	1	b	7	-	-	-	-	1.01	(0.42- 2.41)
WOLFO3	1	b	10	-	-	-	-	2.11	(1.15- 3.87)
YANG	2	b	10	90	-	76	-	0.87	(0.61- 1.22)
ZHENG	19	b	6	285	-	118	-	1.40	(1.10- 1.90)
Partial Totals				18106	10355	14607	15063		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO	1	b	0	1.32	2.85	4.08	0.0262
AGABI1	14	b	11	0.29	107.50	3.18	0.0024
AGABI2	14	b	12	0.16	133.43	0.17	0.0697
ARSHAD	1	b	7	1.20	1.82	2.13	0.1044
BERGMA	1	b	8	0.28	23.66	0.58	0.1769
CALL	1	b	0	-0.06	4.55	0.14	0.9029
CHEN2	50	b	1	0.07	12.24	0.03	0.8128
CHHABR	1	b	0	0.48	67.93	8.80	0.0001
CLARK	2	b	0	0.63	2.97	0.78	0.2753
CSONKA	4	b	4	0.74	12.12	4.68	0.0098
CUNNI1	1	b	0	-0.03	187.78	4.31	0.6744
DAIGLE	3	b	7	0.67	11.64	3.55	0.0217
DEKKER	6	b	9	0.40	117.58	9.09	0.0000
DIJKST	1	b	0	0.67	6.59	1.97	0.0865
DOTTER	1	m	6	-0.69	10.60	7.02	0.0240
DOTTER	2	f	6	-0.69	5.29	3.50	0.1110
Subtotal DOTTER				-1.63	15.89	10.53	
FAGBUL	2	b	1	0.34	14.40	0.71	0.1923
FORSB1	2	b	14	0.10	19.52	0.01	0.6737
FORSB2	2	b	14	-0.36	5.48	1.25	0.4036
FORSB3	2	b	15	0.44	50.37	5.28	0.0016
FUJI	1	b	0	-0.27	15.01	2.30	0.2946
GILLIL	28	b	9	-0.01	58.28	1.00	0.9388
GOLD	7	b	11	-0.01	124.12	2.12	0.9108
GUPTA	2	b	2	0.58	47.97	9.97	0.0001
HABY	4	b	9	0.48	13.60	1.78	0.0752
HJERN1	13	b	9	-0.33	34.86	7.04	0.0524
HJERN2	13	b	9	-0.06	22.00	0.73	0.7716
HOST	1	b	0	-0.12	7.87	0.44	0.7459
HU1	6	b	0	0.02	14.41	0.14	0.9302
HU2	24	b	3	0.39	22.17	1.55	0.0697
INFANT	10	b	19	0.34	25.97	1.21	0.0864
JAAKKO	2	b	7	0.19	30.93	0.15	0.2891
JONES	2	b	0	0.16	9.47	0.01	0.6266
KARUNA	1	b	0	0.12	36.46	0.00	0.4564
LAM1	16	b	4	-0.17	15.51	1.35	0.4923
LAM2	2	b	4	-0.27	16.06	2.51	0.2714
LAU	1	b	0	0.30	5.74	0.19	0.4716
LEE1	1	b	8	0.31	395.94	14.90	0.0000
LEE2	1	b	8	-0.01	224.74	3.85	0.8802
LEEN	1	b	0	-0.28	12.81	2.06	0.3157
LILLJE	1	b	0	0.09	42.18	0.05	0.5801
LINDFO	1	b	0	0.50	29.55	4.26	0.0065
MELSOM	5	m	0	1.10	5.71	5.46	0.0086
MELSOM	6	f	0	0.00	2.82	0.04	1.0000
Subtotal MELSOM				0.86	8.53	5.51	
MOHAME	1	b	0	0.47	8.00	0.98	0.1838
MOUSSA	1	b	0	1.10	0.37	0.36	0.5000
MUMCUO	6	b	0	-0.07	17.74	0.65	0.7676
NHANE3	61	b	6	0.22	14.00	0.15	0.4038
NITTA	1	b	5	-0.09	14.17	0.66	0.7226
OHARA	6	b	4	-0.09	34.25	1.58	0.5810
PALMIE	3	b	0	-0.00	30.71	0.45	0.9963
PETERS	6	b	6	-0.15	44.74	3.30	0.3131
PIC	1	b	0	0.09	26.03	0.02	0.6397
RIBEIR	1	b	0	0.18	7.76	0.03	0.6116

Appendix Table A19 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
RONMAR	1	b	5	0.47	30.41	3.71	0.0095
SARRAZ	1	b	0	0.20	2.03	0.01	0.7783
SCHMIT	1	b	4	0.73	13.33	4.91	0.0079
SELCUK	4	b	6	0.25	39.78	0.63	0.1195
SHOHAT	4	b	12	0.19	64.12	0.31	0.1269
SOTOQU	1	b	0	0.42	46.33	4.23	0.0040
STANHO	1	b	0	-1.02	3.66	4.77	0.0507
STERN1	1	b	0	0.11	11.71	0.00	0.7107
STODDA	10	b	9	0.31	124.44	4.34	0.0006
STRACH	9	b	4	0.21	27.70	0.21	0.2759
TARIQ	12	b	1	-0.12	19.03	1.07	0.6112
TOMINA	2	b	0	-1.06	1.84	2.55	0.1515
WANG	2	b	8	0.08	3689.08	7.09	0.0000
WILLE1	7	b	0	0.68	6.06	1.88	0.0955
WOLFO1	1	b	7	0.16	7.31	0.01	0.6712
WOLFO2	1	b	7	0.01	5.03	0.06	0.9822
WOLFO3	1	b	10	0.75	10.43	4.09	0.0159
YANG	2	b	10	-0.14	31.98	2.16	0.4310
ZHENG	19	b	6	0.34	51.44	2.39	0.0158

RR data

	N	73
	NS	71
	Wt	6396.00
Het	Chi	177.00
Het	df	72
Het	P	***
Fixed	RR	1.13
	RRl	1.10
	RRu	1.16
	P	+++
Random	RR	1.18
	RRl	1.11
	RRu	1.26
	P	+++
Asymm	P	N.S.

Appendix Table A19 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

RR data

	N	73			
	NS	71			
	Wt	6396.00			
Het	Chi	177.00			
Het	df	72			
Het	P	***			
Fixed	RR	1.13			
	RRl	1.10			
	RRu	1.16			
	P	+++			
Random	RR	1.18			
	RRl	1.11			
	RRu	1.26			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	69	2	2	73
	NS	69	2	2	73
	Wt	6371.58	16.32	8.10	6396.00
Het	Chi	160.96	11.92	0.88	177.00
Het	df	68	1	1	72
Het	P	***	***	N.S.	***
Fixed	RR	1.13	0.94	0.64	1.13
	RRl	1.10	0.58	0.32	1.10
	RRu	1.16	1.52	1.27	1.16
	P	+++	N.S.	N.S.	+++
Random	RR	1.19	1.20	0.64	1.18
	RRl	1.12	0.21	0.32	1.11
	RRu	1.27	6.93	1.27	1.26
	P	+++	N.S.	N.S.	+++
Between	Chi				3.24
Between	df				2
Between	P				N.S.

Appendix Table A19 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
3	OLIVET	WEITZ1	WEITZ2													
4	CHINN	EHRLI1	KNIGHT	SOMERV												
5	AZIZI	BALL	DEKOK	FIELDE	HUGHES	KALYO1	KALYO2	LOPEZC	MCCON2	MELIA	STERN2					
14	WILLE2															

Appendix Table A19 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP													
GILLIL	GILLIL	1	MCCON1/GILLIL													
HJERN1	HJERN1	1	HJERN1/HJERN2													
HJERN2	HJERN2	1	HJERN1/HJERN2													
STERN1	STERN1	1	STERN1/STERN2													
FORSB3	FORSB3	1	FORSB3/WILLE2													
WOLFO1	WOLFO1	1	WOLFO1/WOLFO2/WOLFO3													
WOLFO2	WOLFO2	1	WOLFO1/WOLFO2/WOLFO3													
WOLFO3	WOLFO3	1	WOLFO1/WOLFO2/WOLFO3													

Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
ADDOYO	2	b	8	17	all	Africa	*	2001	CC	4	AnyHh	NoHhMemb	unspec	non	-	*	n
ARSHAD	7	b	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non	-	*	n
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	-	*	n
BALL	1	b	6	13	all	NAmer	1980	2000	Pr	0	AnyPar	NoParent	unspec	non	-	*	n
DEKOK	1	b	6	12	all	Eu:wst	1993	1996	CS	6	Mother	NotMothr	unspec	non	-	*	n
DIJKST	3	b	6	12	all	Eu:wst	1986	1990	CS	12	AnyHh	NoHhMemb	current	non	-	1.77	n
FIELDDE	2	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	-	*	n
KALYO1	2	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KALYO2	1	b	6	13	all	Eu:est	1997	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
KARUNA	2	b	1	10	all	As:cen	1996	2001	CC	10	TotETS	None	current	non	-	*	n
LOPEZC	3	b	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	-	1.06	n
MCCON2	5	b	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-	*	n
MELIA	1	b	5	11	all	Eu:UK	1977	1981	CS	0	AnyHh	NoHhMemb	current	non	-	*	y
MOHAME	5	b	9	11	all	Africa	1990	1995	CC	4	AnyHh	NoHhMemb	unspec	non	-	*	n
PALMIE	10	b	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non	-	*	y
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	-	0.98	n
STRACH	15	b	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	<1m	non	-	*	y

Appendix Table A20 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Biochemical, total, household (overall), or parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 9) WHESMO : at a specific age (youngest first), during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, current
- 10) UNEXSO : none, none in household, neither parent, not specific parent
- 11) UNEXTI : not a longer time (CUNNI1(3): not in utero or since birth), never (in smoker's lifetime), not at specified time
- 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 13) RACE : all in study or nearest available, otherwise by race
- 14) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A19 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A20 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF NRR CompA19 SEX AGEL AGEH RACE	LOC BEGYR PUBYR STTYP ADJ EXP-who UNEXsource	EXPOS-time UNEXTI BIOMEA
ADDOYO 1	b 8 17 all Africa *	2001 CC 0 AnyHh NoHhMemb unspec non -
AGAB1 14	b 6 7 all Eu:Ita 1994 1999	CC 11 AnyPar NoParent current never -
AGAB2 14	b 13 14 all Eu:Ita 1994 1999	CC 12 AnyPar NoParent current never -
ARSHAD 1	b 1 1 all Eu:UK 1990 1992	Pr 7 AnyPar NoParent utero/life non -
BERGMA 1	b 3 6 all Eu:Ger 1990 2000	Pr 8 AnyHh NoHhMemb 18m non -
CALL 1	b 3 15 all NAmEr 1990 1992	CC 0 AnyHh NoHhMemb unspec non -
CHEN2 50	b 6 17 all NAmEr 1993 1996	CS 1 AnyHh NoHhMemb current non -
CHHABR 1	b 4 17 all As:cen *	1998 CS 0 AnyHh NoHhMemb unspec non -
CLARK 2	b 5 7 all Eu:UK *	1994 CC 0 Biochem Low - - saliva
CSONKA 4	b 6 13 all Eu:Sca *	2000 CS 4 AnyHh NoHhMemb <3y non -
CUNNI 1	b 8 11 all NAmEr 1988 1996	CS 0 AnyHh NoHhMemb current non -
DAIGLE 3	b 0 * all NAmEr 1986 1991	CC 7 Mother NotMothr unspec non -
DEKKER 6	b 5 8 all NAmEr 1988 1991	CC 9 AnyHh NoHhMemb unspec non -
DIJKST 1	b 6 12 all Eu:wst 1986 1990	CS 0 AnyHh NoHhMemb current non -
DOTTER 1	m 8 17 all Eu:est 1994 2001	CS 6 AnyHh NoHhMemb unspec non -
DOTTER 2	f 8 17 all Eu:est 1994 2001	CS 6 AnyHh NoHhMemb unspec non -
FAGBUL 2	b 0 18 all Africa *	1994 CC 1 AnyPar NoParent unspec non -
FORSB1 2	b 6 12 all Eu:Sca 1993 1997	CS 14 AnyHh NoHhMemb <2y non -
FORSB2 2	b 6 12 all Eu:Sca 1993 1997	CS 14 AnyHh NoHhMemb <2y non -
FORSB3 2	b 6 12 all Eu:Sca 1993 1997	CS 15 AnyHh NoHhMemb <2y non -
FUJI 1	b 8 11 all As:FE 1994 2002	CS 0 AnyHh NoHhMemb unspec non -
GILLIL 28	b 7 19 all NAmEr 1993 2001	CS 9 AnyHh NoHhMemb in life non -
GOLD 7	b 6 14 all NAmEr 1974 1993	Pr 11 Mother NotMothr ever never -
GUPTA 2	b 9 20 all As:cen 1997 2001	CS 2 AnyHh NoHhMemb unspec non -
HABY 4	b 3 5 all Auslia 1995 2001	CS 9 AnyPar NoParent <6m non -
HJERN1 13	b 3 15 all Eu:Sca 1996 2001	CS 9 Mother NotMothr ever never -
HJERN2 13	b 3 15 all Eu:Sca 1996 2001	CS 9 Father NotFathr ever never -
HOST 1	b 6 17 all Eu:Sca 1990 1993	CS 0 AnyPar NoParent current non -
HU1 6	b 10 11 all NAmEr 1994 1997	CS 0 Mother NotMothr current non -
HU2 24	b 20 22 all NAmEr 1986 1997	Pr 3 AnyPar LowParnt 13-15y non -
INFANT 10	b 3 4 all NAmEr 1988 1993	CC 19 Mother NotMothr in life non -
JAAKKO 2	b 4 4 all Eu:Sca 1992 2001	Pr 7 AnyHh NoHhMemb <1m non -
JONES 2	b 4 16 all Eu:UK 1996 1999	CC 0 Mother NotMothr unspec non -
KARUNA 1	b 1 10 all As:cen 1996 2001	CC 0 TotETS None current non -
LAM1 16	b 12 15 all As:FE 1994 1998	CS 4 AnyHh NoHhMemb unspec non -
LAM2 2	b 8 13 all As:FE 1995 1999	CS 4 AnyHh NoHhMemb unspec non -
LAU 1	b 3 10 all As:FE 1989 1995	CS 0 AnyPar NoParent current non -
LEE1 1	b 6 12 all As:FE 1995 2001	CS 8 AnyHh NoHhMemb current non -
LEE2 1	b 12 15 all As:FE 1995 2001	CS 8 AnyHh NoHhMemb current non -
LEEN 1	b 9 9 all Eu:wst 1991 1994	CC 0 AnyPar NoParent unspec non -
LILLJE 1	b 7 10 all Eu:Sca 1991 1997	CS 0 AnyPar NoParent unspec non -
LINDFO 1	b 1 4 all Eu:Sca 1990 1995	CC 0 AnyPar NoParent <2y non -
MELSOM 5	m 11 17 all As:cen 1997 2001	CC 0 AnyHh NoHhMemb unspec non -
MELSOM 6	f 11 17 all As:cen 1997 2001	CC 0 AnyHh NoHhMemb unspec non -
MOHAME 1	b 9 11 all Africa 1990 1995	CC 0 AnyHh NoHhMemb unspec non -
MOUSSA 1	b 6 18 all As:ME 1992 1996	CC 0 Mother NotMothr unspec non -
MUMCUO 6	b 3 15 all As:ME 1986 1994	CC 0 AnyHh NoHhMemb unspec non -
NHANE3 61	b 4 16 w+b NAmEr 1988 2001	CS 6 Biochem Low - - blood
NITTA 1	b 7 12 all As:FE 1995 1996	CS 5 AnyHh NoHhMemb current non -
OHARA 6	b 3 12 all As:FE 2001 2002	CS 4 AnyPar NoParent current non -
PALMIE 3	b 1 12 all Eu:Ita *	1990 CC 0 AnyPar NoParent unspec non -
PETERS 6	b 9 14 all As:FE 1989 1996	Pr 6 AnyHh NoHhMemb current non -
PIC 1	b 5 15 all Eu:wst 1999 2002	CS 0 AnyPar NoParent unspec non -
RIBETIR 1	b 4 9 all SCAmEr 1996 2002	CS 0 AnyPar NoParent current non -
RONMAR 1	b 7 8 all Eu:Sca 1996 2002	Pr 5 Mother NotMothr unspec non -
SARRAZ 1	b 6 10 all SCAmEr *	1997 CC 0 AnyHh NoHhMemb unspec non -
SCHMIT 1	b 6 15 all Eu:wst 1989 1993	CS 4 Mother NotMothr unspec non -
SELCUK 4	b 7 12 all Eu:est 1994 1997	CS 6 AnyHh NoHhMemb unspec non -
SHOHAT 4	b 13 14 all As:ME 1997 2002	CS 12 Mother NotMothr unspec non -
SOTOQU 1	b 5 17 all SCAmEr 1987 1994	CS 0 Mother NotMothr current non -
STANHO 1	b 12 18 all Auslia 1975 1979	CS 0 Mother NotMothr current non -
STERN1 1	b 7 12 all NAmEr 1983 1989	CS 0 Mother NotMothr unspec non -
STODDA 10	b 0 17 all NAmEr 1986 1995	CS 9 Mother NotMothr current non -
STRACH 9	b 13 18 all Eu:UK 1993 1995	CC 4 Mother NotMothr current non -
TARIQ 12	b 4 4 all Eu:UK 1989 2000	Pr 1 Mother NotMothr in life non -
TOMINA 2	b 3 3 all As:FE 1978 1985	CS 0 Mother NoHhMemb unspec non -
WANG 2	b 11 16 all As:FE 1995 1999	CS 8 AnyHh NoHhMemb unspec non -
WILLE1 7	b 3 15 all Eu:Sca 1988 1991	CC 0 AnyPar NoParent current non -
WOLFO1 1	b 8 8 all Eu:Ger 1977 1995	CS 7 AnyHh NoHhMemb current non -
WOLFO2 1	b 10 10 all Eu:Ger 1979 1995	CS 7 AnyHh NoHhMemb current non -

Appendix Table A20 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF	NRR	CompA19	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
WOLFO3	1		b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
YANG	2		b	6	12	all	As:FE	1994	1997	CS	10	AnyHh	NoHhMemb	unspec	non	-
ZHENG	19		b	6	10	all	As:FE	1999	2002	CC	6	AnyHh	NoHhMemb	in life	non	-

Appendix Table A20 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Cont	Case	Cont			
ADDOYO	1	b	0	13	5	23	33	3.73	(1.17-	11.91)
AGABI1	14	b	11	558	-	148	-	1.34	(1.11-	1.62)
AGABI2	14	b	12	700	-	203	-	1.17	(0.99-	1.39)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80-	14.60)
BERGMA	1	b	8	-	-	-	-	1.32	(0.88-	1.97)
CALL	1	b	0	19	19	18	17	0.94	(0.38-	2.37)
CHEN2	50	b	1	24	-	50	-	1.07	(0.61-	1.87)
CHHABR	1	b	0	118	404	313	1733	1.62	(1.27-	2.05)
CLARK	2	b	0	13	23	6	20	1.88	(0.60-	5.88)
CSONKA	4	b	4	-	-	-	-	2.10	(1.20-	3.70)
CUNNI1	1	b	0	396	5339	412	5387	0.97	(0.84-	1.12)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10-	3.47)
DEKKER	6	b	9	386	-	249	-	1.49	(1.24-	1.78)
DIJKST	1	b	0	-	-	-	-	1.95	(0.91-	4.19)
DOTTER	1	m	6	-	-	-	-	0.50	(0.30-	1.00)
DOTTER	2	f	6	-	-	-	-	0.50	(0.20-	1.10)
Subtotal	DOTTER							0.50	(0.31-	0.82)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84-	2.36)
FORSB1	2	b	14	-	-	-	-	1.10	(0.70-	1.70)
FORSB2	2	b	14	-	-	-	-	0.70	(0.30-	1.60)
FORSB3	2	b	15	-	-	-	-	1.56	(1.18-	2.05)
FUJI	1	b	0	36	602	29	370	0.76	(0.46-	1.27)
GILLIL	28	b	9	182	-	255	-	0.99	(0.76-	1.27)
GOLD	7	b	11	-	-	-	-	0.99	(0.83-	1.18)
GUPTA	2	b	2	84	-	121	-	1.78	(1.34-	2.36)
HABY	4	b	9	86	-	104	-	1.62	(0.95-	2.75)
HJERN1	13	b	9	61	-	58	-	0.72	(0.52-	1.01)
HJERN2	13	b	9	44	-	34	-	0.94	(0.62-	1.43)
HOST	1	b	0	20	457	14	285	0.89	(0.44-	1.79)
HU1	6	b	0	28	148	44	238	1.02	(0.61-	1.71)
HU2	24	b	3	34	-	84	-	1.47	(0.97-	2.23)
INFANT	10	b	19	183	-	273	-	1.40	(0.95-	2.05)
JAAKO	2	b	7	71	-	93	-	1.21	(0.85-	1.72)
JONES	2	b	0	27	24	73	76	1.17	(0.62-	2.21)
KARUNA	1	b	0	130	121	170	179	1.13	(0.82-	1.57)
LAM1	16	b	4	30	-	35	-	0.84	(0.51-	1.38)
LAM2	2	b	4	-	-	-	-	0.76	(0.47-	1.25)
LAU	1	b	0	19	247	9	158	1.35	(0.60-	3.06)
LEE1	1	b	8	-	-	-	-	1.37	(1.24-	1.51)
LEE2	1	b	8	-	-	-	-	0.99	(0.87-	1.13)
LEEN	1	b	0	46	45	69	51	0.76	(0.44-	1.31)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81-	1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15-	2.37)
MELSOM	5	m	0	-	-	-	-	3.00	(1.30-	6.70)
MELSOM	6	f	0	-	-	-	-	1.00	(0.30-	3.10)
Subtotal	MELSOM							2.09	(1.07-	4.08)
MOHAME	1	b	0	-	-	-	-	1.60	(0.80-	3.20)
MOUSSA	1	b	0	1	0	202	203	3.01	(0.12-	74.44)
MUMCUO	6	b	0	181	62	119	38	0.93	(0.59-	1.48)
NHANE3	61	b	6	321	-	126	-	1.25	(0.74-	2.11)
NITTA	1	b	5	-	-	-	-	0.91	(0.54-	1.53)
OHARA	6	b	4	82	-	59	-	0.91	(0.65-	1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70-	1.42)
PETERS	6	b	6	-	-	-	-	0.86	(0.64-	1.15)
PIC	1	b	0	51	829	60	1069	1.10	(0.75-	1.61)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59-	2.41)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12-	2.28)
SARRAZ	1	b	0	6	8	8	13	1.22	(0.31-	4.83)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21-	3.54)
SELCHUK	4	b	6	240	-	68	-	1.28	(0.94-	1.75)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95-	1.55)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14-	2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13-	1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63-	1.98)
STODDA	10	b	9	224	-	443	-	1.36	(1.14-	1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85-	1.79)
TARIQ	12	b	1	48	-	133	-	0.89	(0.57-	1.40)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08-	1.47)

Appendix Table A20 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
WANG	2	b	8	12212	-	8425	-	1.08	(1.05- 1.12)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
WOLFO1	1	b	7	-	-	-	-	1.17	(0.57- 2.43)
WOLFO2	1	b	7	-	-	-	-	1.01	(0.42- 2.41)
WOLFO3	1	b	10	-	-	-	-	2.11	(1.15- 3.87)
YANG	2	b	10	90	-	76	-	0.87	(0.61- 1.22)
ZHENG	19	b	6	285	-	118	-	1.40	(1.10- 1.90)
Partial Totals				18106	10355	14607	15063		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO	1	b	0	1.32	2.85	4.08	0.0262
AGABI1	14	b	11	0.29	107.50	3.18	0.0024
AGABI2	14	b	12	0.16	133.43	0.17	0.0697
ARSHAD	1	b	7	1.20	1.82	2.13	0.1044
BERGMA	1	b	8	0.28	23.66	0.58	0.1769
CALL	1	b	0	-0.06	4.55	0.14	0.9029
CHEN2	50	b	1	0.07	12.24	0.03	0.8128
CHHABR	1	b	0	0.48	67.93	8.80	0.0001
CLARK	2	b	0	0.63	2.97	0.78	0.2753
CSONKA	4	b	4	0.74	12.12	4.68	0.0098
CUNNI1	1	b	0	-0.03	187.78	4.31	0.6744
DAIGLE	3	b	7	0.67	11.64	3.55	0.0217
DEKKER	6	b	9	0.40	117.58	9.09	0.0000
DIJKST	1	b	0	0.67	6.59	1.97	0.0865
DOTTER	1	m	6	-0.69	10.60	7.02	0.0240
DOTTER	2	f	6	-0.69	5.29	3.50	0.1110
Subtotal DOTTER				-1.63	15.89	10.53	
FAGBUL	2	b	1	0.34	14.40	0.71	0.1923
FORSB1	2	b	14	0.10	19.52	0.01	0.6737
FORSB2	2	b	14	-0.36	5.48	1.25	0.4036
FORSB3	2	b	15	0.44	50.37	5.28	0.0016
FUJI	1	b	0	-0.27	15.01	2.30	0.2946
GILLIL	28	b	9	-0.01	58.28	1.00	0.9388
GOLD	7	b	11	-0.01	124.12	2.12	0.9108
GUPTA	2	b	2	0.58	47.97	9.97	0.0001
HABY	4	b	9	0.48	13.60	1.78	0.0752
HJERN1	13	b	9	-0.33	34.86	7.04	0.0524
HJERN2	13	b	9	-0.06	22.00	0.73	0.7716
HOST	1	b	0	-0.12	7.87	0.44	0.7459
HU1	6	b	0	0.02	14.41	0.14	0.9302
HU2	24	b	3	0.39	22.17	1.55	0.0697
INFANT	10	b	19	0.34	25.97	1.21	0.0864
JAAKKO	2	b	7	0.19	30.93	0.15	0.2891
JONES	2	b	0	0.16	9.47	0.01	0.6266
KARUNA	1	b	0	0.12	36.46	0.00	0.4564
LAM1	16	b	4	-0.17	15.51	1.35	0.4923
LAM2	2	b	4	-0.27	16.06	2.51	0.2714
LAU	1	b	0	0.30	5.74	0.19	0.4716
LEE1	1	b	8	0.31	395.94	14.90	0.0000
LEE2	1	b	8	-0.01	224.74	3.85	0.8802
LEEN	1	b	0	-0.28	12.81	2.06	0.3157
LILLJE	1	b	0	0.09	42.18	0.05	0.5801
LINDFO	1	b	0	0.50	29.55	4.26	0.0065
MELSOM	5	m	0	1.10	5.71	5.46	0.0086
MELSOM	6	f	0	0.00	2.82	0.04	1.0000
Subtotal MELSOM				0.86	8.53	5.51	
MOHAME	1	b	0	0.47	8.00	0.98	0.1838
MOUSSA	1	b	0	1.10	0.37	0.36	0.5000
MUMCUO	6	b	0	-0.07	17.74	0.65	0.7676
NHANE3	61	b	6	0.22	14.00	0.15	0.4038
NITTA	1	b	5	-0.09	14.17	0.66	0.7226
OHARA	6	b	4	-0.09	34.25	1.58	0.5810
PALMIE	3	b	0	-0.00	30.71	0.45	0.9963
PETERS	6	b	6	-0.15	44.74	3.30	0.3131
PIC	1	b	0	0.09	26.03	0.02	0.6397
RIBEIR	1	b	0	0.18	7.76	0.03	0.6116

Appendix Table A20 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
RONMAR	1	b	5	0.47	30.41	3.71	0.0095
SARRAZ	1	b	0	0.20	2.03	0.01	0.7783
SCHMIT	1	b	4	0.73	13.33	4.91	0.0079
SELCUK	4	b	6	0.25	39.78	0.63	0.1195
SHOHAT	4	b	12	0.19	64.12	0.31	0.1269
SOTOQU	1	b	0	0.42	46.33	4.23	0.0040
STANHO	1	b	0	-1.02	3.66	4.77	0.0507
STERN1	1	b	0	0.11	11.71	0.00	0.7107
STODDA	10	b	9	0.31	124.44	4.34	0.0006
STRACH	9	b	4	0.21	27.70	0.21	0.2759
TARIQ	12	b	1	-0.12	19.03	1.07	0.6112
TOMINA	2	b	0	-1.06	1.84	2.55	0.1515
WANG	2	b	8	0.08	3689.08	7.09	0.0000
WILLE1	7	b	0	0.68	6.06	1.88	0.0955
WOLFO1	1	b	7	0.16	7.31	0.01	0.6712
WOLFO2	1	b	7	0.01	5.03	0.06	0.9822
WOLFO3	1	b	10	0.75	10.43	4.09	0.0159
YANG	2	b	10	-0.14	31.98	2.16	0.4310
ZHENG	19	b	6	0.34	51.44	2.39	0.0158

RR data

	N	73
	NS	71
	Wt	6396.00
Het	Chi	177.00
Het	df	72
Het	P	***
Fixed	RR	1.13
	RRl	1.10
	RRu	1.16
	P	+++
Random	RR	1.18
	RRl	1.11
	RRu	1.26
	P	+++
Asymm	P	N.S.

Appendix Table A20 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Adjusted

RR data

	N	73			
	NS	71			
	Wt	6396.00			
Het	Chi	177.00			
Het	df	72			
Het	P	***			
Fixed	RR	1.13			
	RRl	1.10			
	RRu	1.16			
	P	+++			
Random	RR	1.18			
	RRl	1.11			
	RRu	1.26			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	69	2	2	73
	NS	69	2	2	73
	Wt	6371.58	16.32	8.10	6396.00
Het	Chi	160.96	11.92	0.88	177.00
Het	df	68	1	1	72
Het	P	***	***	N.S.	***
Fixed	RR	1.13	0.94	0.64	1.13
	RRl	1.10	0.58	0.32	1.10
	RRu	1.16	1.52	1.27	1.16
	P	+++	N.S.	N.S.	+++
Random	RR	1.19	1.20	0.64	1.18
	RRl	1.12	0.21	0.32	1.11
	RRu	1.27	6.93	1.27	1.26
	P	+++	N.S.	N.S.	+++
Between	Chi				3.24
Between	df				2
Between	P				N.S.

Appendix Table A20 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
3	OLIVET	WEITZ1	WEITZ2													
4	CHINN	EHRLI1	KNIGHT	SOMERV												
5	AZIZI	BALL	DEKOK	FIELDE	HUGHES	KALYO1	KALYO2	LOPEZC	MCCON2	MELIA	STERN2					
14	WILLE2															

Appendix Table A20 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP													
GILLIL	GILLIL	1	MCCON1/GILLIL													
HJERN1	HJERN1	1	HJERN1/HJERN2													
HJERN2	HJERN2	1	HJERN1/HJERN2													
STERN1	STERN1	1	STERN1/STERN2													
FORSB3	FORSB3	1	FORSB3/WILLE2													
WOLFO1	WOLFO1	1	WOLFO1/WOLFO2/WOLFO3													
WOLFO2	WOLFO2	1	WOLFO1/WOLFO2/WOLFO3													
WOLFO3	WOLFO3	1	WOLFO1/WOLFO2/WOLFO3													

Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
ADDOYO	2	b	8	17	all	Africa	*	2001	CC	4	AnyHh	NoHhMemb	unspec	non	-	*	n
ARSHAD	7	b	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non	-	*	n
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	-	*	n
BALL	1	b	6	13	all	NAmer	1980	2000	Pr	0	AnyPar	NoParent	unspec	non	-	*	n
CUNNI1	3	b	8	11	all	NAmer	1988	1996	CS	9	AnyHh	NoHhMemb	current	othr	-	1.08	?
DEKOK	1	b	6	12	all	Eu:wst	1993	1996	CS	6	Mother	NotMothr	unspec	non	-	*	n
DIJKST	3	b	6	12	all	Eu:wst	1986	1990	CS	12	AnyHh	NoHhMemb	current	non	-	1.77	n
FIELDE	2	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	-	*	n
KALYO1	2	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KALYO2	1	b	6	13	all	Eu:est	1997	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
KARUNA	2	b	1	10	all	As:cen	1996	2001	CC	10	TotETS	None	current	non	-	*	n
LOPEZC	3	b	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	-	1.06	n
MCCON2	5	b	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-	*	n
MELIA	1	b	5	11	all	Eu:UK	1977	1981	CS	0	AnyHh	NoHhMemb	current	non	-	*	y
MOHAME	5	b	9	11	all	Africa	1990	1995	CC	4	AnyHh	NoHhMemb	unspec	non	-	*	n
PALMIE	10	b	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non	-	*	y
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	-	0.98	n
STRACH	15	b	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	<1m	non	-	*	y

Appendix Table A21 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 7) WHESMO : at a specific age (youngest first), during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, current
- 8) UNEXSO : not specific parent, neither parent, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A5 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A21 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	CompA5	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAWO	2		m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non
ANDRAE	2		b	0	16	all	Eu:Sca	1985	1988	CS	3	AnyPar	NoParent	in life	non
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non
BENER	1		b	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non
BURCHF	5		m	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BURCHF	8		f	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BUTZ	4		b	*	*	all	NAmer	1989	1992	CC	0	AnyPar	NotSpPar	ever	never
CHEN2	34		b	6	17	all	NAmer	1993	1996	CS	6	Mother	NotMothr	ever	never
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non
DODGE	12		b	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non
DOLD	7		b	9	11	all	Eu:Ger	1989	1992	CS	0	AnyPar	NoParent	unspec	non
ECE	7		b	6	15	all	Eu:est	1999	2001	CS	0	Mother	NotMothr	current	non
EHRLI2	4		b	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	ever	never
FARBE2	2		b	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non
FORAST	20		b	7	11	all	Eu:Ita	1987	1992	CS	9	AnyPar	NoParent	unspec	non
GOLD	11		b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non
GOREN1	4		b	7	11	all	As:ME	1980	1986	CS	0	Mother	NotMothr	current	non
GOREN2	5		b	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never
GORTM1	3		b	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non
GORTM2	1		b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non
HAJNAL	3		b	6	14	all	Eu:wst	1992	1999	CS	13	Mother	NotMothr	current	non
HU1	4		b	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non
HU2	23		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non
JENKIN	5		b	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non
KAY	20		b	3	11	all	Eu:UK	*	1995	CS	1	AnyPar	NoParent	unspec	non
KERSHA	5		b	0	5	all	Eu:UK	1983	1987	CC	1	Mother	LowMothr	<3y	non
KIVITY	4		b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non
KUEHR	6		b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non
KUHR	4		b	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non
LAM1	18		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	9		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LEEDER	2		b	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non
LEROUX	2		b	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non
LISTER	3		b	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MCCON1	2		b	9	18	all	NAmer	1993	2002	Pr	5	Mother	NotMothr	9-16y	non
MCCON2	1		b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never
MURRAY	5		m	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
MURRAY	7		f	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
NILSSO	1		b	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non
PONSON	4		b	0	7	all	Auslia	1988	2000	Pr	6	Mother	NotMothr	<1m	non
RASANE	3		b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never
RATAGE	2		b	5	15	all	As:cen	1996	2000	CC	0	Father	NotFathr	unspec	non
RENNIE	1		b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non
RONMAR	5		b	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non
SHERMA	1	x	b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	everlyrago	never
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non
SOYSET	3	x	b	7	13	all	Eu:Sca	1989	1995	CS	0	Mother	NotMothr	<1y	non
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VERHOE	3		b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never
WITHER	6		b	14	16	all	Eu:UK	1995	1998	CS	5	Mother	NotMothr	current	non

Appendix Table A21 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	2	b	0	32	30	70	72	1.10	(0.60- 1.99)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	4	b	0	55	51	47	54	1.24	(0.72- 2.14)
CHEN2	34	b	6	51	-	42	-	1.67	(1.01- 2.77)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	7	b	0	176	1822	235	2931	1.20	(0.98- 1.48)
ECE	7	b	0	96	530	334	2080	1.13	(0.88- 1.44)
EHRLI2	4	b	0	-	-	-	-	2.00	(1.10- 3.80)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	4	b	0	37	279	93	1001	1.43	(0.95- 2.14)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
HAJNAL	3	b	13	-	-	-	-	1.16	(0.89- 1.55)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KERSHA	5	b	1	51	-	35	-	2.43	(1.55- 3.79)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	6	b	1	28	-	134	-	0.68	(0.44- 1.06)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	18	b	4	-	-	201	-	1.32	(0.71- 2.45)
LAM2	9	b	4	-	-	-	-	0.87	(0.64- 1.17)
*LEEDER	2	b	1	48	-	11	-	1.33	(0.67- 2.64)
LEROUX	2	b	10	39	-	58	-	1.79	(1.06- 3.02)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
*MCCON1	2	b	5	23	-	193	-	0.99	(0.67- 1.47)
MCCON2	1	b	0	7	59	8	149	2.21	(0.77- 6.37)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY								1.37	(0.91- 2.07)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*PONSON	4	b	6	130	-	146	-	1.05	(0.87- 1.27)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)
RATAGE	2	b	0	51	29	69	31	0.79	(0.42- 1.47)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
*RONMAR	5	b	9	-	-	-	-	1.36	(0.82- 2.25)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SHAMGS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SHERMA	1	b	2	-	-	-	-	1.09	(0.68- 1.74)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
SOYSET	3	b	0	24	237	27	330	1.24	(0.70- 2.20)
STANHO	2	b	0	7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE	3	b	0	78	185	39	72	0.78	(0.49- 1.25)
WITHER	6	b	5	103	-	395	-	1.50	(1.14- 1.98)

Appendix Table A21 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI
				Exposed Case	Cont 23936	Case	Cont 34885		
Partial Totals									
*prospective study									
REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps		
ALBA	2	b	0	0.09	10.78	0.23	0.7608		
ALDAWO	2	m	0	0.76	8.40	2.29	0.0274		
ALFRA1	2	b	0	0.41	22.65	0.68	0.0498		
ANDRAE	2	b	3	-0.01	54.89	3.40	0.9406		
ANNESI	1	b	0	0.25	89.09	0.02	0.0166		
BENER	1	b	0	0.24	19.32	0.00	0.2839		
BURCHF	5	m	1	0.22	32.51	0.02	0.2200		
BURCHF	8	f	1	0.00	24.97	1.42	1.0000		
Subtotal BURCHF				-0.26	57.49	1.44			
BUTZ	4	b	0	0.21	12.89	0.01	0.4416		
CHEN2	34	b	6	0.51	15.10	1.13	0.0463		
DELL	2	b	0	0.42	18.30	0.59	0.0733		
DODGE	12	b	1	0.41	7.12	0.20	0.2794		
DOLD	7	b	0	0.19	92.36	0.25	0.0734		
ECE	7	b	0	0.12	63.38	0.89	0.3376		
EHRLI2	4	b	0	0.69	10.00	2.06	0.0284		
FARBE2	2	b	3	0.41	57.72	1.74	0.0017		
FAROOQ	1	b	0	0.25	72.93	0.02	0.0297		
*FERGUS	7	b	0	0.04	37.52	1.49	0.8106		
FORAST	20	b	9	0.25	37.10	0.00	0.1327		
GOLD	11	b	0	0.26	211.41	0.06	0.0002		
GOREN1	4	b	0	0.36	23.61	0.32	0.0838		
GOREN2	5	b	2	0.22	99.84	0.06	0.0316		
GORTM1	3	b	7	0.40	36.85	0.94	0.0155		
GORTM2	1	b	0	0.63	6.99	1.05	0.0978		
HAJNAL	3	b	13	0.15	49.92	0.41	0.2943		
HU1	4	b	7	-0.22	12.73	2.72	0.4259		
HU2	23	b	3	0.44	31.16	1.24	0.0144		
JENKIN	5	b	7	0.23	116.41	0.01	0.0126		
KAY	20	b	1	0.35	38.89	0.49	0.0288		
KERSHA	5	b	1	0.89	19.22	8.10	0.0001		
KIVITY	4	b	0	0.59	13.44	1.64	0.0311		
KUEHR	6	b	1	-0.39	19.88	7.75	0.0855		
KUHR	4	b	0	0.70	5.57	1.17	0.0997		
LAM1	18	b	4	0.28	10.02	0.02	0.3796		
LAM2	9	b	4	-0.14	42.22	6.03	0.3655		
*LEEDER	2	b	1	0.29	8.17	0.02	0.4149		
LEROUX	2	b	10	0.58	14.02	1.65	0.0293		
LIS	1	b	0	0.31	37.30	0.18	0.0604		
LISTER	3	b	8	0.42	64.33	2.08	0.0008		
*MARTIN	5	m	1	0.56	11.93	1.23	0.0533		
*MARTIN	6	f	1	0.68	5.55	1.10	0.1075		
Subtotal MARTIN				0.77	17.48	2.32			
*MCCON1	2	b	5	-0.01	24.89	1.54	0.9600		
MCCON2	1	b	0	0.79	3.43	1.05	0.1420		
*MCKEEV	4	b	0	0.27	1119.12	1.16	0.0000		
MURRAY	5	m	1	0.34	14.28	0.16	0.1941		
MURRAY	7	f	1	0.27	8.50	0.01	0.4311		
Subtotal MURRAY				0.14	22.78	0.17			
NILSSO	1	b	0	0.00	31.98	1.82	1.0000		
OCONNE	1	b	0	0.25	33.98	0.01	0.1384		
*PONSON	4	b	6	0.05	107.38	3.87	0.6131		
RASANE	3	b	3	0.46	27.24	1.38	0.0155		
RATAGE	2	b	0	-0.24	9.92	2.23	0.4582		
RENNIE	1	b	6	0.02	13.41	0.64	0.9422		
*RONMAR	5	b	9	0.31	15.08	0.07	0.2324		
ROSASV	1	b	0	0.45	3.25	0.15	0.4168		
SHAMSS	2	b	0	0.33	79.17	0.65	0.0034		
*SHERMA	1	b	2	0.09	17.41	0.40	0.7192		
*SIGURS	1	b	0	0.18	3.26	0.01	0.7422		
SOYSET	3	b	0	0.21	11.63	0.01	0.4670		
STANHO	2	b	0	-0.92	4.90	6.55	0.0423		
*TAYLOR	4	b	0	-0.04	72.55	5.67	0.7281		

Appendix Table A21 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
VENNER	6	m	0	0.09	27.66	0.57	0.6182
VENNER	3	f	0	0.18	28.98	0.11	0.3399
Subtotal VENNER				-0.21	56.63	0.68	
VERHOE	3	b	0	-0.25	17.31	4.14	0.2972
WITHER	6	b	5	0.41	50.42	1.40	0.0040

RR data

	N	64
	NS	60
	Wt	3292.21
Het	Chi	88.31
Het	df	63
Het	P	*
Fixed	RR	1.27
	RRl	1.23
	RRu	1.31
	P	+++
Random	RR	1.26
	RRl	1.20
	RRu	1.32
	P	+++
Asymm	P	N.S.

Appendix Table A21 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

RR data

	N	64			
	NS	60			
	Wt	3292.21			
Het	Chi	88.31			
Het	df	63			
Het	P	*			
Fixed	RR	1.27			
	RRl	1.23			
	RRu	1.31			
	P	+++			
Random	RR	1.26			
	RRl	1.20			
	RRu	1.32			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	55	5	4	64
	NS	55	5	4	64
	Wt	3129.43	94.79	68.00	3292.21
Het	Chi	81.41	4.01	2.27	88.31
Het	df	54	4	3	63
Het	P	**	N.S.	N.S.	*
Fixed	RR	1.27	1.34	1.18	1.27
	RRl	1.23	1.09	0.93	1.23
	RRu	1.31	1.64	1.50	1.31
	P	+++	++	N.S.	+++
Random	RR	1.25	1.34	1.18	1.26
	RRl	1.19	1.09	0.93	1.20
	RRu	1.32	1.64	1.50	1.32
	P	+++	++	N.S.	+++
Between	Chi				0.63
Between	df				2
Between	P				N.S.

Appendix Table A21 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	BARRET	BECKET	BRABIN	CHEN1	FIELDE	FLYNN1	FLYNN2	GURKAN	KALYO1	KEARNE	KENDIR	MAIER	MONTEF	MOYES1	MOYES2
	ODDY	POKHAR	RONCH1	RONCH2	RONCH3	RUDNIK	SELCUK	SENNHA	SPIEKE	SQUILL	TIMONE	TSIMOY	VARELA	VAVILI	WOLFO1	WOLFO2
	WOLFO3															
3	CUNNI2	GILLIL	KAPLAN	KELLY	NHANE3	NYSTAD	WEITZ1	XU								
5	BURR	DEBENE	GOREN3	GOREN4	GOREN5	GOREN6	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	VONMAF	ZEIGER	ZEJDA	
13	ALFRA2	FARBE1	FARBE3													

Appendix Table A21 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP	
MCCON1	GILLIL	2	MCCON1/GILLIL	
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3	
KUEHR	KUEHR	1	KUEHR/SPIEKE	
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2	
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6	

Adjusted - insufficient data for metaanalysis																
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	1.01	?
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	*	n
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	1.46	y
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	*	n
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	1.67	y
KIVITY	5	b	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	*	y
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	*	n
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	*	n
SANZOR	1	b	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	*	n
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	*	n
SOYSET	9	b	7	13	all	Eu:Sca	1989	1995	CS	1	Mother	NotMothr	<1y	non	*	n
STAZI	7	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	1.35	y
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	*	n
VOLKME	2	b	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	*	n
VONMAF	3	b	0	17	all	NAmer	1993	2001	CS	7	Mother	NotMothr	ever	never	*	y
ZEIGER	4	b	0	7	all	NAmer	1981	1995	Pr	4	Mother	NotMothr	unspec	non	*	n
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	*	n

Appendix Table A22 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 7) WHESMO : at a specific age (youngest first), during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, current
- 8) UNEXSO : none in household, neither parent, not specific parent
- 9) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group
and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3
(and those which actually differ from the adjusted results in Appendix Table A21 - 1 are marked 'x' in Section -1)
(Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary),
and any results which would have been included in preference except that they had data not complete enough
for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A22 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	CompA21	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAWO	2		m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non
ANDRAE	2		b	0	16	all	Eu:Sca	1985	1988	CS	3	AnyPar	NoParent	in life	non
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non
BENER	1		b	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non
BURCHF	5		m	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BURCHF	8		f	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BUTZ	4		b	*	*	all	NAmer	1989	1992	CC	0	AnyPar	NotSpPar	ever	never
CHEN2	34		b	6	17	all	NAmer	1993	1996	CS	6	Mother	NotMothr	ever	never
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non
DODGE	12		b	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non
DOLD	7		b	9	11	all	Eu:Ger	1989	1992	CS	0	AnyPar	NoParent	unspec	non
ECE	2	x	b	6	15	all	Eu:est	1999	2001	CS	0	Mother	NoHhMemb	current	non
EHRLI2	4		b	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	ever	never
FARBE2	2		b	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non
FORAST	20		b	7	11	all	Eu:Ita	1987	1992	CS	9	AnyPar	NoParent	unspec	non
GOLD	11		b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non
GOREN1	1	x	b	7	11	all	As:ME	1980	1986	CS	0	Mother	NoHhMemb	current	non
GOREN2	5		b	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never
GORTM1	3		b	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non
GORTM2	1		b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non
HAJNAL	3		b	6	14	all	Eu:wst	1992	1999	CS	13	Mother	NotMothr	current	non
HU1	4		b	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non
HU2	23		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non
JENKIN	5		b	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non
KAY	20		b	3	11	all	Eu:UK	*	1995	CS	1	AnyPar	NoParent	unspec	non
KERSHA	6	x	b	0	5	all	Eu:UK	1983	1987	CC	1	Mother	LowHh	<3y	non
KIVITY	4		b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non
KUEHR	6		b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non
KUHR	4		b	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non
LAM1	18		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	9		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LEEDER	2		b	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non
LEROUX	2		b	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non
LISTER	3		b	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MCCON1	2		b	9	18	all	NAmer	1993	2002	Pr	5	Mother	NotMothr	9-16y	non
MCCON2	1		b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never
MURRAY	5		m	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
MURRAY	7		f	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
NILSSO	1		b	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non
PONSON	9	x	b	0	7	all	Auslia	1988	2000	Pr	0	Mother	NoHhMemb	<1m	non
RASANE	3		b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never
RATAGE	3	x	b	5	15	all	As:cen	1996	2000	CC	0	Father	NoHhMemb	unspec	non
RENNIE	1		b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non
RONMAR	5		b	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non
SHERMA	1		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	everlyrago	never
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non
SOYSET	3		b	7	13	all	Eu:Sca	1989	1995	CS	0	Mother	NotMothr	<1y	non
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VERHOE	3		b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never
WITHER	4	x	b	14	16	all	Eu:UK	1995	1998	CS	0	Mother	NoHhMemb	current	non

Appendix Table A22 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	2	b	0	32	30	70	72	1.10	(0.60- 1.99)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	4	b	0	55	51	47	54	1.24	(0.72- 2.14)
CHEN2	34	b	6	51	-	42	-	1.67	(1.01- 2.77)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	7	b	0	176	1822	235	2931	1.20	(0.98- 1.48)
ECE	2	b	0	96	530	132	906	1.24	(0.94- 1.65)
EHRLI2	4	b	0	-	-	-	-	2.00	(1.10- 3.80)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	1	b	0	37	279	50	514	1.36	(0.87- 2.14)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
HAJNAL	3	b	13	-	-	-	-	1.16	(0.89- 1.55)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KERSHA	6	b	1	51	-	15	-	3.61	(1.99- 6.53)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	6	b	1	28	-	134	-	0.68	(0.44- 1.06)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	18	b	4	-	-	201	-	1.32	(0.71- 2.45)
LAM2	9	b	4	-	-	-	-	0.87	(0.64- 1.17)
*LEEDER	2	b	1	48	-	11	-	1.33	(0.67- 2.64)
LEROUX	2	b	10	39	-	58	-	1.79	(1.06- 3.02)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
*MCCON1	2	b	5	23	-	193	-	0.99	(0.67- 1.47)
MCCON2	1	b	0	7	59	8	149	2.21	(0.77- 6.37)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY								1.37	(0.91- 2.07)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*PONSON	9	b	0	130	382	88	293	1.13	(0.91- 1.42)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)
RATAGE	3	b	0	51	29	58	30	0.91	(0.48- 1.71)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
*RONMAR	5	b	9	-	-	-	-	1.36	(0.82- 2.25)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SHAMGS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SHERMA	1	b	2	-	-	-	-	1.09	(0.68- 1.74)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
SOYSET	3	b	0	24	237	27	330	1.24	(0.70- 2.20)
STANHO	2	b	0	7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE	3	b	0	78	185	39	72	0.78	(0.49- 1.25)
WITHER	4	b	0	103	299	296	1107	1.29	(1.00- 1.67)

Appendix Table A22 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI
				Exposed Case	Cont 24617	Case	Cont 34623		
Partial Totals									
*prospective study									
REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps		
ALBA	2	b	0	0.09	10.78	0.24	0.7608		
ALDAWO	2	m	0	0.76	8.40	2.27	0.0274		
ALFRA1	2	b	0	0.41	22.65	0.66	0.0498		
ANDRAE	2	b	3	-0.01	54.89	3.48	0.9406		
ANNESI	1	b	0	0.25	89.09	0.01	0.0166		
BENER	1	b	0	0.24	19.32	0.00	0.2839		
BURCHF	5	m	1	0.22	32.51	0.02	0.2200		
BURCHF	8	f	1	0.00	24.97	1.46	1.0000		
Subtotal BURCHF				-0.27	57.49	1.48			
BUTZ	4	b	0	0.21	12.89	0.01	0.4416		
CHEN2	34	b	6	0.51	15.10	1.11	0.0463		
DELL	2	b	0	0.42	18.30	0.57	0.0733		
DODGE	12	b	1	0.41	7.12	0.19	0.2794		
DOLD	7	b	0	0.19	92.36	0.28	0.0734		
ECE	2	b	0	0.22	47.66	0.03	0.1329		
EHRLI2	4	b	0	0.69	10.00	2.04	0.0284		
FARBE2	2	b	3	0.41	57.72	1.68	0.0017		
FAROOQ	1	b	0	0.25	72.93	0.01	0.0297		
*FERGUS	7	b	0	0.04	37.52	1.54	0.8106		
FORAST	20	b	9	0.25	37.10	0.00	0.1327		
GOLD	11	b	0	0.26	211.41	0.04	0.0002		
GOREN1	1	b	0	0.31	19.03	0.09	0.1764		
GOREN2	5	b	2	0.22	99.84	0.07	0.0316		
GORTM1	3	b	7	0.40	36.85	0.91	0.0155		
GORTM2	1	b	0	0.63	6.99	1.03	0.0978		
HAJNAL	3	b	13	0.15	49.92	0.43	0.2943		
HU1	4	b	7	-0.22	12.73	2.75	0.4259		
HU2	23	b	3	0.44	31.16	1.20	0.0144		
JENKIN	5	b	7	0.23	116.41	0.01	0.0126		
KAY	20	b	1	0.35	38.89	0.46	0.0288		
KERSHA	6	b	1	1.28	10.88	11.82	0.0000		
KIVITY	4	b	0	0.59	13.44	1.61	0.0311		
KUEHR	6	b	1	-0.39	19.88	7.82	0.0855		
KUHR	4	b	0	0.70	5.57	1.16	0.0997		
LAM1	18	b	4	0.28	10.02	0.01	0.3796		
LAM2	9	b	4	-0.14	42.22	6.13	0.3655		
*LEEDER	2	b	1	0.29	8.17	0.02	0.4149		
LEROUX	2	b	10	0.58	14.02	1.63	0.0293		
LIS	1	b	0	0.31	37.30	0.16	0.0604		
LISTER	3	b	8	0.42	64.33	2.02	0.0008		
*MARTIN	5	m	1	0.56	11.93	1.21	0.0533		
*MARTIN	6	f	1	0.68	5.55	1.08	0.1075		
Subtotal MARTIN				0.76	17.48	2.29			
*MCCON1	2	b	5	-0.01	24.89	1.58	0.9600		
MCCON2	1	b	0	0.79	3.43	1.04	0.1420		
*MCKEEV	4	b	0	0.27	1119.12	0.95	0.0000		
MURRAY	5	m	1	0.34	14.28	0.15	0.1941		
MURRAY	7	f	1	0.27	8.50	0.01	0.4311		
Subtotal MURRAY				0.13	22.78	0.16			
NILSSO	1	b	0	0.00	31.98	1.87	1.0000		
OCONNE	1	b	0	0.25	33.98	0.01	0.1384		
*PONSON	9	b	0	0.12	76.77	1.05	0.2736		
RASANE	3	b	3	0.46	27.24	1.34	0.0155		
RATAGE	3	b	0	-0.09	9.55	1.08	0.7697		
RENNIE	1	b	6	0.02	13.41	0.66	0.9422		
*RONMAR	5	b	9	0.31	15.08	0.07	0.2324		
ROSASV	1	b	0	0.45	3.25	0.14	0.4168		
SHAMSS	2	b	0	0.33	79.17	0.61	0.0034		
*SHERMA	1	b	2	0.09	17.41	0.42	0.7192		
*SIGURS	1	b	0	0.18	3.26	0.01	0.7422		
SOYSET	3	b	0	0.21	11.63	0.01	0.4670		
STANHO	2	b	0	-0.92	4.90	6.58	0.0423		
*TAYLOR	4	b	0	-0.04	72.55	5.79	0.7281		

Appendix Table A22 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
VENNER	6	m	0	0.09	27.66	0.60	0.6182
VENNER	3	f	0	0.18	28.98	0.12	0.3399
Subtotal		VENNER		-0.21	56.63	0.72	
VERHOE	3	b	0	-0.25	17.31	4.19	0.2972
WITHER	4	b	0	0.25	57.69	0.01	0.0543

RR data

	N	64
	NS	60
	Wt	3239.88
Het	Chi	85.54
Het	df	63
Het	P	*
Fixed	RR	1.27
	RRl	1.23
	RRu	1.32
	P	+++
Random	RR	1.26
	RRl	1.20
	RRu	1.32
	P	+++
Asymm	P	N.S.

Appendix Table A22 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Adjusted

RR data

	N	64			
	NS	60			
	Wt	3239.88			
Het	Chi	85.54			
Het	df	63			
Het	P	*			
Fixed	RR	1.27			
	RRl	1.23			
	RRu	1.32			
	P	+++			
Random	RR	1.26			
	RRl	1.20			
	RRu	1.32			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	55	5	4	64
	NS	55	5	4	64
	Wt	3077.09	94.79	68.00	3239.88
Het	Chi	78.63	4.01	2.27	85.54
Het	df	54	4	3	63
Het	P	*	N.S.	N.S.	*
Fixed	RR	1.27	1.34	1.18	1.27
	RRl	1.23	1.09	0.93	1.23
	RRu	1.32	1.64	1.50	1.32
	P	+++	++	N.S.	+++
Random	RR	1.26	1.34	1.18	1.26
	RRl	1.19	1.09	0.93	1.20
	RRu	1.33	1.64	1.50	1.32
	P	+++	++	N.S.	+++
Between	Chi				0.63
Between	df				2
Between	P				N.S.

Appendix Table A22 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	BARRET	BECKET	BRABIN	CHEN1	FIELDE	FLYNN1	FLYNN2	GURKAN	KALYO1	KEARNE	KENDIR	MAIER	MONTEF	MOYES1	MOYES2
	ODDY	POKHAR	RONCH1	RONCH2	RONCH3	RUDNIK	SELCUK	SENNHA	SPIEKE	SQUILL	TIMONE	TSIMOY	VARELA	VAVILI	WOLFO1	WOLFO2
	WOLFO3															
3	CUNNI2	GILLIL	KAPLAN	KELLY	NHANE3	NYSTAD	WEITZ1	XU								
5	BURR	DEBENE	GOREN3	GOREN4	GOREN5	GOREN6	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	VONMAF	ZEIGER	ZEJDA	
13	ALFRA2	FARBE1	FARBE3													

Appendix Table A22 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
MCCON1	GILLIL	2	MCCON1/GILLIL
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3
KUEHR	KUEHR	1	KUEHR/SPIEKE
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	1.01	?
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	*	n
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	1.46	y
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	*	n
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	1.67	y
KIVITY	5	b	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	*	y
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	*	n
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	*	n
SANZOR	1	b	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	*	n
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	*	n
SOYSET	9	b	7	13	all	Eu:Sca	1989	1995	CS	1	Mother	NotMothr	<1y	non	*	n
STAZI	7	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	1.35	y
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	*	n
VOLKME	2	b	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	*	n
VONMAF	3	b	0	17	all	NAmer	1993	2001	CS	7	Mother	NotMothr	ever	never	*	y
ZEIGER	4	b	0	7	all	NAmer	1981	1995	Pr	4	Mother	NotMothr	unspec	non	*	n
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	*	n

Appendix Table A23 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 7) WHESMO : at a specific age (youngest first), during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, current
- 8) UNEXSO : not specific parent, neither parent, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A7 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A23 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

REF	NRR	CompA7	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	14		b	6	7	all	Eu:Ita	1994	1999	CC	11	AnyPar	NoParent	current	never
AGABI2	14		b	13	14	all	Eu:Ita	1994	1999	CC	12	AnyPar	NoParent	current	never
ARSHAD	1		b	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non
CHEN2	47		b	6	17	all	NAmer	1993	1996	CS	1	Mother	NotMothr	ever	never
DAIGLE	3		b	0	*	all	NAmer	1986	1991	CC	7	Mother	NotMothr	unspec	non
FAGBUL	2		b	0	18	all	Africa	*	1994	CC	1	AnyPar	NoParent	unspec	non
GILLIL	36		b	7	19	all	NAmer	1993	2001	CS	8	Mother	NoHhMemb	current	non
GOLD	7		b	6	14	all	NAmer	1974	1993	Pr	11	Mother	NotMothr	ever	never
HABY	4		b	3	5	all	Auslia	1995	2001	CS	9	AnyPar	NoParent	<6m	non
HJERN1	13		b	3	15	all	Eu:Sca	1996	2001	CS	9	Mother	NotMothr	ever	never
HJERN2	13		b	3	15	all	Eu:Sca	1996	2001	CS	9	Father	NotFathr	ever	never
HOST	1		b	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non
HU1	6		b	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non
HU2	24		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non
INFANT	10		b	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non
JONES	2		b	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non
LAM1	20		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	12		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LAU	1		b	3	10	all	As:FE	1989	1995	CS	0	AnyPar	NoParent	current	non
LEEN	1		b	9	9	all	Eu:wst	1991	1994	CC	0	AnyPar	NoParent	unspec	non
LILLJE	1		b	7	10	all	Eu:Sca	1991	1997	CS	0	AnyPar	NoParent	unspec	non
LINDFO	1		b	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non
MOUSSA	1		b	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCUO	2		b	3	15	all	As:ME	1986	1994	CC	0	Mother	NotMothr	unspec	non
OHARA	6		b	3	12	all	As:FE	2001	2002	CS	4	AnyPar	NoParent	current	non
PALMIE	3		b	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non
PIC	1		b	5	15	all	Eu:wst	1999	2002	CS	0	AnyPar	NoParent	unspec	non
RIBEIR	1		b	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non
RONMAR	1		b	7	8	all	Eu:Sca	1996	2002	Pr	5	Mother	NotMothr	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHOHAT	4		b	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non
SOTOQU	1		b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non
STANHO	1		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
STERN1	1		b	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non
STODDA	10		b	0	17	all	NAmer	1986	1995	CS	9	Mother	NotMothr	current	non
STRACH	9		b	13	18	all	Eu:UK	1993	1995	CC	4	Mother	NotMothr	current	non
TARIQ	12		b	4	4	all	Eu:UK	1989	2000	Pr	1	Mother	NotMothr	in life	non
TOMINA	2		b	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non
WILLE1	7		b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non
ZHENG	26		b	6	10	all	As:FE	1999	2002	CC	0	Mother	NotMothr	in life	non

Appendix Table A23 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	14	b	11	558	-	148	-	1.34	(1.11- 1.62)
AGABI2	14	b	12	700	-	203	-	1.17	(0.99- 1.39)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80- 14.60)
CHEN2	47	b	1	37	-	37	-	1.11	(0.67- 1.83)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10- 3.47)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84- 2.36)
GILLIL	36	b	8	-	-	-	-	0.90	(0.50- 1.50)
GOLD	7	b	11	-	-	-	-	0.99	(0.83- 1.18)
HABY	4	b	9	86	-	104	-	1.62	(0.95- 2.75)
HJERN1	13	b	9	61	-	58	-	0.72	(0.52- 1.01)
HJERN2	13	b	9	44	-	34	-	0.94	(0.62- 1.43)
HOST	1	b	0	20	457	14	285	0.89	(0.44- 1.79)
HU1	6	b	0	28	148	44	238	1.02	(0.61- 1.71)
HU2	24	b	3	34	-	84	-	1.47	(0.97- 2.23)
INFANT	10	b	19	183	-	273	-	1.40	(0.95- 2.05)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
LAM1	20	b	4	-	-	35	-	2.13	(0.72- 6.33)
LAM2	12	b	4	-	-	-	-	0.69	(0.39- 1.22)
LAU	1	b	0	19	247	9	158	1.35	(0.60- 3.06)
LEEN	1	b	0	46	45	69	51	0.76	(0.44- 1.31)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81- 1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15- 2.37)
MOUSSA	1	b	0	1	0	202	203	3.01~	(0.12- 74.44)
MUMCUO	2	b	0	0	4	300	96	0.04~	(0.00- 0.67)
OHARA	6	b	4	82	-	59	-	0.91	(0.65- 1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70- 1.42)
PIC	1	b	0	51	829	60	1069	1.10	(0.75- 1.61)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59- 2.41)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12- 2.28)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95- 1.55)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14- 2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13- 1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63- 1.98)
STODDA	10	b	9	224	-	443	-	1.36	(1.14- 1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85- 1.79)
TARIQ	12	b	1	48	-	133	-	0.89	(0.57- 1.40)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
ZHENG	26	b	0	13	13	390	793	2.03	(0.93- 4.43)
Partial Totals				3319	3789	4655	8162		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	14	b	11	0.29	107.50	1.57	0.0024
AGABI2	14	b	12	0.16	133.43	0.03	0.0697
ARSHAD	1	b	7	1.20	1.82	1.94	0.1044
CHEN2	47	b	1	0.10	15.22	0.07	0.6839
DAIGLE	3	b	7	0.67	11.64	2.93	0.0217
FAGBUL	2	b	1	0.34	14.40	0.43	0.1923
GILLIL	36	b	8	-0.11	12.73	0.98	0.7070
GOLD	7	b	11	-0.01	124.12	4.10	0.9108
HABY	4	b	9	0.48	13.60	1.31	0.0752
HJERN1	13	b	9	-0.33	34.86	8.72	0.0524
HJERN2	13	b	9	-0.06	22.00	1.20	0.7716
HOST	1	b	0	-0.12	7.87	0.65	0.7459
HU1	6	b	0	0.02	14.41	0.32	0.9302
HU2	24	b	3	0.39	22.17	1.01	0.0697
INFANT	10	b	19	0.34	25.97	0.71	0.0864
JONES	2	b	0	0.16	9.47	0.00	0.6266
LAM1	20	b	4	0.76	3.25	1.11	0.1727
LAM2	12	b	4	-0.37	11.81	3.48	0.2022
LAU	1	b	0	0.30	5.74	0.10	0.4716
LEEN	1	b	0	-0.28	12.81	2.62	0.3157
LILLJE	1	b	0	0.09	42.18	0.32	0.5801
LINDFO	1	b	0	0.50	29.55	3.20	0.0065
MOUSSA	1	b	0	1.10	0.37	0.32	0.5000

Appendix Table A23 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
MUMCUO	2	b	0	-3.33	0.45	5.49	0.0258
OHARA	6	b	4	-0.09	34.25	2.42	0.5810
PALMIE	3	b	0	-0.00	30.71	0.91	0.9963
PIC	1	b	0	0.09	26.03	0.17	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMAR	1	b	5	0.47	30.41	2.71	0.0095
SCHMIT	1	b	4	0.73	13.33	4.12	0.0079
SHOHAT	4	b	12	0.19	64.12	0.02	0.1269
SOTOQU	1	b	0	0.42	46.33	2.92	0.0040
STANHO	1	b	0	-1.02	3.66	5.21	0.0507
STERN1	1	b	0	0.11	11.71	0.05	0.7107
STODDA	10	b	9	0.31	124.44	2.30	0.0006
STRACH	9	b	4	0.21	27.70	0.03	0.2759
TARIQ	12	b	1	-0.12	19.03	1.58	0.6112
TOMINA	2	b	0	-1.06	1.84	2.78	0.1515
WILLE1	7	b	0	0.68	6.06	1.55	0.0955
ZHENG	26	b	0	0.71	6.34	1.84	0.0739

RR data

	N	40
	NS	40
	Wt	1131.13
Het	Chi	71.20
Het	df	39
Het	P	**
Fixed	RR	1.19
	RRl	1.12
	RRu	1.26
	P	+++
Random	RR	1.18
	RRl	1.08
	RRu	1.29
	P	+++
Asymm	P	N.S.

Appendix Table A23 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

RR data

	N	40			
	NS	40			
	Wt	1131.13			
Het	Chi	71.20			
Het	df	39			
Het	P	**			
Fixed	RR	1.19			
	RRl	1.12			
	RRu	1.26			
	P	+++			
Random	RR	1.18			
	RRl	1.08			
	RRu	1.29			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	40		40	
	NS	40		40	
	Wt	1131.13		1131.13	
Het	Chi	71.20		71.20	
Het	df	39		39	
Het	P	**		**	
Fixed	RR	1.19		1.19	
	RRl	1.12		1.12	
	RRu	1.26		1.26	
	P	+++		+++	
Random	RR	1.18		1.18	
	RRl	1.08		1.08	
	RRu	1.29		1.29	
	P	+++		+++	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A23 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	CALL	CHHABR	CLARK	DEKKER	DIJKST	DOTTER	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	JAAKKO	KALYO1	KALYO2
	KARUNA	KNIGHT	LEE1	LEE2	MELIA	MELSOM	NHANE3	NITTA	PETERS	SARRAZ	SELCUK	WANG	WILLE2	WOLFO1	WOLFO2	WOLFO3
	YANG															
3	BERGMA	CSONKA	EHRLI1	OLIVET	WEITZ1	WEITZ2										
4	CHINN	SOMERV														
5	AZIZI	BALL	CUNNI1	DEKOK	HUGHES	LOPEZC	MCCON2	MOHAME	STERN2							

Appendix Table A23 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL
HJERN1	HJERN1	1	HJERN1/HJERN2
HJERN2	HJERN2	1	HJERN1/HJERN2
STERN1	STERN1	1	STERN1/STERN2

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ARSHAD	7	b	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non	*	n
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	*	n
BALL	1	b	6	13	all	NAmer	1980	2000	Pr	0	AnyPar	NoParent	unspec	non	*	n
CUNNI1	11	b	8	11	all	NAmer	1988	1996	CS	9	Mother	NotMothr	current	non	0.84	?
DEKOK	1	b	6	12	all	Eu:wst	1993	1996	CS	6	Mother	NotMothr	unspec	non	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	*	n
LOPEZC	3	b	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	1.06	n
MCCON2	4	b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non	*	n
MOHAME	2	b	9	11	all	Africa	1990	1995	CC	0	Mother	NotMothr	unspec	non	*	n
PALMIE	10	b	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non	*	y
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	0.98	n
STRACH	15	b	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	<1m	non	*	y

Appendix Table A24 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 7) WHESMO : at a specific age (youngest first), during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, current
- 8) UNEXSO : none in household, neither parent, not specific parent
- 9) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A23 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A24 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

REF	NRR	CompA23	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	14		b	6	7	all	Eu:Ita	1994	1999	CC	11	AnyPar	NoParent	current	never
AGABI2	14		b	13	14	all	Eu:Ita	1994	1999	CC	12	AnyPar	NoParent	current	never
ARSHAD	1		b	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non
CHEN2	47		b	6	17	all	NAmer	1993	1996	CS	1	Mother	NotMothr	ever	never
DAIGLE	3		b	0	*	all	NAmer	1986	1991	CC	7	Mother	NotMothr	unspec	non
FAGBUL	2		b	0	18	all	Africa	*	1994	CC	1	AnyPar	NoParent	unspec	non
GILLIL	36		b	7	19	all	NAmer	1993	2001	CS	8	Mother	NoHhMemb	current	non
GOLD	7		b	6	14	all	NAmer	1974	1993	Pr	11	Mother	NotMothr	ever	never
HABY	4		b	3	5	all	Auslia	1995	2001	CS	9	AnyPar	NoParent	<6m	non
HJERN1	13		b	3	15	all	Eu:Sca	1996	2001	CS	9	Mother	NotMothr	ever	never
HJERN2	13		b	3	15	all	Eu:Sca	1996	2001	CS	9	Father	NotFathr	ever	never
HOST	1		b	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non
HU1	6		b	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non
HU2	24		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non
INFANT	10		b	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non
JONES	2		b	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non
LAM1	20		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	12		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LAU	1		b	3	10	all	As:FE	1989	1995	CS	0	AnyPar	NoParent	current	non
LEEN	1		b	9	9	all	Eu:wst	1991	1994	CC	0	AnyPar	NoParent	unspec	non
LILLJE	1		b	7	10	all	Eu:Sca	1991	1997	CS	0	AnyPar	NoParent	unspec	non
LINDFO	1		b	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non
MOUSSA	1		b	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCUO	2		b	3	15	all	As:ME	1986	1994	CC	0	Mother	NotMothr	unspec	non
OHARA	6		b	3	12	all	As:FE	2001	2002	CS	4	AnyPar	NoParent	current	non
PALMIE	3		b	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non
PIC	1		b	5	15	all	Eu:wst	1999	2002	CS	0	AnyPar	NoParent	unspec	non
RIBEIR	1		b	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non
RONMAR	1		b	7	8	all	Eu:Sca	1996	2002	Pr	5	Mother	NotMothr	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHOHAT	4		b	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non
SOTOQU	1		b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non
STANHO	1		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
STERN1	1		b	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non
STODDA	10		b	0	17	all	NAmer	1986	1995	CS	9	Mother	NotMothr	current	non
STRACH	9		b	13	18	all	Eu:UK	1993	1995	CC	4	Mother	NotMothr	current	non
TARIQ	12		b	4	4	all	Eu:UK	1989	2000	Pr	1	Mother	NotMothr	in life	non
TOMINA	2		b	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non
WILLE1	7		b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non
ZHENG	26		b	6	10	all	As:FE	1999	2002	CC	0	Mother	NotMothr	in life	non

Appendix Table A24 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	14	b	11	558	-	148	-	1.34	(1.11- 1.62)
AGABI2	14	b	12	700	-	203	-	1.17	(0.99- 1.39)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80- 14.60)
CHEN2	47	b	1	37	-	37	-	1.11	(0.67- 1.83)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10- 3.47)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84- 2.36)
GILLIL	36	b	8	-	-	-	-	0.90	(0.50- 1.50)
GOLD	7	b	11	-	-	-	-	0.99	(0.83- 1.18)
HABY	4	b	9	86	-	104	-	1.62	(0.95- 2.75)
HJERN1	13	b	9	61	-	58	-	0.72	(0.52- 1.01)
HJERN2	13	b	9	44	-	34	-	0.94	(0.62- 1.43)
HOST	1	b	0	20	457	14	285	0.89	(0.44- 1.79)
HU1	6	b	0	28	148	44	238	1.02	(0.61- 1.71)
HU2	24	b	3	34	-	84	-	1.47	(0.97- 2.23)
INFANT	10	b	19	183	-	273	-	1.40	(0.95- 2.05)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
LAM1	20	b	4	-	-	35	-	2.13	(0.72- 6.33)
LAM2	12	b	4	-	-	-	-	0.69	(0.39- 1.22)
LAU	1	b	0	19	247	9	158	1.35	(0.60- 3.06)
LEEN	1	b	0	46	45	69	51	0.76	(0.44- 1.31)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81- 1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15- 2.37)
MOUSSA	1	b	0	1	0	202	203	3.01~	(0.12- 74.44)
MUMCUO	2	b	0	0	4	300	96	0.04~	(0.00- 0.67)
OHARA	6	b	4	82	-	59	-	0.91	(0.65- 1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70- 1.42)
PIC	1	b	0	51	829	60	1069	1.10	(0.75- 1.61)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59- 2.41)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12- 2.28)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95- 1.55)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14- 2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13- 1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63- 1.98)
STODDA	10	b	9	224	-	443	-	1.36	(1.14- 1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85- 1.79)
TARIQ	12	b	1	48	-	133	-	0.89	(0.57- 1.40)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
ZHENG	26	b	0	13	13	390	793	2.03	(0.93- 4.43)
Partial Totals				3319	3789	4655	8162		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	14	b	11	0.29	107.50	1.57	0.0024
AGABI2	14	b	12	0.16	133.43	0.03	0.0697
ARSHAD	1	b	7	1.20	1.82	1.94	0.1044
CHEN2	47	b	1	0.10	15.22	0.07	0.6839
DAIGLE	3	b	7	0.67	11.64	2.93	0.0217
FAGBUL	2	b	1	0.34	14.40	0.43	0.1923
GILLIL	36	b	8	-0.11	12.73	0.98	0.7070
GOLD	7	b	11	-0.01	124.12	4.10	0.9108
HABY	4	b	9	0.48	13.60	1.31	0.0752
HJERN1	13	b	9	-0.33	34.86	8.72	0.0524
HJERN2	13	b	9	-0.06	22.00	1.20	0.7716
HOST	1	b	0	-0.12	7.87	0.65	0.7459
HU1	6	b	0	0.02	14.41	0.32	0.9302
HU2	24	b	3	0.39	22.17	1.01	0.0697
INFANT	10	b	19	0.34	25.97	0.71	0.0864
JONES	2	b	0	0.16	9.47	0.00	0.6266
LAM1	20	b	4	0.76	3.25	1.11	0.1727
LAM2	12	b	4	-0.37	11.81	3.48	0.2022
LAU	1	b	0	0.30	5.74	0.10	0.4716
LEEN	1	b	0	-0.28	12.81	2.62	0.3157
LILLJE	1	b	0	0.09	42.18	0.32	0.5801
LINDFO	1	b	0	0.50	29.55	3.20	0.0065
MOUSSA	1	b	0	1.10	0.37	0.32	0.5000

Appendix Table A24 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
MUMCUO	2	b	0	-3.33	0.45	5.49	0.0258
OHARA	6	b	4	-0.09	34.25	2.42	0.5810
PALMIE	3	b	0	-0.00	30.71	0.91	0.9963
PIC	1	b	0	0.09	26.03	0.17	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMAR	1	b	5	0.47	30.41	2.71	0.0095
SCHMIT	1	b	4	0.73	13.33	4.12	0.0079
SHOHAT	4	b	12	0.19	64.12	0.02	0.1269
SOTOQU	1	b	0	0.42	46.33	2.92	0.0040
STANHO	1	b	0	-1.02	3.66	5.21	0.0507
STERN1	1	b	0	0.11	11.71	0.05	0.7107
STODDA	10	b	9	0.31	124.44	2.30	0.0006
STRACH	9	b	4	0.21	27.70	0.03	0.2759
TARIQ	12	b	1	-0.12	19.03	1.58	0.6112
TOMINA	2	b	0	-1.06	1.84	2.78	0.1515
WILLE1	7	b	0	0.68	6.06	1.55	0.0955
ZHENG	26	b	0	0.71	6.34	1.84	0.0739

RR data

	N	40
	NS	40
	Wt	1131.13
Het	Chi	71.20
Het	df	39
Het	P	**
Fixed	RR	1.19
	RRl	1.12
	RRu	1.26
	P	+++
Random	RR	1.18
	RRl	1.08
	RRu	1.29
	P	+++
Asymm	P	N.S.

Appendix Table A24 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Adjusted

RR data

	N	40			
	NS	40			
	Wt	1131.13			
Het	Chi	71.20			
Het	df	39			
Het	P	**			
Fixed	RR	1.19			
	RRl	1.12			
	RRu	1.26			
	P	+++			
Random	RR	1.18			
	RRl	1.08			
	RRu	1.29			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	40		40	
	NS	40		40	
	Wt	1131.13		1131.13	
Het	Chi	71.20		71.20	
Het	df	39		39	
Het	P	**		**	
Fixed	RR	1.19		1.19	
	RRl	1.12		1.12	
	RRu	1.26		1.26	
	P	+++		+++	
Random	RR	1.18		1.18	
	RRl	1.08		1.08	
	RRu	1.29		1.29	
	P	+++		+++	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A24 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	CALL	CHHABR	CLARK	DEKKER	DIJKST	DOTTER	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	JAAKKO	KALYO1	KALYO2
	KARUNA	KNIGHT	LEE1	LEE2	MELIA	MELSOM	NHANE3	NITTA	PETERS	SARRAZ	SELCUK	WANG	WILLE2	WOLFO1	WOLFO2	WOLFO3
	YANG															
3	BERGMA	CSONKA	EHRLI1	OLIVET	WEITZ1	WEITZ2										
4	CHINN	SOMERV														
5	AZIZI	BALL	CUNNI1	DEKOK	HUGHES	LOPEZC	MCCON2	MOHAME	STERN2							

Appendix Table A24 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL
HJERN1	HJERN1	1	HJERN1/HJERN2
HJERN2	HJERN2	1	HJERN1/HJERN2
STERN1	STERN1	1	STERN1/STERN2

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ARSHAD	7	b	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non	*	n
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	*	n
BALL	1	b	6	13	all	NAmer	1980	2000	Pr	0	AnyPar	NoParent	unspec	non	*	n
CUNNI1	11	b	8	11	all	NAmer	1988	1996	CS	9	Mother	NotMothr	current	non	0.84	?
DEKOK	1	b	6	12	all	Eu:wst	1993	1996	CS	6	Mother	NotMothr	unspec	non	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	*	n
LOPEZC	3	b	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	1.06	n
MCCON2	4	b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non	*	n
MOHAME	2	b	9	11	all	Africa	1990	1995	CC	0	Mother	NotMothr	unspec	non	*	n
PALMIE	10	b	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non	*	y
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	0.98	n
STRACH	15	b	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	<1m	non	*	y

Appendix Table A25 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)

This analysis is restricted to results for:

- 1) Biochemical, total, household (overall), or parental exposure
- 2) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 3) Results not by amount of exposure
- 4) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 5) ASTHMA : lifetime, current
- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 9) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 10) UNEXSO : not specific parent, neither parent, none in household, none
- 11) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 13) RACE : all in study or nearest available, otherwise by race
- 14) ONSET : yes, no (prevalence)
- 15) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A1 - 1 are marked 'x' in Section -1) and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A25 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	CompA1	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ADDOYO	1	x	b	c	8	17	all	Africa	*	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
AGAB1	14	x	b	c	6	7	all	Eu:Ita	1994	1999	CC	11	AnyPar	NoParent	current	never	-
AGAB2	14	x	b	c	13	14	all	Eu:Ita	1994	1999	CC	12	AnyPar	NoParent	current	never	-
ALBA	1		b	l	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALDAWO	2		m	l	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never	-
ALFRA1	2		b	l	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non	-
ANDRAE	2		b	l	0	16	all	Eu:Sca	1985	1988	CS	3	AnyPar	NoParent	in life	non	-
ANNESI	1		b	l	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
ARSHAD	1	x	b	c	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non	-
BARRET	1		b	l	9	11	all	Eu:Ita	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
BECKET	6		b	l	0	17	all	NAmer	1993	1996	CS	7	AnyHh	NoHhMemb	ever	never	-
BENER	1		b	l	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non	-
BERGMA	1	x	b	c	3	6	all	Eu:Ger	1990	2000	Pr	8	AnyHh	NoHhMemb	18m	non	-
BRABIN	2		b	l	5	11	all	Eu:UK	1991	1994	CS	1	AnyHh	NoHhMemb	unspec	non	-
BURCHF	5		m	l	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-
BURCHF	8		f	l	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-
BUTZ	7		b	l	*	*	all	NAmer	1989	1992	CC	1	TotETS	None	current	non	-
CALL	1	x	b	c	3	15	all	NAmer	1990	1992	CC	0	AnyHh	NoHhMemb	unspec	non	-
CHEN1	1		b	l	1	1	all	As:FE	1985	1988	CS	0	AnyHh	NoHhMemb	in life	non	-
CHEN2	37		b	l	6	17	all	NAmer	1993	1996	CS	6	AnyHh	NoHhMemb	current	non	-
CHHABR	1	x	b	c	4	17	all	As:cen	*	1998	CS	0	AnyHh	NoHhMemb	unspec	non	-
CLARK	2	x	b	c	5	7	all	Eu:UK	*	1994	CC	0	Biochem	Low	-	-	saliva
CSONKA	4	x	b	c	6	13	all	Eu:Sca	*	2000	CS	4	AnyHh	NoHhMemb	<3y	non	-
CUNN1	1	x	b	c	8	11	all	NAmer	1988	1996	CS	0	AnyHh	NoHhMemb	current	non	-
DAIGLE	3	x	b	c	0	*	all	NAmer	1986	1991	CC	7	Mother	NotMothr	unspec	non	-
DEKKER	6	x	b	c	5	8	all	NAmer	1988	1991	CC	9	AnyHh	NoHhMemb	unspec	non	-
DELL	2		b	l	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non	-
DIJKST	1	x	b	c	6	12	all	Eu:wst	1986	1990	CS	0	AnyHh	NoHhMemb	current	non	-
DODGE	12		b	l	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non	-
DOLD	21		b	l	9	11	all	Eu:Ger	1989	1992	CS	1	AnyHh	NoHhMemb	unspec	non	-
DOTTER	1	x	m	c	8	17	all	Eu:est	1994	2001	CS	6	AnyHh	NoHhMemb	unspec	non	-
DOTTER	2	x	f	c	8	17	all	Eu:est	1994	2001	CS	6	AnyHh	NoHhMemb	unspec	non	-
ECE	3		b	l	6	15	all	Eu:est	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
EHRLI2	3		b	l	3	14	all	NAmer	1988	1992	CC	0	Biochem	Low	-	-	urine
FAGBUL	2	x	b	c	0	18	all	Africa	*	1994	CC	1	AnyPar	NoParent	unspec	non	-
FARBE2	2		b	l	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non	-
FAROOQ	1		b	l	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never	-
FERGUS	7		b	l	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non	-
FLYNN1	1		b	l	9	10	all	Auslia	1990	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-
FORAST	20		b	l	7	11	all	Eu:Ita	1987	1992	CS	9	AnyPar	NoParent	unspec	non	-
FORSB1	2	x	b	c	6	12	all	Eu:Sca	1993	1997	CS	14	AnyHh	NoHhMemb	<2y	non	-
FORSB2	2	x	b	c	6	12	all	Eu:Sca	1993	1997	CS	14	AnyHh	NoHhMemb	<2y	non	-
FORSB3	2	x	b	c	6	12	all	Eu:Sca	1993	1997	CS	15	AnyHh	NoHhMemb	<2y	non	-
FUJI	1	x	b	c	8	11	all	As:FE	1994	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-
GILLIL	4		m	l	7	19	all	NAmer	1993	2001	CS	4	AnyHh	NoHhMemb	in life	non	-
GILLIL	12		f	l	7	19	all	NAmer	1993	2001	CS	4	AnyHh	NoHhMemb	in life	non	-
GOLD	11		b	l	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non	-
GOREN1	3		b	l	7	11	all	As:ME	1980	1986	CS	0	AnyHh	NoHhMemb	current	non	-
GOREN2	5		b	l	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never	-
GORTM1	3		b	l	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non	-
GORTM2	1		b	l	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non	-
GUPTA	2	x	b	c	9	20	all	As:cen	1997	2001	CS	2	AnyHh	NoHhMemb	unspec	non	-
GURKAN	1		b	l	3	15	all	Eu:est	1995	2002	CC	0	TotETS	None	unspec	non	-
HABY	4	x	b	c	3	5	all	Auslia	1995	2001	CS	9	AnyPar	NoParent	<6m	non	-
HAJNAL	1		b	l	6	14	all	Eu:wst	1992	1999	CS	13	AnyHh	NoHhMemb	current	non	-
HJERN1	13	x	b	c	3	15	all	Eu:Sca	1996	2001	CS	9	Mother	NotMothr	ever	never	-
HJERN2	13	x	b	c	3	15	all	Eu:Sca	1996	2001	CS	9	Father	NotFathr	ever	never	-
HOST	1	x	b	c	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non	-
HU1	4		b	l	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non	-
HU2	23		b	l	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non	-
INFANT	10	x	b	c	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non	-
JAAKKO	2	x	b	c	4	4	all	Eu:Sca	1992	2001	Pr	7	AnyHh	NoHhMemb	<1m	non	-
JENKIN	5		b	l	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non	-
JONES	2	x	b	c	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non	-
KARUNA	1	x	b	c	1	10	all	As:cen	1996	2001	CC	0	TotETS	None	current	non	-
KAY	20		b	l	3	11	all	Eu:UK	*	1995	CS	1	AnyPar	NoParent	unspec	non	-
KENDIR	1		b	l	6	14	all	Eu:est	1993	1998	CS	0	AnyHh	NoHhMemb	current	non	-
KERSHA	7		b	l	0	5	all	Eu:UK	1983	1987	CC	1	AnyHh	LowHh	<3y	non	-
KIVITY	4		b	l	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non	-
KUEHR	6		b	l	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non	-

Appendix Table A25 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	CompA1	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
KUHR	4		b	1	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non	-
LAM1	8		b	1	12	15	all	As:FE	1994	1998	CS	4	AnyHh	NoHhMemb	unspec	non	-
LAM2	1		b	1	8	13	all	As:FE	1995	1999	CS	4	AnyHh	NoHhMemb	unspec	non	-
LAU	1	x	b	c	3	10	all	As:FE	1989	1995	CS	0	AnyPar	NoParent	current	non	-
LEE1	1	x	b	c	6	12	all	As:FE	1995	2001	CS	8	AnyHh	NoHhMemb	current	non	-
LEE2	1	x	b	c	12	15	all	As:FE	1995	2001	CS	8	AnyHh	NoHhMemb	current	non	-
LEEDER	2		b	1	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non	-
LEEN	1	x	b	c	9	9	all	Eu:wst	1991	1994	CC	0	AnyPar	NoParent	unspec	non	-
LEROUX	2		b	1	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non	-
LILLJE	1	x	b	c	7	10	all	Eu:Sca	1991	1997	CS	0	AnyPar	NoParent	unspec	non	-
LINDFO	1	x	b	c	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non	-
LIS	1		b	1	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non	-
LISTER	3		b	1	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non	-
MATER	5		b	1	5	9	all	NAmer	1994	1997	CS	8	TotETS	None	current	non	-
MARTIN	5		m	1	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MARTIN	6		f	1	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MCCON2	2		b	1	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-
MCKEEV	4		b	1	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never	-
MELSOM	5	x	m	c	11	17	all	As:cen	1997	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
MELSOM	6	x	f	c	11	17	all	As:cen	1997	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
MOHAME	1	x	b	c	9	11	all	Africa	1990	1995	CC	0	AnyHh	NoHhMemb	unspec	non	-
MOUSSA	1	x	b	c	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non	-
MOYES1	1		b	1	6	7	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MOYES2	1		b	1	13	14	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MUMCUO	6	x	b	c	3	15	all	As:ME	1986	1994	CC	0	AnyHh	NoHhMemb	unspec	non	-
MURRAY	5		m	1	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non	-
MURRAY	7		f	1	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non	-
NHANE3	28		b	1	4	16	w+b	NAmer	1988	2001	CS	6	Biochem	Low	-	-	blood
NILSSO	1		b	1	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non	-
NITTA	1	x	b	c	7	12	all	As:FE	1995	1996	CS	5	AnyHh	NoHhMemb	current	non	-
OCONNE	1		b	1	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non	-
ODDY	1		b	1	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-
OHARA	6	x	b	c	3	12	all	As:FE	2001	2002	CS	4	AnyPar	NoParent	current	non	-
PALMIE	3	x	b	c	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non	-
PETERS	6	x	b	c	9	14	all	As:FE	1989	1996	Pr	6	AnyHh	NoHhMemb	current	non	-
PIC	1	x	b	c	5	15	all	Eu:wst	1999	2002	CS	0	AnyPar	NoParent	unspec	non	-
POKHAR	2		b	1	11	15	all	As:cen	1995	2001	CC	5	AnyHh	NoHhMemb	unspec	non	-
PONSON	8		b	1	0	7	all	Auslia	1988	2000	Pr	6	AnyHh	NoHhMemb	<1m	non	-
RASANE	3		b	1	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never	-
RATAGE	1		b	1	5	15	all	As:cen	1996	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
RENNIE	1		b	1	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non	-
RIBETR	1	x	b	c	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non	-
RONCH1	7		b	1	6	13	all	Eu:Ita	1974	2001	CS	2	AnyHh	Low	current	non	-
RONCH2	3		b	1	6	14	all	Eu:Ita	1992	2001	CS	0	AnyHh	Low	current	non	-
RONCH3	3		b	1	6	14	all	Eu:Ita	1998	2001	CS	0	AnyHh	Low	current	non	-
RONMAR	5		b	1	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non	-
ROSASV	1		b	1	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non	-
SARRAZ	1	x	b	c	6	10	all	SCAmer	*	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
SCHMIT	1	x	b	c	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non	-
SELCUK	2		b	1	7	12	all	Eu:est	1994	1997	CS	6	AnyHh	NoHhMemb	unspec	non	-
SENNHA	1		b	1	1	16	all	Eu:wst	1990	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
SHAMSS	2		b	1	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non	-
SHERMA	2		b	1	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never	-
SHOHAT	4	x	b	c	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non	-
SIGURS	1		b	1	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non	-
SOTOQU	1	x	b	c	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non	-
SOYSET	14		b	1	7	13	all	Eu:Sca	1989	1995	CS	5	Mother	NotMothr	in life	non	-
SQUILL	1		b	1	8	12	all	NAmer	1992	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
STANHO	2		b	1	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non	-
STERN1	1	x	b	c	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non	-
STODDA	10	x	b	c	0	17	all	NAmer	1986	1995	CS	9	Mother	NotMothr	current	non	-
STRACH	9	x	b	c	13	18	all	Eu:UK	1993	1995	CC	4	Mother	NotMothr	current	non	-
TARIQ	12	x	b	c	4	4	all	Eu:UK	1989	2000	Pr	1	Mother	NotMothr	in life	non	-
TAYLOR	4		b	1	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non	-
TIMONE	1		b	1	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	current	non	-
TOMINA	2	x	b	c	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non	-
TSIMOY	1		b	1	12	17	all	NAmer	1985	1987	CS	0	TotETS	None	current	non	-
VARELA	1		b	1	6	15	all	SCAmer	1999	2001	CS	0	AnyHh	NoHhMemb	unspec	non	-
VAVILI	1		b	1	6	15	all	Eu:est	*	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
VENNER	6		m	1	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-

Appendix Table A25 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

REF	NRR	CompA1	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
VENNER	3		f	1	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VERHOE	3		b	1	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never	-
VONMAF	1		b	1	0	17	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	ever	never	-
WANG	2	x	b	c	11	16	all	As:FE	1995	1999	CS	8	AnyHh	NoHhMemb	unspec	non	-
WILLE1	7	x	b	c	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-
WITHER	1		b	1	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLFO1	2		b	1	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO2	2		b	1	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO3	2		b	1	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
YANG	2	x	b	c	6	12	all	As:FE	1994	1997	CS	10	AnyHh	NoHhMemb	unspec	non	-
ZEIGER	1		b	1	0	7	all	NAmer	1981	1995	Pr	0	AnyHh	NoHhMemb	unspec	non	-
ZHENG	19	x	b	c	6	10	all	As:FE	1999	2002	CC	6	AnyHh	NoHhMemb	in life	non	-

Appendix Table A25 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Cont	Case	Cont			
ADDOYO	1	b	0	13	5	23	33	3.73	(1.17-	11.91)
AGABI1	14	b	11	558	-	148	-	1.34	(1.11-	1.62)
AGABI2	14	b	12	700	-	203	-	1.17	(0.99-	1.39)
ALBA	1	b	0	68	70	34	32	0.91	(0.51-	1.64)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09-	4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04-	2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76-	1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05-	1.59)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80-	14.60)
BARRET	1	b	0	17	91	9	81	1.68	(0.71-	3.98)
BECKET	6	b	7	133	-	352	-	1.31	(1.03-	1.66)
BENER	1	b	0	35	189	64	441	1.28	(0.82-	1.99)
BERGMA	1	b	8	-	-	-	-	1.32	(0.88-	1.97)
BRABIN	2	b	1	204	-	114	-	1.06	(0.82-	1.37)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88-	1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68-	1.49)
Subtotal BURCHF								1.13	(0.87-	1.46)
BUTZ	7	b	1	28	-	74	-	1.18	(0.62-	2.24)
CALL	1	b	0	19	19	18	17	0.94	(0.38-	2.37)
CHEN1	1	b	0	64	1668	14	467	1.28	(0.71-	2.30)
CHEN2	37	b	6	32	-	61	-	1.67	(0.96-	2.89)
CHHABR	1	b	0	118	404	313	1733	1.62	(1.27-	2.05)
CLARK	2	b	0	13	23	6	20	1.88	(0.60-	5.88)
CSONKA	4	b	4	-	-	-	-	2.10	(1.20-	3.70)
CUNNI1	1	b	0	396	5339	412	5387	0.97	(0.84-	1.12)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10-	3.47)
DEKKER	6	b	9	386	-	249	-	1.49	(1.24-	1.78)
DELL	2	b	0	-	-	-	-	1.52	(0.96-	2.40)
DIJKST	1	b	0	-	-	-	-	1.95	(0.91-	4.19)
DODGE	12	b	1	21	-	12	-	1.50	(0.72-	3.13)
DOLD	21	b	1	217	-	295	-	1.10	(0.92-	1.33)
DOTTER	1	m	6	-	-	-	-	0.50	(0.30-	1.00)
DOTTER	2	f	6	-	-	-	-	0.50	(0.20-	1.10)
Subtotal DOTTER								0.50	(0.31-	0.82)
ECE	3	b	0	298	1704	132	906	1.20	(0.96-	1.50)
EHRLI2	3	b	0	37	29	60	88	1.87	(1.04-	3.36)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84-	2.36)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17-	1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03-	1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76-	1.43)
FLYNN1	1	b	0	-	-	-	-	1.26	(0.95-	1.68)
FORAST	20	b	9	164	-	52	-	1.28	(0.93-	1.77)
FORSB1	2	b	14	-	-	-	-	1.10	(0.70-	1.70)
FORSB2	2	b	14	-	-	-	-	0.70	(0.30-	1.60)
FORSB3	2	b	15	-	-	-	-	1.56	(1.18-	2.05)
FUJI	1	b	0	36	602	29	370	0.76	(0.46-	1.27)
GILLIL	4	m	4	-	-	-	-	0.93	(0.74-	1.16)
GILLIL	12	f	4	-	-	-	-	1.05	(0.81-	1.35)
Subtotal GILLIL								0.98	(0.83-	1.16)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13-	1.48)
GOREN1	3	b	0	80	766	50	514	1.07	(0.74-	1.56)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02-	1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08-	2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89-	3.93)
GUPTA	2	b	2	84	-	121	-	1.78	(1.34-	2.36)
GURKAN	1	b	0	50	22	90	74	1.87	(1.04-	3.37)
HABY	4	b	9	86	-	104	-	1.62	(0.95-	2.75)
HAJNAL	1	b	13	-	-	-	-	1.20	(0.94-	1.54)
HJERN1	13	b	9	61	-	58	-	0.72	(0.52-	1.01)
HJERN2	13	b	9	44	-	34	-	0.94	(0.62-	1.43)
HOST	1	b	0	20	457	14	285	0.89	(0.44-	1.79)
HU1	4	b	7	45	-	62	-	0.80	(0.50-	1.50)
HU2	23	b	3	52	-	101	-	1.55	(1.09-	2.20)
INFANT	10	b	19	183	-	273	-	1.40	(0.95-	2.05)
JAAKKO	2	b	7	71	-	93	-	1.21	(0.85-	1.72)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05-	1.51)
JONES	2	b	0	27	24	73	76	1.17	(0.62-	2.21)
KARUNA	1	b	0	130	121	170	179	1.13	(0.82-	1.57)

Appendix Table A25 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KENDIR	1	b	0	-	-	-	-	1.41	(1.16- 1.72)
KERSHA	7	b	1	71	-	15	-	3.12	(1.76- 5.54)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	6	b	1	28	-	134	-	0.68	(0.44- 1.06)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	8	b	4	163	-	201	-	0.92	(0.74- 1.15)
LAM2	1	b	4	-	-	-	-	0.91	(0.69- 1.18)
LAU	1	b	0	19	247	9	158	1.35	(0.60- 3.06)
LEE1	1	b	8	-	-	-	-	1.37	(1.24- 1.51)
LEE2	1	b	8	-	-	-	-	0.99	(0.87- 1.13)
*LEEDER	2	b	1	48	-	11	-	1.33	(0.67- 2.64)
LEEN	1	b	0	46	45	69	51	0.76	(0.44- 1.31)
LEROUX	2	b	10	39	-	58	-	1.79	(1.06- 3.02)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81- 1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15- 2.37)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
MAIER	5	b	8	33	-	73	-	2.26	(1.33- 3.85)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
MCCON2	2	b	0	2	45	13	163	0.56	(0.12- 2.56)
*MCKEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MELSOM	5	m	0	-	-	-	-	3.00	(1.30- 6.70)
MELSOM	6	f	0	-	-	-	-	1.00	(0.30- 3.10)
Subtotal MELSOM								2.09	(1.07- 4.08)
MOHAME	1	b	0	-	-	-	-	1.60	(0.80- 3.20)
MOUSSA	1	b	0	1	0	202	203	3.01	(0.12- 74.44)
MOYES1	1	b	0	358	1017	295	886	1.06	(0.88- 1.26)
MOYES2	1	b	0	363	1285	252	842	0.94	(0.79- 1.13)
MUMCUO	6	b	0	181	62	119	38	0.93	(0.59- 1.48)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY								1.37	(0.91- 2.07)
NHANE3	28	b	6	424	-	175	-	1.16	(0.77- 1.76)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
NITTA	1	b	5	-	-	-	-	0.91	(0.54- 1.53)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*ODDY	1	b	4	-	-	-	-	1.27	(1.04- 1.55)
OHARA	6	b	4	82	-	59	-	0.91	(0.65- 1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70- 1.42)
PETERS	6	b	6	-	-	-	-	0.86	(0.64- 1.15)
PIC	1	b	0	51	829	60	1069	1.10	(0.75- 1.61)
POKHAR	2	b	5	27	-	13	-	3.33	(1.85- 7.65)
*PONSON	8	b	6	185	-	88	-	1.03	(0.83- 1.26)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)
RATAGE	1	b	0	62	30	58	30	1.07	(0.58- 1.99)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59- 2.41)
RONCH1	7	b	2	40	-	83	-	1.40	(1.02- 1.91)
RONCH2	3	b	0	60	351	93	726	1.33	(0.94- 1.89)
RONCH3	3	b	0	40	312	91	696	0.98	(0.66- 1.46)
*RONMAR	5	b	9	-	-	-	-	1.36	(0.82- 2.25)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SARRAZ	1	b	0	6	8	8	13	1.22	(0.31- 4.83)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SELCUK	2	b	6	689	-	193	-	1.35	(1.12- 1.62)
SENNHA	1	b	0	119	1631	132	2268	1.25	(0.97- 1.62)
SHAMSS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95- 1.55)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14- 2.04)
SOYSET	14	b	5	35	-	16	-	2.80	(1.30- 6.10)
SQUILL	1	b	0	38	80	97	226	1.11	(0.70- 1.74)
STANHO	2	b	0	7	169	20	193	0.40	(0.16- 0.97)
STERN1	1	b	0	21	499	29	768	1.11	(0.63- 1.98)

Appendix Table A25 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
STODDA	10	b	9	224	-	443	-	1.36	(1.14- 1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85- 1.79)
TARIQ	12	b	1	48	-	133	-	0.89	(0.57- 1.40)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
TIMONE	1	b	0	10	225	170	2139	0.56	(0.29- 1.07)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
TSIMOY	1	b	0	9	123	4	57	1.04	(0.31- 3.53)
VARELA	1	b	0	27	13	7	10	2.97	(0.92- 9.57)
VAVILI	1	b	0	60	74	40	30	0.61	(0.34- 1.09)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal	VENNER							1.15	(0.88- 1.49)
VERHOE	3	b	0	78	185	39	72	0.78	(0.49- 1.25)
VONMAF	1	b	0	166	766	217	1260	1.26	(1.01- 1.57)
WANG	2	b	8	12212	-	8425	-	1.08	(1.05- 1.12)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
WITHER	1	b	0	202	633	296	1107	1.19	(0.97- 1.46)
WOLFO1	2	b	7	-	-	-	-	1.12	(0.63- 1.98)
WOLFO2	2	b	7	-	-	-	-	1.35	(0.75- 2.43)
WOLFO3	2	b	10	-	-	-	-	1.39	(0.93- 2.06)
YANG	2	b	10	90	-	76	-	0.87	(0.61- 1.22)
*ZEIGER	1	b	0	8	22	42	143	1.24	(0.67- 2.28)
ZHENG	19	b	6	285	-	118	-	1.40	(1.10- 1.90)
Partial Totals				27068	41892	23928	55610		
*prospective study									
~ With 0.5 adjustment for zero									
REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps		
ADDOYO	1	b	0	1.32	2.85	3.81	0.0262		
AGABI1	14	b	11	0.29	107.50	1.85	0.0024		
AGABI2	14	b	12	0.16	133.43	0.00	0.0697		
ALBA	1	b	0	-0.09	11.15	0.70	0.7647		
ALDAWO	2	m	0	0.76	8.40	3.02	0.0274		
ALFRA1	2	b	0	0.41	22.65	1.42	0.0498		
ANDRAE	2	b	3	-0.01	54.89	1.61	0.9406		
ANNESI	1	b	0	0.25	89.09	0.76	0.0166		
ARSHAD	1	b	7	1.20	1.82	1.98	0.1044		
BARRET	1	b	0	0.52	5.17	0.66	0.2373		
BECKET	6	b	7	0.27	67.46	0.80	0.0266		
BENER	1	b	0	0.24	19.32	0.13	0.2839		
BERGMA	1	b	8	0.28	23.66	0.32	0.1769		
BRABIN	2	b	1	0.06	58.33	0.62	0.6563		
BURCHF	5	m	1	0.22	32.51	0.09	0.2200		
BURCHF	8	f	1	0.00	24.97	0.65	1.0000		
Subtotal	BURCHF			-0.11	57.49	0.74			
BUTZ	7	b	1	0.17	9.31	0.00	0.6135		
CALL	1	b	0	-0.06	4.55	0.22	0.9029		
CHEN1	1	b	0	0.25	11.14	0.08	0.4102		
CHEN2	37	b	6	0.51	12.65	1.56	0.0681		
CHHABR	1	b	0	0.48	67.93	6.93	0.0001		
CLARK	2	b	0	0.63	2.97	0.66	0.2753		
CSONKA	4	b	4	0.74	12.12	4.09	0.0098		
CUNNI1	1	b	0	-0.03	187.78	6.92	0.6744		
DAIGLE	3	b	7	0.67	11.64	3.05	0.0217		
DEKKER	6	b	9	0.40	117.58	6.63	0.0000		
DELL	2	b	0	0.42	18.30	1.21	0.0733		
DIJKST	1	b	0	0.67	6.59	1.69	0.0865		
DODGE	12	b	1	0.41	7.12	0.42	0.2794		
DOLD	21	b	1	0.10	113.12	0.49	0.3107		
DOTTER	1	m	6	-0.69	10.60	7.74	0.0240		
DOTTER	2	f	6	-0.69	5.29	3.86	0.1110		
Subtotal	DOTTER			-1.71	15.89	11.60			
ECE	3	b	0	0.18	79.23	0.04	0.1041		
EHRLI2	3	b	0	0.63	11.17	2.42	0.0363		
FAGBUL	2	b	1	0.34	14.40	0.48	0.1923		
FARBE2	2	b	3	0.41	57.72	3.63	0.0017		
FAROOQ	1	b	0	0.25	72.93	0.63	0.0297		
*FERGUS	7	b	0	0.04	37.52	0.56	0.8106		

Appendix Table A25 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
FLYNN1	1	b	0	0.23	47.28	0.23	0.1120
FORAST	20	b	9	0.25	37.10	0.27	0.1327
FORSB1	2	b	14	0.10	19.52	0.09	0.6737
FORSB2	2	b	14	-0.36	5.48	1.47	0.4036
FORSB3	2	b	15	0.44	50.37	4.04	0.0016
FUJI	1	b	0	-0.27	15.01	2.80	0.2946
GILLIL	4	m	4	-0.07	76.04	4.16	0.5268
GILLIL	12	f	4	0.05	58.89	0.75	0.7081
Subtotal GILLIL				-0.35	134.93	4.91	
GOLD	11	b	0	0.26	211.41	1.88	0.0002
GOREN1	3	b	0	0.07	27.97	0.23	0.7071
GOREN2	5	b	2	0.22	99.84	0.29	0.0316
GORTM1	3	b	7	0.40	36.85	2.08	0.0155
GORTM2	1	b	0	0.63	6.99	1.51	0.0978
GUPTA	2	b	2	0.58	47.97	8.27	0.0001
GURKAN	1	b	0	0.63	11.10	2.39	0.0372
HABY	4	b	9	0.48	13.60	1.40	0.0752
HAJNAL	1	b	13	0.18	63.05	0.03	0.1477
HJERN1	13	b	9	-0.33	34.86	8.37	0.0524
HJERN2	13	b	9	-0.06	22.00	1.10	0.7716
HOST	1	b	0	-0.12	7.87	0.60	0.7459
HU1	4	b	7	-0.22	12.73	1.88	0.4259
HU2	23	b	3	0.44	31.16	2.39	0.0144
INFANT	10	b	19	0.34	25.97	0.80	0.0864
JAAKKO	2	b	7	0.19	30.93	0.03	0.2891
JENKIN	5	b	7	0.23	116.41	0.57	0.0126
JONES	2	b	0	0.16	9.47	0.00	0.6266
KARUNA	1	b	0	0.12	36.46	0.05	0.4564
KAY	20	b	1	0.35	38.89	1.39	0.0288
KENDIR	1	b	0	0.34	99.03	3.29	0.0006
KERSHA	7	b	1	1.14	11.69	11.14	0.0001
KIVITY	4	b	0	0.59	13.44	2.45	0.0311
KUEHR	6	b	1	-0.39	19.88	5.95	0.0855
KUHR	4	b	0	0.70	5.57	1.60	0.0997
LAM1	8	b	4	-0.08	79.06	4.73	0.4585
LAM2	1	b	4	-0.09	53.37	3.49	0.4908
LAU	1	b	0	0.30	5.74	0.11	0.4716
LEE1	1	b	8	0.31	395.94	9.33	0.0000
LEE2	1	b	8	-0.01	224.74	6.60	0.8802
*LEEDER	2	b	1	0.29	8.17	0.13	0.4149
LEEN	1	b	0	-0.28	12.81	2.50	0.3157
LEROUX	2	b	10	0.58	14.02	2.48	0.0293
LILLJE	1	b	0	0.09	42.18	0.24	0.5801
LINDFO	1	b	0	0.50	29.55	3.40	0.0065
LIS	1	b	0	0.31	37.30	0.80	0.0604
LISTER	3	b	8	0.42	64.33	4.26	0.0008
MAIER	5	b	8	0.82	13.60	5.82	0.0026
*MARTIN	5	m	1	0.56	11.93	1.89	0.0533
*MARTIN	6	f	1	0.68	5.55	1.51	0.1075
Subtotal MARTIN				0.92	17.48	3.40	
MCCON2	2	b	0	-0.58	1.65	0.92	0.4523
*MCKEEV	4	b	0	0.27	1119.12	13.42	0.0000
MELSOM	5	m	0	1.10	5.71	5.02	0.0086
MELSOM	6	f	0	0.00	2.82	0.07	1.0000
Subtotal MELSOM				0.78	8.53	5.09	
MOHAME	1	b	0	0.47	8.00	0.76	0.1838
MOUSSA	1	b	0	1.10	0.37	0.33	0.5000
MOYES1	1	b	0	0.06	120.55	1.35	0.5411
MOYES2	1	b	0	-0.06	115.09	5.52	0.5355
MUMCUO	6	b	0	-0.07	17.74	0.95	0.7676
MURRAY	5	m	1	0.34	14.28	0.47	0.1941
MURRAY	7	f	1	0.27	8.50	0.10	0.4311
Subtotal MURRAY				0.29	22.78	0.57	
NHANE3	28	b	6	0.15	22.48	0.00	0.4816
NILSSO	1	b	0	0.00	31.98	0.83	1.0000
NITTA	1	b	5	-0.09	14.17	0.93	0.7226
OCONNE	1	b	0	0.25	33.98	0.29	0.1384
*ODDY	1	b	4	0.24	96.50	0.58	0.0189
OHARA	6	b	4	-0.09	34.25	2.24	0.5810

Appendix Table A25 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
PALMIE	3	b	0	-0.00	30.71	0.81	0.9963
PETERS	6	b	6	-0.15	44.74	4.36	0.3131
PIC	1	b	0	0.09	26.03	0.13	0.6397
POKHAR	2	b	5	1.20	7.63	8.27	0.0009
*PONSON	8	b	6	0.03	88.18	1.53	0.7813
RASANE	3	b	3	0.46	27.24	2.49	0.0155
RATAGE	1	b	0	0.07	10.00	0.09	0.8330
RENNIE	1	b	6	0.02	13.41	0.27	0.9422
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONCH1	7	b	2	0.34	39.05	1.20	0.0355
RONCH2	3	b	0	0.29	31.60	0.51	0.1048
RONCH3	3	b	0	-0.02	24.61	0.81	0.9224
*ROMMAR	5	b	9	0.31	15.08	0.32	0.2324
ROSASV	1	b	0	0.45	3.25	0.27	0.4168
SARRAZ	1	b	0	0.20	2.03	0.00	0.7783
SCHMIT	1	b	4	0.73	13.33	4.27	0.0079
SELCUK	2	b	6	0.30	112.79	2.17	0.0014
SENNHA	1	b	0	0.23	58.71	0.25	0.0833
SHAMSS	2	b	0	0.33	79.17	2.23	0.0034
*SHERMA	2	b	2	0.17	19.90	0.00	0.4603
SHOHAT	4	b	12	0.19	64.12	0.05	0.1269
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOTOQU	1	b	0	0.42	46.33	3.17	0.0040
SOYSET	14	b	5	1.03	6.43	4.85	0.0090
SQUILL	1	b	0	0.10	18.67	0.07	0.6613
STANHO	2	b	0	-0.92	4.90	5.70	0.0423
STERN1	1	b	0	0.11	11.71	0.03	0.7107
STODDA	10	b	9	0.31	124.44	2.66	0.0006
STRACH	9	b	4	0.21	27.70	0.06	0.2759
TARIQ	12	b	1	-0.12	19.03	1.47	0.6112
*TAYLOR	4	b	0	-0.04	72.55	2.96	0.7281
TIMONE	1	b	0	-0.58	9.03	4.98	0.0808
TOMINA	2	b	0	-1.06	1.84	2.73	0.1515
TSIMOY	1	b	0	0.04	2.59	0.04	0.9464
VARELA	1	b	0	1.09	2.80	2.40	0.0687
VAVILI	1	b	0	-0.50	11.30	4.90	0.0945
VENNER	6	m	0	0.09	27.66	0.12	0.6182
VENNER	3	f	0	0.18	28.98	0.01	0.3399
Subtotal	VENNER			-0.05	56.63	0.13	
VERHOE	3	b	0	-0.25	17.31	2.94	0.2972
VONMAF	1	b	0	0.23	78.55	0.37	0.0417
WANG	2	b	8	0.08	3689.08	26.26	0.0000
WILLE1	7	b	0	0.68	6.06	1.61	0.0955
WITHER	1	b	0	0.18	92.49	0.02	0.0890
WOLFO1	2	b	7	0.11	11.72	0.03	0.6981
WOLFO2	2	b	7	0.30	11.12	0.21	0.3170
WOLFO3	2	b	10	0.33	24.30	0.69	0.1046
YANG	2	b	10	-0.14	31.98	2.89	0.4310
*ZEIGER	1	b	0	0.21	10.38	0.03	0.4914
ZHENG	19	b	6	0.34	51.44	1.58	0.0158

Appendix Table A25 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

RR data

	N	152
	NS	145
	Wt	10688.14
Het	Chi	329.14
Het	df	151
Het	P	***
Fixed	RR	1.18
	RRl	1.15
	RRu	1.20
	P	+++
Random	RR	1.22
	RRl	1.17
	RRu	1.27
	P	+++
Asymm	P	**

Appendix Table A25 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

RR data

	N	152						
	NS	145						
	Wt	10688.14						
Het	Chi	329.14						
Het	df	151						
Het	P	***						
Fixed	RR	1.18						
	RR1	1.15						
	RRu	1.20						
	P	+++						
Random	RR	1.22						
	RR1	1.17						
	RRu	1.27						
	P	+++						
Asymm	P	**						
			<u>Sex</u>					
		both	male	female			Total	
	N	137	8	7			152	
	NS	137	8	7			152	
	Wt	10366.00	187.14	134.99			10688.14	
Het	Chi	299.63	22.07	6.00			329.14	
Het	df	136	7	6			151	
Het	P	***	**	N.S.			***	
Fixed	RR	1.18	1.12	1.08			1.18	
	RR1	1.15	0.97	0.91			1.15	
	RRu	1.20	1.29	1.28			1.20	
	P	+++	N.S.	N.S.			+++	
Random	RR	1.23	1.25	1.08			1.22	
	RR1	1.18	0.94	0.91			1.17	
	RRu	1.27	1.66	1.28			1.27	
	P	+++	N.S.	N.S.			+++	
Between	Chi						1.45	
Between	df						2	
Between	P						N.S.	
					<u>Continent</u>			
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	37	5	65	32	10	3	152
	NS	33	5	64	30	10	3	145
	Wt	1414.43	62.17	3320.44	5161.49	704.36	25.25	10688.14
Het	Chi	51.76	1.79	122.16	89.98	21.16	2.26	329.14
Het	df	36	4	64	31	9	2	151
Het	P	*	N.S.	***	***	*	N.S.	***
Fixed	RR	1.25	1.52	1.24	1.11	1.14	1.64	1.18
	RR1	1.19	1.18	1.20	1.08	1.06	1.11	1.15
	RRu	1.32	1.95	1.29	1.14	1.23	2.42	1.20
	P	+++	++	+++	+++	+++	+	+++
Random	RR	1.28	1.52	1.21	1.18	1.15	1.67	1.22
	RR1	1.19	1.18	1.14	1.08	1.02	1.09	1.17
	RRu	1.37	1.95	1.28	1.28	1.30	2.55	1.27
	P	+++	++	+++	+++	+	+	+++
Between	Chi							40.03
Between	df							5
Between	P							***

Appendix Table A25 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)

		<u>Adjusted</u>						
		<u>Country in Europe</u>						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
RR data	N	15	8	7	18	9	8	65
	NS	15	8	7	18	9	7	64
	Wt	1703.41	409.18	209.36	408.85	223.01	366.63	3320.44
Het	Chi	24.16	5.14	9.02	40.12	14.89	23.49	122.16
Het	df	14	7	6	17	8	7	64
Het	P	*	N.S.	N.S.	**	(*)	**	***
Fixed	RR	1.28	1.23	1.13	1.17	1.20	1.26	1.24
	RRl	1.22	1.12	0.99	1.06	1.05	1.14	1.20
	RRu	1.35	1.36	1.30	1.29	1.37	1.39	1.29
	P	+++	+++	(+)	++	++	+++	+++
Random	RR	1.26	1.23	1.15	1.18	1.20	1.12	1.21
	RRl	1.14	1.12	0.95	1.01	0.99	0.90	1.14
	RRu	1.38	1.36	1.40	1.39	1.46	1.40	1.28
	P	+++	+++	N.S.	+	(+)	N.S.	+++
Between	Chi							5.35
Between	df							5
Between	P							N.S.

Country in Asia

		FarEast	Cent/SE	MidlEast	Total
	N	16	7	9	32
	NS	15	6	9	30
	Wt	4709.12	178.51	273.86	5161.49
Het	Chi	41.15	13.49	7.56	89.98
Het	df	15	6	8	31
Het	P	***	*	N.S.	***
Fixed	RR	1.09	1.57	1.26	1.11
	RRl	1.06	1.36	1.12	1.08
	RRu	1.12	1.82	1.42	1.14
	P	+++	+++	+++	+++
Random	RR	1.05	1.61	1.26	1.18
	RRl	0.95	1.24	1.12	1.08
	RRu	1.15	2.09	1.42	1.28
	P	N.S.	+++	+++	+++
Between	Chi				27.78
Between	df				2
Between	P				***

Start year of study

		<1970	1970-79	1980-89	1990+	unknown	Total
	N	5	14	40	75	18	152
	NS	4	13	39	71	18	145
	Wt	216.04	544.38	1481.88	6754.33	1691.50	10688.14
Het	Chi	1.27	20.58	72.86	162.66	45.35	329.14
Het	df	4	13	39	74	17	151
Het	P	N.S.	(*)	***	***	***	***
Fixed	RR	1.23	1.23	1.25	1.13	1.27	1.18
	RRl	1.08	1.13	1.19	1.11	1.21	1.15
	RRu	1.41	1.34	1.31	1.16	1.33	1.20
	P	++	+++	+++	+++	+++	+++
Random	RR	1.23	1.22	1.30	1.18	1.25	1.22
	RRl	1.08	1.08	1.20	1.12	1.10	1.17
	RRu	1.41	1.39	1.41	1.24	1.41	1.27
	P	++	++	+++	+++	+++	+++
Between	Chi						26.43
Between	df						4
Between	P						***

Appendix Table A25 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

Publication year
 <1990 1990-94 1995-99 2000+ Total

RR data

N	18	33	53	48	152
NS	17	31	53	44	145
Wt	389.03	1108.79	6192.54	2997.78	10688.14
Het Chi	30.76	45.58	116.68	112.43	329.14
Het df	17	32	52	47	151
Het P	*	(*)	***	***	***
Fixed RR	1.14	1.27	1.13	1.24	1.18
RR1	1.03	1.20	1.10	1.20	1.15
RRu	1.26	1.35	1.16	1.28	1.20
P	+	+++	+++	+++	+++
Random RR	1.17	1.27	1.22	1.20	1.22
RR1	1.00	1.17	1.15	1.12	1.17
RRu	1.35	1.38	1.29	1.30	1.27
P	+	+++	+++	+++	+++
Between Chi					23.69
Between df					3
Between P					***

Study type
 CC Pr CS Total

N	35	20	97	152
NS	34	19	92	145
Wt	818.34	1858.00	8011.80	10688.14
Het Chi	58.72	27.06	219.46	329.14
Het df	34	19	96	151
Het P	**	N.S.	***	***
Fixed RR	1.31	1.26	1.14	1.18
RR1	1.22	1.20	1.12	1.15
RRu	1.40	1.32	1.17	1.20
P	+++	+++	+++	+++
Random RR	1.32	1.20	1.20	1.22
RR1	1.19	1.11	1.15	1.17
RRu	1.47	1.31	1.26	1.27
P	+++	+++	+++	+++
Between Chi				23.91
Between df				2
Between P				***

Highest age in RR
 0-9 10-14 15+ unknown Total

N	32	57	61	2	152
NS	32	56	55	2	145
Wt	1124.73	3623.68	5918.78	20.95	10688.14
Het Chi	55.19	103.15	146.69	1.33	329.14
Het df	31	56	60	1	151
Het P	**	***	***	N.S.	***
Fixed RR	1.28	1.22	1.13	1.56	1.18
RR1	1.20	1.18	1.10	1.02	1.15
RRu	1.35	1.26	1.16	2.40	1.20
P	+++	+++	+++	+	+++
Random RR	1.29	1.17	1.23	1.55	1.22
RR1	1.18	1.11	1.16	0.95	1.17
RRu	1.41	1.24	1.31	2.55	1.27
P	+++	+++	+++	(+)	+++
Between Chi					22.78
Between df					3
Between P					***

Appendix Table A25 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

Population setting
 general school medical allergy other Total

RR data

N	26	80	37	4	5	152
NS	24	77	36	3	5	145
Wt	874.94	7575.84	2025.81	68.83	142.71	10688.14
Het Chi	41.03	211.38	36.77	2.12	8.04	329.14
Het df	25	79	36	3	4	151
Het P	*	***	N.S.	N.S.	(*)	***
Fixed RR	1.24	1.14	1.29	1.19	1.07	1.18
RRl	1.16	1.11	1.24	0.94	0.91	1.15
RRu	1.33	1.17	1.35	1.51	1.26	1.20
P	+++	+++	+++	N.S.	N.S.	+++
Random RR	1.24	1.20	1.29	1.19	1.06	1.22
RRl	1.13	1.13	1.23	0.94	0.79	1.17
RRu	1.36	1.26	1.36	1.51	1.41	1.27
P	+++	+++	+++	N.S.	N.S.	+++
Between Chi						29.81
Between df						4
Between P						***

Respondent for smoking
 child parent med rec mix/oth Total

N	12	105	3	32	152
NS	12	103	3	27	145
Wt	653.77	7725.15	1226.03	1083.19	10688.14
Het Chi	41.26	213.61	0.03	51.59	329.14
Het df	11	104	2	31	151
Het P	***	***	N.S.	*	***
Fixed RR	1.06	1.16	1.31	1.20	1.18
RRl	0.98	1.14	1.24	1.13	1.15
RRu	1.14	1.19	1.38	1.27	1.20
P	N.S.	+++	+++	+++	+++
Random RR	1.14	1.24	1.31	1.19	1.22
RRl	0.95	1.18	1.24	1.09	1.17
RRu	1.36	1.30	1.38	1.29	1.27
P	N.S.	+++	+++	+++	+++
Between Chi					22.66
Between df					3
Between P					***

Child smokers
 exc/none included ignored Total

N	23	15	114	152
NS	18	14	113	145
Wt	711.25	4304.93	5671.96	10688.14
Het Chi	33.25	33.29	226.48	329.14
Het df	22	14	113	151
Het P	(*)	**	***	***
Fixed RR	1.12	1.10	1.24	1.18
RRl	1.04	1.07	1.21	1.15
RRu	1.21	1.14	1.27	1.20
P	++	+++	+++	+++
Random RR	1.14	1.22	1.23	1.22
RRl	1.04	1.09	1.18	1.17
RRu	1.26	1.37	1.29	1.27
P	++	+++	+++	+++
Between Chi				36.12
Between df				2
Between P				***

Appendix Table A25 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)

Adjusted
Physician diagnosis (lifetime/current)
 yes no/mixed Total

RR data

N	80	72	152
NS	77	68	145
Wt	3594.40	7093.74	10688.14
Het Chi	137.83	185.31	329.14
Het df	79	71	151
Het P	***	***	***
Fixed RR	1.21	1.16	1.18
RRl	1.18	1.13	1.15
RRu	1.26	1.18	1.20
P	+++	+++	+++
Random RR	1.20	1.24	1.22
RRl	1.14	1.17	1.17
RRu	1.26	1.31	1.27
P	+++	+++	+++
Between Chi			6.00
Between df			1
Between P			*

Respondent for diagnosis (lifetime/current)
 medrec parent child mixed Total

N	28	89	18	17	152
NS	27	86	17	15	145
Wt	1574.40	4334.96	4256.52	522.26	10688.14
Het Chi	32.83	152.47	52.94	35.30	329.14
Het df	27	88	17	16	151
Het P	N.S.	***	***	**	***
Fixed RR	1.30	1.23	1.08	1.18	1.18
RRl	1.23	1.20	1.05	1.09	1.15
RRu	1.36	1.27	1.11	1.29	1.20
P	+++	+++	+++	+++	+++
Random RR	1.28	1.24	1.10	1.14	1.22
RRl	1.17	1.19	0.97	0.98	1.17
RRu	1.40	1.30	1.25	1.33	1.27
P	+++	+++	N.S.	N.S.	+++
Between Chi					55.60
Between df					3
Between P					***

Questionnaire for symptoms
 ISAAC ATS other Total

N	24	19	109	152
NS	23	18	104	145
Wt	5467.28	642.88	4577.98	10688.14
Het Chi	71.75	22.13	209.42	329.14
Het df	23	18	108	151
Het P	***	N.S.	***	***
Fixed RR	1.12	1.22	1.24	1.18
RRl	1.09	1.13	1.20	1.15
RRu	1.15	1.32	1.27	1.20
P	+++	+++	+++	+++
Random RR	1.21	1.20	1.23	1.22
RRl	1.13	1.09	1.17	1.17
RRu	1.31	1.32	1.29	1.27
P	+++	+++	+++	+++
Between Chi				25.85
Between df				2
Between P				***

Appendix Table A25 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

Analysis type
 prevlnce onset Total

RR data

N	140	12	152
NS	134	11	145
Wt	9200.00	1488.14	10688.14
Het Chi	304.87	14.70	329.14
Het df	139	11	151
Het P	***	N.S.	***
Fixed RR	1.16	1.27	1.18
RRl	1.14	1.20	1.15
RRu	1.18	1.33	1.20
P	+++	+++	+++
Random RR	1.22	1.20	1.22
RRl	1.17	1.09	1.17
RRu	1.27	1.33	1.27
P	+++	+++	+++
Between Chi			9.57
Between df			1
Between P			**

Number of cases (lifetime/current asthma)
 1-50 51-100 101-200 201+ unknown Total

N	11	15	25	41	60	152
NS	11	14	25	37	58	145
Wt	58.05	171.58	535.15	3863.48	6059.88	10688.14
Het Chi	18.12	23.79	43.83	62.17	156.11	329.14
Het df	10	14	24	40	59	151
Het P	(*)	*	**	*	***	***
Fixed RR	1.50	1.41	1.23	1.22	1.13	1.18
RRl	1.16	1.21	1.13	1.19	1.10	1.15
RRu	1.94	1.64	1.34	1.26	1.16	1.20
P	++	+++	+++	+++	+++	+++
Random RR	1.46	1.43	1.23	1.20	1.20	1.22
RRl	1.02	1.17	1.09	1.15	1.13	1.17
RRu	2.09	1.75	1.38	1.25	1.29	1.27
P	+	+++	+++	+++	+++	+++
Between Chi						25.12
Between df						4
Between P						***

Study adjusts for or is matched on sex
 Yes No Total

N	75	77	152
NS	73	72	145
Wt	7211.42	3476.72	10688.14
Het Chi	179.64	135.71	329.14
Het df	74	76	151
Het P	***	***	***
Fixed RR	1.15	1.24	1.18
RRl	1.12	1.20	1.15
RRu	1.17	1.28	1.20
P	+++	+++	+++
Random RR	1.23	1.21	1.22
RRl	1.16	1.15	1.17
RRu	1.29	1.28	1.27
P	+++	+++	+++
Between Chi			13.79
Between df			1
Between P			***

Appendix Table A25 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)

Adjusted
Study adjusts for or is matched on age
 Yes No Total

RR data

N	53	99	152
NS	51	94	145
Wt	6335.50	4352.63	10688.14
Het Chi	142.74	172.71	329.14
Het df	52	98	151
Het P	***	***	***
Fixed RR	1.14	1.23	1.18
RRl	1.11	1.19	1.15
RRu	1.17	1.26	1.20
P	+++	+++	+++
Random RR	1.22	1.22	1.22
RRl	1.15	1.16	1.17
RRu	1.30	1.28	1.27
P	+++	+++	+++
Between Chi			13.70
Between df			1
Between P			***

Study adjusts for or is matched on race

N	20	132	152
NS	18	127	145
Wt	1151.13	9537.01	10688.14
Het Chi	47.24	276.56	329.14
Het df	19	131	151
Het P	***	***	***
Fixed RR	1.25	1.17	1.18
RRl	1.18	1.14	1.15
RRu	1.33	1.19	1.20
P	+++	+++	+++
Random RR	1.31	1.20	1.22
RRl	1.18	1.16	1.17
RRu	1.45	1.25	1.27
P	+++	+++	+++
Between Chi			5.34
Between df			1
Between P			*

Study adjusts for or is matched on location

N	44	108	152
NS	42	103	145
Wt	6508.99	4179.15	10688.14
Het Chi	112.53	188.81	329.14
Het df	43	107	151
Het P	***	***	***
Fixed RR	1.13	1.25	1.18
RRl	1.10	1.21	1.15
RRu	1.16	1.29	1.20
P	+++	+++	+++
Random RR	1.18	1.24	1.22
RRl	1.11	1.18	1.17
RRu	1.25	1.31	1.27
P	+++	+++	+++
Between Chi			27.81
Between df			1
Between P			***

Appendix Table A25 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)

Adjusted
Study adjusts for or is matched on SES
 Yes No Total

RR data

N	48	104	152
NS	47	98	145
Wt	6425.92	4262.21	10688.14
Het Chi	127.18	177.97	329.14
Het df	47	103	151
Het P	***	***	***
Fixed RR	1.13	1.25	1.18
RRl	1.10	1.21	1.15
RRu	1.16	1.28	1.20
P	+++	+++	+++
Random RR	1.21	1.23	1.22
RRl	1.13	1.17	1.17
RRu	1.28	1.29	1.27
P	+++	+++	+++
Between Chi			24.00
Between df			1
Between P			***

Study adjusts for family medical history

N	52	100	152
NS	50	95	145
Wt	2456.57	8231.57	10688.14
Het Chi	78.81	246.81	329.14
Het df	51	99	151
Het P	**	***	***
Fixed RR	1.21	1.16	1.18
RRl	1.17	1.14	1.15
RRu	1.26	1.19	1.20
P	+++	+++	+++
Random RR	1.24	1.20	1.22
RRl	1.17	1.14	1.17
RRu	1.31	1.26	1.27
P	+++	+++	+++
Between Chi			3.52
Between df			1
Between P			(*)

Study adjusts for family composition

N	25	127	152
NS	25	120	145
Wt	1119.79	9568.35	10688.14
Het Chi	35.55	289.31	329.14
Het df	24	126	151
Het P	(*)	***	***
Fixed RR	1.25	1.17	1.18
RRl	1.17	1.14	1.15
RRu	1.32	1.19	1.20
P	+++	+++	+++
Random RR	1.24	1.21	1.22
RRl	1.15	1.16	1.17
RRu	1.34	1.27	1.27
P	+++	+++	+++
Between Chi			4.28
Between df			1
Between P			*

Appendix Table A25 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)

Adjusted
Study adjusts for cooking, heating, air conditioning
 Yes No Total

RR data

N	32	120	152
NS	30	115	145
Wt	5094.23	5593.91	10688.14
Het Chi	88.40	218.76	329.14
Het df	31	119	151
Het P	***	***	***
Fixed RR	1.12	1.23	1.18
RRl	1.09	1.20	1.15
RRu	1.15	1.26	1.20
P	+++	+++	+++
Random RR	1.25	1.21	1.22
RRl	1.15	1.16	1.17
RRu	1.36	1.26	1.27
P	+++	+++	+++
Between Chi			21.98
Between df			1
Between P			***

Study adjusts for housing quality, crowding, damp, mould

N	32	120	152
NS	31	114	145
Wt	1339.96	9348.18	10688.14
Het Chi	66.98	262.07	329.14
Het df	31	119	151
Het P	***	***	***
Fixed RR	1.18	1.17	1.18
RRl	1.12	1.15	1.15
RRu	1.25	1.20	1.20
P	+++	+++	+++
Random RR	1.19	1.23	1.22
RRl	1.09	1.17	1.17
RRu	1.30	1.28	1.27
P	+++	+++	+++
Between Chi			0.10
Between df			1
Between P			N.S.

Study adjusts for pets, animal contact, farming

N	28	124	152
NS	25	120	145
Wt	1245.17	9442.96	10688.14
Het Chi	63.74	263.38	329.14
Het df	27	123	151
Het P	***	***	***
Fixed RR	1.22	1.17	1.18
RRl	1.15	1.15	1.15
RRu	1.29	1.19	1.20
P	+++	+++	+++
Random RR	1.20	1.22	1.22
RRl	1.08	1.17	1.17
RRu	1.34	1.27	1.27
P	+++	+++	+++
Between Chi			2.03
Between df			1
Between P			N.S.

Appendix Table A25 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)

Adjusted
Study adjusts for child's medical history
 Yes No Total

RR data

N	43	109	152
NS	40	105	145
Wt	1478.58	9209.56	10688.14
Het Chi	68.86	256.04	329.14
Het df	42	108	151
Het P	**	***	***
Fixed RR	1.23	1.17	1.18
RRl	1.17	1.14	1.15
RRu	1.30	1.19	1.20
P	+++	+++	+++
Random RR	1.27	1.20	1.22
RRl	1.18	1.15	1.17
RRu	1.37	1.25	1.27
P	+++	+++	+++
Between Chi			4.24
Between df			1
Between P			*

Study adjusts for in utero exposure

N	11	141	152
NS	10	135	145
Wt	644.50	10043.63	10688.14
Het Chi	21.96	303.97	329.14
Het df	10	140	151
Het P	*	***	***
Fixed RR	1.10	1.18	1.18
RRl	1.02	1.16	1.15
RRu	1.19	1.20	1.20
P	+	+++	+++
Random RR	1.13	1.23	1.22
RRl	0.99	1.18	1.17
RRu	1.29	1.28	1.27
P	(+)	+++	+++
Between Chi			3.21
Between df			1
Between P			(*)

Study adjusts for in life exposure

N	31	121	152
NS	30	115	145
Wt	1650.63	9037.50	10688.14
Het Chi	54.11	273.61	329.14
Het df	30	120	151
Het P	**	***	***
Fixed RR	1.21	1.17	1.18
RRl	1.15	1.15	1.15
RRu	1.27	1.19	1.20
P	+++	+++	+++
Random RR	1.23	1.21	1.22
RRl	1.15	1.16	1.17
RRu	1.32	1.27	1.27
P	+++	+++	+++
Between Chi			1.42
Between df			1
Between P			N.S.

Appendix Table A25 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

Asthma definition (lifetime/current)
 lifetime current Total

RR data

N	93	59	152
NS	88	57	145
Wt	4665.56	6022.58	10688.14
Het Chi	153.76	154.85	329.14
Het df	92	58	151
Het P	***	***	***
Fixed RR	1.24	1.13	1.18
RRl	1.20	1.10	1.15
RRu	1.27	1.16	1.20
P	+++	+++	+++
Random RR	1.23	1.20	1.22
RRl	1.17	1.12	1.17
RRu	1.28	1.28	1.27
P	+++	+++	+++
Between Chi			20.53
Between df			1
Between P			***

Exposed group : Source/who is smoker

	Biochem	TotETS	AnyHh	AnyPar	Mother	Father	Total
N	3	5	67	34	40	3	152
NS	3	5	64	33	38	2	145
Wt	36.62	73.06	6947.93	992.28	2559.61	78.63	10688.14
Het Chi	2.00	6.20	174.55	34.61	67.16	0.72	329.14
Het df	2	4	66	33	39	2	151
Het P	N.S.	N.S.	***	N.S.	**	N.S.	***
Fixed RR	1.40	1.39	1.13	1.21	1.30	1.08	1.18
RRl	1.01	1.11	1.10	1.14	1.25	0.87	1.15
RRu	1.93	1.75	1.15	1.29	1.35	1.35	1.20
P	+	++	+++	+++	+++	N.S.	+++
Random RR	1.40	1.45	1.18	1.21	1.30	1.08	1.22
RRl	1.01	1.06	1.11	1.13	1.21	0.87	1.17
RRu	1.93	1.99	1.24	1.29	1.39	1.35	1.27
P	+	+	+++	+++	+++	N.S.	+++
Between Chi							43.92
Between df							5
Between P							***

Exposed group : when Exposed

	lif/ev	age<7y	current	unspec	other	Total
N	29	14	46	59	4	152
NS	27	13	45	56	4	145
Wt	2072.88	533.86	2386.03	5627.60	67.77	10688.14
Het Chi	53.81	33.73	81.78	131.21	2.18	329.14
Het df	28	13	45	58	3	151
Het P	**	**	***	***	N.S.	***
Fixed RR	1.23	1.29	1.22	1.12	1.46	1.18
RRl	1.18	1.19	1.17	1.10	1.15	1.15
RRu	1.28	1.41	1.27	1.15	1.86	1.20
P	+++	+++	+++	+++	++	+++
Random RR	1.16	1.35	1.22	1.22	1.46	1.22
RRl	1.07	1.15	1.14	1.14	1.15	1.17
RRu	1.26	1.59	1.30	1.30	1.86	1.27
P	+++	+++	+++	+++	++	+++
Between Chi						26.44
Between df						4
Between P						***

Appendix Table A25 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)

Adjusted
 Unexposed group : who is smoker
 NoHhMemb NoParent NotSpPar Total

RR data

	N	76	36	40	152
	NS	73	34	38	145
	Wt	7059.45	1048.91	2579.78	10688.14
Het	Chi	190.23	34.86	66.26	329.14
Het	df	75	35	39	151
Het	P	***	N.S.	**	***
Fixed	RR	1.13	1.21	1.30	1.18
	RR1	1.10	1.13	1.25	1.15
	RRu	1.16	1.28	1.35	1.20
	P	+++	+++	+++	+++
Random	RR	1.19	1.21	1.29	1.22
	RR1	1.12	1.13	1.21	1.17
	RRu	1.25	1.28	1.38	1.27
	P	+++	+++	+++	+++
Between	Chi				37.80
Between	df				2
Between	P				***

Unexposed group : time
 non never non+othr NA Total

	N	134	15	3	152
	NS	128	14	3	145
	Wt	8786.34	1865.18	36.62	10688.14
Het	Chi	288.09	24.31	2.00	329.14
Het	df	133	14	2	151
Het	P	***	*	N.S.	***
Fixed	RR	1.16	1.27	1.40	1.18
	RR1	1.13	1.21	1.01	1.15
	RRu	1.18	1.33	1.93	1.20
	P	+++	+++	+	+++
Random	RR	1.22	1.22	1.40	1.22
	RR1	1.17	1.12	1.01	1.17
	RRu	1.27	1.32	1.93	1.27
	P	+++	+++	+	+++
Between	Chi				14.74
Between	df				2
Between	P				***

Number of adjustment variables
 0 1 2 3-5 6-9 10+ Total

	N	74	16	4	16	31	11	152
	NS	72	13	4	15	30	11	145
	Wt	3455.20	397.67	206.75	650.50	5438.28	539.74	10688.14
Het	Chi	115.78	26.79	4.74	48.35	98.90	12.52	329.14
Het	df	73	15	3	15	30	10	151
Het	P	**	*	N.S.	***	***	N.S.	***
Fixed	RR	1.23	1.19	1.37	1.16	1.13	1.25	1.18
	RR1	1.19	1.07	1.20	1.07	1.10	1.15	1.15
	RRu	1.27	1.31	1.57	1.25	1.16	1.36	1.20
	P	+++	+++	+++	+++	+++	+++	+++
Random	RR	1.21	1.24	1.39	1.25	1.21	1.25	1.22
	RR1	1.14	1.07	1.16	1.08	1.12	1.13	1.17
	RRu	1.27	1.43	1.67	1.45	1.32	1.38	1.27
	P	+++	++	+++	++	+++	+++	+++
Between	Chi							22.06
Between	df							5
Between	P							***

Appendix Table A25 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

RR adjusted for sex
 Yes No Total

RR data

N	49	103	152
NS	49	96	145
Wt	6330.08	4358.06	10688.14
Het Chi	137.59	184.05	329.14
Het df	48	102	151
Het P	***	***	***
Fixed RR	1.15	1.21	1.18
RRl	1.12	1.18	1.15
RRu	1.18	1.25	1.20
P	+++	+++	+++
Random RR	1.25	1.20	1.22
RRl	1.18	1.14	1.17
RRu	1.33	1.26	1.27
P	+++	+++	+++
Between Chi			7.51
Between df			1
Between P			**

RR adjusted for age

N	39	113	152
NS	37	108	145
Wt	5936.36	4751.78	10688.14
Het Chi	114.60	196.37	329.14
Het df	38	112	151
Het P	***	***	***
Fixed RR	1.13	1.23	1.18
RRl	1.10	1.20	1.15
RRu	1.16	1.27	1.20
P	+++	+++	+++
Random RR	1.21	1.22	1.22
RRl	1.13	1.17	1.17
RRu	1.29	1.28	1.27
P	+++	+++	+++
Between Chi			18.18
Between df			1
Between P			***

RR adjusted for other ETS

N	16	136	152
NS	15	130	145
Wt	818.73	9869.41	10688.14
Het Chi	28.89	297.09	329.14
Het df	15	135	151
Het P	*	***	***
Fixed RR	1.25	1.17	1.18
RRl	1.16	1.15	1.15
RRu	1.34	1.19	1.20
P	+++	+++	+++
Random RR	1.25	1.21	1.22
RRl	1.12	1.17	1.17
RRu	1.38	1.27	1.27
P	+++	+++	+++
Between Chi			3.17
Between df			1
Between P			(*)

Appendix Table A25 - 4

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

REF NRR X SEX AST AGEL AGEH RACE	LOC BEGYR PUBYR STYP ADJ EXP-who UNEXsource	EXPOS-time UNEXTI BIOMEA															
ADDOYO	1	b	c	8	17	all	Africa	*	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-	
AGABI1	7	x	b	c	6	7	all	Eu:Ita	1994	1999	CC	0	AnyPar	NoParent	current	never	-
AGABI2	7	x	b	c	13	14	all	Eu:Ita	1994	1999	CC	0	AnyPar	NoParent	current	never	-
ALBA	1	b	l	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-	
ALDAWO	2	m	l	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never	-	
ALFRAE	2	b	l	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non	-	
ANDRAE	1	x	b	l	0	16	all	Eu:Sca	1985	1988	CS	0	AnyPar	NoParent	in life	non	-
ANNESI	1	b	l	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-	
ARSHAD	1	b	c	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non	-	
BARRET	1	b	l	9	11	all	Eu:Ita	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-	
BECKET	5	x	b	l	0	17	all	NAmer	1993	1996	CS	0	AnyHh	NoHhMemb	ever	never	-
BENER	1	b	l	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non	-	
BERGMA	1	b	c	3	6	all	Eu:Ger	1990	2000	Pr	8	AnyHh	NoHhMemb	18m	non	-	
BRABIN	1	x	b	l	5	11	all	Eu:UK	1991	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-
BURCHF	5	m	l	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-	
BURCHF	8	f	l	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-	
BUTZ	6	x	b	l	*	*	all	NAmer	1989	1992	CC	0	TotETS	None	current	non	-
CALL	1	b	c	3	15	all	NAmer	1990	1992	CC	0	AnyHh	NoHhMemb	unspec	non	-	
CHEN1	1	b	l	1	1	all	As:FE	1985	1988	CS	0	AnyHh	NoHhMemb	in life	non	-	
CHEN2	11	x	b	l	6	17	all	NAmer	1993	1996	CS	0	AnyHh	NoHhMemb	current	non	-
CHHABR	1	b	c	4	17	all	As:cen	*	1998	CS	0	AnyHh	NoHhMemb	unspec	non	-	
CLARK	2	b	c	5	7	all	Eu:UK	*	1994	CC	0	Biochem	Low	-	-	saliva	
CSONKA	2	x	b	c	6	13	all	Eu:Sca	*	2000	CS	0	AnyHh	NoHhMemb	<3y	non	-
CUNNI1	1	b	c	8	11	all	NAmer	1988	1996	CS	0	AnyHh	NoHhMemb	current	non	-	
DAIGLE	1	x	b	c	0	*	all	NAmer	1986	1991	CC	0	Mother	NotMothr	unspec	non	-
DEKKER	3	x	b	c	5	8	all	NAmer	1988	1991	CC	0	AnyHh	NoHhMemb	unspec	non	-
DELL	2	b	l	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non	-	
DIJKST	1	b	c	6	12	all	Eu:wst	1986	1990	CS	0	AnyHh	NoHhMemb	current	non	-	
DODGE	9	x	b	l	8	12	all	NAmer	1978	1982	Pr	0	AnyPar	NoParent	unspec	non	-
DOLD	17	x	b	l	9	11	all	Eu:Ger	1989	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
DOTTER	1	m	c	8	17	all	Eu:est	1994	2001	CS	6	AnyHh	NoHhMemb	unspec	non	-	
DOTTER	2	f	c	8	17	all	Eu:est	1994	2001	CS	6	AnyHh	NoHhMemb	unspec	non	-	
ECE	3	b	l	6	15	all	Eu:est	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-	
EHRLI2	3	b	l	3	14	all	NAmer	1988	1992	CC	0	Biochem	Low	-	-	urine	
FAGBUL	1	x	b	c	0	18	all	Africa	*	1994	CC	0	AnyPar	NoParent	unspec	non	-
FARBE2	1	x	b	l	5	17	all	NAmer	1987	1997	CS	0	Mother	NotMothr	current	non	-
FAROOQ	1	b	l	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never	-	
FERGUS	7	b	l	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non	-	
FLYNN1	1	b	l	9	10	all	Auslia	1990	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-	
FORAST	7	x	b	l	7	11	all	Eu:Ita	1987	1992	CS	0	AnyPar	NoParent	unspec	non	-
FORSB1	2	b	c	6	12	all	Eu:Sca	1993	1997	CS	14	AnyHh	NoHhMemb	<2y	non	-	
FORSB2	2	b	c	6	12	all	Eu:Sca	1993	1997	CS	14	AnyHh	NoHhMemb	<2y	non	-	
FORSB3	2	b	c	6	12	all	Eu:Sca	1993	1997	CS	15	AnyHh	NoHhMemb	<2y	non	-	
FUJI	1	b	c	8	11	all	As:FE	1994	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-	
GILLIL	59	x	m	l	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	in life	non	-
GILLIL	68	x	f	l	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	in life	non	-
GOLD	11	b	l	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non	-	
GOREN1	3	b	l	7	11	all	As:ME	1980	1986	CS	0	AnyHh	NoHhMemb	current	non	-	
GOREN2	2	x	b	l	7	11	all	As:ME	1982	1995	CS	0	Mother	NotMothr	ever	never	-
GORTM1	1	x	b	l	0	17	all	NAmer	1977	1982	CS	0	Mother	NotMothr	current	non	-
GORTM2	1	b	l	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non	-	
GUPTA	1	x	b	c	9	20	all	As:cen	1997	2001	CS	0	AnyHh	NoHhMemb	unspec	non	-
GURKAN	1	b	l	3	15	all	Eu:est	1995	2002	CC	0	TotETS	None	unspec	non	-	
HABY	2	x	b	c	3	5	all	Auslia	1995	2001	CS	0	AnyPar	NoParent	<6m	non	-
HAJNAL	1	b	l	6	14	all	Eu:wst	1992	1999	CS	13	AnyHh	NoHhMemb	current	non	-	
HJERN1	5	x	b	c	3	15	all	Eu:Sca	1996	2001	CS	0	Mother	NotMothr	ever	never	-
HJERN2	5	x	b	c	3	15	all	Eu:Sca	1996	2001	CS	0	Father	NotFathr	ever	never	-
HOST	1	b	c	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non	-	
HU1	2	x	b	l	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non	-
HU2	21	x	b	l	20	22	all	NAmer	1986	1997	Pr	0	AnyPar	LowParnt	13-15y	non	-
INFANT	3	x	b	c	3	4	all	NAmer	1988	1993	CC	0	Mother	NotMothr	in life	non	-
JAAKKO	1	x	b	c	4	4	all	Eu:Sca	1992	2001	Pr	0	AnyHh	NoHhMemb	<1m	non	-
JENKIN	1	x	m	l	7	7	all	Auslia	1968	1993	CS	0	Mother	NotMothr	current	non	-
JENKIN	3	x	f	l	7	7	all	Auslia	1968	1993	CS	0	Mother	NotMothr	current	non	-
JONES	2	b	c	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non	-	
KARUNA	1	b	c	1	10	all	As:cen	1996	2001	CC	0	TotETS	None	current	non	-	
KAY	7	x	b	l	3	11	all	Eu:UK	*	1995	CS	0	AnyPar	NoParent	unspec	non	-
KENDIR	1	b	l	6	14	all	Eu:est	1993	1998	CS	0	AnyHh	NoHhMemb	current	non	-	
KERSHA	3	x	b	l	0	5	all	Eu:UK	1983	1987	CC	0	AnyHh	LowHh	<3y	non	-
KIVITY	4	b	l	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non	-	

Appendix Table A25 - 4

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

REF	NRR	X	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
KUEHR	2	x	b	1	6	8	all	Eu:Ger	1990	1992	CS	0	Mother	NotMothr	<1y	non	-
KUHR	4		b	1	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non	-
LAM1	4	x	b	1	12	15	all	As:FE	1994	1998	CS	0	AnyHh	NoHhMemb	unspec	non	-
LAM2	1		b	1	8	13	all	As:FE	1995	1999	CS	4	AnyHh	NoHhMemb	unspec	non	-
LAU	1		b	c	3	10	all	As:FE	1989	1995	CS	0	AnyPar	NoParent	current	non	-
LEE1	1		b	c	6	12	all	As:FE	1995	2001	CS	8	AnyHh	NoHhMemb	current	non	-
LEE2	1		b	c	12	15	all	As:FE	1995	2001	CS	8	AnyHh	NoHhMemb	current	non	-
LEEDER	1	x	b	1	0	5	all	Eu:UK	1963	1976	Pr	0	AnyPar	NoParent	in life	non	-
LEEN	1		b	c	9	9	all	Eu:wst	1991	1994	CC	0	AnyPar	NoParent	unspec	non	-
LEROUX	1	x	b	1	6	7	all	Eu:wst	1990	1995	CS	0	AnyPar	LowParnt	unspec	non	-
LILLJE	1		b	c	7	10	all	Eu:Sca	1991	1997	CS	0	AnyPar	NoParent	unspec	non	-
LINDFO	1		b	c	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non	-
LIS	1		b	1	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non	-
LISTER	1	x	b	1	0	4	all	Auslia	1989	1998	CS	0	Mother	NotMothr	current	non	-
MAIER	6	x	b	1	5	9	all	NAmer	1994	1997	CS	0	TotETS	None	current	non	-
MARTIN	1	x	m	1	0	12	all	NAmer	1972	1992	Pr	0	Mother	LowMothr	<5y	non	-
MARTIN	2	x	f	1	0	12	all	NAmer	1972	1992	Pr	0	Mother	LowMothr	<5y	non	-
MCCON2	2		b	1	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-
MCKEEV	4		b	1	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never	-
MELSON	5		m	c	11	17	all	As:cen	1997	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
MELSON	6		f	c	11	17	all	As:cen	1997	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
MOHAME	1		b	c	9	11	all	Africa	1990	1995	CC	0	AnyHh	NoHhMemb	unspec	non	-
MOUSSA	1		b	c	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non	-
MOYES1	1		b	1	6	7	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MOYES2	1		b	1	13	14	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MUMCUO	6		b	c	3	15	all	As:ME	1986	1994	CC	0	AnyHh	NoHhMemb	unspec	non	-
MURRAY	1	x	m	1	1	17	all	NAmer	1986	1990	CS	0	Mother	NotMothr	unspec	non	-
MURRAY	3	x	f	1	1	17	all	NAmer	1986	1990	CS	0	Mother	NotMothr	unspec	non	-
NHANE3	37	x	b	1	4	16	w+b	NAmer	1988	2001	CS	0	Biochem	Low	-	-	blood
NILSSO	1		b	1	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non	-
NITTA	1		b	c	7	12	all	As:FE	1995	1996	CS	5	AnyHh	NoHhMemb	current	non	-
OCONNE	1		b	1	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non	-
ODDY	1		b	1	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-
OHARA	5	x	b	c	3	12	all	As:FE	2001	2002	CS	0	AnyPar	NoParent	current	non	-
PALMIE	3		b	c	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non	-
PETERS	6		b	c	9	14	all	As:FE	1989	1996	Pr	6	AnyHh	NoHhMemb	current	non	-
PIC	1		b	c	5	15	all	Eu:wst	1999	2002	CS	0	AnyPar	NoParent	unspec	non	-
POKHAR	1	x	b	1	11	15	all	As:cen	1995	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
PONSON	7	x	b	1	0	7	all	Auslia	1988	2000	Pr	0	AnyHh	NoHhMemb	<1m	non	-
RASANE	1	x	b	1	16	16	all	Eu:Sca	1991	2000	CS	0	Mother	NotMothr	ever	never	-
RATAGE	1		b	1	5	15	all	As:cen	1996	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
RENNIE	1		b	1	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non	-
RIBETR	1		b	c	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non	-
RONCH1	3	x	m	1	6	13	all	Eu:Ita	1974	2001	CS	0	AnyHh	Low	current	non	-
RONCH1	6	x	f	1	6	13	all	Eu:Ita	1974	2001	CS	0	AnyHh	Low	current	non	-
RONCH2	3		b	1	6	14	all	Eu:Ita	1992	2001	CS	0	AnyHh	Low	current	non	-
RONCH3	3		b	1	6	14	all	Eu:Ita	1998	2001	CS	0	AnyHh	Low	current	non	-
RONMAR	4	x	b	1	7	10	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	non	-
ROSASV	1		b	1	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non	-
SARRAZ	1		b	c	6	10	all	SCAmer	*	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
SCHMIT	1		b	c	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non	-
SELCUK	1	x	b	1	7	12	all	Eu:est	1994	1997	CS	0	AnyHh	NoHhMemb	unspec	non	-
SENNHA	1		b	1	1	16	all	Eu:wst	1990	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
SHAMSS	2		b	1	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non	-
SHERMA	2		b	1	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never	-
SHOHAT	2	x	b	c	13	14	all	As:ME	1997	2002	CS	0	Mother	NotMothr	unspec	non	-
SIGURS	1		b	1	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non	-
SOTOQU	1		b	c	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non	-
SOYSET	2	x	b	1	7	13	all	Eu:Sca	1989	1995	CS	0	Mother	NotMothr	in life	non	-
SQUILL	1		b	1	8	12	all	NAmer	1992	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
STANHO	2		b	1	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non	-
STERN1	1		b	c	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non	-
STODDA	5	x	b	c	0	17	all	NAmer	1986	1995	CS	0	Mother	NotMothr	current	non	-
STRACH	3	x	b	c	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	current	non	-
TARIQ	10	x	b	c	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	NotMothr	in life	non	-
TAYLOR	4		b	1	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non	-
TIMONE	1		b	1	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	current	non	-
TOMINA	2		b	c	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non	-
TSIMOY	1		b	1	12	17	all	NAmer	1985	1987	CS	0	TotETS	None	current	non	-
VARELA	1		b	1	6	15	all	SCAmer	1999	2001	CS	0	AnyHh	NoHhMemb	unspec	non	-

Appendix Table A25 - 4

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

REF	NRR	X	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
VAVILI	1		b	1	6	15	all	Eu:est	*	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
VENNER	6		m	1	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VENNER	3		f	1	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VERHOE	3		b	1	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never	-
VONMAF	1		b	1	0	17	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	ever	never	-
WANG	1	x	b	c	11	16	all	As:FE	1995	1999	CS	0	AnyHh	NoHhMemb	unspec	non	-
WILLE1	7		b	c	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-
WITHER	1		b	1	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLFO1	2		b	1	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO2	2		b	1	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO3	2		b	1	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
YANG	1	x	b	c	6	12	all	As:FE	1994	1997	CS	0	AnyHh	NoHhMemb	unspec	non	-
ZEIGER	1		b	1	0	7	all	NAmer	1981	1995	Pr	0	AnyHh	NoHhMemb	unspec	non	-
ZHENG	7	x	b	c	6	10	all	As:FE	1999	2002	CC	0	AnyHh	NoHhMemb	in life	non	-

Appendix Table A25 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ADDOYO	1	b	0	13	5	23	33	3.73	(1.17- 11.91)
AGABI1	7	b	0	558	8013	148	2825	1.33	(1.10- 1.60)
AGABI2	7	b	0	700	7742	203	2837	1.26	(1.07- 1.49)
ALBA	1	b	0	68	70	34	32	0.91	(0.51- 1.64)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRAI	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	1	b	0	101	2034	148	2645	0.89	(0.68- 1.15)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80- 14.60)
BARRET	1	b	0	17	91	9	81	1.68	(0.71- 3.98)
BECKET	5	b	0	133	826	352	3223	1.47	(1.19- 1.83)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BERGMA	1	b	8	-	-	-	-	1.32	(0.88- 1.97)
BRABIN	1	b	0	204	932	114	569	1.09	(0.85- 1.41)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	6	b	0	28	25	74	80	1.21	(0.65- 2.26)
CALL	1	b	0	19	19	18	17	0.94	(0.38- 2.37)
CHEN1	1	b	0	64	1668	14	467	1.28	(0.71- 2.30)
CHEN2	11	b	0	32	252	61	547	1.14	(0.72- 1.79)
CHHABR	1	b	0	118	404	313	1733	1.62	(1.27- 2.05)
CLARK	2	b	0	13	23	6	20	1.88	(0.60- 5.88)
CSONKA	2	b	0	-	-	-	-	2.20	(1.30- 3.50)
CUNNI1	1	b	0	396	5339	412	5387	0.97	(0.84- 1.12)
DAIGLE	1	b	0	51	72	86	174	1.43	(0.92- 2.23)
DEKKER	3	b	0	386	4622	249	4585	1.54	(1.30- 1.81)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DIJKST	1	b	0	-	-	-	-	1.95	(0.91- 4.19)
DODGE	9	b	0	21	310	12	285	1.61	(0.78- 3.33)
DOLD	17	b	0	217	2307	295	3613	1.15	(0.96- 1.38)
DOTTER	1	m	6	-	-	-	-	0.50	(0.30- 1.00)
DOTTER	2	f	6	-	-	-	-	0.50	(0.20- 1.10)
Subtotal DOTTER								0.50	(0.31- 0.82)
ECE	3	b	0	298	1704	132	906	1.20	(0.96- 1.50)
EHRLI2	3	b	0	37	29	60	88	1.87	(1.04- 3.36)
FAGBUL	1	b	0	81	55	59	85	2.12	(1.32- 3.42)
FARBE2	1	b	0	109	707	116	1109	1.47	(1.12- 1.95)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FLYNN1	1	b	0	-	-	-	-	1.26	(0.95- 1.68)
FORAST	7	b	0	164	1800	52	781	1.37	(0.99- 1.89)
FORSB1	2	b	14	-	-	-	-	1.10	(0.70- 1.70)
FORSB2	2	b	14	-	-	-	-	0.70	(0.30- 1.60)
FORSB3	2	b	15	-	-	-	-	1.56	(1.18- 2.05)
FUJI	1	b	0	36	602	29	370	0.76	(0.46- 1.27)
GILLIL	59	m	0	149	725	266	1239	0.96	(0.77- 1.19)
GILLIL	68	f	0	130	865	162	1340	1.24	(0.97- 1.59)
Subtotal GILLIL								1.08	(0.91- 1.27)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	3	b	0	80	766	50	514	1.07	(0.74- 1.56)
GOREN2	2	b	0	203	1505	461	4103	1.20	(1.01- 1.43)
GORTM1	1	b	0	97	1158	91	1726	1.59	(1.18- 2.14)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
GUPTA	1	b	0	84	2490	121	6395	1.78	(1.34- 2.36)
GURKAN	1	b	0	50	22	90	74	1.87	(1.04- 3.37)
HABY	2	b	0	86	299	104	485	1.34	(0.97- 1.85)
HAJNAL	1	b	13	-	-	-	-	1.20	(0.94- 1.54)
HJERN1	5	b	0	61	1346	58	1078	0.84	(0.58- 1.22)
HJERN2	5	b	0	44	977	34	884	1.17	(0.74- 1.85)
HOST	1	b	0	20	457	14	285	0.89	(0.44- 1.79)
HU1	2	b	0	45	131	62	220	1.22	(0.78- 1.89)
HU2	21	b	0	52	240	101	1083	2.32	(1.62- 3.34)
INFANT	3	b	0	183	167	273	289	1.16	(0.89- 1.52)
JAAKKO	1	b	0	71	932	93	1427	1.17	(0.85- 1.61)
JENKIN	1	m	0	310	1159	502	2367	1.26	(1.08- 1.48)
JENKIN	3	f	0	224	1208	313	2448	1.45	(1.21- 1.74)
Subtotal JENKIN								1.34	(1.19- 1.51)

Appendix Table A25 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
KARUNA	1	b	0	130	121	170	179	1.13	(0.82- 1.57)
KAY	7	b	0	103	348	108	518	1.42	(1.05- 1.92)
KENDIR	1	b	0	-	-	-	-	1.41	(1.16- 1.72)
KERSHA	3	b	0	71	714	15	485	3.22	(1.82- 5.68)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	2	b	0	28	282	134	957	0.71	(0.46- 1.09)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	4	b	0	163	1956	201	2162	0.90	(0.72- 1.11)
LAM2	1	b	4	-	-	-	-	0.91	(0.69- 1.18)
LAU	1	b	0	19	247	9	158	1.35	(0.60- 3.06)
LEE1	1	b	8	-	-	-	-	1.37	(1.24- 1.51)
LEE2	1	b	8	-	-	-	-	0.99	(0.87- 1.13)
*LEEDER	1	b	0	48	1433	11	445	1.36	(0.71- 2.59)
LEEN	1	b	0	46	45	69	51	0.76	(0.44- 1.31)
LEROUX	1	b	0	39	374	58	722	1.30	(0.85- 1.98)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81- 1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15- 2.37)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	1	b	0	-	-	-	-	1.47	(1.19- 1.83)
MAIER	6	b	0	33	145	73	674	2.10	(1.34- 3.29)
*MARTIN	1	m	0	17	80	41	315	1.63	(0.98- 2.72)
*MARTIN	2	f	0	8	63	20	281	1.78	(0.82- 3.87)
Subtotal	MARTIN							1.68	(1.10- 2.57)
MCCON2	2	b	0	2	45	13	163	0.56	(0.12- 2.56)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MELSOM	5	m	0	-	-	-	-	3.00	(1.30- 6.70)
MELSOM	6	f	0	-	-	-	-	1.00	(0.30- 3.10)
Subtotal	MELSOM							2.09	(1.07- 4.08)
MOHAME	1	b	0	-	-	-	-	1.60	(0.80- 3.20)
MOUSSA	1	b	0	1	0	202	203	3.01	(0.12- 74.44)
MOYES1	1	b	0	358	1017	295	886	1.06	(0.88- 1.26)
MOYES2	1	b	0	363	1285	252	842	0.94	(0.79- 1.13)
MUMCUO	6	b	0	181	62	119	38	0.93	(0.59- 1.48)
MURRAY	1	m	0	50	34	153	149	1.43	(0.88- 2.34)
MURRAY	3	f	0	22	29	67	116	1.31	(0.70- 2.47)
Subtotal	MURRAY							1.39	(0.94- 2.04)
NHANE3	37	b	0	424	3344	175	1457	1.06	(0.88- 1.27)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
NITTA	1	b	5	-	-	-	-	0.91	(0.54- 1.53)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*ODDY	1	b	4	-	-	-	-	1.27	(1.04- 1.55)
OHARA	5	b	0	82	1214	59	786	0.90	(0.64- 1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70- 1.42)
PETERS	6	b	6	-	-	-	-	0.86	(0.64- 1.15)
PIC	1	b	0	51	829	60	1069	1.10	(0.75- 1.61)
POKHAR	1	b	0	27	35	13	45	2.67	(1.21- 5.92)
*PONSON	7	b	0	185	558	88	293	1.10	(0.89- 1.36)
RASANE	1	b	0	101	2055	76	2306	1.49	(1.10- 2.02)
RATAGE	1	b	0	62	30	58	30	1.07	(0.58- 1.99)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59- 2.41)
RONCH1	3	m	0	23	235	48	790	1.61	(0.96- 2.70)
RONCH1	6	f	0	17	226	35	764	1.64	(0.90- 2.99)
Subtotal	RONCH1							1.62	(1.10- 2.40)
RONCH2	3	b	0	60	351	93	726	1.33	(0.94- 1.89)
RONCH3	3	b	0	40	312	91	696	0.98	(0.66- 1.46)
*RONMAR	4	b	0	-	-	-	-	1.12	(0.72- 1.73)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SARRAZ	1	b	0	6	8	8	13	1.22	(0.31- 4.83)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SELCUK	1	b	0	689	3248	193	1282	1.41	(1.19- 1.67)
SENNHA	1	b	0	119	1631	132	2268	1.25	(0.97- 1.62)
SHAMSS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
SHOHAT	2	b	0	187	1762	493	7207	1.55	(1.30- 1.85)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14- 2.04)

Appendix Table A25 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
SOYSET 2		b	0	35	297	16	270	1.99	(1.08- 3.67)
SQUILL 1		b	0	38	80	97	226	1.11	(0.70- 1.74)
STANHO 2		b	0	7	169	20	193	0.40	(0.16- 0.97)
STERN1 1		b	0	21	499	29	768	1.11	(0.63- 1.98)
STODDA 5		b	0	224	1779	443	4826	1.37	(1.16- 1.63)
STRACH 3		b	0	122	93	364	382	1.38	(1.01- 1.87)
TARIQ 10		b	0	48	259	133	778	1.08	(0.76- 1.55)
*TAYLOR 4		b	0	-	4855	-	4815	0.96	(0.77- 1.22)
TIMONE 1		b	0	10	225	170	2139	0.56	(0.29- 1.07)
TOMINA 2		b	0	2	479	24	1995	0.35	(0.08- 1.47)
TSIMOY 1		b	0	9	123	4	57	1.04	(0.31- 3.53)
VARELA 1		b	0	27	13	7	10	2.97	(0.92- 9.57)
VAVILI 1		b	0	60	74	40	30	0.61	(0.34- 1.09)
VENNER 6		m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER 3		f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE 3		b	0	78	185	39	72	0.78	(0.49- 1.25)
VONMAF 1		b	0	166	766	217	1260	1.26	(1.01- 1.57)
WANG 1		b	0	12212	79154	8425	55493	1.02	(0.99- 1.05)
WILLE1 7		b	0	37	47	12	30	1.97	(0.89- 4.36)
WITHER 1		b	0	202	633	296	1107	1.19	(0.97- 1.46)
WOLFO1 2		b	7	-	-	-	-	1.12	(0.63- 1.98)
WOLFO2 2		b	7	-	-	-	-	1.35	(0.75- 2.43)
WOLFO3 2		b	10	-	-	-	-	1.39	(0.93- 2.06)
YANG 1		b	0	90	2471	76	1527	0.73	(0.54- 1.00)
*ZEIGER 1		b	0	8	22	42	143	1.24	(0.67- 2.28)
ZHENG 7		b	0	285	501	118	305	1.47	(1.14- 1.90)
Partial Totals				27347	187480	24356	189387		
*prospective study									~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO 1		b	0	1.32	2.85	3.91	0.0262
AGABI1 7		b	0	0.28	110.77	2.12	0.0027
AGABI2 7		b	0	0.23	146.28	1.13	0.0047
ALBA 1		b	0	-0.09	11.15	0.62	0.7647
ALDAWO 2		m	0	0.76	8.40	3.18	0.0274
ALFRA1 2		b	0	0.41	22.65	1.60	0.0498
ANDRAE 1		b	0	-0.12	57.05	4.03	0.3670
ANNESI 1		b	0	0.25	89.09	1.03	0.0166
ARSHAD 1		b	7	1.20	1.82	2.03	0.1044
BARRET 1		b	0	0.52	5.17	0.72	0.2373
BECKET 5		b	0	0.39	84.17	4.93	0.0004
BENER 1		b	0	0.24	19.32	0.18	0.2839
BERGMA 1		b	8	0.28	23.66	0.41	0.1769
BRABIN 1		b	0	0.09	60.59	0.20	0.4910
BURCHF 5		m	1	0.22	32.51	0.15	0.2200
BURCHF 8		f	1	0.00	24.97	0.53	1.0000
Subtotal BURCHF				-0.08	57.49	0.69	
BUTZ 6		b	0	0.19	9.83	0.02	0.5487
CALL 1		b	0	-0.06	4.55	0.19	0.9029
CHEN1 1		b	0	0.25	11.14	0.11	0.4102
CHEN2 11		b	0	0.13	18.71	0.00	0.5742
CHHABR 1		b	0	0.48	67.93	7.60	0.0001
CLARK 2		b	0	0.63	2.97	0.70	0.2753
CSONKA 2		b	0	0.79	15.67	6.46	0.0018
CUNNI1 1		b	0	-0.03	187.78	5.88	0.6744
DAIGLE 1		b	0	0.36	19.66	0.90	0.1106
DEKKER 3		b	0	0.43	142.02	11.46	0.0000
DELL 2		b	0	0.42	18.30	1.36	0.0733
DIJKST 1		b	0	0.67	6.59	1.79	0.0865
DODGE 9		b	0	0.48	7.26	0.79	0.2000
DOLD 17		b	0	0.14	114.83	0.00	0.1294
DOTTER 1		m	6	-0.69	10.60	7.47	0.0240
DOTTER 2		f	6	-0.69	5.29	3.73	0.1110
Subtotal DOTTER				-1.68	15.89	11.19	
ECE 3		b	0	0.18	79.23	0.10	0.1041
EHRLI2 3		b	0	0.63	11.17	2.58	0.0363

Appendix Table A25 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
FAGBUL	1	b	0	0.75	16.88	6.20	0.0020
FARBE2	1	b	0	0.39	49.72	2.91	0.0062
FAROOQ	1	b	0	0.25	72.93	0.86	0.0297
*FERGUS	7	b	0	0.04	37.52	0.43	0.8106
FLYNN1	1	b	0	0.23	47.28	0.34	0.1120
FORAST	7	b	0	0.31	36.81	1.03	0.0570
FORSB1	2	b	14	0.10	19.52	0.05	0.6737
FORSB2	2	b	14	-0.36	5.48	1.39	0.4036
FORSB3	2	b	15	0.44	50.37	4.49	0.0016
FUJI	1	b	0	-0.27	15.01	2.61	0.2946
GILLIL	59	m	0	-0.04	79.01	2.85	0.6979
GILLIL	68	f	0	0.22	63.42	0.32	0.0831
Subtotal	GILLIL			-0.12	142.43	3.17	
GOLD	11	b	0	0.26	211.41	2.53	0.0002
GOREN1	3	b	0	0.07	27.97	0.16	0.7071
GOREN2	2	b	0	0.18	124.95	0.17	0.0411
GORTM1	1	b	0	0.46	43.97	4.41	0.0021
GORTM2	1	b	0	0.63	6.99	1.61	0.0978
GUPTA	1	b	0	0.58	48.25	9.01	0.0001
GURKAN	1	b	0	0.63	11.10	2.55	0.0372
HABY	2	b	0	0.29	37.52	0.82	0.0720
HAJNAL	1	b	13	0.18	63.05	0.08	0.1477
HJERN1	5	b	0	-0.17	28.32	2.86	0.3611
HJERN2	5	b	0	0.16	18.42	0.00	0.4983
HOST	1	b	0	-0.12	7.87	0.54	0.7459
HU1	2	b	0	0.20	19.79	0.05	0.3785
HU2	21	b	0	0.84	29.22	14.19	0.0000
INFANT	3	b	0	0.15	53.83	0.00	0.2761
JAAKKO	1	b	0	0.16	37.58	0.00	0.3387
JENKIN	1	m	0	0.23	153.77	1.13	0.0040
JENKIN	3	f	0	0.37	112.42	5.72	0.0001
Subtotal	JENKIN			0.31	266.19	6.85	
JONES	2	b	0	0.16	9.47	0.00	0.6266
KARUNA	1	b	0	0.12	36.46	0.02	0.4564
KAY	7	b	0	0.35	42.07	1.75	0.0231
KENDIR	1	b	0	0.34	99.03	3.86	0.0006
KERSHA	3	b	0	1.17	11.87	12.39	0.0001
KIVITY	4	b	0	0.59	13.44	2.62	0.0311
KUEHR	2	b	0	-0.34	20.93	5.03	0.1158
KUHR	4	b	0	0.70	5.57	1.69	0.0997
LAM1	4	b	0	-0.11	82.75	5.41	0.3195
LAM2	1	b	4	-0.09	53.37	3.09	0.4908
LAU	1	b	0	0.30	5.74	0.14	0.4716
LEE1	1	b	8	0.31	395.94	11.25	0.0000
LEE2	1	b	8	-0.01	224.74	5.49	0.8802
*LEEDER	1	b	0	0.30	9.19	0.23	0.3569
LEEN	1	b	0	-0.28	12.81	2.33	0.3157
LEROUX	1	b	0	0.26	21.30	0.28	0.2285
LILLJE	1	b	0	0.09	42.18	0.16	0.5801
LINDFO	1	b	0	0.50	29.55	3.71	0.0065
LIS	1	b	0	0.31	37.30	0.97	0.0604
LISTER	1	b	0	0.39	82.96	4.74	0.0004
MAIER	6	b	0	0.74	19.09	6.79	0.0012
*MARTIN	1	m	0	0.49	14.81	1.75	0.0593
*MARTIN	2	f	0	0.58	6.43	1.20	0.1422
Subtotal	MARTIN			0.78	21.23	2.96	
MCCON2	2	b	0	-0.58	1.65	0.88	0.4523
*MCKEEV	4	b	0	0.27	1119.12	17.38	0.0000
MELSOM	5	m	0	1.10	5.71	5.18	0.0086
MELSOM	6	f	0	0.00	2.82	0.06	1.0000
Subtotal	MELSOM			0.81	8.53	5.24	
MOHAME	1	b	0	0.47	8.00	0.84	0.1838
MOUSSA	1	b	0	1.10	0.37	0.34	0.5000
MOYES1	1	b	0	0.06	120.55	0.99	0.5411
MOYES2	1	b	0	-0.06	115.09	4.79	0.5355
MUMCUO	6	b	0	-0.07	17.74	0.83	0.7676
MURRAY	1	m	0	0.36	15.96	0.72	0.1513
MURRAY	3	f	0	0.27	9.66	0.15	0.3967
Subtotal	MURRAY			0.34	25.62	0.88	

Appendix Table A25 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
NHANE3	37	b	0	0.05	110.40	0.94	0.5693
NILSSO	1	b	0	0.00	31.98	0.68	1.0000
NITTA	1	b	5	-0.09	14.17	0.82	0.7226
OCONNE	1	b	0	0.25	33.98	0.40	0.1384
*ODDY	1	b	4	0.24	96.50	0.83	0.0189
OHARA	5	b	0	-0.11	32.01	2.03	0.5504
PALMIE	3	b	0	-0.00	30.71	0.66	0.9963
PETERS	6	b	6	-0.15	44.74	3.95	0.3131
PIC	1	b	0	0.09	26.03	0.08	0.6397
POKHAR	1	b	0	0.98	6.07	4.24	0.0155
*PONSON	7	b	0	0.10	86.48	0.19	0.3581
RASANE	1	b	0	0.40	41.70	2.68	0.0099
RATAGE	1	b	0	0.07	10.00	0.06	0.8330
RENNIE	1	b	6	0.02	13.41	0.21	0.9422
RIBEIR	1	b	0	0.18	7.76	0.01	0.6116
RONCH1	3	m	0	0.48	14.32	1.56	0.0712
RONCH1	6	f	0	0.50	10.74	1.31	0.1042
Subtotal	RONCH1			0.68	25.06	2.88	
RONCH2	3	b	0	0.29	31.60	0.64	0.1048
RONCH3	3	b	0	-0.02	24.61	0.68	0.9224
*RONMAR	4	b	0	0.11	20.00	0.02	0.6123
ROSASV	1	b	0	0.45	3.25	0.30	0.4168
SARRAZ	1	b	0	0.20	2.03	0.01	0.7783
SCHMIT	1	b	4	0.73	13.33	4.51	0.0079
SELCUK	1	b	0	0.34	129.52	5.01	0.0001
SENNHA	1	b	0	0.23	58.71	0.37	0.0833
SHAMSS	2	b	0	0.33	79.17	2.65	0.0034
*SHERMA	2	b	2	0.17	19.90	0.01	0.4603
SHOHAT	2	b	0	0.44	123.73	10.62	0.0000
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOTOQU	1	b	0	0.42	46.33	3.55	0.0040
SOYSET	2	b	0	0.69	10.19	2.98	0.0282
SQUILL	1	b	0	0.10	18.67	0.04	0.6613
STANHO	2	b	0	-0.92	4.90	5.54	0.0423
STERN1	1	b	0	0.11	11.71	0.02	0.7107
STODDA	5	b	0	0.32	133.49	3.85	0.0003
STRACH	3	b	0	0.32	41.13	1.24	0.0403
TARIQ	10	b	0	0.08	29.85	0.13	0.6591
*TAYLOR	4	b	0	-0.04	72.55	2.54	0.7281
TIMONE	1	b	0	-0.58	9.03	4.78	0.0808
TOMINA	2	b	0	-1.06	1.84	2.67	0.1515
TSIMOY	1	b	0	0.04	2.59	0.03	0.9464
VARELA	1	b	0	1.09	2.80	2.48	0.0687
VAVILI	1	b	0	-0.50	11.30	4.68	0.0945
VENNER	6	m	0	0.09	27.66	0.07	0.6182
VENNER	3	f	0	0.18	28.98	0.03	0.3399
Subtotal	VENNER			-0.02	56.63	0.10	
VERHOE	3	b	0	-0.25	17.31	2.73	0.2972
VONMAF	1	b	0	0.23	78.55	0.55	0.0417
WANG	1	b	0	0.02	4324.61	73.25	0.2904
WILLE1	7	b	0	0.68	6.06	1.71	0.0955
WITHER	1	b	0	0.18	92.49	0.09	0.0890
WOLFO1	2	b	7	0.11	11.72	0.01	0.6981
WOLFO2	2	b	7	0.30	11.12	0.26	0.3170
WOLFO3	2	b	10	0.33	24.30	0.81	0.1046
YANG	1	b	0	-0.31	39.48	8.30	0.0498
*ZEIGER	1	b	0	0.21	10.38	0.05	0.4914
ZHENG	7	b	0	0.39	57.94	3.32	0.0033

Appendix Table A25 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

RR data

	N	154
	NS	145
	Wt	11905.13
Het	Chi	425.46
Het	df	153
Het	P	***
Fixed	RR	1.16
	RRl	1.14
	RRu	1.18
	P	+++
Random	RR	1.24
	RRl	1.19
	RRu	1.29
	P	+++
Asymm	P	***

Appendix Table A25 - 6

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

RR data

	N	154						
	NS	145						
	Wt	11905.13						
Het	Chi	425.46						
Het	df	153						
Het	P	***						
Fixed	RR	1.16						
	RRl	1.14						
	RRu	1.18						
	P	+++						
Random	RR	1.24						
	RRl	1.19						
	RRu	1.29						
	P	+++						
Asymm	P	***						
			<u>Sex</u>					
		both	male	female	Total			
	N	135	10	9	154			
	NS	135	10	9	154			
	Wt	11277.65	362.75	264.72	11905.13			
Het	Chi	388.15	23.54	9.65	425.46			
Het	df	134	9	8	153			
Het	P	***	**	N.S.	***			
Fixed	RR	1.15	1.20	1.30	1.16			
	RRl	1.13	1.09	1.15	1.14			
	RRu	1.17	1.33	1.46	1.18			
	P	+++	+++	+++	+++			
Random	RR	1.24	1.26	1.27	1.24			
	RRl	1.18	1.03	1.09	1.19			
	RRu	1.29	1.54	1.47	1.29			
	P	+++	+	++	+++			
Between	Chi				4.12			
Between	df				2			
Between	P				N.S.			
						<u>Continent</u>		
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	37	5	66	32	11	3	154
	NS	33	5	64	30	10	3	145
	Wt	1618.98	62.17	3405.33	5895.92	895.00	27.73	11905.13
Het	Chi	61.54	1.79	115.35	126.85	24.57	1.53	425.46
Het	df	36	4	65	31	10	2	153
Het	P	**	N.S.	***	***	**	N.S.	***
Fixed	RR	1.27	1.52	1.26	1.06	1.20	2.07	1.16
	RRl	1.21	1.18	1.22	1.04	1.12	1.43	1.14
	RRu	1.33	1.95	1.30	1.09	1.28	3.01	1.18
	P	+++	++	+++	+++	+++	+++	+++
Random	RR	1.30	1.52	1.23	1.18	1.19	2.07	1.24
	RRl	1.21	1.18	1.16	1.07	1.07	1.43	1.19
	RRu	1.40	1.95	1.30	1.29	1.32	3.01	1.29
	P	+++	++	+++	+++	++	+++	+++
Between	Chi							93.82
Between	df							5
Between	P							***

Appendix Table A25 - 6

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

Start year of study
 <1970 1970-79 1980-89 1990+ unknown Total

RR data

	N	6	15	40	75	18	154
NS	4	13	39	71	18	145	
Wt	366.85	541.41	1692.98	7603.18	1700.71	11905.13	
Het Chi	3.30	22.86	83.85	212.06	51.32	425.46	
Het df	5	14	39	74	17	153	
Het P	N.S.	(*)	***	***	***	***	
Fixed RR	1.30	1.25	1.25	1.10	1.28	1.16	
RRl	1.17	1.15	1.19	1.08	1.22	1.14	
RRu	1.44	1.36	1.31	1.13	1.34	1.18	
P	+++	+++	+++	+++	+++	+++	
Random RR	1.30	1.25	1.30	1.19	1.28	1.24	
RRl	1.17	1.09	1.20	1.13	1.12	1.19	
RRu	1.44	1.42	1.41	1.26	1.46	1.29	
P	+++	+++	+++	+++	+++	+++	
Between Chi						52.06	
Between df						4	
Between P						***	

Study type
 CC Pr CS Total

	N	35	20	99	154
NS	34	19	92	145	
Wt	916.32	1881.67	9107.13	11905.13	
Het Chi	59.09	32.82	289.29	425.46	
Het df	34	19	98	153	
Het P	**	*	***	***	
Fixed RR	1.33	1.27	1.12	1.16	
RRl	1.25	1.21	1.10	1.14	
RRu	1.42	1.33	1.14	1.18	
P	+++	+++	+++	+++	
Random RR	1.33	1.23	1.22	1.24	
RRl	1.20	1.12	1.16	1.19	
RRu	1.47	1.34	1.28	1.29	
P	+++	+++	+++	+++	
Between Chi				44.25	
Between df				2	
Between P				***	

Appendix Table A25 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma (or Current if Lifetime not available)
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
2	CUNNI2	KAPLAN	KELLY	NYSTAD	OLIVET	WEITZ1	WEITZ2	XU								
3	CHINN	EHRLI1	KNIGHT	SOMERV												
4	AKCAKA	AZIZI	BALL	BURR	DEBENE	DEKOK	FIELDE	FLYNN2	GOREN3	GOREN4	GOREN5	GOREN6	HUGHES	KALYO1	KALYO2	KEARNE
	LOPEZC	MELIA	MONTEF	RUDNIK	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	ZEJDA					
15	ALFRA2	FARBE1	FARBE3	MCCON1	SPIEKE	WILLE2										

Appendix Table A25 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP		Adjusted - insufficient data for metaanalysis															RR	SIG
REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG			
GILLIL	GILLIL		1			MCCON1/GILLIL															
FARBE2	FARBE2		1			FARBE1/FARBE2/FARBE3															
BRABIN	BRABIN		1			KELLY/BRABIN															
HJERN1	HJERN1		1			HJERN1/HJERN2															
HJERN2	HJERN2		1			HJERN1/HJERN2															
STERN1	STERN1		1			STERN1/STERN2															
KUEHR	KUEHR		1			KUEHR/SPIEKE															
FORSB3	FORSB3		1			FORSB3/WILLE2															
ALFRA1	ALFRA1		1			ALFRA1/ALFRA2															
GOREN1	GOREN1		1			GOREN1/GOREN3/4/5/6															
WOLFO1	WOLFO1		1			WOLFO1/WOLFO2/WOLFO3															
WOLFO2	WOLFO2		1			WOLFO1/WOLFO2/WOLFO3															
WOLFO3	WOLFO3		1			WOLFO1/WOLFO2/WOLFO3															
Adjusted - insufficient data for metaanalysis																					
ADDOYO	2	b	c	8	17	all Africa	*	2001		CC	4	AnyHh	NoHhMemb	unspec	non	-	*	n			
AKCAKA	1	b	l	6	15	all Eu:est		1996	2000	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n			
ALFRA1	4	b	l	7	12	all As:ME		1986	1990	CS	6	Mother	NotMothr	unspec	non	-	1.01	?			
ARSHAD	7	b	c	4	4	all Eu:UK		1990	1992	Pr	0	AnyPar	NoParent	unspec	non	-	*	n			
AZIZI	1	b	c	0	5	all As:cen		1989	1995	CC	0	Father	NoParent	unspec	non	-	*	n			
BALL	1	b	c	6	13	all NAmer		1980	2000	Pr	0	AnyPar	NoParent	unspec	non	-	*	n			
BRABIN	3	b	l	5	11	all Eu:UK		1991	1994	CS	6	AnyHh	NoHhMemb	unspec	non	-	*	n			
BURR	1	b	l	0	7	all Eu:UK		1982	1993	Pr	0	AnyPar	NoParent	unspec	non	-	*	n			
DEBENE	1	b	l	6	12	all Eu:Ita		*	1994	CS	0	Mother	NotMothr	unspec	non	-	1.46	y			
DEKOK	1	b	c	6	12	all Eu:wst		1993	1996	CS	6	Mother	NotMothr	unspec	non	-	*	n			
DIJKST	3	b	c	6	12	all Eu:wst		1986	1990	CS	12	AnyHh	NoHhMemb	current	non	-	1.77	n			
ECE	8	b	l	6	15	all Eu:est		1999	2001	CS	3	AnyHh	NoHhMemb	current	non	-	*	n			
FIELDE	1	b	l	8	11	all Eu:UK		1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n			
FLYNN2	1	b	l	9	10	all Auslia		1991	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n			
GOREN3	1	b	l	13	14	all As:ME		1980	1997	CS	5	Mother	NotMothr	current	non	-	*	n			
GOREN6	1	b	l	13	14	all As:ME		1989	1997	CS	5	Mother	NotMothr	current	non	-	1.67	y			
HUGHES	1	b	c	4	16	all Eu:UK		1993	1995	CC	0	AnyPar	NoParent	unspec	non	-	*	n			
KALYO1	1	b	l	6	12	all Eu:est		1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n			
KALYO2	1	b	c	6	13	all Eu:est		1997	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n			
KARUNA	2	b	c	1	10	all As:cen		1996	2001	CC	10	TotETS	None	current	non	-	*	n			
KEARNE	1	m	l	6	12	all Eu:wst		1997	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n			
KIVITY	5	b	l	8	17	all As:ME		*	2001	CS	4	AnyPar	NoParent	unspec	non	-	*	y			
LEEDER	3	b	l	0	5	all Eu:UK		1963	1976	Pr	9	AnyPar	NoParent	in life	non	-	*	n			
LISTER	9	b	l	0	4	all Auslia		1989	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n			
LOPEZC	3	b	c	6	10	all SCAmer		*	2001	CC	0	Mother	NotMothr	ev not preg	non	-	1.06	n			
MELIA	1	b	c	5	11	all Eu:UK		1977	1981	CS	0	AnyHh	NoHhMemb	current	non	-	*	y			
MOHAME	5	b	c	9	11	all Africa		1990	1995	CC	4	AnyHh	NoHhMemb	unspec	non	-	*	n			
MONTEF	1	b	l	5	8	all Eu:wst		*	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n			
PALMIE	10	b	c	1	12	all Eu:Ita		*	1990	CC	5	AnyPar	NoParent	unspec	non	-	*	y			
RASANE	2	b	l	16	16	all Eu:Sca		1991	2000	CS	0	AnyPar	NoParent	<7y	non	-	*	n			
RUDNIK	1	b	l	8	10	all Eu:est		1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	0.74	?			
RUDNIK	2	b	l	11	13	all Eu:est		1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.43	?			
RUDNIK	3	b	l	14	16	all Eu:est		1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.09	?			
SANZOR	1	b	l	7	14	all Eu:wst		*	1990	CS	0	AnyPar	NoParent	unspec	non	-	*	n			
SCHENK	1	b	l	5	14	all NAmer		1979	1983	CS	3	Mother	NotMothr	unspec	non	-	*	n			
STAZI	7	b	l	0	5	all Eu:Ita		1993	2002	CS	7	Mother	NotMothr	in life	non	-	*	n			
STERN2	7	b	l	7	12	all NAmer		*	1989	CS	0	Mother	NotMothr	<2y	non	-	1.35	y			
STRACH	15	b	c	13	18	all Eu:UK		1993	1995	CC	0	Mother	NotMothr	<1m	non	-	*	y			
TIMONE	2	b	l	7	12	all Eu:Sca		1993	1995	CS	0	AnyHh	NoHhMemb	<2y	non	-	*	n			
ULRIK	1	b	l	7	23	all Eu:Sca		1986	1996	Pr	4	AnyPar	NoParent	unspec	non	-	*	n			
VOLKME	2	b	l	4	5	all Auslia		1993	1995	CS	7	AnyPar	NoParent	unspec	non	-	*	n			
ZEIGER	3	b	l	0	7	all NAmer		1981	1995	Pr	4	AnyHh	NoHhMemb	unspec	non	-	*	n			
ZEJDA	1	b	l	7	9	all Eu:est		*	1996	CS	3	AnyPar	NoParent	unspec	non	-	*	n			
Unadjusted - insufficient data for metaanalysis: as for adjusted plus the following																					
STAZI	2	b	l	0	5	all Eu:Ita		1993	2002	CS	2	Mother	NotMothr	in life	non	-	*	n			
VOLKME	1	b	l	4	5	all Auslia		1993	1995	CS	0	AnyPar	NoParent	unspec	non	-	*	n			

Appendix Table A26 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma (or Current if Lifetime not available)

This analysis is restricted to results for:

- 1) Parental exposure
- 2) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 3) Results not by amount of exposure
- 4) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 5) ASTHMA : lifetime, current
- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : not specific parent, neither parent, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A5 - 1 are marked 'x' in Section -1) and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A26 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

REF	NRR	CompA5	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	14	x	b	c	6	7	all	Eu:Ita	1994	1999	CC	11	AnyPar	NoParent	current	never
AGABI2	14	x	b	c	13	14	all	Eu:Ita	1994	1999	CC	12	AnyPar	NoParent	current	never
ALBA	2		b	l	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAWO	2		m	l	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never
ALFRA1	2		b	l	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non
ANDRAE	2		b	l	0	16	all	Eu:Sca	1985	1988	CS	3	AnyPar	NoParent	in life	non
ANNESI	1		b	l	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non
ARSHAD	1	x	b	c	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non
BENER	1		b	l	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non
BURCHF	5		m	l	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BURCHF	8		f	l	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BUTZ	4		b	l	*	*	all	NAmer	1989	1992	CC	0	AnyPar	NotSpPar	ever	never
CHEN2	34		b	l	6	17	all	NAmer	1993	1996	CS	6	Mother	NotMothr	ever	never
DAIGLE	3	x	b	c	0	*	all	NAmer	1986	1991	CC	7	Mother	NotMothr	unspec	non
DELL	2		b	l	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non
DODGE	12		b	l	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non
DOLD	7		b	l	9	11	all	Eu:Ger	1989	1992	CS	0	AnyPar	NoParent	unspec	non
ECE	7		b	l	6	15	all	Eu:est	1999	2001	CS	0	Mother	NotMothr	current	non
EHRLI2	4		b	l	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	ever	never
FAGBUL	2	x	b	c	0	18	all	Africa	*	1994	CC	1	AnyPar	NoParent	unspec	non
FARBE2	2		b	l	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non
FAROOQ	1		b	l	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never
FERGUS	7		b	l	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non
FORAST	20		b	l	7	11	all	Eu:Ita	1987	1992	CS	9	AnyPar	NoParent	unspec	non
GILLIL	36	x	b	c	7	19	all	NAmer	1993	2001	CS	8	Mother	NoHhMemb	current	non
GOLD	11		b	l	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non
GOREN1	4		b	l	7	11	all	As:ME	1980	1986	CS	0	Mother	NotMothr	current	non
GOREN2	5		b	l	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never
GORTM1	3		b	l	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non
GORTM2	1		b	l	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non
HABY	4	x	b	c	3	5	all	Auslia	1995	2001	CS	9	AnyPar	NoParent	<6m	non
HAJNAL	3		b	l	6	14	all	Eu:wst	1992	1999	CS	13	Mother	NotMothr	current	non
HJERN1	13	x	b	c	3	15	all	Eu:Sca	1996	2001	CS	9	Mother	NotMothr	ever	never
HJERN2	13	x	b	c	3	15	all	Eu:Sca	1996	2001	CS	9	Father	NotFathr	ever	never
HOST	1	x	b	c	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non
HU1	4		b	l	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non
HU2	23		b	l	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non
INFANT	10	x	b	c	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non
JENKIN	5		b	l	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non
JONES	2	x	b	c	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non
KAY	20		b	l	3	11	all	Eu:UK	*	1995	CS	1	AnyPar	NoParent	unspec	non
KERSHA	5		b	l	0	5	all	Eu:UK	1983	1987	CC	1	Mother	LowMothr	<3y	non
KIVITY	4		b	l	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non
KUEHR	6		b	l	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non
KUHR	4		b	l	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non
LAM1	18		b	l	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	9		b	l	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LAU	1	x	b	c	3	10	all	As:FE	1989	1995	CS	0	AnyPar	NoParent	current	non
LEEDER	2		b	l	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non
LEEN	1	x	b	c	9	9	all	Eu:wst	1991	1994	CC	0	AnyPar	NoParent	unspec	non
LEROUX	2		b	l	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non
LILLJE	1	x	b	c	7	10	all	Eu:Sca	1991	1997	CS	0	AnyPar	NoParent	unspec	non
LINDFO	1	x	b	c	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non
LIS	1		b	l	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non
LISTER	3		b	l	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non
MARTIN	5		m	l	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MARTIN	6		f	l	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MCCON2	1		b	l	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non
MCKEEV	4		b	l	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never
MOUSSA	1	x	b	c	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCUO	2	x	b	c	3	15	all	As:ME	1986	1994	CC	0	Mother	NotMothr	unspec	non
MURRAY	5		m	l	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
MURRAY	7		f	l	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
NILSSO	1		b	l	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non
OCONE	1		b	l	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non
OHARA	6	x	b	c	3	12	all	As:FE	2001	2002	CS	4	AnyPar	NoParent	current	non
PALMIE	3	x	b	c	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non
PIC	1	x	b	c	5	15	all	Eu:wst	1999	2002	CS	0	AnyPar	NoParent	unspec	non
PONSON	4		b	l	0	7	all	Auslia	1988	2000	Pr	6	Mother	NotMothr	<1m	non
RASANE	3		b	l	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never

Appendix Table A26 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

REF	NRR	CompA5	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
RATAGE	2		b	1	5	15	all	As:cen	1996	2000	CC	0	Father	NotFathr	unspec	non
RENNIE	1		b	1	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non
RIBEIR	1	x	b	c	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non
RONMAR	5		b	1	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non
ROSASV	1		b	1	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non
SCHMIT	1	x	b	c	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHAMSS	2		b	1	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non
SHERMA	2		b	1	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never
SHOHAT	4	x	b	c	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non
SIGURS	1		b	1	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non
SOTOQU	1	x	b	c	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non
SOYSET	14		b	1	7	13	all	Eu:Sca	1989	1995	CS	5	Mother	NotMothr	in life	non
STANHO	2		b	1	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
STERN1	1	x	b	c	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non
STODDA	10	x	b	c	0	17	all	NAmer	1986	1995	CS	9	Mother	NotMothr	current	non
STRACH	9	x	b	c	13	18	all	Eu:UK	1993	1995	CC	4	Mother	NotMothr	current	non
TARIQ	12	x	b	c	4	4	all	Eu:UK	1989	2000	Pr	1	Mother	NotMothr	in life	non
TAYLOR	4		b	1	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non
TOMINA	2	x	b	c	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non
VENNER	6		m	1	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VENNER	3		f	1	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VERHOE	3		b	1	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never
WILLE1	7	x	b	c	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non
WITHER	6		b	1	14	16	all	Eu:UK	1995	1998	CS	5	Mother	NotMothr	current	non
ZHENG	26	x	b	c	6	10	all	As:FE	1999	2002	CC	0	Mother	NotMothr	in life	non

Appendix Table A26 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	14	b	11	558	-	148	-	1.34	(1.11- 1.62)
AGABI2	14	b	12	700	-	203	-	1.17	(0.99- 1.39)
ALBA	2	b	0	32	30	70	72	1.10	(0.60- 1.99)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80- 14.60)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	4	b	0	55	51	47	54	1.24	(0.72- 2.14)
CHEN2	34	b	6	51	-	42	-	1.67	(1.01- 2.77)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10- 3.47)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	7	b	0	176	1822	235	2931	1.20	(0.98- 1.48)
ECE	7	b	0	96	530	334	2080	1.13	(0.88- 1.44)
EHRLI2	4	b	0	-	-	-	-	2.00	(1.10- 3.80)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84- 2.36)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
GILLIL	36	b	8	-	-	-	-	0.90	(0.50- 1.50)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	4	b	0	37	279	93	1001	1.43	(0.95- 2.14)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
HABY	4	b	9	86	-	104	-	1.62	(0.95- 2.75)
HAJNAL	3	b	13	-	-	-	-	1.16	(0.89- 1.55)
HJERN1	13	b	9	61	-	58	-	0.72	(0.52- 1.01)
HJERN2	13	b	9	44	-	34	-	0.94	(0.62- 1.43)
HOST	1	b	0	20	457	14	285	0.89	(0.44- 1.79)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
INFANT	10	b	19	183	-	273	-	1.40	(0.95- 2.05)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KERSHA	5	b	1	51	-	35	-	2.43	(1.55- 3.79)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	6	b	1	28	-	134	-	0.68	(0.44- 1.06)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	18	b	4	-	-	201	-	1.32	(0.71- 2.45)
LAM2	9	b	4	-	-	-	-	0.87	(0.64- 1.17)
LAU	1	b	0	19	247	9	158	1.35	(0.60- 3.06)
*LEEDER	2	b	1	48	-	11	-	1.33	(0.67- 2.64)
LEEN	1	b	0	46	45	69	51	0.76	(0.44- 1.31)
LEROUX	2	b	10	39	-	58	-	1.79	(1.06- 3.02)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81- 1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15- 2.37)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
MCCON2	1	b	0	7	59	8	149	2.21	(0.77- 6.37)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MOUSSA	1	b	0	1	0	202	203	3.01	(0.12- 74.44)
MUMCUO	2	b	0	0	4	300	96	0.04	(0.00- 0.67)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY								1.37	(0.91- 2.07)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)

Appendix Table A26 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
OHARA	6	b	4	82	-	59	-	0.91	(0.65- 1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70- 1.42)
PIC	1	b	0	51	829	60	1069	1.10	(0.75- 1.61)
*PONSON	4	b	6	130	-	146	-	1.05	(0.87- 1.27)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)
RATAGE	2	b	0	51	29	69	31	0.79	(0.42- 1.47)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59- 2.41)
*RONMAR	5	b	9	-	-	-	-	1.36	(0.82- 2.25)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SHAMSS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95- 1.55)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14- 2.04)
SOYSET	14	b	5	35	-	16	-	2.80	(1.30- 6.10)
STANHO	2	b	0	7	169	20	193	0.40	(0.16- 0.97)
STERN1	1	b	0	21	499	29	768	1.11	(0.63- 1.98)
STODDA	10	b	9	224	-	443	-	1.36	(1.14- 1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85- 1.79)
TARIQ	12	b	1	48	-	133	-	0.89	(0.57- 1.40)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE	3	b	0	78	185	39	72	0.78	(0.49- 1.25)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
WITHER	6	b	5	103	-	395	-	1.50	(1.14- 1.98)
ZHENG	26	b	0	13	13	390	793	2.03	(0.93- 4.43)
Partial Totals				9446	27169	12180	42282		
*prospective study									~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	14	b	11	0.29	107.50	0.39	0.0024
AGABI2	14	b	12	0.16	133.43	0.75	0.0697
ALBA	2	b	0	0.09	10.78	0.21	0.7608
ALDAWO	2	m	0	0.76	8.40	2.35	0.0274
ALFRA1	2	b	0	0.41	22.65	0.73	0.0498
ANDRAE	2	b	3	-0.01	54.89	3.22	0.9406
ANNESI	1	b	0	0.25	89.09	0.04	0.0166
ARSHAD	1	b	7	1.20	1.82	1.72	0.1044
BENER	1	b	0	0.24	19.32	0.00	0.2839
BURCHF	5	m	1	0.22	32.51	0.01	0.2200
BURCHF	8	f	1	0.00	24.97	1.35	1.0000
Subtotal BURCHF				-0.25	57.49	1.36	
BUTZ	4	b	0	0.21	12.89	0.00	0.4416
CHEN2	34	b	6	0.51	15.10	1.19	0.0463
DAIGLE	3	b	7	0.67	11.64	2.26	0.0217
DELL	2	b	0	0.42	18.30	0.64	0.0733
DODGE	12	b	1	0.41	7.12	0.21	0.2794
DOLD	7	b	0	0.19	92.36	0.19	0.0734
ECE	7	b	0	0.12	63.38	0.79	0.3376
EHRLI2	4	b	0	0.69	10.00	2.12	0.0284
FAGBUL	2	b	1	0.34	14.40	0.18	0.1923
FARBE2	2	b	3	0.41	57.72	1.87	0.0017
FAROOQ	1	b	0	0.25	72.93	0.04	0.0297
*FERGUS	7	b	0	0.04	37.52	1.40	0.8106
FORAST	20	b	9	0.25	37.10	0.01	0.1327
GILLIL	36	b	8	-0.11	12.73	1.45	0.7070
GOLD	11	b	0	0.26	211.41	0.12	0.0002
GOREN1	4	b	0	0.36	23.61	0.36	0.0838
GOREN2	5	b	2	0.22	99.84	0.03	0.0316
GORTM1	3	b	7	0.40	36.85	1.02	0.0155
GORTM2	1	b	0	0.63	6.99	1.09	0.0978
HABY	4	b	9	0.48	13.60	0.85	0.0752

Appendix Table A26 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
HAJNAL	3	b	13	0.15	49.92	0.35	0.2943
HJERN1	13	b	9	-0.33	34.86	10.96	0.0524
HJERN2	13	b	9	-0.06	22.00	1.90	0.7716
HOST	1	b	0	-0.12	7.87	0.95	0.7459
HU1	4	b	7	-0.22	12.73	2.64	0.4259
HU2	23	b	3	0.44	31.16	1.32	0.0144
INFANT	10	b	19	0.34	25.97	0.28	0.0864
JENKIN	5	b	7	0.23	116.41	0.00	0.0126
JONES	2	b	0	0.16	9.47	0.05	0.6266
KAY	20	b	1	0.35	38.89	0.55	0.0288
KERSHA	5	b	1	0.89	19.22	8.26	0.0001
KIVITY	4	b	0	0.59	13.44	1.70	0.0311
KUEHR	6	b	1	-0.39	19.88	7.59	0.0855
KUHR	4	b	0	0.70	5.57	1.21	0.0997
LAM1	18	b	4	0.28	10.02	0.02	0.3796
LAM2	9	b	4	-0.14	42.22	5.83	0.3655
LAU	1	b	0	0.30	5.74	0.03	0.4716
*LEEDER	2	b	1	0.29	8.17	0.02	0.4149
LEEN	1	b	0	-0.28	12.81	3.36	0.3157
LEROUX	2	b	10	0.58	14.02	1.72	0.0293
LILLJE	1	b	0	0.09	42.18	0.91	0.5801
LINDFO	1	b	0	0.50	29.55	2.13	0.0065
LIS	1	b	0	0.31	37.30	0.21	0.0604
LISTER	3	b	8	0.42	64.33	2.24	0.0008
*MARTIN	5	m	1	0.56	11.93	1.28	0.0533
*MARTIN	6	f	1	0.68	5.55	1.13	0.1075
Subtotal	MARTIN			0.78	17.48	2.41	
MCCON2	1	b	0	0.79	3.43	1.08	0.1420
*MCKEEV	4	b	0	0.27	1119.12	1.67	0.0000
MOUSSA	1	b	0	1.10	0.37	0.28	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.69	0.0258
MURRAY	5	m	1	0.34	14.28	0.18	0.1941
MURRAY	7	f	1	0.27	8.50	0.01	0.4311
Subtotal	MURRAY			0.15	22.78	0.19	
NILSSO	1	b	0	0.00	31.98	1.72	1.0000
OCONNE	1	b	0	0.25	33.98	0.02	0.1384
OHARA	6	b	4	-0.09	34.25	3.65	0.5810
PALMIE	3	b	0	-0.00	30.71	1.67	0.9963
PIC	1	b	0	0.09	26.03	0.51	0.6397
*PONSON	4	b	6	0.05	107.38	3.61	0.6131
RASANE	3	b	3	0.46	27.24	1.46	0.0155
RATAGE	2	b	0	-0.24	9.92	2.17	0.4582
RENNIE	1	b	6	0.02	13.41	0.60	0.9422
RIBEIR	1	b	0	0.18	7.76	0.02	0.6116
*RONMAR	5	b	9	0.31	15.08	0.09	0.2324
ROSASV	1	b	0	0.45	3.25	0.15	0.4168
SCHMIT	1	b	4	0.73	13.33	3.27	0.0079
SHAMSS	2	b	0	0.33	79.17	0.75	0.0034
*SHERMA	2	b	2	0.17	19.90	0.09	0.4603
SHOHAT	4	b	12	0.19	64.12	0.11	0.1269
*SIGURS	1	b	0	0.18	3.26	0.01	0.7422
SOTOQU	1	b	0	0.42	46.33	1.68	0.0040
SOYSET	14	b	5	1.03	6.43	4.09	0.0090
STANHO	2	b	0	-0.92	4.90	6.48	0.0423
STERN1	1	b	0	0.11	11.71	0.18	0.7107
STODDA	10	b	9	0.31	124.44	0.71	0.0006
STRACH	9	b	4	0.21	27.70	0.02	0.2759
TARIQ	12	b	1	-0.12	19.03	2.31	0.6112
*TAYLOR	4	b	0	-0.04	72.55	5.41	0.7281
TOMINA	2	b	0	-1.06	1.84	3.06	0.1515
VENNER	6	m	0	0.09	27.66	0.52	0.6182
VENNER	3	f	0	0.18	28.98	0.09	0.3399
Subtotal	VENNER			-0.19	56.63	0.61	
VERHOE	3	b	0	-0.25	17.31	4.03	0.2972
WILLE1	7	b	0	0.68	6.06	1.20	0.0955
WITHER	6	b	5	0.41	50.42	1.51	0.0040
ZHENG	26	b	0	0.71	6.34	1.45	0.0739

Appendix Table A26 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

RR data

	N	95
	NS	91
	Wt	4170.68
Het	Chi	144.79
Het	df	94
Het	P	***
Fixed	RR	1.26
	RRl	1.22
	RRu	1.30
	P	+++
Random	RR	1.25
	RRl	1.19
	RRu	1.31
	P	+++
Asymm	P	N.S.

Appendix Table A26 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

RR data

	N	95						
	NS	91						
	Wt	4170.68						
	Het Chi	144.79						
	Het df	94						
	Het P	***						
Fixed	RR	1.26						
	RRl	1.22						
	RRu	1.30						
	P	+++						
Random	RR	1.25						
	RRl	1.19						
	RRu	1.31						
	P	+++						
Asymm	P	N.S.						
			<u>Sex</u>					
		both	male	female			Total	
	N	86	5	4			95	
	NS	86	5	4			95	
	Wt	4007.89	94.79	68.00			4170.68	
	Het Chi	137.88	4.01	2.27			144.79	
	Het df	85	4	3			94	
	Het P	***	N.S.	N.S.			***	
Fixed	RR	1.26	1.34	1.18			1.26	
	RRl	1.22	1.09	0.93			1.22	
	RRu	1.30	1.64	1.50			1.30	
	P	+++	++	N.S.			+++	
Random	RR	1.25	1.34	1.18			1.25	
	RRl	1.19	1.09	0.93			1.19	
	RRu	1.31	1.64	1.50			1.31	
	P	+++	++	N.S.			+++	
Between	Chi						0.64	
Between	df						2	
Between	P						N.S.	
								<u>Continent</u>
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	26	3	41	18	6	1	95
	NS	23	3	41	17	6	1	91
	Wt	775.23	57.34	2560.42	419.15	344.14	14.40	4170.68
	Het Chi	19.61	0.40	77.13	26.62	13.71	0.00	144.79
	Het df	25	2	40	17	5	0	94
	Het P	N.S.	N.S.	***	(*)	*	N.S.	***
Fixed	RR	1.35	1.48	1.25	1.19	1.20	1.41	1.26
	RRl	1.25	1.14	1.20	1.08	1.08	0.84	1.22
	RRu	1.44	1.92	1.30	1.31	1.33	2.36	1.30
	P	+++	++	+++	+++	+++	N.S.	+++
Random	RR	1.35	1.48	1.22	1.20	1.18	1.41	1.25
	RRl	1.25	1.14	1.13	1.05	0.97	0.84	1.19
	RRu	1.44	1.92	1.30	1.38	1.44	2.36	1.31
	P	+++	++	+++	++	(+)	N.S.	+++
Between	Chi							7.32
Between	df							5
Between	P							N.S.

Appendix Table A26 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma (or Current if Lifetime not available)

		Adjusted						
		Country in Europe						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
RR data								
	N	13	4	3	12	7	2	41
	NS	13	4	3	12	7	2	41
	Wt	1607.58	308.74	117.81	281.41	144.21	100.68	2560.42
	Het Chi	20.48	2.49	7.34	24.86	12.33	0.82	77.13
	Het df	12	3	2	11	6	1	40
	Het P	(*)	N.S.	*	**	(*)	N.S.	***
Fixed	RR	1.31	1.22	1.12	1.12	1.15	1.21	1.25
	RR1	1.24	1.09	0.94	1.00	0.98	0.99	1.20
	RRu	1.37	1.36	1.34	1.26	1.36	1.47	1.30
	P	+++	+++	N.S.	(+)	(+)	(+)	+++
Random	RR	1.30	1.22	1.09	1.18	1.16	1.21	1.22
	RR1	1.18	1.09	0.67	0.97	0.91	0.99	1.13
	RRu	1.44	1.36	1.78	1.42	1.49	1.47	1.30
	P	+++	+++	N.S.	(+)	N.S.	(+)	+++
Between	Chi							8.80
Between	df							5
Between	P							N.S.

Country in Asia
FarEast Cent/SE MidlEast Total

	N	8	1	9	18
	NS	7	1	9	17
	Wt	157.04	9.92	252.20	419.15
	Het Chi	8.62	0.00	10.79	26.62
	Het df	7	0	8	17
	Het P	N.S.	N.S.	N.S.	(*)
Fixed	RR	1.04	0.79	1.32	1.19
	RR1	0.89	0.42	1.16	1.08
	RRu	1.21	1.47	1.49	1.31
	P	N.S.	N.S.	+++	+++
Random	RR	1.05	0.79	1.35	1.20
	RR1	0.88	0.42	1.15	1.05
	RRu	1.26	1.47	1.59	1.38
	P	N.S.	N.S.	+++	++
Between	Chi				7.21
Between	df				2
Between	P				*

Start year of study
<1970 1970-79 1980-89 1990+ unknown Total

	N	5	11	30	39	10	95
	NS	4	10	29	38	10	91
	Wt	216.04	482.49	946.32	1169.15	1356.67	4170.68
	Het Chi	1.27	19.69	46.10	54.02	13.34	144.79
	Het df	4	10	29	38	9	94
	Het P	N.S.	*	*	*	N.S.	***
Fixed	RR	1.23	1.22	1.34	1.18	1.30	1.26
	RR1	1.08	1.12	1.25	1.11	1.24	1.22
	RRu	1.41	1.33	1.42	1.25	1.37	1.30
	P	++	+++	+++	+++	+++	+++
Random	RR	1.23	1.20	1.39	1.17	1.28	1.25
	RR1	1.08	1.03	1.27	1.09	1.13	1.19
	RRu	1.41	1.40	1.52	1.26	1.44	1.31
	P	++	+	+++	+++	+++	+++
Between	Chi						10.38
Between	df						4
Between	P						*

Appendix Table A26 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

Publication year
 <1990 1990-94 1995-99 2000+ Total

RR data

	N	16	26	29	24	95
	NS	15	24	29	23	91
	Wt	380.26	777.14	1227.91	1785.37	4170.68
Het	Chi	31.19	40.83	30.28	38.83	144.79
Het	df	15	25	28	23	94
Het	P	**	*	N.S.	*	***
Fixed	RR	1.17	1.28	1.30	1.25	1.26
	RR1	1.06	1.19	1.23	1.19	1.22
	RRu	1.30	1.37	1.38	1.30	1.30
	P	++	+++	+++	+++	+++
Random	RR	1.21	1.29	1.30	1.17	1.25
	RR1	1.03	1.16	1.23	1.07	1.19
	RRu	1.42	1.43	1.38	1.28	1.31
	P	+	+++	+++	+++	+++
Between	Chi					3.65
Between	df					3
Between	P					N.S.

Study type
 CC Pr CS Total

	N	22	15	58	95
	NS	22	14	55	91
	Wt	533.77	1671.00	1965.92	4170.68
Het	Chi	36.60	20.32	87.55	144.79
Het	df	21	14	57	94
Het	P	*	N.S.	**	***
Fixed	RR	1.28	1.27	1.25	1.26
	RR1	1.17	1.21	1.20	1.22
	RRu	1.39	1.33	1.31	1.30
	P	+++	+++	+++	+++
Random	RR	1.30	1.22	1.25	1.25
	RR1	1.14	1.11	1.17	1.19
	RRu	1.48	1.34	1.32	1.31
	P	+++	+++	+++	+++
Between	Chi				0.33
Between	df				2
Between	P				N.S.

Highest age in RR
 0-9 10-14 15+ unknown Total

	N	22	31	40	2	95
	NS	22	30	37	2	91
	Wt	714.22	2125.68	1306.26	24.53	4170.68
Het	Chi	41.44	41.80	58.55	1.29	144.79
Het	df	21	30	39	1	94
Het	P	**	(*)	*	N.S.	***
Fixed	RR	1.28	1.24	1.28	1.54	1.26
	RR1	1.19	1.19	1.21	1.04	1.22
	RRu	1.38	1.30	1.35	2.29	1.30
	P	+++	+++	+++	+	+++
Random	RR	1.29	1.20	1.27	1.54	1.25
	RR1	1.15	1.12	1.18	0.99	1.19
	RRu	1.46	1.28	1.37	2.42	1.31
	P	+++	+++	+++	(+)	+++
Between	Chi					1.71
Between	df					3
Between	P					N.S.

Appendix Table A26 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

Population setting
 general school medical allergy other Total

RR data

N	22	41	26	3	3	95
NS	20	41	25	2	3	91
Wt	734.69	1608.85	1620.65	58.45	148.03	4170.68
Het Chi	38.34	60.51	33.88	2.10	3.90	144.79
Het df	21	40	25	2	2	94
Het P	*	*	N.S.	N.S.	N.S.	***
Fixed RR	1.22	1.24	1.32	1.19	1.13	1.26
RRl	1.14	1.18	1.25	0.92	0.96	1.22
RRu	1.31	1.30	1.38	1.53	1.33	1.30
P	+++	+++	+++	N.S.	N.S.	+++
Random RR	1.23	1.23	1.33	1.19	1.18	1.25
RRl	1.11	1.15	1.21	0.91	0.90	1.19
RRu	1.37	1.32	1.46	1.55	1.56	1.31
P	+++	+++	+++	N.S.	N.S.	+++
Between Chi						6.08
Between df						4
Between P						N.S.

Respondent for smoking
 child parent med rec mix/oth Total

N	5	63	3	24	95
NS	5	62	3	21	91
Wt	158.55	2020.63	1226.03	765.46	4170.68
Het Chi	9.94	102.66	0.03	25.86	144.79
Het df	4	62	2	23	94
Het P	*	***	N.S.	N.S.	***
Fixed RR	1.11	1.23	1.31	1.30	1.26
RRl	0.95	1.18	1.24	1.21	1.22
RRu	1.29	1.29	1.38	1.40	1.30
P	N.S.	+++	+++	+++	+++
Random RR	1.06	1.24	1.31	1.30	1.25
RRl	0.81	1.17	1.24	1.20	1.19
RRu	1.40	1.32	1.38	1.41	1.31
P	N.S.	+++	+++	+++	+++
Between Chi					6.31
Between df					3
Between P					(*)

Child smokers
 exc/none included ignored Total

N	18	11	66	95
NS	14	11	66	91
Wt	438.61	522.95	3209.12	4170.68
Het Chi	24.35	12.99	104.89	144.79
Het df	17	10	65	94
Het P	N.S.	N.S.	**	***
Fixed RR	1.18	1.30	1.27	1.26
RRl	1.08	1.20	1.22	1.22
RRu	1.30	1.42	1.31	1.30
P	+++	+++	+++	+++
Random RR	1.18	1.33	1.25	1.25
RRl	1.04	1.18	1.18	1.19
RRu	1.33	1.49	1.32	1.31
P	++	+++	+++	+++
Between Chi				2.56
Between df				2
Between P				N.S.

Appendix Table A26 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma (or Current if Lifetime not available)

Adjusted
Physician diagnosis (current/lifetime)
 yes no/mix Total

RR data

N	43	52	95
NS	41	50	91
Wt	2019.11	2151.57	4170.68
Het Chi	75.22	68.59	144.79
Het df	42	51	94
Het P	**	(*)	***
Fixed RR	1.28	1.24	1.26
RRl	1.23	1.19	1.22
RRu	1.34	1.30	1.30
P	+++	+++	+++
Random RR	1.27	1.24	1.25
RRl	1.17	1.17	1.19
RRu	1.38	1.31	1.31
P	+++	+++	+++
Between Chi			0.98
Between df			1
Between P			N.S.

Respondent for diagnosis (current/lifetime)
 medrec parent child mixed Total

N	22	57	10	6	95
NS	21	55	10	5	91
Wt	1508.53	2237.49	291.29	133.37	4170.68
Het Chi	31.38	73.24	21.35	6.44	144.79
Het df	21	56	9	5	94
Het P	(*)	(*)	*	N.S.	***
Fixed RR	1.30	1.27	1.05	1.17	1.26
RRl	1.24	1.22	0.94	0.99	1.22
RRu	1.37	1.32	1.18	1.38	1.30
P	+++	+++	N.S.	(+)	+++
Random RR	1.29	1.28	1.02	1.18	1.25
RRl	1.16	1.21	0.85	0.96	1.19
RRu	1.44	1.34	1.23	1.46	1.31
P	+++	+++	N.S.	N.S.	+++
Between Chi					12.39
Between df					3
Between P					**

Questionnaire for symptoms
 ISAAC ATS other Total

N	14	10	71	95
NS	14	9	68	91
Wt	825.12	477.07	2868.49	4170.68
Het Chi	11.48	4.11	127.40	144.79
Het df	13	9	70	94
Het P	N.S.	N.S.	***	***
Fixed RR	1.21	1.28	1.27	1.26
RRl	1.13	1.17	1.23	1.22
RRu	1.30	1.40	1.32	1.30
P	+++	+++	+++	+++
Random RR	1.21	1.28	1.26	1.25
RRl	1.13	1.17	1.18	1.19
RRu	1.30	1.40	1.34	1.31
P	+++	+++	+++	+++
Between Chi				1.80
Between df				2
Between P				N.S.

Appendix Table A26 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

Analysis type
 prevlnce onset Total

RR data

N	85	10	95
NS	82	9	91
Wt	2770.22	1400.46	4170.68
Het Chi	130.09	14.70	144.79
Het df	84	9	94
Het P	***	(*)	***
Fixed RR	1.26	1.26	1.26
RRl	1.21	1.20	1.22
RRu	1.31	1.33	1.30
P	+++	+++	+++
Random RR	1.26	1.18	1.25
RRl	1.20	1.05	1.19
RRu	1.32	1.34	1.31
P	+++	++	+++
Between Chi			0.01
Between df			1
Between P			N.S.

Number of cases (current/lifetime asthma)
 1-50 51-100 101-200 201+ unknown Total

N	8	8	11	14	54	95
NS	8	8	11	14	50	91
Wt	49.29	126.71	242.42	833.69	2918.57	4170.68
Het Chi	11.41	14.89	25.65	15.50	71.44	144.79
Het df	7	7	10	13	53	94
Het P	N.S.	*	**	N.S.	*	***
Fixed RR	1.18	1.08	1.15	1.27	1.28	1.26
RRl	0.89	0.91	1.02	1.18	1.23	1.22
RRu	1.56	1.28	1.31	1.35	1.33	1.30
P	N.S.	N.S.	+	+++	+++	+++
Random RR	1.21	1.12	1.18	1.26	1.27	1.25
RRl	0.83	0.85	0.96	1.17	1.21	1.19
RRu	1.74	1.47	1.45	1.37	1.34	1.31
P	N.S.	N.S.	N.S.	+++	+++	+++
Between Chi						5.91
Between df						4
Between P						N.S.

Study adjusts for or is matched on sex

Yes No Total

N	49	46	95
NS	48	43	91
Wt	1730.73	2439.95	4170.68
Het Chi	76.56	67.12	144.79
Het df	48	45	94
Het P	**	*	***
Fixed RR	1.24	1.28	1.26
RRl	1.18	1.23	1.22
RRu	1.30	1.33	1.30
P	+++	+++	+++
Random RR	1.24	1.26	1.25
RRl	1.16	1.18	1.19
RRu	1.32	1.35	1.31
P	+++	+++	+++
Between Chi			1.11
Between df			1
Between P			N.S.

Appendix Table A26 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma (or Current if Lifetime not available)

Adjusted
Study adjusts for or is matched on age
 Yes No Total

RR data

N	33	62	95
NS	32	59	91
Wt	1220.32	2950.36	4170.68
Het Chi	56.69	87.37	144.79
Het df	32	61	94
Het P	**	*	***
Fixed RR	1.24	1.27	1.26
RRl	1.17	1.23	1.22
RRu	1.31	1.32	1.30
P	+++	+++	+++
Random RR	1.22	1.26	1.25
RRl	1.12	1.19	1.19
RRu	1.33	1.33	1.31
P	+++	+++	+++
Between Chi			0.73
Between df			1
Between P			N.S.

Study adjusts for or is matched on race

N	12	83	95
NS	12	79	91
Wt	565.22	3605.46	4170.68
Het Chi	13.00	129.00	144.79
Het df	11	82	94
Het P	N.S.	***	***
Fixed RR	1.35	1.25	1.26
RRl	1.24	1.21	1.22
RRu	1.46	1.29	1.30
P	+++	+++	+++
Random RR	1.36	1.23	1.25
RRl	1.23	1.17	1.19
RRu	1.50	1.29	1.31
P	+++	+++	+++
Between Chi			2.79
Between df			1
Between P			(*)

Study adjusts for or is matched on location

N	25	70	95
NS	25	66	91
Wt	1225.77	2944.91	4170.68
Het Chi	38.74	104.47	144.79
Het df	24	69	94
Het P	*	**	***
Fixed RR	1.22	1.28	1.26
RRl	1.16	1.23	1.22
RRu	1.29	1.32	1.30
P	+++	+++	+++
Random RR	1.21	1.27	1.25
RRl	1.12	1.20	1.19
RRu	1.31	1.34	1.31
P	+++	+++	+++
Between Chi			1.58
Between df			1
Between P			N.S.

Appendix Table A26 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma (or Current if Lifetime not available)

Adjusted
Study adjusts for or is matched on SES
 Yes No Total

RR data

N	31	64	95
NS	30	61	91
Wt	1407.56	2763.12	4170.68
Het Chi	57.75	85.66	144.79
Het df	30	63	94
Het P	**	*	***
Fixed RR	1.23	1.28	1.26
RRl	1.17	1.23	1.22
RRu	1.30	1.33	1.30
P	+++	+++	+++
Random RR	1.24	1.26	1.25
RRl	1.14	1.19	1.19
RRu	1.34	1.33	1.31
P	+++	+++	+++
Between Chi			1.38
Between df			1
Between P			N.S.

Study adjusts for family medical history

N	31	64	95
NS	30	61	91
Wt	1416.16	2754.52	4170.68
Het Chi	40.60	103.04	144.79
Het df	30	63	94
Het P	(*)	**	***
Fixed RR	1.23	1.28	1.26
RRl	1.17	1.23	1.22
RRu	1.30	1.33	1.30
P	+++	+++	+++
Random RR	1.24	1.25	1.25
RRl	1.16	1.17	1.19
RRu	1.33	1.33	1.31
P	+++	+++	+++
Between Chi			1.16
Between df			1
Between P			N.S.

Study adjusts for family composition

N	17	78	95
NS	17	74	91
Wt	878.90	3291.77	4170.68
Het Chi	31.54	112.67	144.79
Het df	16	77	94
Het P	*	**	***
Fixed RR	1.23	1.27	1.26
RRl	1.15	1.23	1.22
RRu	1.32	1.31	1.30
P	+++	+++	+++
Random RR	1.23	1.26	1.25
RRl	1.11	1.19	1.19
RRu	1.36	1.32	1.31
P	+++	+++	+++
Between Chi			0.58
Between df			1
Between P			N.S.

Appendix Table A26 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma (or Current if Lifetime not available)

Adjusted
Study adjusts for cooking, heating, air conditioning
 Yes No Total

RR data

N	11	84	95
NS	11	80	91
Wt	730.97	3439.70	4170.68
Het Chi	12.23	132.51	144.79
Het df	10	83	94
Het P	N.S.	***	***
Fixed RR	1.25	1.26	1.26
RRl	1.16	1.22	1.22
RRu	1.35	1.31	1.30
P	+++	+++	+++
Random RR	1.26	1.24	1.25
RRl	1.16	1.18	1.19
RRu	1.37	1.31	1.31
P	+++	+++	+++
Between Chi			0.05
Between df			1
Between P			N.S.

Study adjusts for housing quality, crowding, damp, mould

N	15	80	95
NS	15	76	91
Wt	675.87	3494.81	4170.68
Het Chi	10.31	131.98	144.79
Het df	14	79	94
Het P	N.S.	***	***
Fixed RR	1.19	1.28	1.26
RRl	1.11	1.23	1.22
RRu	1.29	1.32	1.30
P	+++	+++	+++
Random RR	1.19	1.26	1.25
RRl	1.11	1.20	1.19
RRu	1.29	1.33	1.31
P	+++	+++	+++
Between Chi			2.51
Between df			1
Between P			N.S.

Study adjusts for pets, animal contact, farming

N	13	82	95
NS	12	79	91
Wt	315.93	3854.75	4170.68
Het Chi	11.13	132.97	144.79
Het df	12	81	94
Het P	N.S.	***	***
Fixed RR	1.21	1.27	1.26
RRl	1.08	1.23	1.22
RRu	1.35	1.31	1.30
P	+++	+++	+++
Random RR	1.21	1.25	1.25
RRl	1.08	1.19	1.19
RRu	1.35	1.32	1.31
P	+++	+++	+++
Between Chi			0.70
Between df			1
Between P			N.S.

Appendix Table A26 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)

Adjusted
 Study adjusts for child's medical history

Yes No Total

RR data

N	29	66	95
NS	27	64	91
Wt	834.37	3336.31	4170.68
Het Chi	40.55	104.24	144.79
Het df	28	65	94
Het P	(*)	**	***
Fixed RR	1.26	1.26	1.26
RRl	1.18	1.22	1.22
RRu	1.35	1.30	1.30
P	+++	+++	+++
Random RR	1.29	1.23	1.25
RRl	1.18	1.17	1.19
RRu	1.41	1.30	1.31
P	+++	+++	+++
Between Chi			0.00
Between df			1
Between P			N.S.

Study adjusts for in utero exposure

N	7	88	95
NS	7	84	91
Wt	305.45	3865.22	4170.68
Het Chi	12.04	132.26	144.79
Het df	6	87	94
Het P	(*)	**	***
Fixed RR	1.21	1.27	1.26
RRl	1.09	1.23	1.22
RRu	1.36	1.31	1.30
P	+++	+++	+++
Random RR	1.20	1.25	1.25
RRl	0.98	1.19	1.19
RRu	1.46	1.31	1.31
P	(+)	+++	+++
Between Chi			0.49
Between df			1
Between P			N.S.

Study adjusts for in life exposure

N	24	71	95
NS	24	67	91
Wt	1167.85	3002.83	4170.68
Het Chi	27.74	116.44	144.79
Het df	23	70	94
Het P	N.S.	***	***
Fixed RR	1.29	1.25	1.26
RRl	1.21	1.21	1.22
RRu	1.36	1.30	1.30
P	+++	+++	+++
Random RR	1.29	1.23	1.25
RRl	1.21	1.16	1.19
RRu	1.38	1.30	1.31
P	+++	+++	+++
Between Chi			0.61
Between df			1
Between P			N.S.

Appendix Table A26 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma (or Current if Lifetime not available)

Adjusted
Asthma definition (lifetime/current)
lifetime current Total

RR data

	N	63	32	95
	NS	59	32	91
	Wt	3264.61	906.07	4170.68
Het	Chi	90.44	52.72	144.79
Het	df	62	31	94
Het	P	*	**	***
Fixed	RR	1.27	1.21	1.26
	RRl	1.23	1.14	1.22
	RRu	1.32	1.30	1.30
	P	+++	+++	+++
Random	RR	1.27	1.20	1.25
	RRl	1.20	1.09	1.19
	RRu	1.33	1.32	1.31
	P	+++	+++	+++
Between	Chi			1.63
Between	df			1
Between	P			N.S.

Exposed group : who is smoker

AnyPar Mother Father Total

	N	36	54	5	95
	NS	35	52	4	91
	Wt	1097.53	2942.38	130.77	4170.68
Het	Chi	34.62	95.56	2.59	144.79
Het	df	35	53	4	94
Het	P	N.S.	***	N.S.	***
Fixed	RR	1.21	1.30	0.99	1.26
	RRl	1.14	1.25	0.83	1.22
	RRu	1.28	1.34	1.17	1.30
	P	+++	+++	N.S.	+++
Random	RR	1.21	1.30	0.99	1.25
	RRl	1.14	1.22	0.83	1.19
	RRu	1.28	1.39	1.17	1.31
	P	+++	+++	N.S.	+++
Between	Chi				12.03
Between	df				2
Between	P				**

Exposed group : when Exposed

lif/ev age<7y current unspec other Total

	N	27	8	28	31	1	95
	NS	26	7	27	30	1	91
	Wt	1775.47	418.52	1160.99	784.54	31.16	4170.68
Het	Chi	50.08	24.94	38.15	30.03	0.00	144.79
Het	df	26	7	27	30	0	94
Het	P	**	***	(*)	N.S.	N.S.	***
Fixed	RR	1.25	1.27	1.25	1.28	1.55	1.26
	RRl	1.20	1.16	1.18	1.19	1.09	1.22
	RRu	1.31	1.40	1.33	1.37	2.20	1.30
	P	+++	+++	+++	+++	+	+++
Random	RR	1.20	1.38	1.24	1.28	1.55	1.25
	RRl	1.09	1.10	1.15	1.19	1.09	1.19
	RRu	1.33	1.74	1.34	1.37	2.20	1.31
	P	+++	++	+++	+++	+	+++
Between	Chi						1.58
Between	df						4
Between	P						N.S.

Appendix Table A26 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma (or Current if Lifetime not available)

Unexposed group : who is smoker
 Adjusted
 NoHhMemb NoParent NotSpPar Total

RR data

N	5	37	53	95
NS	5	35	51	91
Wt	77.58	1141.27	2951.82	4170.68
Het Chi	3.51	34.86	95.09	144.79
Het df	4	36	52	94
Het P	N.S.	N.S.	***	***
Fixed RR	0.93	1.21	1.29	1.26
RRl	0.75	1.14	1.25	1.22
RRu	1.17	1.28	1.34	1.30
P	N.S.	+++	+++	+++
Random RR	0.93	1.21	1.30	1.25
RRl	0.75	1.14	1.22	1.19
RRu	1.17	1.28	1.38	1.31
P	N.S.	+++	+++	+++
Between Chi				11.34
Between df				2
Between P				**

Unexposed group : time
 non never non+othr Total

N	79	16	95
NS	76	15	91
Wt	2413.52	1757.16	4170.68
Het Chi	117.05	27.43	144.79
Het df	78	15	94
Het P	**	*	***
Fixed RR	1.25	1.27	1.26
RRl	1.20	1.22	1.22
RRu	1.30	1.34	1.30
P	+++	+++	+++
Random RR	1.26	1.23	1.25
RRl	1.19	1.12	1.19
RRu	1.33	1.35	1.31
P	+++	+++	+++
Between Chi			0.32
Between df			1
Between P			N.S.

Number of adjustment variables

	0	1	2	3-5	6-9	10+	Total
N	47	13	2	11	16	6	95
NS	46	10	2	11	16	6	91
Wt	2436.66	224.45	119.74	355.38	639.49	394.96	4170.68
Het Chi	60.39	23.02	0.04	26.23	30.89	3.59	144.79
Het df	46	12	1	10	15	5	94
Het P	(*)	*	N.S.	**	**	N.S.	***
Fixed RR	1.27	1.28	1.23	1.27	1.23	1.25	1.26
RRl	1.22	1.12	1.03	1.15	1.14	1.13	1.22
RRu	1.32	1.46	1.47	1.41	1.33	1.38	1.30
P	+++	+++	+	+++	+++	+++	+++
Random RR	1.24	1.30	1.23	1.32	1.23	1.25	1.25
RRl	1.17	1.08	1.03	1.10	1.08	1.13	1.19
RRu	1.32	1.57	1.47	1.57	1.39	1.38	1.31
P	+++	++	+	++	++	+++	+++
Between Chi							0.62
Between df							5
Between P							N.S.

Appendix Table A26 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

RR adjusted for sex
 Yes No Total

RR data

	N	31	64	95
	NS	31	60	91
	Wt	1277.18	2893.50	4170.68
Het	Chi	54.77	89.67	144.79
Het	df	30	63	94
Het	P	**	*	***
Fixed	RR	1.24	1.27	1.26
	RRl	1.18	1.22	1.22
	RRu	1.31	1.32	1.30
	P	+++	+++	+++
Random	RR	1.25	1.25	1.25
	RRl	1.15	1.18	1.19
	RRu	1.36	1.32	1.31
	P	+++	+++	+++
Between	Chi			0.35
Between	df			1
Between	P			N.S.

RR adjusted for age

	N	23	72	95
	NS	22	69	91
	Wt	894.03	3276.65	4170.68
Het	Chi	41.35	102.52	144.79
Het	df	22	71	94
Het	P	**	**	***
Fixed	RR	1.23	1.27	1.26
	RRl	1.15	1.23	1.22
	RRu	1.31	1.32	1.30
	P	+++	+++	+++
Random	RR	1.22	1.26	1.25
	RRl	1.11	1.20	1.19
	RRu	1.35	1.33	1.31
	P	+++	+++	+++
Between	Chi			0.92
Between	df			1
Between	P			N.S.

RR adjusted for other ETS

	N	11	84	95
	NS	11	80	91
	Wt	608.43	3562.25	4170.68
Het	Chi	14.74	129.28	144.79
Het	df	10	83	94
Het	P	N.S.	***	***
Fixed	RR	1.30	1.25	1.26
	RRl	1.20	1.21	1.22
	RRu	1.41	1.30	1.30
	P	+++	+++	+++
Random	RR	1.31	1.24	1.25
	RRl	1.18	1.18	1.19
	RRu	1.45	1.30	1.31
	P	+++	+++	+++
Between	Chi			0.78
Between	df			1
Between	P			N.S.

Appendix Table A26 - 4

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

REF	NRR	X	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	7	x	b	c	6	7	all	Eu:Ita	1994	1999	CC	0	AnyPar	NoParent	current	never
AGABI2	7	x	b	c	13	14	all	Eu:Ita	1994	1999	CC	0	AnyPar	NoParent	current	never
ALBA	2		b	l	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAWO	2		m	l	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never
ALFRA1	2		b	l	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non
ANDRAE	1	x	b	l	0	16	all	Eu:Sca	1985	1988	CS	0	AnyPar	NoParent	in life	non
ANNESI	1		b	l	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non
ARSHAD	1		b	c	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non
BENER	1		b	l	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non
BURCHF	5		m	l	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BURCHF	8		f	l	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BUTZ	4		b	l	*	*	all	NAmer	1989	1992	CC	0	AnyPar	NotSpPar	ever	never
CHEN2	8	x	b	l	6	17	all	NAmer	1993	1996	CS	0	Mother	NotMothr	ever	never
DAIGLE	1	x	b	c	0	*	all	NAmer	1986	1991	CC	0	Mother	NotMothr	unspec	non
DELL	2		b	l	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non
DODGE	9	x	b	l	8	12	all	NAmer	1978	1982	Pr	0	AnyPar	NoParent	unspec	non
DOLD	7		b	l	9	11	all	Eu:Ger	1989	1992	CS	0	AnyPar	NoParent	unspec	non
ECE	7		b	l	6	15	all	Eu:est	1999	2001	CS	0	Mother	NotMothr	current	non
EHRLI2	4		b	l	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	ever	never
FAGBUL	1	x	b	c	0	18	all	Africa	*	1994	CC	0	AnyPar	NoParent	unspec	non
FARBE2	1	x	b	l	5	17	all	NAmer	1987	1997	CS	0	Mother	NotMothr	current	non
FAROOQ	1		b	l	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never
FERGUS	7		b	l	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non
FORAST	7	x	b	l	7	11	all	Eu:Ita	1987	1992	CS	0	AnyPar	NoParent	unspec	non
GILLIL	36		b	c	7	19	all	NAmer	1993	2001	CS	8	Mother	NoHhMemb	current	non
GOLD	11		b	l	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non
GOREN1	4		b	l	7	11	all	As:ME	1980	1986	CS	0	Mother	NotMothr	current	non
GOREN2	2	x	b	l	7	11	all	As:ME	1982	1995	CS	0	Mother	NotMothr	ever	never
GORTM1	1	x	b	l	0	17	all	NAmer	1977	1982	CS	0	Mother	NotMothr	current	non
GORTM2	1		b	l	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non
HABY	2	x	b	c	3	5	all	Auslia	1995	2001	CS	0	AnyPar	NoParent	<6m	non
HAJNAL	3		b	l	6	14	all	Eu:wst	1992	1999	CS	13	Mother	NotMothr	current	non
HJERN1	5	x	b	c	3	15	all	Eu:Sca	1996	2001	CS	0	Mother	NotMothr	ever	never
HJERN2	5	x	b	c	3	15	all	Eu:Sca	1996	2001	CS	0	Father	NotFathr	ever	never
HOST	1		b	c	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non
HU1	2	x	b	l	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non
HU2	21	x	b	l	20	22	all	NAmer	1986	1997	Pr	0	AnyPar	LowParnt	13-15y	non
INFANT	3	x	b	c	3	4	all	NAmer	1988	1993	CC	0	Mother	NotMothr	in life	non
JENKIN	1	x	m	l	7	7	all	Auslia	1968	1993	CS	0	Mother	NotMothr	current	non
JENKIN	3	x	f	l	7	7	all	Auslia	1968	1993	CS	0	Mother	NotMothr	current	non
JONES	2		b	c	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non
KAY	7	x	b	l	3	11	all	Eu:UK	*	1995	CS	0	AnyPar	NoParent	unspec	non
KERSHA	1	x	b	l	0	5	all	Eu:UK	1983	1987	CC	0	Mother	LowMothr	<3y	non
KIVITY	4		b	l	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non
KUEHR	2	x	b	l	6	8	all	Eu:Ger	1990	1992	CS	0	Mother	NotMothr	<1y	non
KUHR	4		b	l	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non
LAM1	18		b	l	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	9		b	l	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LAU	1		b	c	3	10	all	As:FE	1989	1995	CS	0	AnyPar	NoParent	current	non
LEEDER	1	x	b	l	0	5	all	Eu:UK	1963	1976	Pr	0	AnyPar	NoParent	in life	non
LEEN	1		b	c	9	9	all	Eu:wst	1991	1994	CC	0	AnyPar	NoParent	unspec	non
LEROUX	1	x	b	l	6	7	all	Eu:wst	1990	1995	CS	0	AnyPar	LowParnt	unspec	non
LILLJE	1		b	c	7	10	all	Eu:Sca	1991	1997	CS	0	AnyPar	NoParent	unspec	non
LINDFO	1		b	c	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non
LIS	1		b	l	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non
LISTER	1	x	b	l	0	4	all	Auslia	1989	1998	CS	0	Mother	NotMothr	current	non
MARTIN	1	x	m	l	0	12	all	NAmer	1972	1992	Pr	0	Mother	LowMothr	<5y	non
MARTIN	2	x	f	l	0	12	all	NAmer	1972	1992	Pr	0	Mother	LowMothr	<5y	non
MCCON2	1		b	l	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non
MCKEEV	4		b	l	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never
MOUSSA	1		b	c	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCUO	2		b	c	3	15	all	As:ME	1986	1994	CC	0	Mother	NotMothr	unspec	non
MURRAY	1	x	m	l	1	17	all	NAmer	1986	1990	CS	0	Mother	NotMothr	unspec	non
MURRAY	3	x	f	l	1	17	all	NAmer	1986	1990	CS	0	Mother	NotMothr	unspec	non
NILSSO	1		b	l	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non
OCONNE	1		b	l	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non
OHARA	5	x	b	c	3	12	all	As:FE	2001	2002	CS	0	AnyPar	NoParent	current	non
PALMIE	3		b	c	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non
PIC	1		b	c	5	15	all	Eu:wst	1999	2002	CS	0	AnyPar	NoParent	unspec	non
PONSON	3	x	b	l	0	7	all	Auslia	1988	2000	Pr	0	Mother	NotMothr	<1m	non

Appendix Table A26 - 4

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

REF	NRR	X	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
RASANE	1	x	b	1	16	16	all	Eu:Sca	1991	2000	CS	0	Mother	NotMothr	ever	never
RATAGE	2		b	1	5	15	all	As:cen	1996	2000	CC	0	Father	NotFathr	unspec	non
RENNIE	1		b	1	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non
RIBEIR	1		b	c	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non
RONMAR	4	x	b	1	7	10	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	non
ROSASV	1		b	1	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non
SCHMIT	1		b	c	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHAMSS	2		b	1	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non
SHERMA	2		b	1	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never
SHOHAT	2	x	b	c	13	14	all	As:ME	1997	2002	CS	0	Mother	NotMothr	unspec	non
SIGURS	1		b	1	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non
SOTOQU	1		b	c	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non
SOYSET	2	x	b	1	7	13	all	Eu:Sca	1989	1995	CS	0	Mother	NotMothr	in life	non
STANHO	2		b	1	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
STERN1	1		b	c	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non
STODDA	5	x	b	c	0	17	all	NAmer	1986	1995	CS	0	Mother	NotMothr	current	non
STRACH	3	x	b	c	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	current	non
TARIQ	10	x	b	c	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	NotMothr	in life	non
TAYLOR	4		b	1	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non
TOMINA	2		b	c	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non
VENNER	6		m	1	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VENNER	3		f	1	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VERHOE	3		b	1	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never
WILLE1	7		b	c	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non
WITHER	2	x	b	1	14	16	all	Eu:UK	1995	1998	CS	0	Mother	NotMothr	current	non
ZHENG	26		b	c	6	10	all	As:FE	1999	2002	CC	0	Mother	NotMothr	in life	non

Appendix Table A26 - 5

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	7	b	0	558	8013	148	2825	1.33	(1.10- 1.60)
AGABI2	7	b	0	700	7742	203	2837	1.26	(1.07- 1.49)
ALBA	2	b	0	32	30	70	72	1.10	(0.60- 1.99)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	1	b	0	101	2034	148	2645	0.89	(0.68- 1.15)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80- 14.60)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	4	b	0	55	51	47	54	1.24	(0.72- 2.14)
CHEN2	8	b	0	51	378	42	421	1.35	(0.88- 2.08)
DAIGLE	1	b	0	51	72	86	174	1.43	(0.92- 2.23)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	9	b	0	21	310	12	285	1.61	(0.78- 3.33)
DOLD	7	b	0	176	1822	235	2931	1.20	(0.98- 1.48)
ECE	7	b	0	96	530	334	2080	1.13	(0.88- 1.44)
EHRLI2	4	b	0	-	-	-	-	2.00	(1.10- 3.80)
FAGBUL	1	b	0	81	55	59	85	2.12	(1.32- 3.42)
FARBE2	1	b	0	109	707	116	1109	1.47	(1.12- 1.95)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FORAST	7	b	0	164	1800	52	781	1.37	(0.99- 1.89)
GILLIL	36	b	8	-	-	-	-	0.90	(0.50- 1.50)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	4	b	0	37	279	93	1001	1.43	(0.95- 2.14)
GOREN2	2	b	0	203	1505	461	4103	1.20	(1.01- 1.43)
GORTM1	1	b	0	97	1158	91	1726	1.59	(1.18- 2.14)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
HABY	2	b	0	86	299	104	485	1.34	(0.97- 1.85)
HAJNAL	3	b	13	-	-	-	-	1.16	(0.89- 1.55)
HJERN1	5	b	0	61	1346	58	1078	0.84	(0.58- 1.22)
HJERN2	5	b	0	44	977	34	884	1.17	(0.74- 1.85)
HOST	1	b	0	20	457	14	285	0.89	(0.44- 1.79)
HU1	2	b	0	45	131	62	220	1.22	(0.78- 1.89)
HU2	21	b	0	52	240	101	1083	2.32	(1.62- 3.34)
INFANT	3	b	0	183	167	273	289	1.16	(0.89- 1.52)
JENKIN	1	m	0	310	1159	502	2367	1.26	(1.08- 1.48)
JENKIN	3	f	0	224	1208	313	2448	1.45	(1.21- 1.74)
Subtotal JENKIN								1.34	(1.19- 1.51)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
KAY	7	b	0	103	348	108	518	1.42	(1.05- 1.92)
KERSHA	1	b	0	51	450	35	749	2.43	(1.55- 3.79)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	2	b	0	28	282	134	957	0.71	(0.46- 1.09)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	18	b	4	-	-	201	-	1.32	(0.71- 2.45)
LAM2	9	b	4	-	-	-	-	0.87	(0.64- 1.17)
LAU	1	b	0	19	247	9	158	1.35	(0.60- 3.06)
*LEEDER	1	b	0	48	1433	11	445	1.36	(0.71- 2.59)
LEEN	1	b	0	46	45	69	51	0.76	(0.44- 1.31)
LEROUX	1	b	0	39	374	58	722	1.30	(0.85- 1.98)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81- 1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15- 2.37)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	1	b	0	-	-	-	-	1.47	(1.19- 1.83)
*MARTIN	1	m	0	17	80	41	315	1.63	(0.98- 2.72)
*MARTIN	2	f	0	8	63	20	281	1.78	(0.82- 3.87)
Subtotal MARTIN								1.68	(1.10- 2.57)
MCCON2	1	b	0	7	59	8	149	2.21	(0.77- 6.37)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MOUSSA	1	b	0	1	0	202	203	3.01	(0.12- 74.44)
MUMCUO	2	b	0	0	4	300	96	0.04	(0.00- 0.67)
MURRAY	1	m	0	50	34	153	149	1.43	(0.88- 2.34)
MURRAY	3	f	0	22	29	67	116	1.31	(0.70- 2.47)
Subtotal MURRAY								1.39	(0.94- 2.04)

Appendix Table A26 - 5

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
OHARA	5	b	0	82	1214	59	786	0.90	(0.64- 1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70- 1.42)
PIC	1	b	0	51	829	60	1069	1.10	(0.75- 1.61)
*PONSON	3	b	0	130	382	146	473	1.10	(0.91- 1.34)
RASANE	1	b	0	101	2055	76	2306	1.49	(1.10- 2.02)
RATAGE	2	b	0	51	29	69	31	0.79	(0.42- 1.47)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59- 2.41)
*RONMAR	4	b	0	-	-	-	-	1.12	(0.72- 1.73)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SHAMSS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
SHOHAT	2	b	0	187	1762	493	7207	1.55	(1.30- 1.85)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14- 2.04)
SOYSET	2	b	0	35	297	16	270	1.99	(1.08- 3.67)
STANHO	2	b	0	7	169	20	193	0.40	(0.16- 0.97)
STERN1	1	b	0	21	499	29	768	1.11	(0.63- 1.98)
STODDA	5	b	0	224	1779	443	4826	1.37	(1.16- 1.63)
STRACH	3	b	0	122	93	364	382	1.38	(1.01- 1.87)
TARIQ	10	b	0	48	259	133	778	1.08	(0.76- 1.55)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE	3	b	0	78	185	39	72	0.78	(0.49- 1.25)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
WITHER	2	b	0	103	299	395	1442	1.26	(0.98- 1.61)
ZHENG	26	b	0	13	13	390	793	2.03	(0.93- 4.43)
Partial Totals				9446	67703	12180	90849		
*prospective study									~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	7	b	0	0.28	110.77	0.15	0.0027
AGABI2	7	b	0	0.23	146.28	0.03	0.0047
ALBA	2	b	0	0.09	10.78	0.26	0.7608
ALDAWO	2	m	0	0.76	8.40	2.22	0.0274
ALFRA1	2	b	0	0.41	22.65	0.61	0.0498
ANDRAE	1	b	0	-0.12	57.05	7.68	0.3670
ANNESI	1	b	0	0.25	89.09	0.00	0.0166
ARSHAD	1	b	7	1.20	1.82	1.66	0.1044
BENER	1	b	0	0.24	19.32	0.00	0.2839
BURCHF	5	m	1	0.22	32.51	0.03	0.2200
BURCHF	8	f	1	0.00	24.97	1.53	1.0000
Subtotal BURCHF				-0.28	57.49	1.56	
BUTZ	4	b	0	0.21	12.89	0.01	0.4416
CHEN2	8	b	0	0.30	20.64	0.06	0.1702
DAIGLE	1	b	0	0.36	19.66	0.25	0.1106
DELL	2	b	0	0.42	18.30	0.54	0.0733
DODGE	9	b	0	0.48	7.26	0.38	0.2000
DOLD	7	b	0	0.19	92.36	0.34	0.0734
ECE	7	b	0	0.12	63.38	1.02	0.3376
EHRLI2	4	b	0	0.69	10.00	1.99	0.0284
FAGBUL	1	b	0	0.75	16.88	4.30	0.0020
FARBE2	1	b	0	0.39	49.72	0.98	0.0062
FAROOQ	1	b	0	0.25	72.93	0.00	0.0297
*FERGUS	7	b	0	0.04	37.52	1.63	0.8106
FORAST	7	b	0	0.31	36.81	0.16	0.0570
GILLIL	36	b	8	-0.11	12.73	1.58	0.7070
GOLD	11	b	0	0.26	211.41	0.01	0.0002
GOREN1	4	b	0	0.36	23.61	0.28	0.0838
GOREN2	2	b	0	0.18	124.95	0.52	0.0411
GORTM1	1	b	0	0.46	43.97	2.04	0.0021

Appendix Table A26 - 5

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
GORTM2	1	b	0	0.63	6.99	1.00	0.0978
HABY	2	b	0	0.29	37.52	0.08	0.0720
HAJNAL	3	b	13	0.15	49.92	0.49	0.2943
HJERN1	5	b	0	-0.17	28.32	4.97	0.3611
HJERN2	5	b	0	0.16	18.42	0.15	0.4983
HOST	1	b	0	-0.12	7.87	1.04	0.7459
HU1	2	b	0	0.20	19.79	0.05	0.3785
HU2	21	b	0	0.84	29.22	10.36	0.0000
INFANT	3	b	0	0.15	53.83	0.53	0.2761
JENKIN	1	m	0	0.23	153.77	0.04	0.0040
JENKIN	3	f	0	0.37	112.42	1.74	0.0001
Subtotal	JENKIN			0.11	266.19	1.77	
JONES	2	b	0	0.16	9.47	0.08	0.6266
KAY	7	b	0	0.35	42.07	0.45	0.0231
KERSHA	1	b	0	0.89	19.33	7.88	0.0001
KIVITY	4	b	0	0.59	13.44	1.56	0.0311
KUEHR	2	b	0	-0.34	20.93	7.32	0.1158
KUHR	4	b	0	0.70	5.57	1.13	0.0997
LAM1	18	b	4	0.28	10.02	0.01	0.3796
LAM2	9	b	4	-0.14	42.22	6.31	0.3655
LAU	1	b	0	0.30	5.74	0.02	0.4716
*LEEDER	1	b	0	0.30	9.19	0.03	0.3569
LEEN	1	b	0	-0.28	12.81	3.57	0.3157
LEROUX	1	b	0	0.26	21.30	0.00	0.2285
LILLJE	1	b	0	0.09	42.18	1.11	0.5801
LINDFO	1	b	0	0.50	29.55	1.90	0.0065
LIS	1	b	0	0.31	37.30	0.13	0.0604
LISTER	1	b	0	0.39	82.96	1.58	0.0004
*MARTIN	1	m	0	0.49	14.81	0.87	0.0593
*MARTIN	2	f	0	0.58	6.43	0.71	0.1422
Subtotal	MARTIN			0.57	21.23	1.58	
MCCON2	1	b	0	0.79	3.43	1.02	0.1420
*MCKEEV	4	b	0	0.27	1119.12	0.61	0.0000
MOUSSA	1	b	0	1.10	0.37	0.27	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.73	0.0258
MURRAY	1	m	0	0.36	15.96	0.20	0.1513
MURRAY	3	f	0	0.27	9.66	0.01	0.3967
Subtotal	MURRAY			0.14	25.62	0.21	
NILSSO	1	b	0	0.00	31.98	1.96	1.0000
OCONNE	1	b	0	0.25	33.98	0.00	0.1384
OHARA	5	b	0	-0.11	32.01	3.99	0.5504
PALMIE	3	b	0	-0.00	30.71	1.89	0.9963
PIC	1	b	0	0.09	26.03	0.63	0.6397
*PONSON	3	b	0	0.10	101.94	2.29	0.3244
RASANE	1	b	0	0.40	41.70	0.97	0.0099
RATAGE	2	b	0	-0.24	9.92	2.31	0.4582
RENNIE	1	b	6	0.02	13.41	0.69	0.9422
RIBEIR	1	b	0	0.18	7.76	0.03	0.6116
*RONMAR	4	b	0	0.11	20.00	0.36	0.6123
ROSASV	1	b	0	0.45	3.25	0.13	0.4168
SCHMIT	1	b	4	0.73	13.33	3.07	0.0079
SHAMSS	2	b	0	0.33	79.17	0.53	0.0034
*SHERMA	2	b	2	0.17	19.90	0.13	0.4603
SHOHAT	2	b	0	0.44	123.73	4.55	0.0000
*SIGURS	1	b	0	0.18	3.26	0.01	0.7422
SOTOQU	1	b	0	0.42	46.33	1.43	0.0040
SOYSET	2	b	0	0.69	10.19	1.97	0.0282
STANHO	2	b	0	-0.92	4.90	6.65	0.0423
STERN1	1	b	0	0.11	11.71	0.23	0.7107
STODDA	5	b	0	0.32	133.49	0.63	0.0003
STRACH	3	b	0	0.32	41.13	0.21	0.0403
TARIQ	10	b	0	0.08	29.85	0.83	0.6591
*TAYLOR	4	b	0	-0.04	72.55	6.03	0.7281
TOMINA	2	b	0	-1.06	1.84	3.13	0.1515
VENNER	6	m	0	0.09	27.66	0.64	0.6182
VENNER	3	f	0	0.18	28.98	0.14	0.3399
Subtotal	VENNER			-0.22	56.63	0.79	
VERHOE	3	b	0	-0.25	17.31	4.29	0.2972
WILLE1	7	b	0	0.68	6.06	1.12	0.0955

Appendix Table A26 - 5

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
WITHER	2	b	0	0.23	61.43	0.02	0.0724
ZHENG	26	b	0	0.71	6.34	1.36	0.0739

RR data

	N	96
	NS	91
	Wt	4582.92
Het	Chi	145.46
Het	df	95
Het	P	***
Fixed	RR	1.28
	RRl	1.24
	RRu	1.32
	P	+++
Random	RR	1.27
	RRl	1.22
	RRu	1.33
	P	+++
Asymm	P	N.S.

Appendix Table A26 - 6

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

RR data

	N	96						
	NS	91						
	Wt	4582.92						
	Het Chi	145.46						
	Het df	95						
	Het P	***						
Fixed	RR	1.28						
	RR1	1.24						
	RRu	1.32						
	P	+++						
Random	RR	1.27						
	RR1	1.22						
	RRu	1.33						
	P	+++						
Asymm	P	N.S.						
			<u>Sex</u>					
		both	male	female			Total	
	N	85	6	5			96	
	NS	85	6	5			96	
	Wt	4147.35	253.11	182.46			4582.92	
	Het Chi	137.31	3.99	3.76			145.46	
	Het df	84	5	4			95	
	Het P	***	N.S.	N.S.			***	
Fixed	RR	1.28	1.29	1.34			1.28	
	RR1	1.24	1.14	1.16			1.24	
	RRu	1.32	1.46	1.55			1.32	
	P	+++	+++	+++			+++	
Random	RR	1.26	1.29	1.34			1.27	
	RR1	1.21	1.14	1.16			1.22	
	RRu	1.33	1.46	1.55			1.33	
	P	+++	+++	+++			+++	
Between	Chi						0.41	
Between	df						2	
Between	P						N.S.	
					<u>Continent</u>			
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	26	3	41	18	7	1	96
	NS	23	3	41	17	6	1	91
	Wt	836.69	57.34	2639.33	501.63	531.04	16.88	4582.92
	Het Chi	23.41	0.40	65.12	33.53	13.96	0.00	145.46
	Het df	25	2	40	17	6	0	95
	Het P	N.S.	N.S.	**	**	*	N.S.	***
Fixed	RR	1.35	1.48	1.26	1.26	1.27	2.12	1.28
	RR1	1.26	1.14	1.21	1.15	1.17	1.32	1.24
	RRu	1.45	1.92	1.31	1.38	1.38	3.42	1.32
	P	+++	++	+++	+++	+++	++	+++
Random	RR	1.35	1.48	1.22	1.24	1.24	2.12	1.27
	RR1	1.26	1.14	1.15	1.07	1.08	1.32	1.22
	RRu	1.45	1.92	1.30	1.43	1.43	3.42	1.33
	P	+++	++	+++	++	++	++	+++
Between	Chi							9.03
Between	df							5
Between	P							N.S.

Appendix Table A26 - 6

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

Start year of study
 <1970 1970-79 1980-89 1990+ unknown Total

RR data

	N	6	11	30	39	10	96
NS	4	10	29	38	10	91	
Wt	366.85	493.52	1039.01	1321.20	1362.34	4582.92	
Het Chi	3.30	20.83	52.36	46.29	17.24	145.46	
Het df	5	10	29	38	9	95	
Het P	N.S.	*	**	N.S.	*	***	
Fixed RR	1.30	1.23	1.33	1.23	1.31	1.28	
RRl	1.17	1.13	1.25	1.16	1.24	1.24	
RRu	1.44	1.35	1.41	1.30	1.38	1.32	
P	+++	+++	+++	+++	+++	+++	
Random RR	1.30	1.21	1.39	1.21	1.31	1.27	
RRl	1.17	1.03	1.26	1.14	1.14	1.22	
RRu	1.44	1.42	1.52	1.29	1.51	1.33	
P	+++	+	+++	+++	+++	+++	
Between Chi						5.45	
Between df						4	
Between P						N.S.	

Study type
 CC Pr CS Total

	N	22	15	59	96
NS	22	14	55	91	
Wt	601.77	1684.28	2296.87	4582.92	
Het Chi	38.13	25.92	81.22	145.46	
Het df	21	14	58	95	
Het P	*	*	*	***	
Fixed RR	1.30	1.28	1.27	1.28	
RRl	1.20	1.22	1.22	1.24	
RRu	1.41	1.34	1.33	1.32	
P	+++	+++	+++	+++	
Random RR	1.31	1.26	1.26	1.27	
RRl	1.16	1.13	1.20	1.22	
RRu	1.49	1.40	1.33	1.33	
P	+++	+++	+++	+++	
Between Chi				0.19	
Between df				2	
Between P				N.S.	

Appendix Table A26 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AKCAKA	BARRET	BECKET	BRABIN	CALL	CHEN1	CHHABR	CLARK	DEKKER	DIJKST	DOTTER	FIELDE	FLYNN1	FLYNN2	FORSB1
	FORSB2	FORSB3	FUJI	GUPTA	GURKAN	JAAKKO	KALYO1	KALYO2	KARUNA	KEARNE	KENDIR	KNIGHT	LEE1	LEE2	MAIER	MELIA
	MELSOM	MONTEF	MOYES1	MOYES2	NITTA	ODDY	PETERS	POKHAR	RONCH1	RONCH2	RONCH3	RUDNIK	SARRAZ	SELCUK	SENNHA	SPIEKE
	SQUILL	TIMONE	TSIMOY	VARELA	VAVILLI	WANG	WILLE2	WOLFO1	WOLFO2	WOLFO3	YANG					
2	BERGMA	CSONKA	CUNNI2	EHRLI1	KAPLAN	KELLY	NHANE3	NYSTAD	OLIVET	WEITZ1	WEITZ2	XU				
3	CHINN	SOMERV														
4	AZIZI	BALL	BURR	CUNNI1	DEBENE	DEKOK	GOREN3	GOREN4	GOREN5	GOREN6	HUGHES	LOPEZC	MOHAME	SANZOR	SCHENK	STAZI
	STERN2	ULRIK	VOLKME	VONMAF	ZEIGER	ZEJDA										
13	ALFRA2	FARBE1	FARBE3	MCCON1												

Appendix Table A26 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma (or Current if Lifetime not available)
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP														
GILLIL	GILLIL	1	MCCON1/GILLIL														
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3														
HJERN1	HJERN1	1	HJERN1/HJERN2														
HJERN2	HJERN2	1	HJERN1/HJERN2														
STERN1	STERN1	1	STERN1/STERN2														
KUEHR	KUEHR	1	KUEHR/SPIEKE														
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2														
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6														
Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ALFRA1	4	b	1	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	1.01	?
ARSHAD	7	b	c	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non	*	n
AZIZI	1	b	c	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	*	n
BALL	1	b	c	6	13	all	NAmer	1980	2000	Pr	0	AnyPar	NoParent	unspec	non	*	n
BURR	1	b	1	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	*	n
CUNNI1	11	b	c	8	11	all	NAmer	1988	1996	CS	9	Mother	NotMothr	current	non	0.84	?
DEBENE	1	b	1	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	1.46	y
DEKOK	1	b	c	6	12	all	Eu:wst	1993	1996	CS	6	Mother	NotMothr	unspec	non	*	n
GOREN3	1	b	1	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	*	n
GOREN6	1	b	1	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	1.67	y
HUGHES	1	b	c	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	*	n
KIVITY	5	b	1	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	*	y
LEEDER	3	b	1	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	*	n
LOPEZC	3	b	c	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	1.06	n
MOHAME	2	b	c	9	11	all	Africa	1990	1995	CC	0	Mother	NotMothr	unspec	non	*	n
PALMIE	10	b	c	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non	*	y
RASANE	2	b	1	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	*	n
SANZOR	1	b	1	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	*	n
SCHENK	1	b	1	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	*	n
STAZI	7	b	1	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	*	n
STERN2	7	b	1	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	1.35	y
STRACH	15	b	c	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	<1m	non	*	y
ULRIK	1	b	1	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	*	n
VOLKME	2	b	1	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	*	n
VONMAF	3	b	1	0	17	all	NAmer	1993	2001	CS	7	Mother	NotMothr	ever never	non	*	y
ZEIGER	4	b	1	0	7	all	NAmer	1981	1995	Pr	4	Mother	NotMothr	unspec	non	*	n
ZEJDA	1	b	1	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	*	n
Unadjusted - insufficient data for metaanalysis: as for adjusted plus the following																	
REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
STAZI	2	b	1	0	5	all	Eu:Ita	1993	2002	CS	2	Mother	NotMothr	in life	non	*	n
VOLKME	1	b	1	4	5	all	Auslia	1993	1995	CS	0	AnyPar	NoParent	unspec	non	*	n

Appendix Table A27 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma (or Lifetime if Current not available)

This analysis is restricted to results for:

- 1) Biochemical, total, household (overall), or parental exposure
- 2) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 3) Results not by amount of exposure
- 4) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 5) ASTHMA : lifetime, current
- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 9) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 10) UNEXSO : not specific parent, neither parent, none in household, none
- 11) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 13) RACE : all in study or nearest available, otherwise by race
- 14) ONSET : yes, no (prevalence)
- 15) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A25 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A27 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	CompA25	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ADDOYO	1		b	c	8	17	all	Africa	*	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
AGAB1	14		b	c	6	7	all	Eu:Ita	1994	1999	CC	11	AnyPar	NoParent	current	never	-
AGAB2	14		b	c	13	14	all	Eu:Ita	1994	1999	CC	12	AnyPar	NoParent	current	never	-
ALBA	1		b	l	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALDAWO	2		m	l	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never	-
ALFRA1	2		b	l	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non	-
ANDRAE	2		b	l	0	16	all	Eu:Sca	1985	1988	CS	3	AnyPar	NoParent	in life	non	-
ANNESI	1		b	l	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
ARSHAD	1		b	c	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non	-
BARRET	1		b	l	9	11	all	Eu:Ita	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
BECKET	6		b	l	0	17	all	NAmer	1993	1996	CS	7	AnyHh	NoHhMemb	ever	never	-
BENER	1		b	l	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non	-
BERGMA	1		b	c	3	6	all	Eu:Ger	1990	2000	Pr	8	AnyHh	NoHhMemb	18m	non	-
BRABIN	2		b	l	5	11	all	Eu:UK	1991	1994	CS	1	AnyHh	NoHhMemb	unspec	non	-
BURCHF	5		m	l	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-
BURCHF	8		f	l	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non	-
BUTZ	7		b	l	*	*	all	NAmer	1989	1992	CC	1	TotETS	None	current	non	-
CALL	1		b	c	3	15	all	NAmer	1990	1992	CC	0	AnyHh	NoHhMemb	unspec	non	-
CHEN1	1		b	l	1	1	all	As:FE	1985	1988	CS	0	AnyHh	NoHhMemb	in life	non	-
CHEN2	50	x	b	c	6	17	all	NAmer	1993	1996	CS	1	AnyHh	NoHhMemb	current	non	-
CHHABR	1		b	c	4	17	all	As:cen	*	1998	CS	0	AnyHh	NoHhMemb	unspec	non	-
CLARK	2		b	c	5	7	all	Eu:UK	*	1994	CC	0	Biochem	Low	-	-	saliva
CSONKA	4		b	c	6	13	all	Eu:Sca	*	2000	CS	4	AnyHh	NoHhMemb	<3y	non	-
CUNNI1	1		b	c	8	11	all	NAmer	1988	1996	CS	0	AnyHh	NoHhMemb	current	non	-
DAIGLE	3		b	c	0	*	all	NAmer	1986	1991	CC	7	Mother	NotMothr	unspec	non	-
DEKKER	6		b	c	5	8	all	NAmer	1988	1991	CC	9	AnyHh	NoHhMemb	unspec	non	-
DELL	2		b	l	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non	-
DIJKST	1		b	c	6	12	all	Eu:wst	1986	1990	CS	0	AnyHh	NoHhMemb	current	non	-
DODGE	12		b	l	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non	-
DOLD	21		b	l	9	11	all	Eu:Ger	1989	1992	CS	1	AnyHh	NoHhMemb	unspec	non	-
DOTTER	1		m	c	8	17	all	Eu:est	1994	2001	CS	6	AnyHh	NoHhMemb	unspec	non	-
DOTTER	2		f	c	8	17	all	Eu:est	1994	2001	CS	6	AnyHh	NoHhMemb	unspec	non	-
ECE	3		b	l	6	15	all	Eu:est	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
EHRLI2	3		b	l	3	14	all	NAmer	1988	1992	CC	0	Biochem	Low	-	-	urine
FAGBUL	2		b	c	0	18	all	Africa	*	1994	CC	1	AnyPar	NoParent	unspec	non	-
FARBE2	2		b	l	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non	-
FAROOQ	1		b	l	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never	-
FERGUS	7		b	l	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non	-
FLYNN1	1		b	l	9	10	all	Auslia	1990	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-
FORAST	20		b	l	7	11	all	Eu:Ita	1987	1992	CS	9	AnyPar	NoParent	unspec	non	-
FORSB1	2		b	c	6	12	all	Eu:Sca	1993	1997	CS	14	AnyHh	NoHhMemb	<2y	non	-
FORSB2	2		b	c	6	12	all	Eu:Sca	1993	1997	CS	14	AnyHh	NoHhMemb	<2y	non	-
FORSB3	2		b	c	6	12	all	Eu:Sca	1993	1997	CS	15	AnyHh	NoHhMemb	<2y	non	-
FUJI	1		b	c	8	11	all	As:FE	1994	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-
GILLIL	4		m	l	7	19	all	NAmer	1993	2001	CS	4	AnyHh	NoHhMemb	in life	non	-
GILLIL	12		f	l	7	19	all	NAmer	1993	2001	CS	4	AnyHh	NoHhMemb	in life	non	-
GOLD	7	x	b	c	6	14	all	NAmer	1974	1993	Pr	11	Mother	NotMothr	ever	never	-
GOREN1	3		b	l	7	11	all	As:ME	1980	1986	CS	0	AnyHh	NoHhMemb	current	non	-
GOREN2	5		b	l	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never	-
GORTM1	3		b	l	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non	-
GORTM2	1		b	l	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non	-
GUPTA	2		b	c	9	20	all	As:cen	1997	2001	CS	2	AnyHh	NoHhMemb	unspec	non	-
GURKAN	1		b	l	3	15	all	Eu:est	1995	2002	CC	0	TotETS	None	unspec	non	-
HABY	4		b	c	3	5	all	Auslia	1995	2001	CS	9	AnyPar	NoParent	<6m	non	-
HAJNAL	1		b	l	6	14	all	Eu:wst	1992	1999	CS	13	AnyHh	NoHhMemb	current	non	-
HJERN1	13		b	c	3	15	all	Eu:Sca	1996	2001	CS	9	Mother	NotMothr	ever	never	-
HJERN2	13		b	c	3	15	all	Eu:Sca	1996	2001	CS	9	Father	NotFathr	ever	never	-
HOST	1		b	c	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non	-
HU1	6	x	b	c	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non	-
HU2	24	x	b	c	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non	-
INFANT	10		b	c	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non	-
JAAKKO	2		b	c	4	4	all	Eu:Sca	1992	2001	Pr	7	AnyHh	NoHhMemb	<1m	non	-
JENKIN	5		b	l	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non	-
JONES	2		b	c	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non	-
KARUNA	1		b	c	1	10	all	As:cen	1996	2001	CC	0	TotETS	None	current	non	-
KAY	20		b	l	3	11	all	Eu:UK	*	1995	CS	1	AnyPar	NoParent	unspec	non	-
KENDIR	1		b	l	6	14	all	Eu:est	1993	1998	CS	0	AnyHh	NoHhMemb	current	non	-
KERSHA	7		b	l	0	5	all	Eu:UK	1983	1987	CC	1	AnyHh	LowHh	<3y	non	-
KIVITY	4		b	l	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non	-
KUEHR	6		b	l	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non	-

Appendix Table A27 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	CompA25	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
KUHR	4		b	1	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non	-
LAM1	16	x	b	c	12	15	all	As:FE	1994	1998	CS	4	AnyHh	NoHhMemb	unspec	non	-
LAM2	2	x	b	c	8	13	all	As:FE	1995	1999	CS	4	AnyHh	NoHhMemb	unspec	non	-
LAU	1		b	c	3	10	all	As:FE	1989	1995	CS	0	AnyPar	NoParent	current	non	-
LEE1	1		b	c	6	12	all	As:FE	1995	2001	CS	8	AnyHh	NoHhMemb	current	non	-
LEE2	1		b	c	12	15	all	As:FE	1995	2001	CS	8	AnyHh	NoHhMemb	current	non	-
LEEDER	2		b	l	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non	-
LEEN	1		b	c	9	9	all	Eu:wst	1991	1994	CC	0	AnyPar	NoParent	unspec	non	-
LEROUX	2		b	l	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non	-
LILLJE	1		b	c	7	10	all	Eu:Sca	1991	1997	CS	0	AnyPar	NoParent	unspec	non	-
LINDFO	1		b	c	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non	-
LIS	1		b	l	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non	-
LISTER	3		b	l	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non	-
MATER	5		b	l	5	9	all	NAmer	1994	1997	CS	8	TotETS	None	current	non	-
MARTIN	5		m	l	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MARTIN	6		f	l	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MCCON2	2		b	l	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-
MCKEEV	4		b	l	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never	-
MELSOM	5		m	c	11	17	all	As:cen	1997	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
MELSOM	6		f	c	11	17	all	As:cen	1997	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
MOHAME	1		b	c	9	11	all	Africa	1990	1995	CC	0	AnyHh	NoHhMemb	unspec	non	-
MOUSSA	1		b	c	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non	-
MOYES1	1		b	l	6	7	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MOYES2	1		b	l	13	14	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MUMCUO	6		b	c	3	15	all	As:ME	1986	1994	CC	0	AnyHh	NoHhMemb	unspec	non	-
MURRAY	5		m	l	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non	-
MURRAY	7		f	l	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non	-
NHANE3	61	x	b	c	4	16	w+b	NAmer	1988	2001	CS	6	Biochem	Low	-	-	blood
NILSSO	1		b	l	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non	-
NITTA	1		b	c	7	12	all	As:FE	1995	1996	CS	5	AnyHh	NoHhMemb	current	non	-
OCONNE	1		b	l	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non	-
ODDY	1		b	l	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-
OHARA	6		b	c	3	12	all	As:FE	2001	2002	CS	4	AnyPar	NoParent	current	non	-
PALMIE	3		b	c	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non	-
PETERS	6		b	c	9	14	all	As:FE	1989	1996	Pr	6	AnyHh	NoHhMemb	current	non	-
PIC	1		b	c	5	15	all	Eu:wst	1999	2002	CS	0	AnyPar	NoParent	unspec	non	-
POKHAR	2		b	l	11	15	all	As:cen	1995	2001	CC	5	AnyHh	NoHhMemb	unspec	non	-
PONSON	8		b	l	0	7	all	Auslia	1988	2000	Pr	6	AnyHh	NoHhMemb	<1m	non	-
RASANE	3		b	l	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never	-
RATAGE	1		b	l	5	15	all	As:cen	1996	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
RENNIE	1		b	l	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non	-
RIBETR	1		b	c	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non	-
RONCH1	7		b	l	6	13	all	Eu:Ita	1974	2001	CS	2	AnyHh	Low	current	non	-
RONCH2	3		b	l	6	14	all	Eu:Ita	1992	2001	CS	0	AnyHh	Low	current	non	-
RONCH3	3		b	l	6	14	all	Eu:Ita	1998	2001	CS	0	AnyHh	Low	current	non	-
RONMAR	1	x	b	c	7	8	all	Eu:Sca	1996	2002	Pr	5	Mother	NotMothr	unspec	non	-
ROSASV	1		b	l	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non	-
SARRAZ	1		b	c	6	10	all	SCAmer	*	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
SCHMIT	1		b	c	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non	-
SELCUK	4	x	b	c	7	12	all	Eu:est	1994	1997	CS	6	AnyHh	NoHhMemb	unspec	non	-
SENNHA	1		b	l	1	16	all	Eu:wst	1990	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
SHAMSS	2		b	l	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non	-
SHERMA	2		b	l	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never	-
SHOHAT	4		b	c	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non	-
SIGURS	1		b	l	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non	-
SOTOQU	1		b	c	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non	-
SOYSET	14		b	l	7	13	all	Eu:Sca	1989	1995	CS	5	Mother	NotMothr	in life	non	-
SQUILL	1		b	l	8	12	all	NAmer	1992	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
STANHO	1	x	b	c	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non	-
STERN1	1		b	c	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non	-
STODDA	10		b	c	0	17	all	NAmer	1986	1995	CS	9	Mother	NotMothr	current	non	-
STRACH	9		b	c	13	18	all	Eu:UK	1993	1995	CC	4	Mother	NotMothr	current	non	-
TARIQ	12		b	c	4	4	all	Eu:UK	1989	2000	Pr	1	Mother	NotMothr	in life	non	-
TAYLOR	4		b	l	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non	-
TIMONE	1		b	l	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	current	non	-
TOMINA	2		b	c	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non	-
TSIMOY	1		b	l	12	17	all	NAmer	1985	1987	CS	0	TotETS	None	current	non	-
VARELA	1		b	l	6	15	all	SCAmer	1999	2001	CS	0	AnyHh	NoHhMemb	unspec	non	-
VAVILI	1		b	l	6	15	all	Eu:est	*	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
VENNER	6		m	l	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-

Appendix Table A27 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma (or Lifetime if Current not available)
 Adjusted

REF	NRR	CompA25	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
VENNER	3		f	1	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VERHOE	3		b	1	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never	-
VONMAF	1		b	1	0	17	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	ever	never	-
WANG	2		b	c	11	16	all	As:FE	1995	1999	CS	8	AnyHh	NoHhMemb	unspec	non	-
WILLE1	7		b	c	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-
WITHER	1		b	1	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLFO1	1	x	b	c	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO2	1	x	b	c	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO3	1	x	b	c	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
YANG	2		b	c	6	12	all	As:FE	1994	1997	CS	10	AnyHh	NoHhMemb	unspec	non	-
ZEIGER	1		b	1	0	7	all	NAmer	1981	1995	Pr	0	AnyHh	NoHhMemb	unspec	non	-
ZHENG	19		b	c	6	10	all	As:FE	1999	2002	CC	6	AnyHh	NoHhMemb	in life	non	-

Appendix Table A27 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ADDOYO	1	b	0	13	5	23	33	3.73	(1.17- 11.91)
AGABI1	14	b	11	558	-	148	-	1.34	(1.11- 1.62)
AGABI2	14	b	12	700	-	203	-	1.17	(0.99- 1.39)
ALBA	1	b	0	68	70	34	32	0.91	(0.51- 1.64)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80- 14.60)
BARRET	1	b	0	17	91	9	81	1.68	(0.71- 3.98)
BECKET	6	b	7	133	-	352	-	1.31	(1.03- 1.66)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BERGMA	1	b	8	-	-	-	-	1.32	(0.88- 1.97)
BRABIN	2	b	1	204	-	114	-	1.06	(0.82- 1.37)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	7	b	1	28	-	74	-	1.18	(0.62- 2.24)
CALL	1	b	0	19	19	18	17	0.94	(0.38- 2.37)
CHEN1	1	b	0	64	1668	14	467	1.28	(0.71- 2.30)
CHEN2	50	b	1	24	-	50	-	1.07	(0.61- 1.87)
CHHABR	1	b	0	118	404	313	1733	1.62	(1.27- 2.05)
CLARK	2	b	0	13	23	6	20	1.88	(0.60- 5.88)
CSONKA	4	b	4	-	-	-	-	2.10	(1.20- 3.70)
CUNNI1	1	b	0	396	5339	412	5387	0.97	(0.84- 1.12)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10- 3.47)
DEKKER	6	b	9	386	-	249	-	1.49	(1.24- 1.78)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DIJKST	1	b	0	-	-	-	-	1.95	(0.91- 4.19)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	21	b	1	217	-	295	-	1.10	(0.92- 1.33)
DOTTER	1	m	6	-	-	-	-	0.50	(0.30- 1.00)
DOTTER	2	f	6	-	-	-	-	0.50	(0.20- 1.10)
Subtotal DOTTER								0.50	(0.31- 0.82)
ECE	3	b	0	298	1704	132	906	1.20	(0.96- 1.50)
EHRLI2	3	b	0	37	29	60	88	1.87	(1.04- 3.36)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84- 2.36)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FLYNN1	1	b	0	-	-	-	-	1.26	(0.95- 1.68)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
FORSB1	2	b	14	-	-	-	-	1.10	(0.70- 1.70)
FORSB2	2	b	14	-	-	-	-	0.70	(0.30- 1.60)
FORSB3	2	b	15	-	-	-	-	1.56	(1.18- 2.05)
FUJI	1	b	0	36	602	29	370	0.76	(0.46- 1.27)
GILLIL	4	m	4	-	-	-	-	0.93	(0.74- 1.16)
GILLIL	12	f	4	-	-	-	-	1.05	(0.81- 1.35)
Subtotal GILLIL								0.98	(0.83- 1.16)
GOLD	7	b	11	-	-	-	-	0.99	(0.83- 1.18)
GOREN1	3	b	0	80	766	50	514	1.07	(0.74- 1.56)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
GUPTA	2	b	2	84	-	121	-	1.78	(1.34- 2.36)
GURKAN	1	b	0	50	22	90	74	1.87	(1.04- 3.37)
HABY	4	b	9	86	-	104	-	1.62	(0.95- 2.75)
HAJNAL	1	b	13	-	-	-	-	1.20	(0.94- 1.54)
HJERN1	13	b	9	61	-	58	-	0.72	(0.52- 1.01)
HJERN2	13	b	9	44	-	34	-	0.94	(0.62- 1.43)
HOST	1	b	0	20	457	14	285	0.89	(0.44- 1.79)
HU1	6	b	0	28	148	44	238	1.02	(0.61- 1.71)
HU2	24	b	3	34	-	84	-	1.47	(0.97- 2.23)
INFANT	10	b	19	183	-	273	-	1.40	(0.95- 2.05)
JAAKKO	2	b	7	71	-	93	-	1.21	(0.85- 1.72)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
KARUNA	1	b	0	130	121	170	179	1.13	(0.82- 1.57)

Appendix Table A27 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
KAY	20	b	1	103	-	108	-	1.42 (1.04-	1.95)
KENDIR	1	b	0	-	-	-	-	1.41 (1.16-	1.72)
KERSHA	7	b	1	71	-	15	-	3.12 (1.76-	5.54)
KIVITY	4	b	0	23	94	56	412	1.80 (1.05-	3.07)
KUEHR	6	b	1	28	-	134	-	0.68 (0.44-	1.06)
KUHR	4	b	0	34	469	7	194	2.01 (0.88-	4.61)
LAM1	16	b	4	30	-	35	-	0.84 (0.51-	1.38)
LAM2	2	b	4	-	-	-	-	0.76 (0.47-	1.25)
LAU	1	b	0	19	247	9	158	1.35 (0.60-	3.06)
LEE1	1	b	8	-	-	-	-	1.37 (1.24-	1.51)
LEE2	1	b	8	-	-	-	-	0.99 (0.87-	1.13)
*LEEDER	2	b	1	48	-	11	-	1.33 (0.67-	2.64)
LEEN	1	b	0	46	45	69	51	0.76 (0.44-	1.31)
LEROUX	2	b	10	39	-	58	-	1.79 (1.06-	3.02)
LILLJE	1	b	0	131	176	162	237	1.09 (0.81-	1.47)
LINDFO	1	b	0	109	140	84	178	1.65 (1.15-	2.37)
LIS	1	b	0	-	-	-	-	1.36 (1.00-	1.90)
LISTER	3	b	8	-	-	-	-	1.52 (1.19-	1.94)
MAIER	5	b	8	33	-	73	-	2.26 (1.33-	3.85)
*MARTIN	5	m	1	17	-	41	-	1.75 (0.99-	3.08)
*MARTIN	6	f	1	8	-	20	-	1.98 (0.86-	4.54)
Subtotal MARTIN								1.82 (1.14-	2.91)
MCCON2	2	b	0	2	45	13	163	0.56 (0.12-	2.56)
*MCKEV	4	b	0	1609	7675	2088	13058	1.31 (1.24-	1.39)
MELSOM	5	m	0	-	-	-	-	3.00 (1.30-	6.70)
MELSOM	6	f	0	-	-	-	-	1.00 (0.30-	3.10)
Subtotal MELSOM								2.09 (1.07-	4.08)
MOHAME	1	b	0	-	-	-	-	1.60 (0.80-	3.20)
MOUSSA	1	b	0	1	0	202	203	3.01~(0.12-	74.44)
MOYES1	1	b	0	358	1017	295	886	1.06 (0.88-	1.26)
MOYES2	1	b	0	363	1285	252	842	0.94 (0.79-	1.13)
MUMCUO	6	b	0	181	62	119	38	0.93 (0.59-	1.48)
MURRAY	5	m	1	50	-	153	-	1.41 (0.84-	2.37)
MURRAY	7	f	1	22	-	67	-	1.31 (0.67-	2.57)
Subtotal MURRAY								1.37 (0.91-	2.07)
NHANE3	61	b	6	321	-	126	-	1.25 (0.74-	2.11)
NILSSO	1	b	0	-	-	-	-	1.00 (0.70-	1.40)
NITTA	1	b	5	-	-	-	-	0.91 (0.54-	1.53)
OCONNE	1	b	0	264	137	136	91	1.29 (0.92-	1.80)
*ODDY	1	b	4	-	-	-	-	1.27 (1.04-	1.55)
OHARA	6	b	4	82	-	59	-	0.91 (0.65-	1.27)
PALMIE	3	b	0	235	337	67	96	1.00 (0.70-	1.42)
PETERS	6	b	6	-	-	-	-	0.86 (0.64-	1.15)
PIC	1	b	0	51	829	60	1069	1.10 (0.75-	1.61)
POKHAR	2	b	5	27	-	13	-	3.33 (1.85-	7.65)
*PONSON	8	b	6	185	-	88	-	1.03 (0.83-	1.26)
RASANE	3	b	3	101	-	76	-	1.59 (1.09-	2.31)
RATAGE	1	b	0	62	30	58	30	1.07 (0.58-	1.99)
RENNIE	1	b	6	-	-	-	-	1.02 (0.60-	1.75)
RIBEIR	1	b	0	-	-	-	-	1.20 (0.59-	2.41)
RONCH1	7	b	2	40	-	83	-	1.40 (1.02-	1.91)
RONCH2	3	b	0	60	351	93	726	1.33 (0.94-	1.89)
RONCH3	3	b	0	40	312	91	696	0.98 (0.66-	1.46)
RONMAR	1	b	5	-	-	-	-	1.60 (1.12-	2.28)
ROSASV	1	b	0	9	6	65	68	1.57 (0.53-	4.66)
SARRAZ	1	b	0	6	8	8	13	1.22 (0.31-	4.83)
SCHMIT	1	b	4	-	-	-	-	2.07 (1.21-	3.54)
SELCUK	4	b	6	240	-	68	-	1.28 (0.94-	1.75)
SENNHA	1	b	0	119	1631	132	2268	1.25 (0.97-	1.62)
SHAMSS	2	b	0	-	-	-	-	1.39 (1.12-	1.74)
*SHERMA	2	b	2	-	-	-	-	1.18 (0.76-	1.83)
SHOHAT	4	b	12	187	-	493	-	1.21 (0.95-	1.55)
*SIGURS	1	b	0	-	-	-	-	1.20 (0.41-	3.60)
SOTOQU	1	b	0	76	173	487	1692	1.53 (1.14-	2.04)
SOYSET	14	b	5	35	-	16	-	2.80 (1.30-	6.10)
SQUILL	1	b	0	38	80	97	226	1.11 (0.70-	1.74)
STANHO	1	b	0	5	171	16	197	0.36 (0.13-	1.00)
STERN1	1	b	0	21	499	29	768	1.11 (0.63-	1.98)

Appendix Table A27 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma (or Lifetime if Current not available)
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
STODDA	10	b	9	224	-	443	-	1.36	(1.14- 1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85- 1.79)
TARIQ	12	b	1	48	-	133	-	0.89	(0.57- 1.40)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
TIMONE	1	b	0	10	225	170	2139	0.56	(0.29- 1.07)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
TSIMOY	1	b	0	9	123	4	57	1.04	(0.31- 3.53)
VARELA	1	b	0	27	13	7	10	2.97	(0.92- 9.57)
VAVILI	1	b	0	60	74	40	30	0.61	(0.34- 1.09)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE	3	b	0	78	185	39	72	0.78	(0.49- 1.25)
VONMAF	1	b	0	166	766	217	1260	1.26	(1.01- 1.57)
WANG	2	b	8	12212	-	8425	-	1.08	(1.05- 1.12)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
WITHER	1	b	0	202	633	296	1107	1.19	(0.97- 1.46)
WOLFO1	1	b	7	-	-	-	-	1.17	(0.57- 2.43)
WOLFO2	1	b	7	-	-	-	-	1.01	(0.42- 2.41)
WOLFO3	1	b	10	-	-	-	-	2.11	(1.15- 3.87)
YANG	2	b	10	90	-	76	-	0.87	(0.61- 1.22)
*ZEIGER	1	b	0	8	22	42	143	1.24	(0.67- 2.28)
ZHENG	19	b	6	285	-	118	-	1.40	(1.10- 1.90)
Partial Totals				25784	38046	23124	51996		
*prospective study									~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO	1	b	0	1.32	2.85	3.82	0.0262
AGABI1	14	b	11	0.29	107.50	1.94	0.0024
AGABI2	14	b	12	0.16	133.43	0.00	0.0697
ALBA	1	b	0	-0.09	11.15	0.69	0.7647
ALDAWO	2	m	0	0.76	8.40	3.05	0.0274
ALFRA1	2	b	0	0.41	22.65	1.46	0.0498
ANDRAE	2	b	3	-0.01	54.89	1.56	0.9406
ANNESI	1	b	0	0.25	89.09	0.81	0.0166
ARSHAD	1	b	7	1.20	1.82	1.99	0.1044
BARRET	1	b	0	0.52	5.17	0.67	0.2373
BECKET	6	b	7	0.27	67.46	0.84	0.0266
BENER	1	b	0	0.24	19.32	0.14	0.2839
BERGMA	1	b	8	0.28	23.66	0.34	0.1769
BRABIN	2	b	1	0.06	58.33	0.59	0.6563
BURCHF	5	m	1	0.22	32.51	0.10	0.2200
BURCHF	8	f	1	0.00	24.97	0.63	1.0000
Subtotal BURCHF				-0.10	57.49	0.73	
BUTZ	7	b	1	0.17	9.31	0.00	0.6135
CALL	1	b	0	-0.06	4.55	0.21	0.9029
CHEN1	1	b	0	0.25	11.14	0.09	0.4102
CHEN2	50	b	1	0.07	12.24	0.10	0.8128
CHHABR	1	b	0	0.48	67.93	7.05	0.0001
CLARK	2	b	0	0.63	2.97	0.67	0.2753
CSONKA	4	b	4	0.74	12.12	4.13	0.0098
CUNNI1	1	b	0	-0.03	187.78	6.72	0.6744
DAIGLE	3	b	7	0.67	11.64	3.08	0.0217
DEKKER	6	b	9	0.40	117.58	6.79	0.0000
DELL	2	b	0	0.42	18.30	1.24	0.0733
DIJKST	1	b	0	0.67	6.59	1.71	0.0865
DODGE	12	b	1	0.41	7.12	0.43	0.2794
DOLD	21	b	1	0.10	113.12	0.45	0.3107
DOTTER	1	m	6	-0.69	10.60	7.69	0.0240
DOTTER	2	f	6	-0.69	5.29	3.83	0.1110
Subtotal DOTTER				-1.70	15.89	11.52	
ECE	3	b	0	0.18	79.23	0.05	0.1041
EHRLI2	3	b	0	0.63	11.17	2.45	0.0363
FAGBUL	2	b	1	0.34	14.40	0.49	0.1923
FARBE2	2	b	3	0.41	57.72	3.71	0.0017
FAROOQ	1	b	0	0.25	72.93	0.67	0.0297
*FERGUS	7	b	0	0.04	37.52	0.53	0.8106

Appendix Table A27 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Current Asthma (or Lifetime if Current not available)
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
FLYNN1	1	b	0	0.23	47.28	0.25	0.1120
FORAST	20	b	9	0.25	37.10	0.29	0.1327
FORSB1	2	b	14	0.10	19.52	0.08	0.6737
FORSB2	2	b	14	-0.36	5.48	1.46	0.4036
FORSB3	2	b	15	0.44	50.37	4.13	0.0016
FUJI	1	b	0	-0.27	15.01	2.76	0.2946
GILLIL	4	m	4	-0.07	76.04	4.06	0.5268
GILLIL	12	f	4	0.05	58.89	0.71	0.7081
Subtotal GILLIL				-0.34	134.93	4.77	
GOLD	7	b	11	-0.01	124.12	3.53	0.9108
GOREN1	3	b	0	0.07	27.97	0.21	0.7071
GOREN2	5	b	2	0.22	99.84	0.32	0.0316
GORTM1	3	b	7	0.40	36.85	2.13	0.0155
GORTM2	1	b	0	0.63	6.99	1.53	0.0978
GUPTA	2	b	2	0.58	47.97	8.39	0.0001
GURKAN	1	b	0	0.63	11.10	2.42	0.0372
HABY	4	b	9	0.48	13.60	1.43	0.0752
HAJNAL	1	b	13	0.18	63.05	0.04	0.1477
HJERN1	13	b	9	-0.33	34.86	8.27	0.0524
HJERN2	13	b	9	-0.06	22.00	1.07	0.7716
HOST	1	b	0	-0.12	7.87	0.59	0.7459
HU1	6	b	0	0.02	14.41	0.26	0.9302
HU2	24	b	3	0.39	22.17	1.14	0.0697
INFANT	10	b	19	0.34	25.97	0.82	0.0864
JAAKKO	2	b	7	0.19	30.93	0.03	0.2891
JENKIN	5	b	7	0.23	116.41	0.61	0.0126
JONES	2	b	0	0.16	9.47	0.00	0.6266
KARUNA	1	b	0	0.12	36.46	0.05	0.4564
KAY	20	b	1	0.35	38.89	1.44	0.0288
KENDIR	1	b	0	0.34	99.03	3.39	0.0006
KERSHA	7	b	1	1.14	11.69	11.21	0.0001
KIVITY	4	b	0	0.59	13.44	2.48	0.0311
KUEHR	6	b	1	-0.39	19.88	5.89	0.0855
KUHR	4	b	0	0.70	5.57	1.62	0.0997
LAM1	16	b	4	-0.17	15.51	1.72	0.4923
LAM2	2	b	4	-0.27	16.06	3.01	0.2714
LAU	1	b	0	0.30	5.74	0.12	0.4716
LEE1	1	b	8	0.31	395.94	9.67	0.0000
LEE2	1	b	8	-0.01	224.74	6.38	0.8802
*LEEDER	2	b	1	0.29	8.17	0.13	0.4149
LEEN	1	b	0	-0.28	12.81	2.47	0.3157
LEROUX	2	b	10	0.58	14.02	2.52	0.0293
LILLJE	1	b	0	0.09	42.18	0.23	0.5801
LINDFO	1	b	0	0.50	29.55	3.46	0.0065
LIS	1	b	0	0.31	37.30	0.83	0.0604
LISTER	3	b	8	0.42	64.33	4.36	0.0008
MAIER	5	b	8	0.82	13.60	5.87	0.0026
*MARTIN	5	m	1	0.56	11.93	1.92	0.0533
*MARTIN	6	f	1	0.68	5.55	1.53	0.1075
Subtotal MARTIN				0.93	17.48	3.45	
MCCON2	2	b	0	-0.58	1.65	0.91	0.4523
*MCKEEV	4	b	0	0.27	1119.12	14.12	0.0000
MELSOM	5	m	0	1.10	5.71	5.05	0.0086
MELSOM	6	f	0	0.00	2.82	0.07	1.0000
Subtotal MELSOM				0.78	8.53	5.12	
MOHAME	1	b	0	0.47	8.00	0.78	0.1838
MOUSSA	1	b	0	1.10	0.37	0.33	0.5000
MOYES1	1	b	0	0.06	120.55	1.27	0.5411
MOYES2	1	b	0	-0.06	115.09	5.38	0.5355
MUMCUO	6	b	0	-0.07	17.74	0.93	0.7676
MURRAY	5	m	1	0.34	14.28	0.49	0.1941
MURRAY	7	f	1	0.27	8.50	0.11	0.4311
Subtotal MURRAY				0.30	22.78	0.60	
NHANE3	61	b	6	0.22	14.00	0.06	0.4038
NILSSO	1	b	0	0.00	31.98	0.80	1.0000
NITTA	1	b	5	-0.09	14.17	0.91	0.7226
OCONNE	1	b	0	0.25	33.98	0.31	0.1384
*ODDY	1	b	4	0.24	96.50	0.63	0.0189
OHARA	6	b	4	-0.09	34.25	2.19	0.5810

Appendix Table A27 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma (or Lifetime if Current not available)
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
PALMIE	3	b	0	-0.00	30.71	0.78	0.9963
PETERS	6	b	6	-0.15	44.74	4.28	0.3131
PIC	1	b	0	0.09	26.03	0.12	0.6397
POKHAR	2	b	5	1.20	7.63	8.32	0.0009
*PONSON	8	b	6	0.03	88.18	1.47	0.7813
RASANE	3	b	3	0.46	27.24	2.54	0.0155
RATAGE	1	b	0	0.07	10.00	0.08	0.8330
RENNIE	1	b	6	0.02	13.41	0.26	0.9422
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONCH1	7	b	2	0.34	39.05	1.24	0.0355
RONCH2	3	b	0	0.29	31.60	0.53	0.1048
RONCH3	3	b	0	-0.02	24.61	0.78	0.9224
RONMAR	1	b	5	0.47	30.41	2.95	0.0095
ROSASV	1	b	0	0.45	3.25	0.28	0.4168
SARRAZ	1	b	0	0.20	2.03	0.00	0.7783
SCHMIT	1	b	4	0.73	13.33	4.32	0.0079
SELCUK	4	b	6	0.25	39.78	0.31	0.1195
SENNHA	1	b	0	0.23	58.71	0.27	0.0833
SHAMSS	2	b	0	0.33	79.17	2.31	0.0034
*SHERMA	2	b	2	0.17	19.90	0.00	0.4603
SHOHAT	4	b	12	0.19	64.12	0.07	0.1269
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOTOQU	1	b	0	0.42	46.33	3.24	0.0040
SOYSET	14	b	5	1.03	6.43	4.88	0.0090
SQUILL	1	b	0	0.10	18.67	0.06	0.6613
STANHO	1	b	0	-1.02	3.66	5.09	0.0507
STERN1	1	b	0	0.11	11.71	0.03	0.7107
STODDA	10	b	9	0.31	124.44	2.76	0.0006
STRACH	9	b	4	0.21	27.70	0.07	0.2759
TARIQ	12	b	1	-0.12	19.03	1.44	0.6112
*TAYLOR	4	b	0	-0.04	72.55	2.88	0.7281
TIMONE	1	b	0	-0.58	9.03	4.94	0.0808
TOMINA	2	b	0	-1.06	1.84	2.72	0.1515
TSIMOY	1	b	0	0.04	2.59	0.04	0.9464
VARELA	1	b	0	1.09	2.80	2.42	0.0687
VAVILI	1	b	0	-0.50	11.30	4.86	0.0945
VENNER	6	m	0	0.09	27.66	0.11	0.6182
VENNER	3	f	0	0.18	28.98	0.01	0.3399
Subtotal	VENNER			-0.04	56.63	0.12	
VERHOE	3	b	0	-0.25	17.31	2.90	0.2972
VONMAF	1	b	0	0.23	78.55	0.40	0.0417
WANG	2	b	8	0.08	3689.08	24.53	0.0000
WILLE1	7	b	0	0.68	6.06	1.63	0.0955
WITHER	1	b	0	0.18	92.49	0.03	0.0890
WOLFO1	1	b	7	0.16	7.31	0.00	0.6712
WOLFO2	1	b	7	0.01	5.03	0.11	0.9822
WOLFO3	1	b	10	0.75	10.43	3.61	0.0159
YANG	2	b	10	-0.14	31.98	2.84	0.4310
*ZEIGER	1	b	0	0.21	10.38	0.03	0.4914
ZHENG	19	b	6	0.34	51.44	1.63	0.0158

Appendix Table A27 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma (or Lifetime if Current not available)
 Adjusted

RR data

	N	152
	NS	145
	Wt	10400.51
Het	Chi	325.99
Het	df	151
Het	P	***
Fixed	RR	1.17
	RRl	1.15
	RRu	1.19
	P	+++
Random	RR	1.22
	RRl	1.17
	RRu	1.27
	P	+++
Asymm	P	**

Appendix Table A27 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma (or Lifetime if Current not available)
 Adjusted

RR data

	N	152			
	NS	145			
	Wt	10400.51			
Het	Chi	325.99			
Het	df	151			
Het	P	***			
Fixed	RR	1.17			
	RRl	1.15			
	RRu	1.19			
	P	+++			
Random	RR	1.22			
	RRl	1.17			
	RRu	1.27			
	P	+++			
Asymm	P	**			
			<u>Sex</u>		
	both	male	female	Total	
	N	137	8	7	152
	NS	137	8	7	152
	Wt	10078.38	187.14	134.99	10400.51
Het	Chi	296.59	22.07	6.00	325.99
Het	df	136	7	6	151
Het	P	***	**	N.S.	***
Fixed	RR	1.17	1.12	1.08	1.17
	RRl	1.15	0.97	0.91	1.15
	RRu	1.20	1.29	1.28	1.19
	P	+++	N.S.	N.S.	+++
Random	RR	1.22	1.25	1.08	1.22
	RRl	1.18	0.94	0.91	1.17
	RRu	1.27	1.66	1.28	1.27
	P	+++	N.S.	N.S.	+++
Between	Chi				1.33
Between	df				2
Between	P				N.S.

Appendix Table A27 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma (or Lifetime if Current not available)
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
2	CUNNI2	KAPLAN	KELLY	NYSTAD	OLIVET	WEITZ1	WEITZ2	XU								
3	CHINN	EHRLI1	KNIGHT	SOMERV												
4	AKCAKA	AZIZI	BALL	BURR	DEBENE	DEKOK	FIELDE	FLYNN2	GOREN3	GOREN4	GOREN5	GOREN6	HUGHES	KALYO1	KALYO2	KEARNE
	LOPEZC	MELIA	MONTEF	RUDNIK	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	ZEJDA					
15	ALFRA2	FARBE1	FARBE3	MCCON1	SPIEKE	WILLE2										

Appendix Table A27 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Current Asthma (or Lifetime if Current not available)
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP													RR	SIG			
Adjusted - insufficient data for metaanalysis																				
REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG		
GILLIL	GILLIL																			
		1																		
MCCON1	GILLIL																			
FARBE2	FARBE2																			
		1																		
FARBE1	FARBE2	FARBE3																		
BRABIN	BRABIN																			
		1																		
KELLY	BRABIN																			
HJERN1	HJERN1																			
		1																		
HJERN1	HJERN2																			
HJERN2	HJERN2																			
		1																		
HJERN1	HJERN2																			
STERN1	STERN1																			
		1																		
STERN1	STERN2																			
KUEHR	KUEHR																			
		1																		
KUEHR	SPIEKE																			
FORSB3	FORSB3																			
		1																		
FORSB3	WILLE2																			
ALFRA1	ALFRA1																			
		1																		
ALFRA1	ALFRA2																			
GOREN1	GOREN1																			
		1																		
GOREN1	GOREN3	4	5	6																
WOLFO1	WOLFO1																			
		1																		
WOLFO1	WOLFO2	WOLFO3																		
WOLFO2	WOLFO2																			
		1																		
WOLFO1	WOLFO2	WOLFO3																		
WOLFO3	WOLFO3																			
		1																		
WOLFO1	WOLFO2	WOLFO3																		

Appendix Table A28 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma (or Lifetime if Current not available)

This analysis is restricted to results for:

- 1) Parental exposure
- 2) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 3) Results not by amount of exposure
- 4) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 5) ASTHMA : lifetime, current
- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : not specific parent, neither parent, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A26 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A28 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	CompA26	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	14		b	c	6	7	all	Eu:Ita	1994	1999	CC	11	AnyPar	NoParent	current	never
AGABI2	14		b	c	13	14	all	Eu:Ita	1994	1999	CC	12	AnyPar	NoParent	current	never
ALBA	2		b	l	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAWO	2		m	l	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never
ALFRA1	2		b	l	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non
ANDRAE	2		b	l	0	16	all	Eu:Sca	1985	1988	CS	3	AnyPar	NoParent	in life	non
ANNESI	1		b	l	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non
ARSHAD	1		b	c	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non
BENER	1		b	l	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non
BURCHF	5		m	l	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BURCHF	8		f	l	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BUTZ	4		b	l	*	*	all	NAmer	1989	1992	CC	0	AnyPar	NotSpPar	ever	never
CHEN2	47	x	b	c	6	17	all	NAmer	1993	1996	CS	1	Mother	NotMothr	ever	never
DAIGLE	3		b	c	0	*	all	NAmer	1986	1991	CC	7	Mother	NotMothr	unspec	non
DELL	2		b	l	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non
DODGE	12		b	l	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non
DOLD	7		b	l	9	11	all	Eu:Ger	1989	1992	CS	0	AnyPar	NoParent	unspec	non
ECE	7		b	l	6	15	all	Eu:est	1999	2001	CS	0	Mother	NotMothr	current	non
EHRLI2	4		b	l	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	ever	never
FAGBUL	2		b	c	0	18	all	Africa	*	1994	CC	1	AnyPar	NoParent	unspec	non
FARBE2	2		b	l	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non
FAROOQ	1		b	l	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never
FERGUS	7		b	l	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non
FORAST	20		b	l	7	11	all	Eu:Ita	1987	1992	CS	9	AnyPar	NoParent	unspec	non
GILLIL	36		b	c	7	19	all	NAmer	1993	2001	CS	8	Mother	NoHhMemb	current	non
GOLD	7	x	b	c	6	14	all	NAmer	1974	1993	Pr	11	Mother	NotMothr	ever	never
GOREN1	4		b	l	7	11	all	As:ME	1980	1986	CS	0	Mother	NotMothr	current	non
GOREN2	5		b	l	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never
GORTM1	3		b	l	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non
GORTM2	1		b	l	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non
HABY	4		b	c	3	5	all	Auslia	1995	2001	CS	9	AnyPar	NoParent	<6m	non
HAJNAL	3		b	l	6	14	all	Eu:wst	1992	1999	CS	13	Mother	NotMothr	current	non
HJERN1	13		b	c	3	15	all	Eu:Sca	1996	2001	CS	9	Mother	NotMothr	ever	never
HJERN2	13		b	c	3	15	all	Eu:Sca	1996	2001	CS	9	Father	NotFathr	ever	never
HOST	1		b	c	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non
HU1	6	x	b	c	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non
HU2	24	x	b	c	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non
INFANT	10		b	c	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non
JENKIN	5		b	l	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non
JONES	2		b	c	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non
KAY	20		b	l	3	11	all	Eu:UK	*	1995	CS	1	AnyPar	NoParent	unspec	non
KERSHA	5		b	l	0	5	all	Eu:UK	1983	1987	CC	1	Mother	LowMothr	<3y	non
KIVITY	4		b	l	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non
KUEHR	6		b	l	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non
KUHR	4		b	l	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non
LAM1	20	x	b	c	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	12	x	b	c	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LAU	1		b	c	3	10	all	As:FE	1989	1995	CS	0	AnyPar	NoParent	current	non
LEEDER	2		b	l	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non
LEEN	1		b	c	9	9	all	Eu:wst	1991	1994	CC	0	AnyPar	NoParent	unspec	non
LEROUX	2		b	l	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non
LILLJE	1		b	c	7	10	all	Eu:Sca	1991	1997	CS	0	AnyPar	NoParent	unspec	non
LINDFO	1		b	c	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non
LIS	1		b	l	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non
LISTER	3		b	l	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non
MARTIN	5		m	l	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MARTIN	6		f	l	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MCCON2	1		b	l	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non
MCKEEV	4		b	l	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never
MOUSSA	1		b	c	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCUO	2		b	c	3	15	all	As:ME	1986	1994	CC	0	Mother	NotMothr	unspec	non
MURRAY	5		m	l	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
MURRAY	7		f	l	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
NILSSO	1		b	l	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non
OCONNE	1		b	l	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non
OHARA	6		b	c	3	12	all	As:FE	2001	2002	CS	4	AnyPar	NoParent	current	non
PALMIE	3		b	c	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non
PIC	1		b	c	5	15	all	Eu:wst	1999	2002	CS	0	AnyPar	NoParent	unspec	non
PONSON	4		b	l	0	7	all	Auslia	1988	2000	Pr	6	Mother	NotMothr	<1m	non
RASANE	3		b	l	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never

Appendix Table A28 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Current Asthma (or Lifetime if Current not available)
 Adjusted

REF	NRR	CompA26	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
RATAGE	2		b	1	5	15	all	As:cen	1996	2000	CC	0	Father	NotFathr	unspec	non
RENNIE	1		b	1	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non
RIBEIR	1		b	c	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non
RONMAR	1	x	b	c	7	8	all	Eu:Sca	1996	2002	Pr	5	Mother	NotMothr	unspec	non
ROSASV	1		b	1	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non
SCHMIT	1		b	c	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHAMSS	2		b	1	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non
SHERMA	2		b	1	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never
SHOHAT	4		b	c	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non
SIGURS	1		b	1	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non
SOTOQU	1		b	c	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non
SOYSET	14		b	1	7	13	all	Eu:Sca	1989	1995	CS	5	Mother	NotMothr	in life	non
STANHO	1	x	b	c	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
STERN1	1		b	c	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non
STODDA	10		b	c	0	17	all	NAmer	1986	1995	CS	9	Mother	NotMothr	current	non
STRACH	9		b	c	13	18	all	Eu:UK	1993	1995	CC	4	Mother	NotMothr	current	non
TARIQ	12		b	c	4	4	all	Eu:UK	1989	2000	Pr	1	Mother	NotMothr	in life	non
TAYLOR	4		b	1	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non
TOMINA	2		b	c	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non
VENNER	6		m	1	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VENNER	3		f	1	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VERHOE	3		b	1	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never
WILLE1	7		b	c	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non
WITHER	6		b	1	14	16	all	Eu:UK	1995	1998	CS	5	Mother	NotMothr	current	non
ZHENG	26		b	c	6	10	all	As:FE	1999	2002	CC	0	Mother	NotMothr	in life	non

Appendix Table A28 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	14	b	11	558	-	148	-	1.34	(1.11- 1.62)
AGABI2	14	b	12	700	-	203	-	1.17	(0.99- 1.39)
ALBA	2	b	0	32	30	70	72	1.10	(0.60- 1.99)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80- 14.60)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
BUTZ	4	b	0	55	51	47	54	1.24	(0.72- 2.14)
CHEN2	47	b	1	37	-	37	-	1.11	(0.67- 1.83)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10- 3.47)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	7	b	0	176	1822	235	2931	1.20	(0.98- 1.48)
ECE	7	b	0	96	530	334	2080	1.13	(0.88- 1.44)
EHRLI2	4	b	0	-	-	-	-	2.00	(1.10- 3.80)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84- 2.36)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
GILLIL	36	b	8	-	-	-	-	0.90	(0.50- 1.50)
GOLD	7	b	11	-	-	-	-	0.99	(0.83- 1.18)
GOREN1	4	b	0	37	279	93	1001	1.43	(0.95- 2.14)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
HABY	4	b	9	86	-	104	-	1.62	(0.95- 2.75)
HAJNAL	3	b	13	-	-	-	-	1.16	(0.89- 1.55)
HJERN1	13	b	9	61	-	58	-	0.72	(0.52- 1.01)
HJERN2	13	b	9	44	-	34	-	0.94	(0.62- 1.43)
HOST	1	b	0	20	457	14	285	0.89	(0.44- 1.79)
HU1	6	b	0	28	148	44	238	1.02	(0.61- 1.71)
HU2	24	b	3	34	-	84	-	1.47	(0.97- 2.23)
INFANT	10	b	19	183	-	273	-	1.40	(0.95- 2.05)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KERSHA	5	b	1	51	-	35	-	2.43	(1.55- 3.79)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	6	b	1	28	-	134	-	0.68	(0.44- 1.06)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	20	b	4	-	-	35	-	2.13	(0.72- 6.33)
LAM2	12	b	4	-	-	-	-	0.69	(0.39- 1.22)
LAU	1	b	0	19	247	9	158	1.35	(0.60- 3.06)
*LEEDER	2	b	1	48	-	11	-	1.33	(0.67- 2.64)
LEEN	1	b	0	46	45	69	51	0.76	(0.44- 1.31)
LEROUX	2	b	10	39	-	58	-	1.79	(1.06- 3.02)
LILLJE	1	b	0	131	176	162	237	1.09	(0.81- 1.47)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15- 2.37)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
MCCON2	1	b	0	7	59	8	149	2.21	(0.77- 6.37)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MOUSSA	1	b	0	1	0	202	203	3.01	(0.12- 74.44)
MUMCUO	2	b	0	0	4	300	96	0.04	(0.00- 0.67)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY								1.37	(0.91- 2.07)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)

Appendix Table A28 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Current Asthma (or Lifetime if Current not available)
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
OHARA	6	b	4	82	-	59	-	0.91	(0.65- 1.27)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70- 1.42)
PIC	1	b	0	51	829	60	1069	1.10	(0.75- 1.61)
*PONSON	4	b	6	130	-	146	-	1.05	(0.87- 1.27)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)
RATAGE	2	b	0	51	29	69	31	0.79	(0.42- 1.47)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
RIBEIR	1	b	0	-	-	-	-	1.20	(0.59- 2.41)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12- 2.28)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SHAMSS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95- 1.55)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14- 2.04)
SOYSET	14	b	5	35	-	16	-	2.80	(1.30- 6.10)
STANHO	1	b	0	5	171	16	197	0.36	(0.13- 1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63- 1.98)
STODDA	10	b	9	224	-	443	-	1.36	(1.14- 1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85- 1.79)
TARIQ	12	b	1	48	-	133	-	0.89	(0.57- 1.40)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE	3	b	0	78	185	39	72	0.78	(0.49- 1.25)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
WITHER	6	b	5	103	-	395	-	1.50	(1.14- 1.98)
ZHENG	26	b	0	13	13	390	793	2.03	(0.93- 4.43)
Partial Totals				8841	23323	11556	38668		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	14	b	11	0.29	107.50	0.48	0.0024
AGABI2	14	b	12	0.16	133.43	0.64	0.0697
ALBA	2	b	0	0.09	10.78	0.19	0.7608
ALDAWO	2	m	0	0.76	8.40	2.40	0.0274
ALFRA1	2	b	0	0.41	22.65	0.78	0.0498
ANDRAE	2	b	3	-0.01	54.89	3.06	0.9406
ANNESI	1	b	0	0.25	89.09	0.07	0.0166
ARSHAD	1	b	7	1.20	1.82	1.74	0.1044
BENER	1	b	0	0.24	19.32	0.01	0.2839
BURCHF	5	m	1	0.22	32.51	0.00	0.2200
BURCHF	8	f	1	0.00	24.97	1.28	1.0000
Subtotal BURCHF				-0.24	57.49	1.28	
BUTZ	4	b	0	0.21	12.89	0.00	0.4416
CHEN2	47	b	1	0.10	15.22	0.23	0.6839
DAIGLE	3	b	7	0.67	11.64	2.32	0.0217
DELL	2	b	0	0.42	18.30	0.68	0.0733
DODGE	12	b	1	0.41	7.12	0.23	0.2794
DOLD	7	b	0	0.19	92.36	0.15	0.0734
ECE	7	b	0	0.12	63.38	0.71	0.3376
EHRLI2	4	b	0	0.69	10.00	2.18	0.0284
FAGBUL	2	b	1	0.34	14.40	0.20	0.1923
FARBE2	2	b	3	0.41	57.72	2.00	0.0017
FAROOQ	1	b	0	0.25	72.93	0.06	0.0297
*FERGUS	7	b	0	0.04	37.52	1.31	0.8106
FORAST	20	b	9	0.25	37.10	0.02	0.1327
GILLIL	36	b	8	-0.11	12.73	1.40	0.7070
GOLD	7	b	11	-0.01	124.12	6.92	0.9108
GOREN1	4	b	0	0.36	23.61	0.40	0.0838
GOREN2	5	b	2	0.22	99.84	0.01	0.0316
GORTM1	3	b	7	0.40	36.85	1.10	0.0155
GORTM2	1	b	0	0.63	6.99	1.12	0.0978
HABY	4	b	9	0.48	13.60	0.89	0.0752

Appendix Table A28 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma (or Lifetime if Current not available)
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
HAJNAL	3	b	13	0.15	49.92	0.30	0.2943
HJERN1	13	b	9	-0.33	34.86	10.73	0.0524
HJERN2	13	b	9	-0.06	22.00	1.83	0.7716
HOST	1	b	0	-0.12	7.87	0.92	0.7459
HU1	6	b	0	0.02	14.41	0.59	0.9302
HU2	24	b	3	0.39	22.17	0.56	0.0697
INFANT	10	b	19	0.34	25.97	0.32	0.0864
JENKIN	5	b	7	0.23	116.41	0.00	0.0126
JONES	2	b	0	0.16	9.47	0.04	0.6266
KAY	20	b	1	0.35	38.89	0.60	0.0288
KERSHA	5	b	1	0.89	19.22	8.42	0.0001
KIVITY	4	b	0	0.59	13.44	1.76	0.0311
KUEHR	6	b	1	-0.39	19.88	7.44	0.0855
KUHR	4	b	0	0.70	5.57	1.24	0.0997
LAM1	20	b	4	0.76	3.25	0.91	0.1727
LAM2	12	b	4	-0.37	11.81	4.21	0.2022
LAU	1	b	0	0.30	5.74	0.03	0.4716
*LEEDER	2	b	1	0.29	8.17	0.03	0.4149
LEEN	1	b	0	-0.28	12.81	3.29	0.3157
LEROUX	2	b	10	0.58	14.02	1.78	0.0293
LILLJE	1	b	0	0.09	42.18	0.84	0.5801
LINDFO	1	b	0	0.50	29.55	2.23	0.0065
LIS	1	b	0	0.31	37.30	0.25	0.0604
LISTER	3	b	8	0.42	64.33	2.39	0.0008
*MARTIN	5	m	1	0.56	11.93	1.33	0.0533
*MARTIN	6	f	1	0.68	5.55	1.16	0.1075
Subtotal	MARTIN			0.79	17.48	2.49	
MCCON2	1	b	0	0.79	3.43	1.10	0.1420
*MCKEEV	4	b	0	0.27	1119.12	2.24	0.0000
MOUSSA	1	b	0	1.10	0.37	0.29	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.67	0.0258
MURRAY	5	m	1	0.34	14.28	0.20	0.1941
MURRAY	7	f	1	0.27	8.50	0.02	0.4311
Subtotal	MURRAY			0.16	22.78	0.21	
NILSSO	1	b	0	0.00	31.98	1.64	1.0000
OCONNE	1	b	0	0.25	33.98	0.03	0.1384
OHARA	6	b	4	-0.09	34.25	3.52	0.5810
PALMIE	3	b	0	-0.00	30.71	1.58	0.9963
PIC	1	b	0	0.09	26.03	0.47	0.6397
*PONSON	4	b	6	0.05	107.38	3.38	0.6131
RASANE	3	b	3	0.46	27.24	1.54	0.0155
RATAGE	2	b	0	-0.24	9.92	2.11	0.4582
RENNIE	1	b	6	0.02	13.41	0.57	0.9422
RIBEIR	1	b	0	0.18	7.76	0.01	0.6116
RONMAR	1	b	5	0.47	30.41	1.81	0.0095
ROSASV	1	b	0	0.45	3.25	0.16	0.4168
SCHMIT	1	b	4	0.73	13.33	3.35	0.0079
SHAMSS	2	b	0	0.33	79.17	0.84	0.0034
*SHERMA	2	b	2	0.17	19.90	0.07	0.4603
SHOHAT	4	b	12	0.19	64.12	0.08	0.1269
*SIGURS	1	b	0	0.18	3.26	0.01	0.7422
SOTOQU	1	b	0	0.42	46.33	1.79	0.0040
SOYSET	14	b	5	1.03	6.43	4.15	0.0090
STANHO	1	b	0	-1.02	3.66	5.69	0.0507
STERN1	1	b	0	0.11	11.71	0.16	0.7107
STODDA	10	b	9	0.31	124.44	0.82	0.0006
STRACH	9	b	4	0.21	27.70	0.01	0.2759
TARIQ	12	b	1	-0.12	19.03	2.23	0.6112
*TAYLOR	4	b	0	-0.04	72.55	5.17	0.7281
TOMINA	2	b	0	-1.06	1.84	3.03	0.1515
VENNER	6	m	0	0.09	27.66	0.48	0.6182
VENNER	3	f	0	0.18	28.98	0.07	0.3399
Subtotal	VENNER			-0.18	56.63	0.55	
VERHOE	3	b	0	-0.25	17.31	3.93	0.2972
WILLE1	7	b	0	0.68	6.06	1.23	0.0955
WITHER	6	b	5	0.41	50.42	1.62	0.0040
ZHENG	26	b	0	0.71	6.34	1.48	0.0739

Appendix Table A28 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Current Asthma (or Lifetime if Current not available)
 Adjusted

RR data

	N	95
	NS	91
	Wt	4053.12
Het	Chi	148.31
Het	df	94
Het	P	***
Fixed	RR	1.25
	RRl	1.22
	RRu	1.29
	P	+++
Random	RR	1.24
	RRl	1.19
	RRu	1.30
	P	+++
Asymm	P	N.S.

Appendix Table A28 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma (or Lifetime if Current not available)
 Adjusted

RR data

	N	95			
	NS	91			
	Wt	4053.12			
Het	Chi	148.31			
Het	df	94			
Het	P	***			
Fixed	RR	1.25			
	RRl	1.22			
	RRu	1.29			
	P	+++			
Random	RR	1.24			
	RRl	1.19			
	RRu	1.30			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	86	5	4	95
	NS	86	5	4	95
	Wt	3890.34	94.79	68.00	4053.12
Het	Chi	141.38	4.01	2.27	148.31
Het	df	85	4	3	94
Het	P	***	N.S.	N.S.	***
Fixed	RR	1.25	1.34	1.18	1.25
	RRl	1.21	1.09	0.93	1.22
	RRu	1.29	1.64	1.50	1.29
	P	+++	++	N.S.	+++
Random	RR	1.24	1.34	1.18	1.24
	RRl	1.18	1.09	0.93	1.19
	RRu	1.30	1.64	1.50	1.30
	P	+++	++	N.S.	+++
Between	Chi				0.65
Between	df				2
Between	P				N.S.

Appendix Table A28 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma (or Lifetime if Current not available)
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AKCAKA	BARRET	BECKET	BRABIN	CALL	CHEN1	CHHABR	CLARK	DEKKER	DIJKST	DOTTER	FIELDE	FLYNN1	FLYNN2	FORSB1
	FORSB2	FORSB3	FUJI	GUPTA	GURKAN	JAAKKO	KALYO1	KALYO2	KARUNA	KEARNE	KENDIR	KNIGHT	LEE1	LEE2	MAIER	MELIA
	MELSOM	MONTEF	MOYES1	MOYES2	NITTA	ODDY	PETERS	POKHAR	RONCH1	RONCH2	RONCH3	RUDNIK	SARRAZ	SELCUK	SENNHA	SPIEKE
	SQUILL	TIMONE	TSIMOY	VARELA	VAVILLI	WANG	WILLE2	WOLFO1	WOLFO2	WOLFO3	YANG					
2	BERGMA	CSONKA	CUNNI2	EHLI1	KAPLAN	KELLY	NHANE3	NYSTAD	OLIVET	WEITZ1	WEITZ2	XU				
3	CHINN	SOMERV														
4	AZIZI	BALL	BURR	CUNNI1	DEBENE	DEKOK	GOREN3	GOREN4	GOREN5	GOREN6	HUGHES	LOPEZC	MOHAME	SANZOR	SCHENK	STAZI
	STERN2	ULRIK	VOLKME	VONMAF	ZEIGER	ZEJDA										
13	ALFRA2	FARBE1	FARBE3	MCCON1												

Appendix Table A28 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Current Asthma (or Lifetime if Current not available)
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP														
GILLIL	GILLIL	1	MCCON1/GILLIL														
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3														
HJERN1	HJERN1	1	HJERN1/HJERN2														
HJERN2	HJERN2	1	HJERN1/HJERN2														
STERN1	STERN1	1	STERN1/STERN2														
KUEHR	KUEHR	1	KUEHR/SPIEKE														
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2														
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6														
Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ALFRA1	4	b	1	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	1.01	?
ARSHAD	7	b	c	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non	*	n
AZIZI	1	b	c	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	*	n
BALL	1	b	c	6	13	all	NAmer	1980	2000	Pr	0	AnyPar	NoParent	unspec	non	*	n
BURR	1	b	1	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	*	n
CUNNI1	11	b	c	8	11	all	NAmer	1988	1996	CS	9	Mother	NotMothr	current	non	0.84	?
DEBENE	1	b	1	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	1.46	y
DEKOK	1	b	c	6	12	all	Eu:wst	1993	1996	CS	6	Mother	NotMothr	unspec	non	*	n
GOREN3	1	b	1	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	*	n
GOREN6	1	b	1	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	1.67	y
HUGHES	1	b	c	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	*	n
KIVITY	5	b	1	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	*	y
LEEDER	3	b	1	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	*	n
LOPEZC	3	b	c	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	1.06	n
MCCON2	4	b	c	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non	*	n
MOHAME	2	b	c	9	11	all	Africa	1990	1995	CC	0	Mother	NotMothr	unspec	non	*	n
PALMIE	10	b	c	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non	*	y
RASANE	2	b	1	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	*	n
SANZOR	1	b	1	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	*	n
SCHENK	1	b	1	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	*	n
STAZI	7	b	1	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	*	n
STERN2	8	b	c	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	0.98	n
STRACH	15	b	c	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	<1m	non	*	y
ULRIK	1	b	1	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	*	n
VOLKME	2	b	1	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	*	n
VONMAF	3	b	1	0	17	all	NAmer	1993	2001	CS	7	Mother	NotMothr	ever	never	*	y
ZEIGER	4	b	1	0	7	all	NAmer	1981	1995	Pr	4	Mother	NotMothr	unspec	non	*	n
ZEJDA	1	b	1	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	*	n

Appendix Table A- 29 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Asthma Onset

This analysis is restricted to results for:

- 1) Asthma onset
- 2) Biochemical, total, household (overall), or parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : biochemical, total, household, parent
 - 7) BIOMEA : saliva, blood, urine
 - 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
 - 9) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
 - 10) UNEXSO : not specific parent, neither parent, none in household, none
 - 11) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
 - 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
 - 13) RACE : all in study or nearest available, otherwise by race
 - 14) For overlapping studies: principal rather than subsidiary studies, and most recent follow-up
- Finally by Age: whole study if available, otherwise by widest available age group
and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3
(and those which actually differ from the adjusted results in Appendix Table A1 - 1 are marked 'x' in Section -1)
(Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A- 29 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Asthma Onset
 Adjusted

REF	NRR	CompA1	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non	-
INFANT	10	x	b	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non	-
LEEDER	2		b	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non	-
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MCCON1	2	x	b	9	18	all	NAmer	1993	2002	Pr	5	Mother	NotMothr	9-16y	non	-
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never	-
ODDY	1		b	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-
PONSON	8		b	0	7	all	Auslia	1988	2000	Pr	6	AnyHh	NoHhMemb	<1m	non	-
RONMAR	5		b	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non	-
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never	-
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non	-
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non	-
WILLE1	7	x	b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-
ZEIGER	1		b	0	7	all	NAmer	1981	1995	Pr	0	AnyHh	NoHhMemb	unspec	non	-

Appendix Table A- 29 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Asthma Onset
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
*FERGUS 7		b	0	75	572	58	460	1.04	(0.76- 1.43)
INFANT 10		b	19	183	-	273	-	1.40	(0.95- 2.05)
*LEEDER 2		b	1	48	-	11	-	1.33	(0.67- 2.64)
*MARTIN 5		m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN 6		f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
*MCCON1 2		b	5	23	-	193	-	0.99	(0.67- 1.47)
*MCKEEV 4		b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
*ODDY 1		b	4	-	-	-	-	1.27	(1.04- 1.55)
*PONSON 8		b	6	185	-	88	-	1.03	(0.83- 1.26)
*RONMAR 5		b	9	-	-	-	-	1.36	(0.82- 2.25)
*SHERMA 2		b	2	-	-	-	-	1.18	(0.76- 1.83)
*SIGURS 1		b	0	-	-	-	-	1.20	(0.41- 3.60)
*TAYLOR 4		b	0	-	4855	-	4815	0.96	(0.77- 1.22)
WILLE1 7		b	0	37	47	12	30	1.97	(0.89- 4.36)
*ZEIGER 1		b	0	8	22	42	143	1.24	(0.67- 2.28)
Partial Totals				2193	13171	2826	18506		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
*FERGUS 7		b	0	0.04	37.52	1.44	0.8106
INFANT 10		b	19	0.34	25.97	0.27	0.0864
*LEEDER 2		b	1	0.29	8.17	0.02	0.4149
*MARTIN 5		m	1	0.56	11.93	1.26	0.0533
*MARTIN 6		f	1	0.68	5.55	1.11	0.1075
Subtotal MARTIN				0.77	17.48	2.37	
*MCCON1 2		b	5	-0.01	24.89	1.50	0.9600
*MCKEEV 4		b	0	0.27	1119.12	1.42	0.0000
*ODDY 1		b	4	0.24	96.50	0.00	0.0189
*PONSON 8		b	6	0.03	88.18	3.73	0.7813
*RONMAR 5		b	9	0.31	15.08	0.08	0.2324
*SHERMA 2		b	2	0.17	19.90	0.10	0.4603
*SIGURS 1		b	0	0.18	3.26	0.01	0.7422
*TAYLOR 4		b	0	-0.04	72.55	5.53	0.7281
WILLE1 7		b	0	0.68	6.06	1.18	0.0955
*ZEIGER 1		b	0	0.21	10.38	0.00	0.4914

RR data

	N	15
	NS	14
	Wt	1545.06
Het	Chi	17.65
Het	df	14
Het	P	N.S.
Fixed	RR	1.27
	RRl	1.20
	RRu	1.33
	P	+++
Random	RR	1.21
	RRl	1.11
	RRu	1.32
	P	+++
Asymm	P	N.S.

Appendix Table A- 29 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Asthma Onset
 Adjusted

RR data

	N	15			
	NS	14			
	Wt	1545.06			
Het	Chi	17.65			
Het	df	14			
Het	P	N.S.			
Fixed	RR	1.27			
	RRl	1.20			
	RRu	1.33			
	P	+++			
Random	RR	1.21			
	RRl	1.11			
	RRu	1.32			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	13	1	1	15
	NS	13	1	1	14
	Wt	1527.58	11.93	5.55	1545.06
Het	Chi	15.25	0.00	0.00	17.65
Het	df	12	0	0	14
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.26	1.75	1.98	1.27
	RRl	1.20	0.99	0.86	1.20
	RRu	1.32	3.09	4.55	1.33
	P	+++	(+)	N.S.	+++
Random	RR	1.20	1.75	1.98	1.21
	RRl	1.10	0.99	0.86	1.11
	RRu	1.31	3.09	4.55	1.32
	P	+++	(+)	N.S.	+++
Between	Chi				2.40
Between	df				2
Between	P				N.S.

Appendix Table A- 29 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Asthma Onset

Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	ARSHAD	BALL	BARRET	BECKET	BENER	BERGMA
	BRABIN	BURCHF	BUTZ	CALL	CHEN1	CHEN2	CHHABR	CHINN	CLARK	CONKA	CUNNI1	CUNNI2	DAIGLE	DEBENE	DEKKER	DEKOK
	DELL	DIJKST	DODGE	DOLD	DOTTER	ECE	EHRLI1	EHRLI2	FAGBUL	FARBE1	FARBE2	FARBE3	FAROOQ	FIELDE	FLYNN1	FLYNN2
	FORAST	FORSB1	FORSB2	FORSB3	FUJI	GILLIL	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA
	GURKAN	HABY	HAJNAL	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES	JAAKKO	JENKIN	JONES	KALYO1	KALYO2	KARUNA	KAY
	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KNIGHT	KUEHR	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEEN	LEROUX	LILLJE
	LINDFO	LIS	LISTER	LOPEZC	MAIER	MCCON2	MELIA	MELSOM	MOHAME	MONTEF	MOUSSA	MOYES1	MOYES2	MUMCUO	MURRAY	NHANE3
	NILSSO	NITTA	NYSTAD	OCONNE	OHARA	OLIVET	PALMIE	PETERS	PIC	POKHAR	RASANE	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2
	RONCH3	ROSASV	RUDNIK	SANZOR	SARRAZ	SCHENK	SCHMIT	SELCUK	SENNHA	SHAMSS	SHOHAT	SOMERV	SOTOQU	SOYSET	SPIEKE	SQUILL
	STANHO	STAZI	STERN1	STERN2	STODDA	STRACH	TARIQ	TIMONE	TOMINA	TSIMOY	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WANG	WEITZ1	WEITZ2	WILLE2	WITHER	WOLFO1	WOLFO2	WOLFO3	YANG	ZEJDA	ZHENG					
3	KAPLAN	XU														
5	AZIZI	BURR	ULRIK													

Appendix Table A- 29 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Asthma Onset
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP														
MCCON1	GILLIL	2	MCCON1/GILLIL														
Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	-	*	n
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	-	*	n
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	-	*	n
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	-	*	n
ZEIGER	3	b	0	7	all	NAmer	1981	1995	Pr	4	AnyHh	NoHhMemb	unspec	non	-	*	n

Appendix Table A- 30 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Asthma Onset

This analysis is restricted to results for:

- 1) Asthma onset
- 2) Parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
 - 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
 - 8) UNEXSO : not specific parent, neither parent, none in household
 - 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
 - 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
 - 11) RACE : all in study or nearest available, otherwise by race
 - 12) For overlapping studies: principal rather than subsidiary studies, and most recent follow-up
- Finally by Age: whole study if available, otherwise by widest available age group
and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3
(and those which actually differ from the adjusted results in Appendix Table A5 - 1 are marked 'x' in Section -1)
(Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A- 30 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Asthma Onset
 Adjusted

REF	NRR	CompA5	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non
INFANT	10	x	b	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non
LEEDER	2		b	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MCCON1	2		b	9	18	all	NAmer	1993	2002	Pr	5	Mother	NotMothr	9-16y	non
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never
PONSON	4		b	0	7	all	Auslia	1988	2000	Pr	6	Mother	NotMothr	<1m	non
RONMAR	5		b	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non
WILLE1	7	x	b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non

Appendix Table A- 30 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Asthma Onset
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
*FERGUS 7		b	0	75	572	58	460	1.04	(0.76- 1.43)
INFANT 10		b	19	183	-	273	-	1.40	(0.95- 2.05)
*LEEDER 2		b	1	48	-	11	-	1.33	(0.67- 2.64)
*MARTIN 5		m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN 6		f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
*MCCON1 2		b	5	23	-	193	-	0.99	(0.67- 1.47)
*MCKEEV 4		b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
*PONSON 4		b	6	130	-	146	-	1.05	(0.87- 1.27)
*RONMAR 5		b	9	-	-	-	-	1.36	(0.82- 2.25)
*SHERMA 2		b	2	-	-	-	-	1.18	(0.76- 1.83)
*SIGURS 1		b	0	-	-	-	-	1.20	(0.41- 3.60)
*TAYLOR 4		b	0	-	4855	-	4815	0.96	(0.77- 1.22)
WILLE1 7		b	0	37	47	12	30	1.97	(0.89- 4.36)
Partial Totals				2130	13149	2842	18363		
*prospective study									

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
*FERGUS 7		b	0	0.04	37.52	1.42	0.8106
INFANT 10		b	19	0.34	25.97	0.27	0.0864
*LEEDER 2		b	1	0.29	8.17	0.02	0.4149
*MARTIN 5		m	1	0.56	11.93	1.27	0.0533
*MARTIN 6		f	1	0.68	5.55	1.12	0.1075
Subtotal MARTIN				0.78	17.48	2.39	
*MCCON1 2		b	5	-0.01	24.89	1.48	0.9600
*MCKEEV 4		b	0	0.27	1119.12	1.53	0.0000
*PONSON 4		b	6	0.05	107.38	3.68	0.6131
*RONMAR 5		b	9	0.31	15.08	0.08	0.2324
*SHERMA 2		b	2	0.17	19.90	0.09	0.4603
*SIGURS 1		b	0	0.18	3.26	0.01	0.7422
*TAYLOR 4		b	0	-0.04	72.55	5.47	0.7281
WILLE1 7		b	0	0.68	6.06	1.19	0.0955

RR data

	N	13
	NS	12
	Wt	1457.39
Het	Chi	17.64
Het	df	12
Het	P	N.S.
Fixed	RR	1.26
	RRl	1.20
	RRu	1.33
	P	+++
Random	RR	1.20
	RRl	1.07
	RRu	1.33
	P	++
Asymm	P	N.S.

Appendix Table A- 30 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Asthma Onset
 Adjusted

RR data

	N	13			
	NS	12			
	Wt	1457.39			
Het	Chi	17.64			
Het	df	12			
Het	P	N.S.			
Fixed	RR	1.26			
	RRl	1.20			
	RRu	1.33			
	P	+++			
Random	RR	1.20			
	RRl	1.07			
	RRu	1.33			
	P	++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	11	1	1	13
	NS	11	1	1	12
	Wt	1439.91	11.93	5.55	1457.39
Het	Chi	15.23	0.00	0.00	17.64
Het	df	10	0	0	12
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.26	1.75	1.98	1.26
	RRl	1.19	0.99	0.86	1.20
	RRu	1.32	3.09	4.55	1.33
	P	+++	(+)	N.S.	+++
Random	RR	1.17	1.75	1.98	1.20
	RRl	1.05	0.99	0.86	1.07
	RRu	1.31	3.09	4.55	1.33
	P	++	(+)	N.S.	++
Between	Chi				2.41
Between	df				2
Between	P				N.S.

Appendix Table A- 30 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Asthma Onset
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	ARSHAD	BALL	BARRET	BECKET	BENER	BERGMA
	BRABIN	BURCHF	BUTZ	CALL	CHEN1	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	CUNNI2	DAIGLE	DEBENE	DEKKER	DEKOK
	DELL	DIJKST	DODGE	DOLD	DOTTER	ECE	EHRLI1	EHRLI2	FAGBUL	FARBE1	FARBE2	FARBE3	FAROOQ	FIELDE	FLYNN1	FLYNN2
	FORAST	FORSB1	FORSB2	FORSB3	FUJI	GILLIL	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA
	GURKAN	HABY	HAJNAL	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES	JAAKKO	JENKIN	JONES	KALYO1	KALYO2	KARUNA	KAY
	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KNIGHT	KUEHR	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEEN	LEROUX	LILLJE
	LINDFO	LIS	LISTER	LOPEZC	MAIER	MCCON2	MELIA	MELSOM	MOHAME	MONTEF	MOUSSA	MOYES1	MOYES2	MUMCUO	MURRAY	NHANE3
	NILSSO	NITTA	NYSTAD	OCONNE	OHARA	OLIVET	PALMIE	PETERS	PIC	POKHAR	RASANE	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2
	RONCH3	ROSASV	RUDNIK	SANZOR	SARRAZ	SCHENK	SCHMIT	SELCUK	SENNHA	SHAMSS	SHOHAT	SOMERV	SOTOQU	SOYSET	SPIEKE	SQUILL
	STANHO	STAZI	STERN1	STERN2	STODDA	STRACH	TARIQ	TIMONE	TOMINA	TSIMOY	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WANG	WEITZ1	WEITZ2	WILLE2	WITHER	WOLFO1	WOLFO2	WOLFO3	YANG	ZEJDA	ZHENG					
2	ODDY															
3	KAPLAN	XU														
5	AZIZI	BURR	ULRIK	ZEIGER												

Appendix Table A- 30 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Asthma Onset
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP													
MCCON1	GILLIL	2	MCCON1/GILLIL													
Adjusted - insufficient data for metaanalysis																
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	*	n
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	*	n
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	*	n
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	*	n
ZEIGER	4	b	0	7	all	NAmer	1981	1995	Pr	4	Mother	NotMothr	unspec	non	*	n

Appendix Table A31 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Lifetime Asthma

This analysis is restricted to results for:

- 1) Physician diagnosed lifetime asthma
- 2) Biochemical, total, household (overall), or parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 9) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 10) UNEXSO : not specific parent, neither parent, none in household, none
- 11) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 13) RACE : all in study or nearest available, otherwise by race
- 14) ONSET : yes, no (prevalence)
- 15) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A1 - 1 are marked 'x' in Section -1) and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A31 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Lifetime Asthma
Adjusted

REF	NRR	CompA1	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ALBA	1		b	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non	-
BECKET	6		b	0	17	all	NAmer	1993	1996	CS	7	AnyHh	NoHhMemb	ever	never	-
BRABIN	2		b	5	11	all	Eu:UK	1991	1994	CS	1	AnyHh	NoHhMemb	unspec	non	-
BUTZ	7		b	*	*	all	NAmer	1989	1992	CC	1	TotETS	None	current	non	-
CHEN1	1		b	1	1	all	As:FE	1985	1988	CS	0	AnyHh	NoHhMemb	in life	non	-
CHEN2	37		b	6	17	all	NAmer	1993	1996	CS	6	AnyHh	NoHhMemb	current	non	-
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non	-
DODGE	12		b	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non	-
DOLD	21		b	9	11	all	Eu:Ger	1989	1992	CS	1	AnyHh	NoHhMemb	unspec	non	-
EHRLI2	3		b	3	14	all	NAmer	1988	1992	CC	0	Biochem	Low	-	-	urine
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never	-
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non	-
FLYNN1	1		b	9	10	all	Auslia	1990	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-
GILLIL	4		m	7	19	all	NAmer	1993	2001	CS	4	AnyHh	NoHhMemb	in life	non	-
GILLIL	12		f	7	19	all	NAmer	1993	2001	CS	4	AnyHh	NoHhMemb	in life	non	-
HU1	4		b	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non	-
HU2	23		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non	-
KENDIR	1		b	6	14	all	Eu:est	1993	1998	CS	0	AnyHh	NoHhMemb	current	non	-
KERSHA	7		b	0	5	all	Eu:UK	1983	1987	CC	1	AnyHh	LowHh	<3y	non	-
KUEHR	6		b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non	-
KUHR	4		b	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non	-
LAM1	8		b	12	15	all	As:FE	1994	1998	CS	4	AnyHh	NoHhMemb	unspec	non	-
LAM2	1		b	8	13	all	As:FE	1995	1999	CS	4	AnyHh	NoHhMemb	unspec	non	-
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non	-
MATER	5		b	5	9	all	NAmer	1994	1997	CS	8	TotETS	None	current	non	-
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non	-
MCCON2	2		b	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never	-
MOYES1	1		b	6	7	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MOYES2	1		b	13	14	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
NHANE3	28		b	4	16	w+b	NAmer	1988	2001	CS	6	Biochem	Low	-	-	blood
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non	-
ODDY	1		b	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-
RASANE	3		b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never	-
RATAGE	1		b	5	15	all	As:cen	1996	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
RENNIE	1		b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non	-
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non	-
SELCUK	2		b	7	12	all	Eu:est	1994	1997	CS	6	AnyHh	NoHhMemb	unspec	non	-
SENNHA	1		b	1	16	all	Eu:wst	1990	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never	-
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non	-
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non	-
TSIMOY	1		b	12	17	all	NAmer	1985	1987	CS	0	TotETS	None	current	non	-
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VONMAF	1		b	0	17	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	ever	never	-
WITHER	1		b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLFO1	2		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO2	2		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO3	2		b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
ZEIGER	1		b	0	7	all	NAmer	1981	1995	Pr	0	AnyHh	NoHhMemb	unspec	non	-

Appendix Table A31 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	1	b	0	68	70	34	32	0.91	(0.51- 1.64)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
BECKET	6	b	7	133	-	352	-	1.31	(1.03- 1.66)
BRABIN	2	b	1	204	-	114	-	1.06	(0.82- 1.37)
BUTZ	7	b	1	28	-	74	-	1.18	(0.62- 2.24)
CHEN1	1	b	0	64	1668	14	467	1.28	(0.71- 2.30)
CHEN2	37	b	6	32	-	61	-	1.67	(0.96- 2.89)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	21	b	1	217	-	295	-	1.10	(0.92- 1.33)
EHRLI2	3	b	0	37	29	60	88	1.87	(1.04- 3.36)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FLYNN1	1	b	0	-	-	-	-	1.26	(0.95- 1.68)
GILLIL	4	m	4	-	-	-	-	0.93	(0.74- 1.16)
GILLIL	12	f	4	-	-	-	-	1.05	(0.81- 1.35)
Subtotal	GILLIL							0.98	(0.83- 1.16)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
KENDIR	1	b	0	-	-	-	-	1.41	(1.16- 1.72)
KERSHA	7	b	1	71	-	15	-	3.12	(1.76- 5.54)
KUEHR	6	b	1	28	-	134	-	0.68	(0.44- 1.06)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	8	b	4	163	-	201	-	0.92	(0.74- 1.15)
LAM2	1	b	4	-	-	-	-	0.91	(0.69- 1.18)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
MAIER	5	b	8	33	-	73	-	2.26	(1.33- 3.85)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal	MARTIN							1.82	(1.14- 2.91)
MCCON2	2	b	0	2	45	13	163	0.56	(0.12- 2.56)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MOYES1	1	b	0	358	1017	295	886	1.06	(0.88- 1.26)
MOYES2	1	b	0	363	1285	252	842	0.94	(0.79- 1.13)
NHANE3	28	b	6	424	-	175	-	1.16	(0.77- 1.76)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*ODDY	1	b	4	-	-	-	-	1.27	(1.04- 1.55)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)
RATAGE	1	b	0	62	30	58	30	1.07	(0.58- 1.99)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SELCUK	2	b	6	689	-	193	-	1.35	(1.12- 1.62)
SENNHA	1	b	0	119	1631	132	2268	1.25	(0.97- 1.62)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
TSIMOY	1	b	0	9	123	4	57	1.04	(0.31- 3.53)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal	VENNER							1.15	(0.88- 1.49)
VONMAF	1	b	0	166	766	217	1260	1.26	(1.01- 1.57)
WITHER	1	b	0	202	633	296	1107	1.19	(0.97- 1.46)
WOLFO1	2	b	7	-	-	-	-	1.12	(0.63- 1.98)
WOLFO2	2	b	7	-	-	-	-	1.35	(0.75- 2.43)
WOLFO3	2	b	10	-	-	-	-	1.39	(0.93- 2.06)
*ZEIGER	1	b	0	8	22	42	143	1.24	(0.67- 2.28)
Partial Totals				6146	21976	5868	26275		
*prospective study									

Appendix Table A31 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALBA	1	b	0	-0.09	11.15	0.94	0.7647
ALFRA1	2	b	0	0.41	22.65	1.01	0.0498
BECKET	6	b	7	0.27	67.46	0.32	0.0266
BRABIN	2	b	1	0.06	58.33	1.19	0.6563
BUTZ	7	b	1	0.17	9.31	0.01	0.6135
CHEN1	1	b	0	0.25	11.14	0.02	0.4102
CHEN2	37	b	6	0.51	12.65	1.23	0.0681
DELL	2	b	0	0.42	18.30	0.87	0.0733
DODGE	12	b	1	0.41	7.12	0.30	0.2794
DOLD	21	b	1	0.10	113.12	1.27	0.3107
EHRLI2	3	b	0	0.63	11.17	2.02	0.0363
FAROOQ	1	b	0	0.25	72.93	0.21	0.0297
*FERGUS	7	b	0	0.04	37.52	0.99	0.8106
FLYNN1	1	b	0	0.23	47.28	0.04	0.1120
GILLIL	4	m	4	-0.07	76.04	5.70	0.5268
GILLIL	12	f	4	0.05	58.89	1.37	0.7081
Subtotal GILLIL				-0.43	134.93	7.07	
HU1	4	b	7	-0.22	12.73	2.29	0.4259
HU2	23	b	3	0.44	31.16	1.75	0.0144
KENDIR	1	b	0	0.34	99.03	2.01	0.0006
KERSHA	7	b	1	1.14	11.69	10.25	0.0001
KUEHR	6	b	1	-0.39	19.88	6.85	0.0855
KUHR	4	b	0	0.70	5.57	1.37	0.0997
LAM1	8	b	4	-0.08	79.06	6.40	0.4585
LAM2	1	b	4	-0.09	53.37	4.66	0.4908
LIS	1	b	0	0.31	37.30	0.42	0.0604
MAIER	5	b	8	0.82	13.60	5.13	0.0026
*MARTIN	5	m	1	0.56	11.93	1.53	0.0533
*MARTIN	6	f	1	0.68	5.55	1.29	0.1075
Subtotal MARTIN				0.84	17.48	2.82	
MCCON2	2	b	0	-0.58	1.65	1.02	0.4523
*MCKEEV	4	b	0	0.27	1119.12	5.43	0.0000
MOYES1	1	b	0	0.06	120.55	2.55	0.5411
MOYES2	1	b	0	-0.06	115.09	7.72	0.5355
NHANE3	28	b	6	0.15	22.48	0.06	0.4816
OCONNE	1	b	0	0.25	33.98	0.10	0.1384
*ODDY	1	b	4	0.24	96.50	0.14	0.0189
RASANE	3	b	3	0.46	27.24	1.88	0.0155
RATAGE	1	b	0	0.07	10.00	0.18	0.8330
RENNIE	1	b	6	0.02	13.41	0.44	0.9422
ROSASV	1	b	0	0.45	3.25	0.20	0.4168
SELCUK	2	b	6	0.30	112.79	1.10	0.0014
SENNHA	1	b	0	0.23	58.71	0.04	0.0833
*SHERMA	2	b	2	0.17	19.90	0.03	0.4603
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
*TAYLOR	4	b	0	-0.04	72.55	4.25	0.7281
TSIMOY	1	b	0	0.04	2.59	0.07	0.9464
VENNER	6	m	0	0.09	27.66	0.31	0.6182
VENNER	3	f	0	0.18	28.98	0.02	0.3399
Subtotal VENNER				-0.13	56.63	0.33	
VONMAF	1	b	0	0.23	78.55	0.06	0.0417
WITHER	1	b	0	0.18	92.49	0.05	0.0890
WOLFO1	2	b	7	0.11	11.72	0.09	0.6981
WOLFO2	2	b	7	0.30	11.12	0.11	0.3170
WOLFO3	2	b	10	0.33	24.30	0.40	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.00	0.4914

Appendix Table A31 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Lifetime Asthma
 Adjusted

RR data

	N	53
	NS	50
	Wt	3134.15
Het	Chi	87.69
Het	df	52
Het	P	**
Fixed	RR	1.22
	RR1	1.18
	RRu	1.27
	P	+++
Random	RR	1.20
	RR1	1.14
	RRu	1.27
	P	+++
Asymm	P	N.S.

Appendix Table A31 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Lifetime Asthma
 Adjusted

Publication year
 <1990 1990-94 1995-99 2000+ Total

RR data

N	8	12	21	12	53
NS	8	11	21	10	50
Wt	178.22	383.39	1088.63	1483.91	3134.15
Het Chi	16.35	16.33	36.58	14.57	87.69
Het df	7	11	20	11	52
Het P	*	N.S.	*	N.S.	**
Fixed RR	1.15	1.19	1.19	1.27	1.22
RRl	0.99	1.08	1.12	1.21	1.18
RRu	1.33	1.31	1.26	1.33	1.27
P	(+)	+++	+++	+++	+++
Random RR	1.26	1.22	1.20	1.21	1.20
RRl	0.97	1.07	1.10	1.10	1.14
RRu	1.65	1.40	1.31	1.32	1.27
P	(+)	++	+++	+++	+++
Between Chi					3.84
Between df					3
Between P					N.S.

Study type
 CC Pr CS Total

N	7	11	35	53
NS	7	10	33	50
Wt	90.55	1414.98	1628.63	3134.15
Het Chi	11.73	11.92	53.69	87.69
Het df	6	10	34	52
Het P	(*)	N.S.	*	**
Fixed RR	1.42	1.29	1.16	1.22
RRl	1.15	1.22	1.10	1.18
RRu	1.74	1.36	1.22	1.27
P	+++	+++	+++	+++
Random RR	1.44	1.26	1.17	1.20
RRl	1.06	1.15	1.10	1.14
RRu	1.96	1.38	1.25	1.27
P	+	+++	+++	+++
Between Chi				10.35
Between df				2
Between P				**

Highest age in RR
 0-9 10-14 15+ unknown Total

N	13	19	20	1	53
NS	13	18	18	1	50
Wt	359.43	1934.80	830.60	9.31	3134.15
Het Chi	27.87	37.46	20.88	0.00	87.69
Het df	12	18	19	0	52
Het P	**	**	N.S.	N.S.	**
Fixed RR	1.19	1.24	1.19	1.18	1.22
RRl	1.07	1.19	1.11	0.62	1.18
RRu	1.32	1.30	1.27	2.24	1.27
P	+++	+++	+++	N.S.	+++
Random RR	1.26	1.19	1.19	1.18	1.20
RRl	1.04	1.09	1.11	0.62	1.14
RRu	1.53	1.30	1.28	2.24	1.27
P	+	+++	+++	N.S.	+++
Between Chi					1.48
Between df					3
Between P					N.S.

Appendix Table A31 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Lifetime Asthma
 Adjusted

Population setting
 general school medical allergy other Total

RR data

N	10	21	16	3	3	53
NS	9	20	16	2	3	50
Wt	241.53	1122.35	1660.02	67.01	43.23	3134.15
Het Chi	11.54	42.02	16.37	0.15	1.96	87.69
Het df	9	20	15	2	2	52
Het P	N.S.	**	N.S.	N.S.	N.S.	**
Fixed RR	1.25	1.12	1.30	1.16	1.35	1.22
RRl	1.10	1.05	1.23	0.91	1.00	1.18
RRu	1.42	1.18	1.36	1.47	1.82	1.27
P	+++	+++	+++	N.S.	+	+++
Random RR	1.30	1.13	1.29	1.16	1.35	1.20
RRl	1.12	1.03	1.20	0.91	1.00	1.14
RRu	1.52	1.24	1.37	1.47	1.82	1.27
P	+++	++	+++	N.S.	+	+++
Between Chi						15.66
Between df						4
Between P						**

Respondent for smoking
 child parent med rec mix/oth Total

N	5	32	3	13	53
NS	5	31	3	11	50
Wt	287.40	1177.78	1226.03	442.94	3134.15
Het Chi	4.78	47.65	0.03	14.64	87.69
Het df	4	31	2	12	52
Het P	N.S.	*	N.S.	N.S.	**
Fixed RR	0.98	1.22	1.31	1.19	1.22
RRl	0.87	1.15	1.24	1.08	1.18
RRu	1.10	1.29	1.38	1.30	1.27
P	N.S.	+++	+++	+++	+++
Random RR	0.98	1.23	1.31	1.21	1.20
RRl	0.86	1.14	1.24	1.08	1.14
RRu	1.12	1.33	1.38	1.34	1.27
P	N.S.	+++	+++	+++	+++
Between Chi					20.58
Between df					3
Between P					***

Child smokers
 exc/none included ignored Total

N	14	6	33	53
NS	11	6	33	50
Wt	414.68	196.17	2523.30	3134.15
Het Chi	18.40	6.71	54.18	87.69
Het df	13	5	32	52
Het P	N.S.	N.S.	**	**
Fixed RR	1.07	1.29	1.24	1.22
RRl	0.97	1.12	1.20	1.18
RRu	1.18	1.48	1.29	1.27
P	N.S.	+++	+++	+++
Random RR	1.12	1.30	1.21	1.20
RRl	0.99	1.09	1.14	1.14
RRu	1.27	1.55	1.30	1.27
P	(+)	++	+++	+++
Between Chi				8.39
Between df				2
Between P				*

Appendix Table A31 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Lifetime Asthma
 Adjusted

Physician diagnosis (lifetime)
 yes no/mixed Total

RR data

N	53	53
NS	50	50
Wt	3134.15	3134.15
Het Chi	87.69	87.69
Het df	52	52
Het P	**	**
Fixed RR	1.22	1.22
RRl	1.18	1.18
RRu	1.27	1.27
P	+++	+++
Random RR	1.20	1.20
RRl	1.14	1.14
RRu	1.27	1.27
P	+++	+++
Between Chi		
Between df		
Between P		N.S.

Respondent for diagnosis (lifetime)
 medrec parent child mixed Total

N	12	31	7	3	53
NS	11	29	7	3	50
Wt	1375.96	1371.54	331.28	55.36	3134.15
Het Chi	13.88	42.82	11.51	1.52	87.69
Het df	11	30	6	2	52
Het P	N.S.	(*)	(*)	N.S.	**
Fixed RR	1.30	1.20	1.01	1.39	1.22
RRl	1.23	1.14	0.91	1.07	1.18
RRu	1.37	1.27	1.13	1.81	1.27
P	+++	+++	N.S.	+	+++
Random RR	1.27	1.21	1.04	1.39	1.20
RRl	1.14	1.13	0.88	1.07	1.14
RRu	1.41	1.30	1.23	1.81	1.27
P	+++	+++	N.S.	+	+++
Between Chi					17.96
Between df					3
Between P					***

Questionnaire for symptoms
 ISAAC ATS other Total

N	5	4	44	53
NS	5	3	42	50
Wt	299.27	78.18	2756.69	3134.15
Het Chi	12.65	0.97	67.42	87.69
Het df	4	3	43	52
Het P	*	N.S.	*	**
Fixed RR	1.07	1.14	1.24	1.22
RRl	0.95	0.91	1.20	1.18
RRu	1.20	1.42	1.29	1.27
P	N.S.	N.S.	+++	+++
Random RR	1.15	1.14	1.22	1.20
RRl	0.91	0.91	1.15	1.14
RRu	1.45	1.42	1.29	1.27
P	N.S.	N.S.	+++	+++
Between Chi				6.64
Between df				2
Between P				*

Appendix Table A31 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Lifetime Asthma
Adjusted

Analysis type
prevalence onset Total

RR data

N	44	9	53
NS	42	8	50
Wt	1757.44	1376.71	3134.15
Het Chi	71.69	10.65	87.69
Het df	43	8	52
Het P	**	N.S.	**
Fixed RR	1.18	1.28	1.22
RR1	1.13	1.22	1.18
RRu	1.24	1.35	1.27
P	+++	+++	+++
Random RR	1.20	1.23	1.20
RR1	1.12	1.10	1.14
RRu	1.28	1.37	1.27
P	+++	+++	+++
Between Chi			5.35
Between df			1
Between P			*

Number of cases (lifetime asthma)

	1-50	51-100	101-200	201+	unknown	Total
N	6	10	13	23	1	53
NS	6	9	13	21	1	50
Wt	30.56	112.35	265.12	2688.82	37.30	3134.15
Het Chi	2.54	11.60	22.49	46.33	0.00	87.69
Het df	5	9	12	22	0	52
Het P	N.S.	N.S.	*	**	N.S.	**
Fixed RR	1.33	1.46	1.25	1.21	1.36	1.22
RR1	0.93	1.22	1.11	1.16	0.99	1.18
RRu	1.90	1.76	1.41	1.25	1.87	1.27
P	N.S.	+++	+++	+++	(+)	+++
Random RR	1.33	1.48	1.25	1.16	1.36	1.20
RR1	0.93	1.19	1.05	1.08	0.99	1.14
RRu	1.90	1.83	1.48	1.23	1.87	1.27
P	N.S.	+++	+	+++	(+)	+++
Between Chi						4.72
Between df						4
Between P						N.S.

Study adjusts for or is matched on sex

	Yes	No	Total
N	22	31	53
NS	21	29	50
Wt	790.96	2343.19	3134.15
Het Chi	32.98	50.32	87.69
Het df	21	30	52
Het P	*	*	**
Fixed RR	1.15	1.25	1.22
RR1	1.07	1.20	1.18
RRu	1.23	1.30	1.27
P	+++	+++	+++
Random RR	1.16	1.23	1.20
RR1	1.06	1.15	1.14
RRu	1.28	1.32	1.27
P	++	+++	+++
Between Chi			4.38
Between df			1
Between P			*

Appendix Table A31 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Lifetime Asthma

Adjusted
Study adjusts for or is matched on age
Yes No Total

RR data

N	13	40	53
NS	12	38	50
Wt	506.87	2627.27	3134.15
Het Chi	16.04	63.90	87.69
Het df	12	39	52
Het P	N.S.	**	**
Fixed RR	1.09	1.25	1.22
RRl	1.00	1.20	1.18
RRu	1.19	1.30	1.27
P	+	+++	+++
Random RR	1.09	1.24	1.20
RRl	0.98	1.16	1.14
RRu	1.22	1.32	1.27
P	N.S.	+++	+++
Between Chi			7.74
Between df			1
Between P			**

Study adjusts for or is matched on race

N	9	44	53
NS	8	42	50
Wt	300.64	2833.50	3134.15
Het Chi	18.62	68.71	87.69
Het df	8	43	52
Het P	*	**	**
Fixed RR	1.18	1.23	1.22
RRl	1.06	1.18	1.18
RRu	1.33	1.27	1.27
P	++	+++	+++
Random RR	1.25	1.20	1.20
RRl	1.03	1.13	1.14
RRu	1.51	1.27	1.27
P	+	+++	+++
Between Chi			0.35
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	9	44	53
NS	8	42	50
Wt	545.07	2589.08	3134.15
Het Chi	15.00	64.30	87.69
Het df	8	43	52
Het P	(*)	*	**
Fixed RR	1.09	1.25	1.22
RRl	1.00	1.20	1.18
RRu	1.19	1.30	1.27
P	+	+++	+++
Random RR	1.09	1.24	1.20
RRl	0.96	1.16	1.14
RRu	1.23	1.32	1.27
P	N.S.	+++	+++
Between Chi			8.38
Between df			1
Between P			**

Appendix Table A31 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Lifetime Asthma

Adjusted
Study adjusts for or is matched on SES

Yes No Total

RR data

N	17	36	53
NS	16	34	50
Wt	498.80	2635.35	3134.15
Het Chi	36.42	50.65	87.69
Het df	16	35	52
Het P	**	*	**
Fixed RR	1.18	1.23	1.22
RRl	1.08	1.18	1.18
RRu	1.29	1.28	1.27
P	+++	+++	+++
Random RR	1.27	1.19	1.20
RRl	1.10	1.13	1.14
RRu	1.47	1.27	1.27
P	++	+++	+++
Between Chi			0.61
Between df			1
Between P			N.S.

Study adjusts for family medical history

N	18	35	53
NS	17	33	50
Wt	810.74	2323.40	3134.15
Het Chi	24.47	62.58	87.69
Het df	17	34	52
Het P	N.S.	**	**
Fixed RR	1.19	1.23	1.22
RRl	1.11	1.18	1.18
RRu	1.28	1.28	1.27
P	+++	+++	+++
Random RR	1.21	1.20	1.20
RRl	1.10	1.11	1.14
RRu	1.32	1.29	1.27
P	+++	+++	+++
Between Chi			0.64
Between df			1
Between P			N.S.

Study adjusts for family composition

N	9	44	53
NS	9	41	50
Wt	293.03	2841.12	3134.15
Het Chi	4.48	82.48	87.69
Het df	8	43	52
Het P	N.S.	***	**
Fixed RR	1.28	1.22	1.22
RRl	1.14	1.17	1.18
RRu	1.44	1.26	1.27
P	+++	+++	+++
Random RR	1.28	1.19	1.20
RRl	1.14	1.11	1.14
RRu	1.44	1.27	1.27
P	+++	+++	+++
Between Chi			0.73
Between df			1
Between P			N.S.

Appendix Table A31 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Lifetime Asthma

Adjusted
Study adjusts for cooking, heating, air conditioning
 Yes No Total

RR data

N	7	46	53
NS	7	43	50
Wt	212.31	2921.84	3134.15
Het Chi	5.37	80.05	87.69
Het df	6	45	52
Het P	N.S.	**	**
Fixed RR	1.35	1.21	1.22
RRl	1.18	1.17	1.18
RRu	1.55	1.26	1.27
P	+++	+++	+++
Random RR	1.35	1.18	1.20
RRl	1.18	1.11	1.14
RRu	1.55	1.26	1.27
P	+++	+++	+++
Between Chi			2.27
Between df			1
Between P			N.S.

Study adjusts for housing quality, crowding, damp, mould

N	7	46	53
NS	7	43	50
Wt	159.47	2974.68	3134.15
Het Chi	6.64	78.61	87.69
Het df	6	45	52
Het P	N.S.	**	**
Fixed RR	1.38	1.22	1.22
RRl	1.18	1.17	1.18
RRu	1.61	1.26	1.27
P	+++	+++	+++
Random RR	1.39	1.18	1.20
RRl	1.17	1.11	1.14
RRu	1.65	1.26	1.27
P	+++	+++	+++
Between Chi			2.43
Between df			1
Between P			N.S.

Study adjusts for pets, animal contact, farming

N	5	48	53
NS	5	45	50
Wt	208.85	2925.29	3134.15
Het Chi	3.41	84.07	87.69
Het df	4	47	52
Het P	N.S.	***	**
Fixed RR	1.26	1.22	1.22
RRl	1.10	1.18	1.18
RRu	1.44	1.27	1.27
P	+++	+++	+++
Random RR	1.26	1.20	1.20
RRl	1.10	1.13	1.14
RRu	1.44	1.28	1.27
P	+++	+++	+++
Between Chi			0.20
Between df			1
Between P			N.S.

Appendix Table A31 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Lifetime Asthma

Adjusted
 Study adjusts for child's medical history

Yes No Total

RR data

N	17	36	53
NS	16	34	50
Wt	798.43	2335.72	3134.15
Het Chi	29.39	57.21	87.69
Het df	16	35	52
Het P	*	*	**
Fixed RR	1.18	1.24	1.22
RRl	1.11	1.19	1.18
RRu	1.27	1.29	1.27
P	+++	+++	+++
Random RR	1.20	1.20	1.20
RRl	1.09	1.12	1.14
RRu	1.33	1.29	1.27
P	+++	+++	+++
Between Chi			1.08
Between df			1
Between P			N.S.

Study adjusts for in utero exposure

N	4	49	53
NS	3	47	50
Wt	170.14	2964.00	3134.15
Het Chi	1.64	77.82	87.69
Het df	3	48	52
Het P	N.S.	**	**
Fixed RR	0.99	1.24	1.22
RRl	0.85	1.19	1.18
RRu	1.15	1.28	1.27
P	N.S.	+++	+++
Random RR	0.99	1.22	1.20
RRl	0.85	1.15	1.14
RRu	1.15	1.30	1.27
P	N.S.	+++	+++
Between Chi			8.23
Between df			1
Between P			**

Study adjusts for in life exposure

N	8	45	53
NS	7	43	50
Wt	435.92	2698.23	3134.15
Het Chi	6.56	73.95	87.69
Het df	7	44	52
Het P	N.S.	**	**
Fixed RR	1.09	1.25	1.22
RRl	0.99	1.20	1.18
RRu	1.19	1.29	1.27
P	(+)	+++	+++
Random RR	1.09	1.23	1.20
RRl	0.99	1.16	1.14
RRu	1.19	1.31	1.27
P	(+)	+++	+++
Between Chi			7.18
Between df			1
Between P			**

Appendix Table A31 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Lifetime Asthma

	Adjusted							
	Exposed group : Source/who is smoker							
	Biochem	TotETS	AnyHh	AnyPar	Mother	Father	Total	
RR data								
	N	2	3	26	8	12	53	
	NS	2	3	25	8	11	50	
	Wt	33.65	25.50	1443.04	150.31	1425.02	56.63	3134.15
Het	Chi	1.71	2.94	43.69	5.29	21.92	0.10	87.69
Het	df	1	2	25	7	11	1	52
Het	P	N.S.	N.S.	*	N.S.	*	N.S.	**
Fixed	RR	1.36	1.65	1.15	1.30	1.28	1.15	1.22
	RRl	0.97	1.12	1.09	1.11	1.22	0.88	1.18
	RRu	1.91	2.43	1.21	1.52	1.35	1.49	1.27
	P	(+)	+	+++	++	+++	N.S.	+++
Random	RR	1.41	1.58	1.16	1.30	1.23	1.15	1.20
	RRl	0.89	0.96	1.08	1.11	1.08	0.88	1.14
	RRu	2.23	2.60	1.25	1.52	1.41	1.49	1.27
	P	N.S.	(+)	+++	++	++	N.S.	+++
Between	Chi							12.04
Between	df							5
Between	P							*
	Exposed group : when Exposed							
	lif/ev	age<7y	current	unspec	other	Total		
	N	15	4	14	17	3	53	
	NS	14	3	13	17	3	50	
	Wt	1665.21	49.04	375.62	979.47	64.81	3134.15	
Het	Chi	22.22	19.13	12.64	20.98	1.98	87.69	
Het	df	14	3	13	16	2	52	
Het	P	(*)	***	N.S.	N.S.	N.S.	**	
Fixed	RR	1.25	1.39	1.28	1.13	1.45	1.22	
	RRl	1.20	1.05	1.16	1.06	1.14	1.18	
	RRu	1.32	1.84	1.42	1.20	1.85	1.27	
	P	+++	+	+++	+++	++	+++	
Random	RR	1.19	1.61	1.28	1.14	1.45	1.20	
	RRl	1.08	0.77	1.16	1.05	1.14	1.14	
	RRu	1.30	3.36	1.42	1.23	1.85	1.27	
	P	+++	N.S.	+++	+++	++	+++	
Between	Chi						10.73	
Between	df						4	
Between	P						*	
	Unexposed group : who is smoker							
	NoHhMemb	NoParent	NotSpPar	Total				
	N	31	10	12	53			
	NS	30	9	11	50			
	Wt	1502.19	206.94	1425.02	3134.15			
Het	Chi	52.39	6.01	21.92	87.69			
Het	df	30	9	11	52			
Het	P	**	N.S.	*	**			
Fixed	RR	1.16	1.25	1.28	1.22			
	RRl	1.11	1.09	1.22	1.18			
	RRu	1.22	1.44	1.35	1.27			
	P	+++	++	+++	+++			
Random	RR	1.18	1.25	1.23	1.20			
	RRl	1.10	1.09	1.08	1.14			
	RRu	1.27	1.44	1.41	1.27			
	P	+++	++	++	+++			
Between	Chi				7.36			
Between	df				2			
Between	P				*			

Appendix Table A31 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Lifetime Asthma

Unexposed group : time
 non never non+othr Adjusted
 NA Total

RR data

	N	43	8		2		53
	NS	41	7		2		50
	Wt	1658.67	1441.83		33.65		3134.15
Het	Chi	71.90	2.44		1.71		87.69
Het	df	42	7		1		52
Het	P	**	N.S.		N.S.		**
Fixed	RR	1.15	1.30		1.36		1.22
	RR1	1.10	1.24		0.97		1.18
	RRu	1.21	1.37		1.91		1.27
	P	+++	+++		(+)		+++
Random	RR	1.18	1.30		1.41		1.20
	RR1	1.10	1.24		0.89		1.14
	RRu	1.27	1.37		2.23		1.27
	P	+++	+++		N.S.		+++
Between	Chi						11.64
Between	df						2
Between	P						**
		Number of adjustment variables					
		0	1	2	3-5	6-9	10+ Total
	N	27	8	1	7	9	1 53
	NS	26	7	1	6	9	1 50
	Wt	2152.82	236.92	19.90	422.25	277.97	24.30 3134.15
Het	Chi	31.11	21.98	0.00	16.01	9.46	0.00 87.69
Het	df	26	7	0	6	8	0 52
Het	P	N.S.	**	N.S.	*	N.S.	N.S. **
Fixed	RR	1.25	1.16	1.18	1.09	1.31	1.39 1.22
	RR1	1.19	1.02	0.76	0.99	1.16	0.93 1.18
	RRu	1.30	1.31	1.83	1.20	1.47	2.07 1.27
	P	+++	+	N.S.	(+)	+++	N.S. +++
Random	RR	1.21	1.30	1.18	1.11	1.30	1.39 1.20
	RR1	1.14	0.99	0.76	0.95	1.13	0.93 1.14
	RRu	1.29	1.72	1.83	1.31	1.50	2.07 1.27
	P	+++	(+)	N.S.	N.S.	+++	N.S. +++
Between	Chi						9.14
Between	df						5
Between	P						N.S.

RR adjusted for sex

	Yes	No	Total
N	14	39	53
NS	14	36	50
Wt	514.78	2619.36	3134.15
Het Chi	23.63	63.81	87.69
Het df	13	38	52
Het P	*	**	**
Fixed RR	1.20	1.23	1.22
	RR1	1.10	1.18
	RRu	1.31	1.28
	P	+++	+++
Random RR	1.21	1.20	1.20
	RR1	1.06	1.13
	RRu	1.38	1.28
	P	++	+++
Between Chi			0.25
Between df			1
Between P			N.S.

Appendix Table A31 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Lifetime Asthma
Adjusted

RR adjusted for age
 Yes No Total

RR data

N	12	41	53
NS	11	39	50
Wt	495.72	2638.43	3134.15
Het Chi	15.68	64.99	87.69
Het df	11	40	52
Het P	N.S.	**	**
Fixed RR	1.10	1.25	1.22
RRl	1.00	1.20	1.18
RRu	1.20	1.30	1.27
P	+	+++	+++
Random RR	1.10	1.23	1.20
RRl	0.98	1.16	1.14
RRu	1.23	1.31	1.27
P	(+)	+++	+++
Between Chi			7.02
Between df			1
Between P			**

RR adjusted for other ETS

N	3	50	53
NS	2	48	50
Wt	147.66	2986.49	3134.15
Het Chi	0.97	77.91	87.69
Het df	2	49	52
Het P	N.S.	**	**
Fixed RR	0.96	1.24	1.22
RRl	0.82	1.19	1.18
RRu	1.13	1.28	1.27
P	N.S.	+++	+++
Random RR	0.96	1.22	1.20
RRl	0.82	1.15	1.14
RRu	1.13	1.29	1.27
P	N.S.	+++	+++
Between Chi			8.80
Between df			1
Between P			**

RR adjusted for factor other than sex, age, other ETS

N	25	28	53
NS	23	27	50
Wt	961.43	2172.72	3134.15
Het Chi	54.05	31.17	87.69
Het df	24	27	52
Het P	***	N.S.	**
Fixed RR	1.17	1.25	1.22
RRl	1.10	1.19	1.18
RRu	1.25	1.30	1.27
P	+++	+++	+++
Random RR	1.21	1.21	1.20
RRl	1.09	1.15	1.14
RRu	1.35	1.29	1.27
P	+++	+++	+++
Between Chi			2.47
Between df			1
Between P			N.S.

Appendix Table A31 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Lifetime Asthma
 Adjusted

	Original	Derivation of RR/CI		Other	Total
		Numbers	SumNumbs		

RR data

N	18	18	7	10	53
NS	18	17	6	9	50
Wt	756.36	647.49	229.95	1500.34	3134.15
Het Chi	19.63	27.33	2.89	33.32	87.69
Het df	17	17	6	9	52
Het P	N.S.	(*)	N.S.	***	**
Fixed RR	1.25	1.16	1.13	1.25	1.22
RRl	1.16	1.07	0.99	1.19	1.18
RRu	1.34	1.25	1.28	1.32	1.27
P	+++	+++	(+)	+++	+++
Random RR	1.25	1.22	1.13	1.17	1.20
RRl	1.15	1.08	0.99	1.01	1.14
RRu	1.35	1.36	1.28	1.37	1.27
P	+++	+++	(+)	+	+++
Between Chi					4.52
Between df					3
Between P					N.S.

Appendix Table A31 - 4

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Lifetime Asthma
Unadjusted

REF	NRR	X	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ALBA	1		b	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non	-
BECKET	5	x	b	0	17	all	NAmer	1993	1996	CS	0	AnyHh	NoHhMemb	ever	never	-
BRABIN	1	x	b	5	11	all	Eu:UK	1991	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-
BUTZ	6	x	b	*	*	all	NAmer	1989	1992	CC	0	TotETS	None	current	non	-
CHEN1	1		b	1	1	all	As:FE	1985	1988	CS	0	AnyHh	NoHhMemb	in life	non	-
CHEN2	11	x	b	6	17	all	NAmer	1993	1996	CS	0	AnyHh	NoHhMemb	current	non	-
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non	-
DODGE	9	x	b	8	12	all	NAmer	1978	1982	Pr	0	AnyPar	NoParent	unspec	non	-
DOLD	17	x	b	9	11	all	Eu:Ger	1989	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
EHRLI2	3		b	3	14	all	NAmer	1988	1992	CC	0	Biochem	Low	-	-	urine
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never	-
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non	-
FLYNN1	1		b	9	10	all	Auslia	1990	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-
GILLIL	59	x	m	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	in life	non	-
GILLIL	68	x	f	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	in life	non	-
HU1	2	x	b	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non	-
HU2	21	x	b	20	22	all	NAmer	1986	1997	Pr	0	AnyPar	LowParnt	13-15y	non	-
KENDIR	1		b	6	14	all	Eu:est	1993	1998	CS	0	AnyHh	NoHhMemb	current	non	-
KERSHA	3	x	b	0	5	all	Eu:UK	1983	1987	CC	0	AnyHh	LowHh	<3y	non	-
KUEHR	2	x	b	6	8	all	Eu:Ger	1990	1992	CS	0	Mother	NotMothr	<1y	non	-
KUHR	4		b	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non	-
LAM1	4	x	b	12	15	all	As:FE	1994	1998	CS	0	AnyHh	NoHhMemb	unspec	non	-
LAM2	1		b	8	13	all	As:FE	1995	1999	CS	4	AnyHh	NoHhMemb	unspec	non	-
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non	-
MATER	6	x	b	5	9	all	NAmer	1994	1997	CS	0	TotETS	None	current	non	-
MARTIN	1	x	m	0	12	all	NAmer	1972	1992	Pr	0	Mother	LowMothr	<5y	non	-
MARTIN	2	x	f	0	12	all	NAmer	1972	1992	Pr	0	Mother	LowMothr	<5y	non	-
MCCON2	2		b	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never	-
MOYES1	1		b	6	7	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
MOYES2	1		b	13	14	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
NHANE3	37	x	b	4	16	w+b	NAmer	1988	2001	CS	0	Biochem	Low	-	-	blood
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non	-
ODDY	1		b	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-
RASANE	1	x	b	16	16	all	Eu:Sca	1991	2000	CS	0	Mother	NotMothr	ever	never	-
RATAGE	1		b	5	15	all	As:cen	1996	2000	CC	0	AnyHh	NoHhMemb	unspec	non	-
RENNIE	1		b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non	-
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non	-
SELCUK	1	x	b	7	12	all	Eu:est	1994	1997	CS	0	AnyHh	NoHhMemb	unspec	non	-
SENNHA	1		b	1	16	all	Eu:wst	1990	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never	-
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non	-
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non	-
TSIMOY	1		b	12	17	all	NAmer	1985	1987	CS	0	TotETS	None	current	non	-
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VONMAF	1		b	0	17	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	ever	never	-
WITHER	1		b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLFO1	2		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO2	2		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLFO3	2		b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-
ZEIGER	1		b	0	7	all	NAmer	1981	1995	Pr	0	AnyHh	NoHhMemb	unspec	non	-

Appendix Table A31 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Lifetime Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	1	b	0	68	70	34	32	0.91	(0.51- 1.64)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
BECKET	5	b	0	133	826	352	3223	1.47	(1.19- 1.83)
BRABIN	1	b	0	204	932	114	569	1.09	(0.85- 1.41)
BUTZ	6	b	0	28	25	74	80	1.21	(0.65- 2.26)
CHEN1	1	b	0	64	1668	14	467	1.28	(0.71- 2.30)
CHEN2	11	b	0	32	252	61	547	1.14	(0.72- 1.79)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	9	b	0	21	310	12	285	1.61	(0.78- 3.33)
DOLD	17	b	0	217	2307	295	3613	1.15	(0.96- 1.38)
EHRLI2	3	b	0	37	29	60	88	1.87	(1.04- 3.36)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
FLYNN1	1	b	0	-	-	-	-	1.26	(0.95- 1.68)
GILLIL	59	m	0	149	725	266	1239	0.96	(0.77- 1.19)
GILLIL	68	f	0	130	865	162	1340	1.24	(0.97- 1.59)
Subtotal	GILLIL							1.08	(0.91- 1.27)
HU1	2	b	0	45	131	62	220	1.22	(0.78- 1.89)
HU2	21	b	0	52	240	101	1083	2.32	(1.62- 3.34)
KENDIR	1	b	0	-	-	-	-	1.41	(1.16- 1.72)
KERSHA	3	b	0	71	714	15	485	3.22	(1.82- 5.68)
KUEHR	2	b	0	28	282	134	957	0.71	(0.46- 1.09)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	4	b	0	163	1956	201	2162	0.90	(0.72- 1.11)
LAM2	1	b	4	-	-	-	-	0.91	(0.69- 1.18)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
MAIER	6	b	0	33	145	73	674	2.10	(1.34- 3.29)
*MARTIN	1	m	0	17	80	41	315	1.63	(0.98- 2.72)
*MARTIN	2	f	0	8	63	20	281	1.78	(0.82- 3.87)
Subtotal	MARTIN							1.68	(1.10- 2.57)
MCCON2	2	b	0	2	45	13	163	0.56	(0.12- 2.56)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MOYES1	1	b	0	358	1017	295	886	1.06	(0.88- 1.26)
MOYES2	1	b	0	363	1285	252	842	0.94	(0.79- 1.13)
NHANE3	37	b	0	424	3344	175	1457	1.06	(0.88- 1.27)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
*ODDY	1	b	4	-	-	-	-	1.27	(1.04- 1.55)
RASANE	1	b	0	101	2055	76	2306	1.49	(1.10- 2.02)
RATAGE	1	b	0	62	30	58	30	1.07	(0.58- 1.99)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SELCUK	1	b	0	689	3248	193	1282	1.41	(1.19- 1.67)
SENNHA	1	b	0	119	1631	132	2268	1.25	(0.97- 1.62)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
TSIMOY	1	b	0	9	123	4	57	1.04	(0.31- 3.53)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal	VENNER							1.15	(0.88- 1.49)
VONMAF	1	b	0	166	766	217	1260	1.26	(1.01- 1.57)
WITHER	1	b	0	202	633	296	1107	1.19	(0.97- 1.46)
WOLFO1	2	b	7	-	-	-	-	1.12	(0.63- 1.98)
WOLFO2	2	b	7	-	-	-	-	1.35	(0.75- 2.43)
WOLFO3	2	b	10	-	-	-	-	1.39	(0.93- 2.06)
*ZEIGER	1	b	0	8	22	42	143	1.24	(0.67- 2.28)
Partial Totals				6425	40476	6296	48393		
*prospective study									

Appendix Table A31 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALBA	1	b	0	-0.09	11.15	1.01	0.7647
ALFRA1	2	b	0	0.41	22.65	0.91	0.0498
BECKET	5	b	0	0.39	84.17	2.63	0.0004
BRABIN	1	b	0	0.09	60.59	0.92	0.4910
BUTZ	6	b	0	0.19	9.83	0.00	0.5487
CHEN1	1	b	0	0.25	11.14	0.01	0.4102
CHEN2	11	b	0	0.13	18.71	0.12	0.5742
DELL	2	b	0	0.42	18.30	0.79	0.0733
DODGE	9	b	0	0.48	7.26	0.51	0.2000
DOLD	17	b	0	0.14	114.83	0.56	0.1294
EHRLI2	3	b	0	0.63	11.17	1.92	0.0363
FAROOQ	1	b	0	0.25	72.93	0.14	0.0297
*FERGUS	7	b	0	0.04	37.52	1.11	0.8106
FLYNN1	1	b	0	0.23	47.28	0.02	0.1120
GILLIL	59	m	0	-0.04	79.01	5.14	0.6979
GILLIL	68	f	0	0.22	63.42	0.00	0.0831
Subtotal GILLIL				-0.25	142.43	5.15	
HU1	2	b	0	0.20	19.79	0.00	0.3785
HU2	21	b	0	0.84	29.22	11.65	0.0000
KENDIR	1	b	0	0.34	99.03	1.73	0.0006
KERSHA	3	b	0	1.17	11.87	10.86	0.0001
KUEHR	2	b	0	-0.34	20.93	6.45	0.1158
KUHR	4	b	0	0.70	5.57	1.32	0.0997
LAM1	4	b	0	-0.11	82.75	8.52	0.3195
LAM2	1	b	4	-0.09	53.37	4.99	0.4908
LIS	1	b	0	0.31	37.30	0.34	0.0604
MAIER	6	b	0	0.74	19.09	5.38	0.0012
*MARTIN	1	m	0	0.49	14.81	1.15	0.0593
*MARTIN	2	f	0	0.58	6.43	0.87	0.1422
Subtotal MARTIN				0.65	21.23	2.02	
MCCON2	2	b	0	-0.58	1.65	1.05	0.4523
*MCKEEV	4	b	0	0.27	1119.12	3.94	0.0000
MOYES1	1	b	0	0.06	120.55	2.93	0.5411
MOYES2	1	b	0	-0.06	115.09	8.34	0.5355
NHANE3	37	b	0	0.05	110.40	2.73	0.5693
OCONNE	1	b	0	0.25	33.98	0.06	0.1384
*ODDY	1	b	4	0.24	96.50	0.07	0.0189
RASANE	1	b	0	0.40	41.70	1.48	0.0099
RATAGE	1	b	0	0.07	10.00	0.21	0.8330
RENNIE	1	b	6	0.02	13.41	0.49	0.9422
ROSASV	1	b	0	0.45	3.25	0.19	0.4168
SELCUK	1	b	0	0.34	129.52	2.24	0.0001
SENNHA	1	b	0	0.23	58.71	0.01	0.0833
*SHERMA	2	b	2	0.17	19.90	0.04	0.4603
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
*TAYLOR	4	b	0	-0.04	72.55	4.62	0.7281
TSIMOY	1	b	0	0.04	2.59	0.07	0.9464
VENNER	6	m	0	0.09	27.66	0.38	0.6182
VENNER	3	f	0	0.18	28.98	0.03	0.3399
Subtotal VENNER				-0.15	56.63	0.41	
VONMAF	1	b	0	0.23	78.55	0.03	0.0417
WITHER	1	b	0	0.18	92.49	0.11	0.0890
WOLFO1	2	b	7	0.11	11.72	0.11	0.6981
WOLFO2	2	b	7	0.30	11.12	0.09	0.3170
WOLFO3	2	b	10	0.33	24.30	0.34	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.00	0.4914

Appendix Table A31 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Lifetime Asthma
 Unadjusted

RR data

	N	53
	NS	50
	Wt	3307.48
Het	Chi	98.64
Het	df	52
Het	P	***
Fixed	RR	1.24
	RRl	1.19
	RRu	1.28
	P	+++
Random	RR	1.23
	RRl	1.16
	RRu	1.30
	P	+++
Asymm	P	N.S.

Appendix Table A31 - 6

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Lifetime Asthma
 Unadjusted

RR data

	N	53							
	NS	50							
	Wt	3307.48							
Het	Chi	98.64							
Het	df	52							
Het	P	***							
Fixed	RR	1.24							
	RRl	1.19							
	RRu	1.28							
	P	+++							
Random	RR	1.23							
	RRl	1.16							
	RRu	1.30							
	P	+++							
Asymm	P	N.S.							
			<u>Sex</u>						
			both	male	female	Total			
	N	47	3	3	3	53			
	NS	47	3	3	3	53			
	Wt	3087.19	121.47	98.83	3307.48				
Het	Chi	90.97	3.62	0.87	98.64				
Het	df	46	2	2	52				
Het	P	***	N.S.	N.S.	***				
Fixed	RR	1.24	1.05	1.26	1.24				
	RRl	1.20	0.88	1.03	1.19				
	RRu	1.29	1.26	1.53	1.28				
	P	+++	N.S.	+	+++				
Random	RR	1.23	1.11	1.26	1.23				
	RRl	1.16	0.85	1.03	1.16				
	RRu	1.31	1.46	1.53	1.30				
	P	+++	N.S.	+	+++				
Between	Chi				3.18				
Between	df				2				
Between	P				N.S.				
			<u>Continent</u>						
			NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	21	1	19	7	5			53
	NS	19	1	19	6	5			50
	Wt	652.06	3.25	1998.70	236.54	416.94			3307.48
Het	Chi	34.11	0.00	33.33	7.02	5.83			98.64
Het	df	20	0	18	6	4			52
Het	P	*	N.S.	*	N.S.	N.S.			***
Fixed	RR	1.27	1.57	1.28	1.03	1.09			1.24
	RRl	1.18	0.53	1.23	0.90	0.99			1.19
	RRu	1.37	4.66	1.34	1.17	1.20			1.28
	P	+++	N.S.	+++	N.S.	(+)			+++
Random	RR	1.32	1.57	1.26	1.04	1.10			1.23
	RRl	1.18	0.53	1.16	0.90	0.97			1.16
	RRu	1.48	4.66	1.37	1.21	1.23			1.30
	P	+++	N.S.	+++	N.S.	N.S.			+++
Between	Chi								18.36
Between	df								4
Between	P								**

Appendix Table A31 - 6

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Lifetime Asthma
 Unadjusted

Start year of study
 <1970 1970-79 1980-89 1990+ unknown Total

RR data

	N	1	9	15	24	4	53
NS	1	8	15	22	4	4	50
Wt	33.98	254.23	465.35	1195.91	1358.01	3307.48	
Het Chi	0.00	7.83	30.64	42.52	15.17	98.64	
Het df	0	8	14	23	3	52	
Het P	N.S.	N.S.	**	**	**	***	
Fixed RR	1.29	1.17	1.29	1.21	1.25	1.24	
RRl	0.92	1.03	1.18	1.14	1.19	1.19	
RRu	1.80	1.32	1.41	1.28	1.32	1.28	
P	N.S.	+	+++	+++	+++	+++	
Random RR	1.29	1.17	1.42	1.20	1.12	1.23	
RRl	0.92	1.03	1.20	1.11	0.91	1.16	
RRu	1.80	1.32	1.67	1.30	1.38	1.30	
P	N.S.	+	+++	+++	N.S.	+++	
Between Chi							2.48
Between df							4
Between P							N.S.

Study type
 CC Pr CS Total

	N	7	11	35	53
NS	7	10	33	50	
Wt	91.25	1416.94	1799.29	3307.48	
Het Chi	12.34	20.49	56.55	98.64	
Het df	6	10	34	52	
Het P	(*)	*	**	***	
Fixed RR	1.43	1.30	1.18	1.24	
RRl	1.16	1.23	1.13	1.19	
RRu	1.75	1.37	1.24	1.28	
P	+++	+++	+++	+++	
Random RR	1.45	1.30	1.19	1.23	
RRl	1.06	1.13	1.12	1.16	
RRu	1.99	1.50	1.27	1.30	
P	+	+++	+++	+++	
Between Chi				9.26	
Between df				2	
Between P				**	

Appendix Table A31 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ALDAWO	ANDRAE	ANNESI	ARSHAD	AZIZI	BALL	BARRET	BENER	BERGMA	BURCHF	CALL	CHHABR	CHINN
	CLARK	CSONKA	CUNNI1	DAIGLE	DEBENE	DEKKER	DEKOK	DIJKST	DOTTER	ECE	EHRLI1	FAGBUL	FARBEL	FARBE2	FARBE3	FORAST
	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN	HABY
	HAJNAL	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JENKIN	JONES	KALYO2	KAPLAN	KARUNA	KAY	KIVITY	KNIGHT	LAU
	LEE1	LEE2	LEEDER	LEEN	LEROUX	LILLJE	LINDFO	LISTER	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO	MURRAY	NILSSO
	NITTA	NYSTAD	OHARA	OLIVET	PALMIE	PETERS	PIC	POKHAR	PONSON	RIBEIR	RONCH1	RONCH2	RONCH3	RONMAR	RUDNIK	SANZOR
	SARRAZ	SCHMIT	SHAMSS	SHOHAT	SOMERV	SOTOQU	SOYSET	SQUILL	STANHO	STERN1	STODDA	STRACH	TARIQ	TIMONE	TOMINA	ULRIK
	VARELA	VAVILI	VERHOE	VOLKME	WANG	WEITZ1	WEITZ2	WILLE1	WILLE2	YANG	ZHENG					
3	CUNNI2	KELLY	XU													
5	AKCAKA	BURR	FIELDE	FLYNN2	KALYO1	KEARNE	MONTEF	SCHENK	STAZI	STERN2	ZEJDA					
15	ALFRA2	MCCON1	SPIEKE													

Appendix Table A31 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Lifetime Asthma
 Potentially overlapping studies

REF	REFGP PRINC	OVERLAP
GILLIL	GILLIL	1 MCCON1/GILLIL
BRABIN	BRABIN	1 KELLY/BRABIN
KUEHR	KUEHR	1 KUEHR/SPIEKE
ALFRA1	ALFRA1	1 ALFRA1/ALFRA2
WOLFO1	WOLFO1	1 WOLFO1/WOLFO2/WOLFO3
WOLFO2	WOLFO2	1 WOLFO1/WOLFO2/WOLFO3
WOLFO3	WOLFO3	1 WOLFO1/WOLFO2/WOLFO3

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
AKCAKA	1	b	6	15	all	Eu:est	1996	2000	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	-	1.01	?
BRABIN	3	b	5	11	all	Eu:UK	1991	1994	CS	6	AnyHh	NoHhMemb	unspec	non	-	*	n
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	-	*	n
FIELDE	1	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
FLYNN2	1	b	9	10	all	Auslia	1991	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
KALYO1	1	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KEARNE	1	m	6	12	all	Eu:wst	1997	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
MONTEF	1	b	5	8	all	Eu:wst	*	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	-	*	n
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	-	*	n
STAZI	7	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	-	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	-	1.35	y
ZEIGER	3	b	0	7	all	NAmer	1981	1995	Pr	4	AnyHh	NoHhMemb	unspec	non	-	*	n
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	-	*	n

Unadjusted - insufficient data for metaanalysis: as for adjusted plus the following

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
STAZI	2	b	0	5	all	Eu:Ita	1993	2002	CS	2	Mother	NotMothr	in life	non	-	*	n

Appendix Table A32 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Physician Diagnosed Lifetime Asthma

This analysis is restricted to results for:

- 1) Physician diagnosed lifetime asthma
- 2) Parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : not specific parent, neither parent, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A5 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A32 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Physician Diagnosed Lifetime Asthma
 Adjusted

REF	NRR	CompA5	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non
BUTZ	4		b	*	*	all	NAmer	1989	1992	CC	0	AnyPar	NotSpPar	ever	never
CHEN2	34		b	6	17	all	NAmer	1993	1996	CS	6	Mother	NotMothr	ever	never
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non
DODGE	12		b	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non
DOLD	7		b	9	11	all	Eu:Ger	1989	1992	CS	0	AnyPar	NoParent	unspec	non
EHRLI2	4		b	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	ever	never
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non
HU1	4		b	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non
HU2	23		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non
KERSHA	5		b	0	5	all	Eu:UK	1983	1987	CC	1	Mother	LowMothr	<3y	non
KUEHR	6		b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non
KUHR	4		b	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non
LAM1	18		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LAM2	9		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MCCON1	2		b	9	18	all	NAmer	1993	2002	Pr	5	Mother	NotMothr	9-16y	non
MCCON2	1		b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non
RASANE	3		b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never
RATAGE	2		b	5	15	all	As:cen	1996	2000	CC	0	Father	NotFathr	unspec	non
RENNIE	1		b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
WITHER	6		b	14	16	all	Eu:UK	1995	1998	CS	5	Mother	NotMothr	current	non

Appendix Table A32 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Physician Diagnosed Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	2	b	0	32	30	70	72	1.10	(0.60- 1.99)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
BUTZ	4	b	0	55	51	47	54	1.24	(0.72- 2.14)
CHEN2	34	b	6	51	-	42	-	1.67	(1.01- 2.77)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	7	b	0	176	1822	235	2931	1.20	(0.98- 1.48)
EHRLI2	4	b	0	-	-	-	-	2.00	(1.10- 3.80)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
KERSHA	5	b	1	51	-	35	-	2.43	(1.55- 3.79)
KUEHR	6	b	1	28	-	134	-	0.68	(0.44- 1.06)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM1	18	b	4	-	-	201	-	1.32	(0.71- 2.45)
LAM2	9	b	4	-	-	-	-	0.87	(0.64- 1.17)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
*MCCON1	2	b	5	23	-	193	-	0.99	(0.67- 1.47)
MCCON2	1	b	0	7	59	8	149	2.21	(0.77- 6.37)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)
RATAGE	2	b	0	51	29	69	31	0.79	(0.42- 1.47)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
WITHER	6	b	5	103	-	395	-	1.50	(1.14- 1.98)
Partial Totals				3243	16648	4193	22169		
*prospective study									

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALBA	2	b	0	0.09	10.78	0.25	0.7608
ALFRA1	2	b	0	0.41	22.65	0.63	0.0498
BUTZ	4	b	0	0.21	12.89	0.01	0.4416
CHEN2	34	b	6	0.51	15.10	1.08	0.0463
DELL	2	b	0	0.42	18.30	0.55	0.0733
DODGE	12	b	1	0.41	7.12	0.18	0.2794
DOLD	7	b	0	0.19	92.36	0.32	0.0734
EHRLI2	4	b	0	0.69	10.00	2.01	0.0284
FAROOQ	1	b	0	0.25	72.93	0.01	0.0297
*FERGUS	7	b	0	0.04	37.52	1.59	0.8106
HU1	4	b	7	-0.22	12.73	2.79	0.4259
HU2	23	b	3	0.44	31.16	1.16	0.0144
KERSHA	5	b	1	0.89	19.22	7.94	0.0001
KUEHR	6	b	1	-0.39	19.88	7.91	0.0855
KUHR	4	b	0	0.70	5.57	1.14	0.0997
LAM1	18	b	4	0.28	10.02	0.01	0.3796
LAM2	9	b	4	-0.14	42.22	6.24	0.3655
LIS	1	b	0	0.31	37.30	0.15	0.0604
*MARTIN	5	m	1	0.56	11.93	1.18	0.0533
*MARTIN	6	f	1	0.68	5.55	1.06	0.1075
Subtotal MARTIN				0.75	17.48	2.24	
*MCCON1	2	b	5	-0.01	24.89	1.62	0.9600
MCCON2	1	b	0	0.79	3.43	1.03	0.1420
*MCKEEV	4	b	0	0.27	1119.12	0.74	0.0000
OCONNE	1	b	0	0.25	33.98	0.00	0.1384
RASANE	3	b	3	0.46	27.24	1.30	0.0155
RATAGE	2	b	0	-0.24	9.92	2.29	0.4582

Appendix Table A32 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Physician Diagnosed Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
RENNIE	1	b	6	0.02	13.41	0.68	0.9422
ROSASV	1	b	0	0.45	3.25	0.14	0.4168
*SHERMA	2	b	2	0.17	19.90	0.13	0.4603
*SIGURS	1	b	0	0.18	3.26	0.01	0.7422
*TAYLOR	4	b	0	-0.04	72.55	5.93	0.7281
VENNER	6	m	0	0.09	27.66	0.63	0.6182
VENNER	3	f	0	0.18	28.98	0.13	0.3399
Subtotal	VENNER			-0.22	56.63	0.76	
WITHER	6	b	5	0.41	50.42	1.30	0.0040

RR data

	N	34
	NS	32
	Wt	1933.19
Het	Chi	52.15
Het	df	33
Het	P	*
Fixed	RR	1.28
	RRl	1.22
	RRu	1.34
	P	+++
Random	RR	1.26
	RRl	1.16
	RRu	1.36
	P	+++
Asymm	P	N.S.

Appendix Table A32 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Physician Diagnosed Lifetime Asthma
 Adjusted

RR data

	N	34			
	NS	32			
	Wt	1933.19			
Het	Chi	52.15			
Het	df	33			
Het	P	*			
Fixed	RR	1.28			
	RRl	1.22			
	RRu	1.34			
	P	+++			
Random	RR	1.26			
	RRl	1.16			
	RRu	1.36			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	30	2	2	34
	NS	30	2	2	34
	Wt	1859.08	39.58	34.53	1933.19
Het	Chi	49.14	1.80	1.19	52.15
Het	df	29	1	1	33
Het	P	*	N.S.	N.S.	*
Fixed	RR	1.28	1.26	1.30	1.28
	RRl	1.22	0.93	0.93	1.22
	RRu	1.34	1.73	1.81	1.34
	P	+++	N.S.	N.S.	+++
Random	RR	1.25	1.32	1.33	1.26
	RRl	1.15	0.85	0.89	1.16
	RRu	1.37	2.05	2.00	1.36
	P	+++	N.S.	N.S.	+++
Between	Chi				0.01
Between	df				2
Between	P				N.S.

Appendix Table A32 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Physician Diagnosed Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ALDAWO	ANDRAE	ANNESI	ARSHAD	AZIZI	BALL	BARRET	BENER	BERGMA	BURCHF	CALL	CHHABR	CHINN
	CLARK	CONKA	CUNNI1	DAIGLE	DEBENE	DEKKER	DEKOK	DIJKST	DOTTER	ECE	EHRLI1	FAGBUL	FARBEL	FARBE2	FARBE3	FORAST
	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN	HABY
	HAJNAL	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JENKIN	JONES	KALYO2	KAPLAN	KARUNA	KAY	KIVITY	KNIGHT	LAU
	LEE1	LEE2	LEEDER	LEEN	LEROUX	LILLJE	LINDFO	LISTER	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO	MURRAY	NILSSO
	NITTA	NYSTAD	OHARA	OLIVET	PALMIE	PETERS	PIC	POKHAR	PONSON	RIBEIR	RONCH1	RONCH2	RONCH3	RONMAR	RUDNIK	SANZOR
	SARRAZ	SCHMIT	SHAMSS	SHOHAT	SOMERV	SOTOQU	SOYSET	SQUILL	STANHO	STERN1	STODDA	STRACH	TARIQ	TIMONE	TOMINA	ULRIK
	VARELA	VAVILI	VERHOE	VOLKME	WANG	WEITZ1	WEITZ2	WILLE1	WILLE2	YANG	ZHENG					
2	AKCAKA	BECKET	BRABIN	CHEN1	FIELDE	FLYNN1	FLYNN2	KALYO1	KEARNE	KENDIR	MAIER	MONTEF	MOYES1	MOYES2	ODDY	SELCUK
	SENNHA	SPIEKE	TSIMOY	WOLFO1	WOLFO2	WOLFO3										
3	CUNNI2	GILLIL	KELLY	NHANE3	XU											
5	BURR	SCHENK	STAZI	STERN2	VONMAF	ZEIGER	ZEJDA									
13	ALFRA2															

Appendix Table A32 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Physician Diagnosed Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
MCCON1	GILLIL	2	MCCON1/GILLIL
KUEHR	KUEHR	1	KUEHR/SPIEKE
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	1.01	?
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	*	n
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	*	n
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	*	n
STAZI	7	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	1.35	y
VONMAF	3	b	0	17	all	NAmer	1993	2001	CS	7	Mother	NotMothr	ever	never	*	y
ZEIGER	4	b	0	7	all	NAmer	1981	1995	Pr	4	Mother	NotMothr	unspec	non	*	n
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	*	n

Appendix Table A33 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Current Asthma

This analysis is restricted to results for:

- 1) Physician diagnosed current asthma
- 2) Biochemical, total, household (overall), or parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 9) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 10) UNEXSO : not specific parent, neither parent, none in household, none
- 11) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 12) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 13) RACE : all in study or nearest available, otherwise by race
- 14) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A3 - 1 are marked 'x' in Section -1) and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A33 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Current Asthma
 Adjusted

REF	NRR	CompA3	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ADDOYO	1		b	8	17	all	Africa	*	2001	CC	0		NoHhMemb	unspec	non
ARSHAD	1		b	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non
BERGMA	1		b	3	6	all	Eu:Ger	1990	2000	Pr	8		NoHhMemb	18m	non
CALL	1		b	3	15	all	NAmer	1990	1992	CC	0		NoHhMemb	unspec	non
CHEN2	50		b	6	17	all	NAmer	1993	1996	CS	1		NoHhMemb	current	non
CLARK	2		b	5	7	all	Eu:UK	*	1994	CC	0		Low	-	-
DAIGLE	3		b	0	*	all	NAmer	1986	1991	CC	7	Mother	NotMothr	unspec	non
FAGBUL	2		b	0	18	all	Africa	*	1994	CC	1	AnyPar	NoParent	unspec	non
FORSB1	2		b	6	12	all	Eu:Sca	1993	1997	CS	14		NoHhMemb	<2y	non
FORSB2	2		b	6	12	all	Eu:Sca	1993	1997	CS	14		NoHhMemb	<2y	non
FORSB3	2		b	6	12	all	Eu:Sca	1993	1997	CS	15		NoHhMemb	<2y	non
HJERN1	13		b	3	15	all	Eu:Sca	1996	2001	CS	9	Mother	NotMothr	ever	never
HJERN2	13		b	3	15	all	Eu:Sca	1996	2001	CS	9	Father	NotFathr	ever	never
HOST	1		b	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non
INFANT	10		b	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non
JONES	2		b	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non
KARUNA	1		b	1	10	all	As:cen	1996	2001	CC	0		None	current	non
LINDFO	1		b	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non
MOHAME	1		b	9	11	all	Africa	1990	1995	CC	0		NoHhMemb	unspec	non
MOUSSA	1		b	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCUO	6		b	3	15	all	As:ME	1986	1994	CC	0		NoHhMemb	unspec	non
PALMIE	3		b	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non
PETERS	6		b	9	14	all	As:FE	1989	1996	Pr	6		NoHhMemb	current	non
SARRAZ	1		b	6	10	all	SCAmer	*	1997	CC	0		NoHhMemb	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SELCUK	4		b	7	12	all	Eu:est	1994	1997	CS	6		NoHhMemb	unspec	non
TOMINA	2		b	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non
WILLE1	7		b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non
YANG	2		b	6	12	all	As:FE	1994	1997	CS	10		NoHhMemb	unspec	non

Appendix Table A33 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ADDOYO	1	b	0	13	5	23	33	3.73	(1.17- 11.91)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80- 14.60)
BERGMA	1	b	8	-	-	-	-	1.32	(0.88- 1.97)
CALL	1	b	0	19	19	18	17	0.94	(0.38- 2.37)
CHEN2	50	b	1	24	-	50	-	1.07	(0.61- 1.87)
CLARK	2	b	0	13	23	6	20	1.88	(0.60- 5.88)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10- 3.47)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84- 2.36)
FORSB1	2	b	14	-	-	-	-	1.10	(0.70- 1.70)
FORSB2	2	b	14	-	-	-	-	0.70	(0.30- 1.60)
FORSB3	2	b	15	-	-	-	-	1.56	(1.18- 2.05)
HJERN1	13	b	9	61	-	58	-	0.72	(0.52- 1.01)
HJERN2	13	b	9	44	-	34	-	0.94	(0.62- 1.43)
HOST	1	b	0	20	457	14	285	0.89	(0.44- 1.79)
INFANT	10	b	19	183	-	273	-	1.40	(0.95- 2.05)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
KARUNA	1	b	0	130	121	170	179	1.13	(0.82- 1.57)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15- 2.37)
MOHAME	1	b	0	-	-	-	-	1.60	(0.80- 3.20)
MOUSSA	1	b	0	1	0	202	203	3.01	~(0.12- 74.44)
MUMCUO	6	b	0	181	62	119	38	0.93	(0.59- 1.48)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70- 1.42)
PETERS	6	b	6	-	-	-	-	0.86	(0.64- 1.15)
SARRAZ	1	b	0	6	8	8	13	1.22	(0.31- 4.83)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SELCLUK	4	b	6	240	-	68	-	1.28	(0.94- 1.75)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
YANG	2	b	10	90	-	76	-	0.87	(0.61- 1.22)
Partial Totals				1567	1722	1524	3163		
*prospective study									~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO	1	b	0	1.32	2.85	3.84	0.0262
ARSHAD	1	b	7	1.20	1.82	2.00	0.1044
BERGMA	1	b	8	0.28	23.66	0.35	0.1769
CALL	1	b	0	-0.06	4.55	0.21	0.9029
CHEN2	50	b	1	0.07	12.24	0.09	0.8128
CLARK	2	b	0	0.63	2.97	0.68	0.2753
DAIGLE	3	b	7	0.67	11.64	3.12	0.0217
FAGBUL	2	b	1	0.34	14.40	0.51	0.1923
FORSB1	2	b	14	0.10	19.52	0.07	0.6737
FORSB2	2	b	14	-0.36	5.48	1.44	0.4036
FORSB3	2	b	15	0.44	50.37	4.21	0.0016
HJERN1	13	b	9	-0.33	34.86	8.17	0.0524
HJERN2	13	b	9	-0.06	22.00	1.04	0.7716
HOST	1	b	0	-0.12	7.87	0.58	0.7459
INFANT	10	b	19	0.34	25.97	0.85	0.0864
JONES	2	b	0	0.16	9.47	0.00	0.6266
KARUNA	1	b	0	0.12	36.46	0.04	0.4564
LINDFO	1	b	0	0.50	29.55	3.52	0.0065
MOHAME	1	b	0	0.47	8.00	0.79	0.1838
MOUSSA	1	b	0	1.10	0.37	0.34	0.5000
MUMCUO	6	b	0	-0.07	17.74	0.90	0.7676
PALMIE	3	b	0	-0.00	30.71	0.75	0.9963
PETERS	6	b	6	-0.15	44.74	4.20	0.3131
SARRAZ	1	b	0	0.20	2.03	0.00	0.7783
SCHMIT	1	b	4	0.73	13.33	4.36	0.0079
SELCLUK	4	b	6	0.25	39.78	0.33	0.1195
TOMINA	2	b	0	-1.06	1.84	2.71	0.1515
WILLE1	7	b	0	0.68	6.06	1.65	0.0955
YANG	2	b	10	-0.14	31.98	2.78	0.4310

Appendix Table A33 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Current Asthma
 Adjusted

RR data

	N	29
	NS	29
	Wt	512.28
Het	Chi	49.53
Het	df	28
Het	P	**
Fixed	RR	1.17
	RRl	1.07
	RRu	1.27
	P	+++
Random	RR	1.19
	RRl	1.05
	RRu	1.35
	P	++
Asymm	P	N.S.

Appendix Table A33 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Current Asthma
 Adjusted

Publication year
 <1990 1990-94 1995-99 2000+ Total

RR data

	N	1	11	12	5	29
NS	1	11	12	5	29	
Wt	1.84	137.07	253.54	119.84	512.28	
Het Chi	0.00	13.82	17.74	11.13	49.53	
Het df	0	10	11	4	28	
Het P	N.S.	N.S.	(*)	*	**	
Fixed RR	0.35	1.31	1.18	1.02	1.17	
RRl	0.08	1.11	1.05	0.85	1.07	
RRu	1.47	1.55	1.34	1.22	1.27	
P	N.S.	++	++	N.S.	+++	
Random RR	0.35	1.34	1.17	1.08	1.19	
RRl	0.08	1.09	0.99	0.79	1.05	
RRu	1.47	1.66	1.40	1.49	1.35	
P	N.S.	++	(+)	N.S.	++	
Between Chi					6.84	
Between df					3	
Between P					(*)	

Study type
 CC Pr CS Total

	N	15	3	11	29
NS	15	3	11	11	29
Wt	202.78	70.22	239.28	512.28	
Het Chi	14.46	5.42	24.88	49.53	
Het df	14	2	10	28	
Het P	N.S.	(*)	**	**	**
Fixed RR	1.31	1.03	1.10	1.17	
RRl	1.14	0.81	0.97	1.07	
RRu	1.51	1.30	1.25	1.27	
P	+++	N.S.	N.S.	+++	
Random RR	1.32	1.17	1.06	1.19	
RRl	1.14	0.72	0.85	1.05	
RRu	1.52	1.89	1.32	1.35	
P	+++	N.S.	N.S.	++	
Between Chi				4.77	
Between df				2	
Between P				(*)	

Highest age in RR
 0-9 10-14 15+ unknown Total

	N	6	10	12	1	29
NS	6	10	12	1	29	
Wt	85.81	269.06	145.76	11.64	512.28	
Het Chi	5.95	14.05	20.59	0.00	49.53	
Het df	5	9	11	0	28	
Het P	N.S.	N.S.	*	N.S.	**	
Fixed RR	1.46	1.12	1.07	1.96	1.17	
RRl	1.18	0.99	0.91	1.10	1.07	
RRu	1.80	1.26	1.26	3.48	1.27	
P	+++	(+)	N.S.	+	+++	
Random RR	1.45	1.11	1.16	1.96	1.19	
RRl	1.13	0.94	0.91	1.10	1.05	
RRu	1.86	1.30	1.48	3.48	1.35	
P	++	N.S.	N.S.	+	++	
Between Chi					8.93	
Between df					3	
Between P					*	

Appendix Table A33 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Current Asthma
 Adjusted

Population setting
 general school medical allergy other Total

RR data

N	4	9	15	1	29
NS	4	9	15	1	29
Wt	119.48	171.07	219.91	1.82	512.28
Het Chi	12.96	13.55	17.06	0.00	49.53
Het df	3	8	14	0	28
Het P	**	(*)	N.S.	N.S.	**
Fixed RR	1.09	1.07	1.29	3.33	1.17
RRl	0.91	0.92	1.13	0.78	1.07
RRu	1.31	1.24	1.47	14.23	1.27
P	N.S.	N.S.	+++	N.S.	+++
Random RR	1.04	1.10	1.30	3.33	1.19
RRl	0.70	0.89	1.11	0.78	1.05
RRu	1.54	1.36	1.51	14.23	1.35
P	N.S.	N.S.	+++	N.S.	++
Between Chi					5.97
Between df					3
Between P					N.S.

Respondent for smoking
 child parent med rec mix/oth Total

N	1	20		8	29
NS	1	20		8	29
Wt	2.85	389.26		120.17	512.28
Het Chi	0.00	34.58		10.12	49.53
Het df	0	19		7	28
Het P	N.S.	*		N.S.	**
Fixed RR	3.73	1.19		1.07	1.17
RRl	1.17	1.08		0.90	1.07
RRu	11.91	1.31		1.28	1.27
P	+	+++		N.S.	+++
Random RR	3.73	1.20		1.12	1.19
RRl	1.17	1.03		0.89	1.05
RRu	11.91	1.38		1.41	1.35
P	+	+		N.S.	++
Between Chi					4.83
Between df					2
Between P					(*)

Child smokers
 exc/none included ignored Total

N		5	24	29
NS		5	24	29
Wt		78.56	433.72	512.28
Het Chi		8.55	39.78	49.53
Het df		4	23	28
Het P		(*)	*	**
Fixed RR		1.04	1.19	1.17
RRl		0.84	1.09	1.07
RRu		1.30	1.31	1.27
P		N.S.	+++	+++
Random RR		1.14	1.20	1.19
RRl		0.77	1.05	1.05
RRu		1.69	1.38	1.35
P		N.S.	++	++
Between Chi				1.20
Between df				1
Between P				N.S.

Appendix Table A33 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Current Asthma
 Adjusted

Physician diagnosis (current)
 yes no/mix Total

RR data

N	29		29
NS	29		29
Wt	512.28		512.28
Het Chi	49.53		49.53
Het df	28		28
Het P	**		**
Fixed RR	1.17		1.17
RRl	1.07		1.07
RRu	1.27		1.27
P	+++		+++
Random RR	1.19		1.19
RRl	1.05		1.05
RRu	1.35		1.35
P	++		++
Between Chi			
Between df			
Between P			N.S.

Respondent for diagnosis (current)
 medrec parent child mixed Total

N	16	8	2	3	29
NS	16	8	2	3	29
Wt	198.44	180.58	56.87	76.40	512.28
Het Chi	18.95	13.40	0.96	4.44	49.53
Het df	15	7	1	2	28
Het P	N.S.	(*)	N.S.	N.S.	**
Fixed RR	1.30	1.23	0.80	1.05	1.17
RRl	1.13	1.06	0.62	0.84	1.07
RRu	1.49	1.42	1.04	1.31	1.27
P	+++	++	(-)	N.S.	+++
Random RR	1.32	1.19	0.80	1.13	1.19
RRl	1.11	0.96	0.62	0.78	1.05
RRu	1.56	1.48	1.04	1.64	1.35
P	++	N.S.	(-)	N.S.	++
Between Chi					11.78
Between df					3
Between P					**

Questionnaire for symptoms
 ISAAC ATS other Total

N		5	24	29
NS		5	24	29
Wt		110.20	402.08	512.28
Het Chi		12.16	37.13	49.53
Het df		4	23	28
Het P		*	*	**
Fixed RR		1.22	1.16	1.17
RRl		1.01	1.05	1.07
RRu		1.47	1.27	1.27
P		+	++	+++
Random RR		1.19	1.19	1.19
RRl		0.81	1.04	1.05
RRu		1.74	1.36	1.35
P		N.S.	+	++
Between Chi				0.23
Between df				1
Between P				N.S.

Appendix Table A33 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Current Asthma

Adjusted
Number of cases (current asthma)
1-50 51-100 101-200 201+ unknown Total

RR data

N	7	7	6	8	1	29
NS	7	7	6	8	1	29
Wt	28.15	72.37	141.96	246.15	23.66	512.28
Het Chi	7.32	10.43	17.65	11.62	0.00	49.53
Het df	6	6	5	7	0	28
Het P	N.S.	N.S.	**	N.S.	N.S.	**
Fixed RR	1.49	1.16	1.10	1.17	1.32	1.17
RRl	1.03	0.92	0.93	1.03	0.88	1.07
RRu	2.15	1.46	1.30	1.32	1.97	1.27
P	+	N.S.	N.S.	+	N.S.	+++
Random RR	1.53	1.14	1.17	1.16	1.32	1.19
RRl	1.01	0.83	0.85	0.98	0.88	1.05
RRu	2.33	1.57	1.61	1.37	1.97	1.35
P	+	N.S.	N.S.	(+)	N.S.	++
Between Chi						2.51
Between df						4
Between P						N.S.

Study adjusts for or is matched on sex
Yes No Total

N	20	9	29
NS	20	9	29
Wt	388.97	123.31	512.28
Het Chi	37.37	12.15	49.53
Het df	19	8	28
Het P	**	N.S.	**
Fixed RR	1.17	1.16	1.17
RRl	1.06	0.97	1.07
RRu	1.29	1.38	1.27
P	++	N.S.	+++
Random RR	1.21	1.16	1.19
RRl	1.04	0.90	1.05
RRu	1.40	1.49	1.35
P	+	N.S.	++
Between Chi			0.01
Between df			1
Between P			N.S.

Study adjusts for or is matched on age

N	20	9	29
NS	20	9	29
Wt	429.50	82.78	512.28
Het Chi	38.51	10.61	49.53
Het df	19	8	28
Het P	**	N.S.	**
Fixed RR	1.18	1.10	1.17
RRl	1.08	0.88	1.07
RRu	1.30	1.36	1.27
P	+++	N.S.	+++
Random RR	1.21	1.13	1.19
RRl	1.04	0.85	1.05
RRu	1.39	1.51	1.35
P	+	N.S.	++
Between Chi			0.40
Between df			1
Between P			N.S.

Appendix Table A33 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Current Asthma

Adjusted
Study adjusts for or is matched on race
 Yes No Total

RR data

	N		29	29
	NS		29	29
	Wt		512.28	512.28
	Het Chi		49.53	49.53
	Het df		28	28
	Het P		**	**
Fixed	RR		1.17	1.17
	RRl		1.07	1.07
	RRu		1.27	1.27
	P		+++	+++
Random	RR		1.19	1.19
	RRl		1.05	1.05
	RRu		1.35	1.35
	P		++	++
Between	Chi			
Between	df			
Between	P			N.S.

Study adjusts for or is matched on location

	N	13	16	29
	NS	13	16	29
	Wt	309.38	202.90	512.28
	Het Chi	26.45	22.42	49.53
	Het df	12	15	28
	Het P	**	(*)	**
Fixed	RR	1.13	1.22	1.17
	RRl	1.02	1.06	1.07
	RRu	1.27	1.40	1.27
	P	+	++	+++
Random	RR	1.15	1.25	1.19
	RRl	0.96	1.04	1.05
	RRu	1.37	1.51	1.35
	P	N.S.	+	++
Between	Chi			0.66
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on SES

	N	10	19	29
	NS	10	19	29
	Wt	247.97	264.31	512.28
	Het Chi	20.40	25.51	49.53
	Het df	9	18	28
	Het P	*	N.S.	**
Fixed	RR	1.07	1.27	1.17
	RRl	0.95	1.12	1.07
	RRu	1.21	1.43	1.27
	P	N.S.	+++	+++
Random	RR	1.13	1.25	1.19
	RRl	0.93	1.07	1.05
	RRu	1.37	1.47	1.35
	P	N.S.	++	++
Between	Chi			3.61
Between	df			1
Between	P			(*)

Appendix Table A33 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Current Asthma

Adjusted
Study adjusts for family medical history
Yes No Total

RR data

N	10	19	29
NS	10	19	29
Wt	226.96	285.32	512.28
Het Chi	9.18	34.37	49.53
Het df	9	18	28
Het P	N.S.	*	**
Fixed RR	1.32	1.06	1.17
RRl	1.16	0.94	1.07
RRu	1.50	1.19	1.27
P	+++	N.S.	+++
Random RR	1.32	1.13	1.19
RRl	1.15	0.94	1.05
RRu	1.50	1.35	1.35
P	+++	N.S.	++
Between Chi			5.98
Between df			1
Between P			*

Study adjusts for family composition

N	4	25	29
NS	4	25	29
Wt	71.96	440.32	512.28
Het Chi	7.90	35.53	49.53
Het df	3	24	28
Het P	*	(*)	**
Fixed RR	0.89	1.22	1.17
RRl	0.71	1.11	1.07
RRu	1.12	1.34	1.27
P	N.S.	+++	+++
Random RR	1.02	1.23	1.19
RRl	0.67	1.09	1.05
RRu	1.55	1.39	1.35
P	N.S.	+++	++
Between Chi			6.10
Between df			1
Between P			*

Study adjusts for cooking, heating, air conditioning

N	8	21	29
NS	8	21	29
Wt	166.30	345.98	512.28
Het Chi	14.71	30.50	49.53
Het df	7	20	28
Het P	*	(*)	**
Fixed RR	1.33	1.10	1.17
RRl	1.15	0.99	1.07
RRu	1.55	1.22	1.27
P	+++	(+)	+++
Random RR	1.34	1.12	1.19
RRl	1.06	0.97	1.05
RRu	1.70	1.29	1.35
P	+	N.S.	++
Between Chi			4.32
Between df			1
Between P			*

Appendix Table A33 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Current Asthma
Adjusted

Study adjusts for housing quality, crowding, damp, mould
 Yes No Total

RR data

N	9	20	29
NS	9	20	29
Wt	229.01	283.27	512.28
Het Chi	14.64	33.90	49.53
Het df	8	19	28
Het P	(*)	*	**
Fixed RR	1.11	1.22	1.17
RRl	0.98	1.08	1.07
RRu	1.27	1.37	1.27
P	N.S.	++	+++
Random RR	1.10	1.26	1.19
RRl	0.92	1.06	1.05
RRu	1.33	1.50	1.35
P	N.S.	++	++
Between Chi			0.99
Between df			1
Between P			N.S.

Study adjusts for pets, animal contact, farming

N	8	21	29
NS	8	21	29
Wt	186.57	325.71	512.28
Het Chi	13.17	33.79	49.53
Het df	7	20	28
Het P	(*)	*	**
Fixed RR	1.28	1.11	1.17
RRl	1.11	0.99	1.07
RRu	1.48	1.23	1.27
P	+++	(+)	+++
Random RR	1.27	1.15	1.19
RRl	1.03	0.99	1.05
RRu	1.58	1.35	1.35
P	+	(+)	++
Between Chi			2.56
Between df			1
Between P			N.S.

Study adjusts for child's medical history

N	10	19	29
NS	10	19	29
Wt	193.14	319.14	512.28
Het Chi	10.50	36.35	49.53
Het df	9	18	28
Het P	N.S.	**	**
Fixed RR	1.28	1.10	1.17
RRl	1.11	0.99	1.07
RRu	1.48	1.23	1.27
P	+++	(+)	+++
Random RR	1.30	1.11	1.19
RRl	1.11	0.93	1.05
RRu	1.52	1.33	1.35
P	++	N.S.	++
Between Chi			2.68
Between df			1
Between P			N.S.

Appendix Table A33 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Current Asthma
 Adjusted

Study adjusts for in utero exposure

RR data

	Yes	No	Total
N		29	29
NS		29	29
Wt	512.28		512.28
Het Chi	49.53		49.53
Het df	28		28
Het P	**		**
Fixed RR	1.17		1.17
RRl	1.07		1.07
RRu	1.27		1.27
P	+++		+++
Random RR	1.19		1.19
RRl	1.05		1.05
RRu	1.35		1.35
P	++		++
Between Chi			
Between df			
Between P			N.S.

Study adjusts for in life exposure

	7	22	29
N	7	22	29
NS	7	22	29
Wt	120.87	391.41	512.28
Het Chi	7.58	34.41	49.53
Het df	6	21	28
Het P	N.S.	*	**
Fixed RR	1.45	1.09	1.17
RRl	1.22	0.99	1.07
RRu	1.74	1.21	1.27
P	+++	(+)	+++
Random RR	1.45	1.12	1.19
RRl	1.16	0.98	1.05
RRu	1.80	1.29	1.35
P	+++	N.S.	++
Between Chi			7.54
Between df			1
Between P			**

Exposed group : Source/who is smoker

	Biochem	TotETS	AnyHh	AnyPar	Mother	Father	Total
N	1	1	13	6	7	1	29
NS	1	1	13	6	7	1	29
Wt	2.97	36.46	262.94	90.41	97.50	22.00	512.28
Het Chi	0.00	0.00	19.08	7.66	19.54	0.00	49.53
Het df	0	0	12	5	6	0	28
Het P	N.S.	N.S.	(*)	N.S.	**	N.S.	**
Fixed RR	1.88	1.13	1.14	1.32	1.16	0.94	1.17
RRl	0.60	0.82	1.01	1.07	0.95	0.62	1.07
RRu	5.88	1.57	1.29	1.62	1.42	1.43	1.27
P	N.S.	N.S.	+	++	N.S.	N.S.	+++
Random RR	1.88	1.13	1.14	1.35	1.24	0.94	1.19
RRl	0.60	0.82	0.96	1.02	0.82	0.62	1.05
RRu	5.88	1.57	1.34	1.78	1.89	1.43	1.35
P	N.S.	N.S.	N.S.	+	N.S.	N.S.	++
Between Chi							3.25
Between df							5
Between P							N.S.

Appendix Table A33 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Current Asthma
Adjusted

Exposed group : when Exposed
 lif/ev age<7y current unspec other Total

RR data

N	4	5	5	14	1	29
NS	4	5	5	14	1	29
Wt	84.66	128.58	107.37	188.70	2.97	512.28
Het Chi	9.38	5.24	4.48	20.52	0.00	49.53
Het df	3	4	4	13	0	28
Het P	*	N.S.	N.S.	(*)	N.S.	**
Fixed RR	0.98	1.40	1.02	1.20	1.88	1.17
RRl	0.79	1.18	0.84	1.04	0.60	1.07
RRu	1.21	1.67	1.23	1.38	5.88	1.27
P	N.S.	+++	N.S.	+	N.S.	+++
Random RR	1.06	1.38	1.03	1.24	1.88	1.19
RRl	0.70	1.12	0.83	1.02	0.60	1.05
RRu	1.62	1.69	1.26	1.52	5.88	1.35
P	N.S.	++	N.S.	+	N.S.	++
Between Chi						9.91
Between df						4
Between P						*

Unexposed group : who is smoker
 NoHhMemb NoParent NotSpPar Total

N	16	6	7	29
NS	16	6	7	29
Wt	304.21	90.41	117.66	512.28
Het Chi	22.43	7.66	17.80	49.53
Het df	15	5	6	28
Het P	(*)	N.S.	**	**
Fixed RR	1.14	1.32	1.14	1.17
RRl	1.02	1.07	0.95	1.07
RRu	1.27	1.62	1.37	1.27
P	+	++	N.S.	+++
Random RR	1.13	1.35	1.25	1.19
RRl	0.97	1.02	0.89	1.05
RRu	1.32	1.78	1.77	1.35
P	N.S.	+	N.S.	++
Between Chi				1.64
Between df				2
Between P				N.S.

Unexposed group : time
 non never non+othr NA Total

N	26	2	1	29
NS	26	2	1	29
Wt	452.45	56.87	2.97	512.28
Het Chi	38.74	0.96	0.00	49.53
Het df	25	1	0	28
Het P	*	N.S.	N.S.	**
Fixed RR	1.22	0.80	1.88	1.17
RRl	1.11	0.62	0.60	1.07
RRu	1.34	1.04	5.88	1.27
P	+++	(-)	N.S.	+++
Random RR	1.24	0.80	1.88	1.19
RRl	1.09	0.62	0.60	1.05
RRu	1.40	1.04	5.88	1.35
P	+++	(-)	N.S.	++
Between Chi				9.83
Between df				2
Between P				**

Appendix Table A33 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Current Asthma

		Adjusted					Total	
		Number of adjustment variables						
		0	1	2	3-5	6-9	10+	
RR data	N	14	2		1	7	5	29
	NS	14	2		1	7	5	29
	Wt	160.46	26.64		13.33	178.51	133.33	512.28
Het	Chi	15.80	0.50		0.00	16.76	9.09	49.53
Het	df	13	1		0	6	4	28
Het	P	N.S.	N.S.		N.S.	*	(*)	**
Fixed	RR	1.21	1.24		2.07	1.04	1.22	1.17
	RRl	1.04	0.85		1.21	0.90	1.03	1.07
	RRu	1.41	1.82		3.54	1.20	1.45	1.27
	P	+	N.S.		++	N.S.	+	+++
Random	RR	1.22	1.24		2.07	1.11	1.16	1.19
	RRl	1.01	0.85		1.21	0.85	0.88	1.05
	RRu	1.47	1.82		3.54	1.45	1.53	1.35
	P	+	N.S.		++	N.S.	N.S.	++
Between	Chi							7.38
Between	df							4
Between	P							N.S.

RR adjusted for sex

		Yes	No	Total
	N	12	17	29
	NS	12	17	29
	Wt	293.19	219.09	512.28
Het	Chi	30.13	19.37	49.53
Het	df	11	16	28
Het	P	**	N.S.	**
Fixed	RR	1.18	1.16	1.17
	RRl	1.05	1.01	1.07
	RRu	1.32	1.32	1.27
	P	++	+	+++
Random	RR	1.21	1.17	1.19
	RRl	0.99	1.00	1.05
	RRu	1.48	1.37	1.35
	P	(+)	+	++
Between	Chi			0.03
Between	df			1
Between	P			N.S.

RR adjusted for age

		10	19	29
	N	10	19	29
	NS	10	19	29
	Wt	267.71	244.57	512.28
Het	Chi	27.76	21.71	49.53
Het	df	9	18	28
Het	P	**	N.S.	**
Fixed	RR	1.16	1.18	1.17
	RRl	1.03	1.04	1.07
	RRu	1.30	1.34	1.27
	P	+	++	+++
Random	RR	1.18	1.19	1.19
	RRl	0.94	1.03	1.05
	RRu	1.47	1.38	1.35
	P	N.S.	+	++
Between	Chi			0.06
Between	df			1
Between	P			N.S.

Appendix Table A33 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Current Asthma
Adjusted

RR adjusted for other ETS
 Yes No Total

RR data

N	4	25	29
NS	4	25	29
Wt	101.34	410.94	512.28
Het Chi	4.27	42.38	49.53
Het df	3	24	28
Het P	N.S.	*	**
Fixed RR	1.36	1.13	1.17
RRl	1.12	1.02	1.07
RRu	1.65	1.24	1.27
P	++	+	+++
Random RR	1.31	1.18	1.19
RRl	1.02	1.02	1.05
RRu	1.68	1.35	1.35
P	+	+	++
Between Chi			2.88
Between df			1
Between P			(*)

RR adjusted for factor other than sex, age, other ETS

N	15	14	29
NS	15	14	29
Wt	351.81	160.46	512.28
Het Chi	33.43	15.80	49.53
Het df	14	13	28
Het P	**	N.S.	**
Fixed RR	1.15	1.21	1.17
RRl	1.04	1.04	1.07
RRu	1.28	1.41	1.27
P	++	+	+++
Random RR	1.18	1.22	1.19
RRl	0.99	1.01	1.05
RRu	1.40	1.47	1.35
P	(+)	+	++
Between Chi			0.30
Between df			1
Between P			N.S.

Derivation of RR/CI

	Original	Numbers	SumNumbs	Other	Total
N	9	7	5	8	29
NS	9	7	5	8	29
Wt	156.28	66.20	96.30	193.49	512.28
Het Chi	11.14	5.34	6.79	25.32	49.53
Het df	8	6	4	7	28
Het P	N.S.	N.S.	N.S.	***	**
Fixed RR	1.22	1.18	1.21	1.11	1.17
RRl	1.04	0.93	0.99	0.96	1.07
RRu	1.42	1.50	1.48	1.28	1.27
P	+	N.S.	(+)	N.S.	+++
Random RR	1.24	1.18	1.21	1.11	1.19
RRl	1.02	0.93	0.92	0.82	1.05
RRu	1.51	1.50	1.60	1.51	1.35
P	+	N.S.	N.S.	N.S.	++
Between Chi					0.94
Between df					3
Between P					N.S.

Appendix Table A33 - 4

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Current Asthma
 Unadjusted

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ADDOYO	1		b	8	17	all Africa	*	2001		CC	0		NoHhMemb	unspec	non
ARSHAD	1		b	1	1	all Eu:UK		1990	1992	Pr	7	AnyPar	NoParent	utero/life	non
BERGMA	1		b	3	6	all Eu:Ger		1990	2000	Pr	8		NoHhMemb	18m	non
CALL	1		b	3	15	all NAmer		1990	1992	CC	0		NoHhMemb	unspec	non
CHEN2	24	x	b	6	17	all NAmer		1993	1996	CS	0		NoHhMemb	current	non
CLARK	2		b	5	7	all Eu:UK	*	1994		CC	0		Low	-	-
DAIGLE	1	x	b	0	*	all NAmer		1986	1991	CC	0	Mother	NotMothr	unspec	non
FAGBUL	1	x	b	0	18	all Africa	*	1994		CC	0	AnyPar	NoParent	unspec	non
FORSB1	2		b	6	12	all Eu:Sca		1993	1997	CS	14		NoHhMemb	<2y	non
FORSB2	2		b	6	12	all Eu:Sca		1993	1997	CS	14		NoHhMemb	<2y	non
FORSB3	2		b	6	12	all Eu:Sca		1993	1997	CS	15		NoHhMemb	<2y	non
HJERN1	5	x	b	3	15	all Eu:Sca		1996	2001	CS	0	Mother	NotMothr	ever	never
HJERN2	5	x	b	3	15	all Eu:Sca		1996	2001	CS	0	Father	NotFathr	ever	never
HOST	1		b	6	17	all Eu:Sca		1990	1993	CS	0	AnyPar	NoParent	current	non
INFANT	3	x	b	3	4	all NAmer		1988	1993	CC	0	Mother	NotMothr	in life	non
JONES	2		b	4	16	all Eu:UK		1996	1999	CC	0	Mother	NotMothr	unspec	non
KARUNA	1		b	1	10	all As:cen		1996	2001	CC	0		None	current	non
LINDFO	1		b	1	4	all Eu:Sca		1990	1995	CC	0	AnyPar	NoParent	<2y	non
MOHAME	1		b	9	11	all Africa		1990	1995	CC	0		NoHhMemb	unspec	non
MOUSSA	1		b	6	18	all As:ME		1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCUO	6		b	3	15	all As:ME		1986	1994	CC	0		NoHhMemb	unspec	non
PALMIE	3		b	1	12	all Eu:Ita	*	1990		CC	0	AnyPar	NoParent	unspec	non
PETERS	6		b	9	14	all As:FE		1989	1996	Pr	6		NoHhMemb	current	non
SARRAZ	1		b	6	10	all SCamer	*	1997		CC	0		NoHhMemb	unspec	non
SCHMIT	1		b	6	15	all Eu:wst		1989	1993	CS	4	Mother	NotMothr	unspec	non
SELCUK	3	x	b	7	12	all Eu:est		1994	1997	CS	0		NoHhMemb	unspec	non
TOMINA	2		b	3	3	all As:FE		1978	1985	CS	0	Mother	NoHhMemb	unspec	non
WILLE1	7		b	3	15	all Eu:Sca		1988	1991	CC	0	AnyPar	NoParent	current	non
YANG	1	x	b	6	12	all As:FE		1994	1997	CS	0		NoHhMemb	unspec	non

Appendix Table A33 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Current Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ADDOYO	1	b	0	13	5	23	33	3.73	(1.17- 11.91)
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80- 14.60)
BERGMA	1	b	8	-	-	-	-	1.32	(0.88- 1.97)
CALL	1	b	0	19	19	18	17	0.94	(0.38- 2.37)
CHEN2	24	b	0	24	260	50	558	1.03	(0.62- 1.71)
CLARK	2	b	0	13	23	6	20	1.88	(0.60- 5.88)
DAIGLE	1	b	0	51	72	86	174	1.43	(0.92- 2.23)
FAGBUL	1	b	0	81	55	59	85	2.12	(1.32- 3.42)
FORSB1	2	b	14	-	-	-	-	1.10	(0.70- 1.70)
FORSB2	2	b	14	-	-	-	-	0.70	(0.30- 1.60)
FORSB3	2	b	15	-	-	-	-	1.56	(1.18- 2.05)
HJERN1	5	b	0	61	1346	58	1078	0.84	(0.58- 1.22)
HJERN2	5	b	0	44	977	34	884	1.17	(0.74- 1.85)
HOST	1	b	0	20	457	14	285	0.89	(0.44- 1.79)
INFANT	3	b	0	183	167	273	289	1.16	(0.89- 1.52)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
KARUNA	1	b	0	130	121	170	179	1.13	(0.82- 1.57)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15- 2.37)
MOHAME	1	b	0	-	-	-	-	1.60	(0.80- 3.20)
MOUSSA	1	b	0	1	0	202	203	3.01	~(0.12- 74.44)
MUMCUO	6	b	0	181	62	119	38	0.93	(0.59- 1.48)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70- 1.42)
PETERS	6	b	6	-	-	-	-	0.86	(0.64- 1.15)
SARRAZ	1	b	0	6	8	8	13	1.22	(0.31- 4.83)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SELUCUK	3	b	0	240	3697	68	1407	1.34	(1.02- 1.77)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
YANG	1	b	0	90	2471	76	1527	0.73	(0.54- 1.00)
Partial Totals				1567	10767	1524	9165		
*prospective study									~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO	1	b	0	1.32	2.85	3.77	0.0262
ARSHAD	1	b	7	1.20	1.82	1.96	0.1044
BERGMA	1	b	8	0.28	23.66	0.29	0.1769
CALL	1	b	0	-0.06	4.55	0.23	0.9029
CHEN2	24	b	0	0.03	14.86	0.28	0.9088
CLARK	2	b	0	0.63	2.97	0.65	0.2753
DAIGLE	1	b	0	0.36	19.66	0.73	0.1106
FAGBUL	1	b	0	0.75	16.88	5.79	0.0020
FORSB1	2	b	14	0.10	19.52	0.10	0.6737
FORSB2	2	b	14	-0.36	5.48	1.50	0.4036
FORSB3	2	b	15	0.44	50.37	3.89	0.0016
HJERN1	5	b	0	-0.17	28.32	3.24	0.3611
HJERN2	5	b	0	0.16	18.42	0.00	0.4983
HOST	1	b	0	-0.12	7.87	0.63	0.7459
INFANT	3	b	0	0.15	53.83	0.02	0.2761
JONES	2	b	0	0.16	9.47	0.00	0.6266
KARUNA	1	b	0	0.12	36.46	0.07	0.4564
LINDFO	1	b	0	0.50	29.55	3.30	0.0065
MOHAME	1	b	0	0.47	8.00	0.74	0.1838
MOUSSA	1	b	0	1.10	0.37	0.33	0.5000
MUMCUO	6	b	0	-0.07	17.74	0.99	0.7676
PALMIE	3	b	0	-0.00	30.71	0.86	0.9963
PETERS	6	b	6	-0.15	44.74	4.51	0.3131
SARRAZ	1	b	0	0.20	2.03	0.00	0.7783
SCHMIT	1	b	4	0.73	13.33	4.20	0.0079
SELUCUK	3	b	0	0.30	50.37	0.83	0.0362
TOMINA	2	b	0	-1.06	1.84	2.76	0.1515
WILLE1	7	b	0	0.68	6.06	1.58	0.0955
YANG	1	b	0	-0.31	39.48	9.05	0.0498

Appendix Table A33 - 5

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Physician Diagnosed Current Asthma
 Unadjusted

RR data

	N	29
	NS	29
	Wt	561.21
Het	Chi	52.29
Het	df	28
Het	P	**
Fixed	RR	1.18
	RR1	1.09
	RRu	1.28
	P	+++
Random	RR	1.20
	RR1	1.06
	RRu	1.36
	P	++
Asymm	P	N.S.

Appendix Table A33 - 6

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Current Asthma
 Unadjusted

Start year of study
 <1970 1970-79 1980-89 1990+ unknown Total

RR data

	N	1	6	17	5	29
NS	1	6	17	5	29	
Wt	1.84	155.36	348.58	55.43	561.21	
Het Chi	0.00	11.87	26.42	9.45	52.29	
Het df	0	5	16	4	28	
Het P	N.S.	*	*	(*)	**	
Fixed RR	0.35	1.14	1.17	1.40	1.18	
RRl	0.08	0.98	1.06	1.08	1.09	
RRu	1.47	1.34	1.30	1.82	1.28	
P	N.S.	(+)	++	+	+++	
Random RR	0.35	1.23	1.16	1.65	1.20	
RRl	0.08	0.94	1.00	0.99	1.06	
RRu	1.47	1.59	1.34	2.73	1.36	
P	N.S.	N.S.	+	(+)	++	
Between Chi					4.55	
Between df					3	
Between P					N.S.	

Study type
 CC Pr CS Total

	CC	Pr	CS	Total
N	15	3	11	29
NS	15	3	11	29
Wt	241.13	70.22	249.86	561.21
Het Chi	17.20	5.42	25.95	52.29
Het df	14	2	10	28
Het P	N.S.	(*)	**	**
Fixed RR	1.29	1.03	1.13	1.18
RRl	1.14	0.81	1.00	1.09
RRu	1.46	1.30	1.28	1.28
P	+++	N.S.	(+)	+++
Random RR	1.31	1.17	1.08	1.20
RRl	1.13	0.72	0.87	1.06
RRu	1.53	1.89	1.35	1.36
P	+++	N.S.	N.S.	++
Between Chi				3.72
Between df				2
Between P				N.S.

Appendix Table A33 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AGABI1	AGABI2	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BALL	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR
	BUTZ	CHEN1	CHHABR	CHINN	CONKA	CUNNI1	CUNNI2	DEBENE	DEKKER	DEKOK	DELL	DIJKST	DODGE	DOLD	DOTTER	ECE
	EHRLI1	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2	FORAST	FUJI	GILLIL	GOLD	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN	HABY	HAJNAL	HU1	HU2	JAAKKO	JENKIN	KALYO1	KALYO2
	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KUEHR	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEEDER	LEEN
	LEROUX	LILLJE	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MELIA	MELSOM	MONTEF	MOYES1	MOYES2	MURRAY	NHANE3
	NILSSO	NITTA	NYSTAD	OCONNE	ODDY	OHARA	PIC	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3
	RONMAR	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS	SHERMA	SHOHAT	SIGURS	SOMERV	SOTOQU	SOYSET	SPIEKE	SQUILL	STANHO
	STAZI	STERN1	STODDA	STRACH	TARIQ	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG
	WEITZ1	WEITZ2	WITHER	WOLFO1	WOLFO2	WOLFO3	XU	ZEIGER	ZEJDA	ZHENG						
3	OLIVET															
4	KNIGHT															
5	AZIZI	HUGHES	LOPEZC	STERN2												
14	WILLE2															

Appendix Table A33 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Physician Diagnosed Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
HJERN1	HJERN1	1	HJERN1/HJERN2
HJERN2	HJERN2	1	HJERN1/HJERN2
FORSB3	FORSB3	1	FORSB3/WILLE2

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ADDOYO	2	b	8	17	all	Africa	*	2001	CC	4		NoHhMemb	unspec	non	*	n
ARSHAD	7	b	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non	*	n
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	*	n
KARUNA	2	b	1	10	all	As:cen	1996	2001	CC	10		None	current	non	*	n
LOPEZC	3	b	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	1.06	n
MOHAME	5	b	9	11	all	Africa	1990	1995	CC	4		NoHhMemb	unspec	non	*	n
PALMIE	10	b	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non	*	y
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	0.98	n

Appendix Table A34 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Physician Diagnosed Current Asthma

This analysis is restricted to results for:

- 1) Physician diagnosed current asthma
- 2) Parental exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : not specific parent, neither parent, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A7 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A34 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Physician Diagnosed Current Asthma
 Adjusted

REF	NRR	CompA7	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ARSHAD	1		b	1	1	all	Eu:UK	1990	1992	Pr	7	AnyPar	NoParent	utero/life	non
CHEN2	47		b	6	17	all	NAmer	1993	1996	CS	1	Mother	NotMothr	ever	never
DAIGLE	3		b	0	*	all	NAmer	1986	1991	CC	7	Mother	NotMothr	unspec	non
FAGBUL	2		b	0	18	all	Africa	*	1994	CC	1	AnyPar	NoParent	unspec	non
HJERN1	13		b	3	15	all	Eu:Sca	1996	2001	CS	9	Mother	NotMothr	ever	never
HJERN2	13		b	3	15	all	Eu:Sca	1996	2001	CS	9	Father	NotFathr	ever	never
HOST	1		b	6	17	all	Eu:Sca	1990	1993	CS	0	AnyPar	NoParent	current	non
INFANT	10		b	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non
JONES	2		b	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non
LINDFO	1		b	1	4	all	Eu:Sca	1990	1995	CC	0	AnyPar	NoParent	<2y	non
MOUSSA	1		b	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCUO	2		b	3	15	all	As:ME	1986	1994	CC	0	Mother	NotMothr	unspec	non
PALMIE	3		b	1	12	all	Eu:Ita	*	1990	CC	0	AnyPar	NoParent	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
TOMINA	2		b	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non
WILLE1	7		b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non

Appendix Table A34 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Physician Diagnosed Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ARSHAD	1	b	7	-	-	-	-	3.33	(0.80- 14.60)
CHEN2	47	b	1	37	-	37	-	1.11	(0.67- 1.83)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10- 3.47)
FAGBUL	2	b	1	81	-	59	-	1.41	(0.84- 2.36)
HJERN1	13	b	9	61	-	58	-	0.72	(0.52- 1.01)
HJERN2	13	b	9	44	-	34	-	0.94	(0.62- 1.43)
HOST	1	b	0	20	457	14	285	0.89	(0.44- 1.79)
INFANT	10	b	19	183	-	273	-	1.40	(0.95- 2.05)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
LINDFO	1	b	0	109	140	84	178	1.65	(1.15- 2.37)
MOUSSA	1	b	0	1	0	202	203	3.01	(0.12- 74.44)
MUMCUO	2	b	0	0	4	300	96	0.04	(0.00- 0.67)
PALMIE	3	b	0	235	337	67	96	1.00	(0.70- 1.42)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
WILLE1	7	b	0	37	47	12	30	1.97	(0.89- 4.36)
Partial Totals				888	1488	1323	2959		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ARSHAD	1	b	7	1.20	1.82	1.94	0.1044
CHEN2	47	b	1	0.10	15.22	0.07	0.6839
DAIGLE	3	b	7	0.67	11.64	2.93	0.0217
FAGBUL	2	b	1	0.34	14.40	0.43	0.1923
HJERN1	13	b	9	-0.33	34.86	8.71	0.0524
HJERN2	13	b	9	-0.06	22.00	1.20	0.7716
HOST	1	b	0	-0.12	7.87	0.65	0.7459
INFANT	10	b	19	0.34	25.97	0.71	0.0864
JONES	2	b	0	0.16	9.47	0.00	0.6266
LINDFO	1	b	0	0.50	29.55	3.21	0.0065
MOUSSA	1	b	0	1.10	0.37	0.32	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.49	0.0258
PALMIE	3	b	0	-0.00	30.71	0.91	0.9963
SCHMIT	1	b	4	0.73	13.33	4.13	0.0079
TOMINA	2	b	0	-1.06	1.84	2.78	0.1515
WILLE1	7	b	0	0.68	6.06	1.55	0.0955

RR data

	N	16
	NS	16
	Wt	225.58
Het	Chi	35.01
Het	df	15
Het	P	**
Fixed	RR	1.19
	RRl	1.04
	RRu	1.35
	P	+
Random	RR	1.23
	RRl	0.98
	RRu	1.53
	P	(+)
Asymm	P	N.S.

Appendix Table A34 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Physician Diagnosed Current Asthma
 Adjusted

RR data

	N	16			
	NS	16			
	Wt	225.58			
Het	Chi	35.01			
Het	df	15			
Het	P	**			
Fixed	RR	1.19			
	RRl	1.04			
	RRu	1.35			
	P	+			
Random	RR	1.23			
	RRl	0.98			
	RRu	1.53			
	P	(+)			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	16		16	
	NS	16		16	
	Wt	225.58		225.58	
Het	Chi	35.01		35.01	
Het	df	15		15	
Het	P	**		**	
Fixed	RR	1.19		1.19	
	RRl	1.04		1.04	
	RRu	1.35		1.35	
	P	+		+	
Random	RR	1.23		1.23	
	RRl	0.98		0.98	
	RRu	1.53		1.53	
	P	(+)		(+)	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A34 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Physician Diagnosed Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AGABI1	AGABI2	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BALL	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR
	BUTZ	CHEN1	CHHABR	CHINN	CONKA	CUNNI1	CUNNI2	DEBENE	DEKKER	DEKOK	DELL	DIJKST	DODGE	DOLD	DOTTER	ECE
	EHRLI1	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2	FORAST	FUJI	GILLIL	GOLD	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN	HABY	HAJNAL	HU1	HU2	JAAKKO	JENKIN	KALYO1	KALYO2
	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KUEHR	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEEDER	LEEN
	LEROUX	LILLJE	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MELIA	MELSOM	MONTEF	MOYES1	MOYES2	MURRAY	NHANE3
	NILSSO	NITTA	NYSTAD	OCONNE	ODDY	OHARA	PIC	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3
	RONMAR	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS	SHERMA	SHOHAT	SIGURS	SOMERV	SOTOQU	SOYSET	SPIEKE	SQUILL	STANHO
	STAZI	STERN1	STODDA	STRACH	TARIQ	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG
	WEITZ1	WEITZ2	WITHER	WOLFO1	WOLFO2	WOLFO3	XU	ZEIGER	ZEJDA	ZHENG						
2	ADDOYO	CALL	CLARK	FORSB1	FORSB2	FORSB3	KARUNA	KNIGHT	PETERS	SARRAZ	SELCHUK	WILLE2	YANG			
3	BERGMA	OLIVET														
5	AZIZI	HUGHES	LOPEZC	MOHAME	STERN2											

Appendix Table A34 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Physician Diagnosed Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP	
HJERN1	HJERN1	1	HJERN1/HJERN2	
HJERN2	HJERN2	1	HJERN1/HJERN2	

Adjusted - insufficient data for metaanalysis																
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ARSHAD	7	b	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non	*	n
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	*	n
LOPEZC	3	b	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	1.06	n
MOHAME	2	b	9	11	all	Africa	1990	1995	CC	0	Mother	NotMothr	unspec	non	*	n
PALMIE	10	b	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non	*	y
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	0.98	n

Appendix Table A35 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma, Age range below 10 years

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Age range below 10 years
- 3) Biochemical, total, household (overall), or parental exposure
- 4) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 5) Results not by amount of exposure
- 6) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 7) EXPOS : biochemical, total, household, parent
 - 8) BIOMEA : saliva, blood, urine
 - 9) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
 - 10) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
 - 11) UNEXSO : not specific parent, neither parent, none in household, none
 - 12) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
 - 13) UNEXHI : not exposed defined as smoked none, or smoked none+low
 - 14) RACE : all in study or nearest available, otherwise by race
 - 15) ONSET : yes, no (prevalence)
 - 16) For overlapping studies: principal rather than subsidiary studies
- Finally by Age: whole study if available, otherwise by widest available age group
and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3
(and those which actually differ from the adjusted results in Appendix Table A1 - 1 are marked 'x' in Section -1)
(Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A35 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range below 10 years
 Adjusted

REF	NRR	CompA1	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
CHEN1	1		b	1	1	all	As:FE	1985	1988	CS	0	AnyHh	NoHhMemb	in life	non	-
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non	-
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non	-
JENKIN	5		b	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non	-
KERSHA	7		b	0	5	all	Eu:UK	1983	1987	CC	1	AnyHh	LowHh	<3y	non	-
KUEHR	6		b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non	-
LEEDER	2		b	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non	-
LEROUX	2		b	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non	-
LISTER	3		b	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non	-
MAIER	5		b	5	9	all	NAmer	1994	1997	CS	8	TotETS	None	current	non	-
MCCON2	2		b	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-
MCKEEV	9	x	b	0	2	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	current	never	-
MOYES1	1		b	6	7	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
NHANE3	19	x	b	4	6	w+b	NAmer	1988	2001	CS	5	Biochem	Low	-	-	blood
ODDY	1		b	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-
PONSON	8		b	0	7	all	Auslia	1988	2000	Pr	6	AnyHh	NoHhMemb	<1m	non	-
RONMAR	3	x	b	8	9	all	Eu:Sca	1996	2002	Pr	8	Mother	NotMothr	unspec	non	-
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non	-
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non	-
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non	-
WOLFO1	2		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
ZEIGER	1		b	0	7	all	NAmer	1981	1995	Pr	0	AnyHh	NoHhMemb	unspec	non	-

Appendix Table A35 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma, Age range below 10 years
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
CHEN1	1	b	0	64	1668	14	467	1.28	(0.71- 2.30)
DELL	2	b	0	-	-	-	-	1.52	(0.96- 2.40)
*FERGUS	7	b	0	75	572	58	460	1.04	(0.76- 1.43)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
KERSHA	7	b	1	71	-	15	-	3.12	(1.76- 5.54)
KUEHR	6	b	1	28	-	134	-	0.68	(0.44- 1.06)
*LEEDER	2	b	1	48	-	11	-	1.33	(0.67- 2.64)
LEROUX	2	b	10	39	-	58	-	1.79	(1.06- 3.02)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
MAIER	5	b	8	33	-	73	-	2.26	(1.33- 3.85)
MCCON2	2	b	0	2	45	13	163	0.56	(0.12- 2.56)
*MCKEEV	9	b	0	-	-	-	-	1.34	(1.24- 1.45)
MOYES1	1	b	0	358	1017	295	886	1.06	(0.88- 1.26)
NHANE3	19	b	5	-	-	-	-	1.26	(0.62- 2.57)
*ODDY	1	b	4	-	-	-	-	1.27	(1.04- 1.55)
*PONSON	8	b	6	185	-	88	-	1.03	(0.83- 1.26)
RONMAR	3	b	8	-	-	-	-	1.83	(1.25- 2.69)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SHAMSS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SIGURS	1	b	0	-	-	-	-	1.20	(0.41- 3.60)
WOLFO1	2	b	7	-	-	-	-	1.12	(0.63- 1.98)
*ZEIGER	1	b	0	8	22	42	143	1.24	(0.67- 2.28)
Partial Totals				1454	3330	1681	2187		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
CHEN1	1	b	0	0.25	11.14	0.00	0.4102
DELL	2	b	0	0.42	18.30	0.48	0.0733
*FERGUS	7	b	0	0.04	37.52	1.78	0.8106
JENKIN	5	b	7	0.23	116.41	0.08	0.0126
KERSHA	7	b	1	1.14	11.69	9.07	0.0001
KUEHR	6	b	1	-0.39	19.88	8.20	0.0855
*LEEDER	2	b	1	0.29	8.17	0.01	0.4149
LEROUX	2	b	10	0.58	14.02	1.48	0.0293
LISTER	3	b	8	0.42	64.33	1.69	0.0008
MAIER	5	b	8	0.82	13.60	4.24	0.0026
MCCON2	2	b	0	-0.58	1.65	1.17	0.4523
*MCKEEV	9	b	0	0.29	627.76	0.81	0.0000
MOYES1	1	b	0	0.06	120.55	4.88	0.5411
NHANE3	19	b	5	0.23	7.60	0.01	0.5240
*ODDY	1	b	4	0.24	96.50	0.03	0.0189
*PONSON	8	b	6	0.03	88.18	4.55	0.7813
RONMAR	3	b	8	0.60	26.16	3.16	0.0020
ROSASV	1	b	0	0.45	3.25	0.12	0.4168
SHAMSS	2	b	0	0.33	79.17	0.42	0.0034
*SIGURS	1	b	0	0.18	3.26	0.02	0.7422
WOLFO1	2	b	7	0.11	11.72	0.24	0.6981
*ZEIGER	1	b	0	0.21	10.38	0.02	0.4914

Appendix Table A35 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range below 10 years
 Adjusted

RR data

	N	22
	NS	22
	Wt	1391.22
Het	Chi	42.45
Het	df	21
Het	P	**
Fixed	RR	1.29
	RR1	1.23
	RRu	1.36
	P	+++
Random	RR	1.30
	RR1	1.18
	RRu	1.44
	P	+++
Asymm	P	N.S.

Appendix Table A35 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range below 10 years
 Adjusted

RR data

	N	22			
	NS	22			
	Wt	1391.22			
Het	Chi	42.45			
Het	df	21			
Het	P	**			
Fixed	RR	1.29			
	RRl	1.23			
	RRu	1.36			
	P	+++			
Random	RR	1.30			
	RRl	1.18			
	RRu	1.44			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	22		22	
	NS	22		22	
	Wt	1391.22		1391.22	
Het	Chi	42.45		42.45	
Het	df	21		21	
Het	P	**		**	
Fixed	RR	1.29		1.29	
	RRl	1.23		1.23	
	RRu	1.36		1.36	
	P	+++		+++	
Random	RR	1.30		1.30	
	RRl	1.18		1.18	
	RRu	1.44		1.44	
	P	+++		+++	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A35 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range below 10 years
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BUTZ	CHEN2	CUNNI2	DEBENE
	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FIELDE	FLYNN1	FLYNN2	FORAST	GILLIL	GOLD	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	HU1	HU2	KALYO1	KAY	KEARNE	KELLY	KENDIR	KIVITY
	KUHR	LAM1	LAM2	LIS	MARTIN	MCCON1	MOYES2	MURRAY	NILSSO	NYSTAD	OCONNE	POKHAR	RASANE	RATAGE	RENNIE	RONCH1
	RONCH2	RONCH3	RUDNIK	SANZOR	SCHENK	SELCUK	SENNHA	SHERMA	SOYSET	SQUILL	STANHO	STERN2	TIMONE	TSIMOY	ULRIK	VARELA
	VAVILI	VENNER	VERHOE	VONMAF	WITHER	WOLFO2	WOLFO3									
4	KAPLAN	TAYLOR	WEITZ1	XU												
6	BURR	MONTEF	STAZI	VOLKME	ZEJDA											
16	SPIEKE															

Appendix Table A35 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range below 10 years
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP														
KUEHR	KUEHR	1	KUEHR/SPIEKE														
WOLFO1	WOLFO1	1	WOLFO1/WOLFO2/WOLFO3														
Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	-	*	n
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	-	*	n
LISTER	9	b	0	4	all	Auslia	1989	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
MONTEF	1	b	5	8	all	Eu:wst	*	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
STAZI	7	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	-	*	n
VOLKME	2	b	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	-	*	n
ZEIGER	3	b	0	7	all	NAmer	1981	1995	Pr	4	AnyHh	NoHhMemb	unspec	non	-	*	n
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	-	*	n

Appendix Table A36 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range includes 10 years

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Age range includes 10 years
- 3) Biochemical, total, household (overall), or parental exposure
- 4) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 5) Results not by amount of exposure
- 6) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 7) EXPOS : biochemical, total, household, parent
 - 8) BIOMEA : saliva, blood, urine
 - 9) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
 - 10) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
 - 11) UNEXSO : not specific parent, neither parent, none in household, none
 - 12) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
 - 13) UNEXHI : not exposed defined as smoked none, or smoked none+low
 - 14) RACE : all in study or nearest available, otherwise by race
 - 15) ONSET : yes, no (prevalence)
 - 16) For overlapping studies: principal rather than subsidiary studies
- Finally by Age: whole study if available, otherwise by widest available age group
 and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3
 (and those which actually differ from the adjusted results in Appendix Table A1 - 1 are marked 'x' in Section -1)
 (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A36 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range includes 10 years
 Adjusted

REF NRR CompA1 SEX AGE1 AGEH RACE	LOC BEGYR PUBYR STYP ADJ EXP-who UNEXsource	EXPOS-time UNEXTI BIOMEA
ALBA 1	b 0 13 all Eu:wst 1993 1996 CC 0 AnyHh NoHhMemb	current non -
ALDAWO 2	m 6 15 all As:ME * 2000 CS 0 Mother NotMothr	ever never -
ALFRA1 2	b 7 12 all As:ME 1986 1990 CS 0 Mother NotMothr	unspec non -
ANDRAE 2	b 0 16 all Eu:Sca 1985 1988 CS 3 AnyPar NoParent	in life non -
ANNESI 1	b 1 18 all Eu:UK 1991 2001 CS 0 AnyPar NoParent	unspec non -
BARRET 1	b 9 11 all Eu:Ita 1999 2001 CS 0 AnyHh NoHhMemb	current non -
BECKET 6	b 0 17 all NAmer 1993 1996 CS 7 AnyHh NoHhMemb	ever never -
BENER 1	b 6 14 all As:ME 1992 1996 CS 0 AnyPar NoParent	unspec non -
BRABIN 2	b 5 11 all Eu:UK 1991 1994 CS 1 AnyHh NoHhMemb	unspec non -
BURCHF 5	m 0 19 all NAmer 1962 1986 CS 1 AnyPar NoParent	utero/life non -
BURCHF 8	f 0 19 all NAmer 1962 1986 CS 1 AnyPar NoParent	utero/life non -
CHEN2 37	b 6 17 all NAmer 1993 1996 CS 6 AnyHh NoHhMemb	current non -
DODGE 12	b 8 12 all NAmer 1978 1982 Pr 1 AnyPar NoParent	unspec non -
DOLD 21	b 9 11 all Eu:Ger 1989 1992 CS 1 AnyHh NoHhMemb	unspec non -
ECE 3	b 6 15 all Eu:est 1999 2001 CS 0 AnyHh NoHhMemb	current non -
EHLI2 3	b 3 14 all NAmer 1988 1992 CC 0 Biochem Low	- - urine
FARBE2 2	b 5 17 all NAmer 1987 1997 CS 3 Mother NotMothr	current non -
FAROOQ 1	b 0 21 all Eu:UK 1975 1998 CS 0 Mother NotMothr	ever never -
FLYNN1 1	b 9 10 all Auslia 1990 1994 CS 0 AnyHh NoHhMemb	unspec non -
FORAST 20	b 7 11 all Eu:Ita 1987 1992 CS 9 AnyPar NoParent	unspec non -
GILLIL 4	m 7 19 all NAmer 1993 2001 CS 4 AnyHh NoHhMemb	in life non -
GILLIL 12	f 7 19 all NAmer 1993 2001 CS 4 AnyHh NoHhMemb	in life non -
GOLD 11	b 6 18 wh NAmer 1974 1993 Pr 0 Mother NotMothr	<6y non -
GOREN1 3	b 7 11 all As:ME 1980 1986 CS 0 AnyHh NoHhMemb	current non -
GOREN2 5	b 7 11 all As:ME 1982 1995 CS 2 Mother NotMothr	ever never -
GORTM1 3	b 0 17 all NAmer 1977 1982 CS 7 Mother NotMothr	current non -
GORTM2 1	b 0 17 all NAmer 1980 1982 CS 0 Mother NotMothr	current non -
GURKAN 1	b 3 15 all Eu:est 1995 2002 CC 0 TotETS None	unspec non -
HAJNAL 1	b 6 14 all Eu:wst 1992 1999 CS 13 AnyHh NoHhMemb	current non -
HU1 4	b 10 11 all NAmer 1994 1997 CS 7 Mother NotMothr	current non -
KAY 20	b 3 11 all Eu:UK * 1995 CS 1 AnyPar NoParent	unspec non -
KENDIR 1	b 6 14 all Eu:est 1993 1998 CS 0 AnyHh NoHhMemb	current non -
KIVITY 4	b 8 17 jew As:ME * 2001 CS 0 Mother NotMothr	unspec non -
KUHR 4	b 7 16 all Eu:Ger 1987 1991 CS 0 AnyPar NoParent	in life non -
LAM2 1	b 8 13 all As:FE 1995 1999 CS 4 AnyHh NoHhMemb	unspec non -
MARTIN 5	m 0 12 all NAmer 1972 1992 Pr 1 Mother LowMothr	<5y non -
MARTIN 6	f 0 12 all NAmer 1972 1992 Pr 1 Mother LowMothr	<5y non -
MCKEEV 4	b 0 11 all Eu:UK * 2001 Pr 0 Mother NotMothr	ever never -
MURRAY 5	m 1 17 all NAmer 1986 1990 CS 1 Mother NotMothr	unspec non -
MURRAY 7	f 1 17 all NAmer 1986 1990 CS 1 Mother NotMothr	unspec non -
NHANE3 28	b 4 16 w+b NAmer 1988 2001 CS 6 Biochem Low	- - blood
OCONNE 1	b 2 16 all NAmer 1969 1974 CC 0 AnyPar NoParent	unspec non -
RATAGE 1	b 5 15 all As:cen 1996 2000 CC 0 AnyHh NoHhMemb	unspec non -
RENNIE 1	b 6 11 all NAmer 1993 2002 CS 6 AnyPar NoParent	in life non -
RONCH1 7	b 6 13 all Eu:Ita 1974 2001 CS 2 AnyHh Low	current non -
RONCH2 3	b 6 14 all Eu:Ita 1992 2001 CS 0 AnyHh Low	current non -
RONCH3 3	b 6 14 all Eu:Ita 1998 2001 CS 0 AnyHh Low	current non -
RONMAR 5	b 7 10 all Eu:Sca 1996 2002 Pr 9 Mother NotMothr	unspec non -
SELCUK 2	b 7 12 all Eu:est 1994 1997 CS 6 AnyHh NoHhMemb	unspec non -
SENNHA 1	b 1 16 all Eu:wst 1990 1992 CS 0 AnyHh NoHhMemb	unspec non -
SHERMA 2	b 5 23 all NAmer 1975 1990 Pr 2 Mother NotMothr	ever never -
SOYSET 14	b 7 13 all Eu:Sca 1989 1995 CS 5 Mother NotMothr	in life non -
SQUILL 1	b 8 12 all NAmer 1992 1997 CC 0 AnyHh NoHhMemb	unspec non -
TAYLOR 4	b 1 10 wh Eu:UK 1970 1983 Pr 0 Mother NotMothr	utero/life non -
TIMONE 1	b 7 12 all Eu:Sca 1993 1995 CS 0 AnyHh NoHhMemb	current non -
VARELA 1	b 6 15 all SCAmer 1999 2001 CS 0 AnyHh NoHhMemb	unspec non -
VAVILI 1	b 6 15 all Eu:est * 2000 CC 0 AnyHh NoHhMemb	unspec non -
VENNER 6	m 8 15 all As:FE 1995 2001 CS 0 Father NoParent	current never -
VENNER 3	f 8 15 all As:FE 1995 2001 CS 0 Father NoParent	current never -
VERHOE 3	b 7 11 all Eu:wst * 1992 CC 0 AnyPar NoParent	ever never -
VONMAF 1	b 0 17 all NAmer 1993 2001 CS 0 AnyHh NoHhMemb	ever never -
WOLFO2 2	b 10 10 all Eu:Ger 1979 1995 CS 7 AnyHh NoHhMemb	current non -

Appendix Table A36 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
Lifetime Asthma, Age range includes 10 years
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	1	b	0	68	70	34	32	0.91	(0.51- 1.64)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
BARRET	1	b	0	17	91	9	81	1.68	(0.71- 3.98)
BECKET	6	b	7	133	-	352	-	1.31	(1.03- 1.66)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BRABIN	2	b	1	204	-	114	-	1.06	(0.82- 1.37)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
CHEN2	37	b	6	32	-	61	-	1.67	(0.96- 2.89)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	21	b	1	217	-	295	-	1.10	(0.92- 1.33)
ECE	3	b	0	298	1704	132	906	1.20	(0.96- 1.50)
EHRLI2	3	b	0	37	29	60	88	1.87	(1.04- 3.36)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
FLYNN1	1	b	0	-	-	-	-	1.26	(0.95- 1.68)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
GILLIL	4	m	4	-	-	-	-	0.93	(0.74- 1.16)
GILLIL	12	f	4	-	-	-	-	1.05	(0.81- 1.35)
Subtotal GILLIL								0.98	(0.83- 1.16)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	3	b	0	80	766	50	514	1.07	(0.74- 1.56)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
GURKAN	1	b	0	50	22	90	74	1.87	(1.04- 3.37)
HAJNAL	1	b	13	-	-	-	-	1.20	(0.94- 1.54)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KENDIR	1	b	0	-	-	-	-	1.41	(1.16- 1.72)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM2	1	b	4	-	-	-	-	0.91	(0.69- 1.18)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY								1.37	(0.91- 2.07)
NHANE3	28	b	6	424	-	175	-	1.16	(0.77- 1.76)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
RATAGE	1	b	0	62	30	58	30	1.07	(0.58- 1.99)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
RONCH1	7	b	2	40	-	83	-	1.40	(1.02- 1.91)
RONCH2	3	b	0	60	351	93	726	1.33	(0.94- 1.89)
RONCH3	3	b	0	40	312	91	696	0.98	(0.66- 1.46)
*RONMAR	5	b	9	-	-	-	-	1.36	(0.82- 2.25)
SELCUK	2	b	6	689	-	193	-	1.35	(1.12- 1.62)
SENNHA	1	b	0	119	1631	132	2268	1.25	(0.97- 1.62)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
SOYSET	14	b	5	35	-	16	-	2.80	(1.30- 6.10)
SQUILL	1	b	0	38	80	97	226	1.11	(0.70- 1.74)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
TIMONE	1	b	0	10	225	170	2139	0.56	(0.29- 1.07)
VARELA	1	b	0	27	13	7	10	2.97	(0.92- 9.57)
VAVILI	1	b	0	60	74	40	30	0.61	(0.34- 1.09)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE	3	b	0	78	185	39	72	0.78	(0.49- 1.25)
VONMAF	1	b	0	166	766	217	1260	1.26	(1.01- 1.57)
WOLFO2	2	b	7	-	-	-	-	1.35	(0.75- 2.43)
Partial Totals				7420	26316	7281	36596		

Appendix Table A36 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range includes 10 years
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
*prospective study									
REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps		
ALBA	1	b	0	-0.09	11.15	1.09	0.7647		
ALDAWO	2	m	0	0.76	8.40	2.43	0.0274		
ALFRA1	2	b	0	0.41	22.65	0.81	0.0498		
ANDRAE	2	b	3	-0.01	54.89	2.98	0.9406		
ANNESI	1	b	0	0.25	89.09	0.09	0.0166		
BARRET	1	b	0	0.52	5.17	0.46	0.2373		
BECKET	6	b	7	0.27	67.46	0.15	0.0266		
BENER	1	b	0	0.24	19.32	0.01	0.2839		
BRABIN	2	b	1	0.06	58.33	1.58	0.6563		
BURCHF	5	m	1	0.22	32.51	0.00	0.2200		
BURCHF	8	f	1	0.00	24.97	1.24	1.0000		
Subtotal BURCHF				-0.23	57.49	1.24			
CHEN2	37	b	6	0.51	12.65	1.06	0.0681		
DODGE	12	b	1	0.41	7.12	0.24	0.2794		
DOLD	21	b	1	0.10	113.12	1.84	0.3107		
ECE	3	b	0	0.18	79.23	0.13	0.1041		
EHRLI2	3	b	0	0.63	11.17	1.82	0.0363		
FARBE2	2	b	3	0.41	57.72	2.07	0.0017		
FAROOQ	1	b	0	0.25	72.93	0.07	0.0297		
FLYNN1	1	b	0	0.23	47.28	0.00	0.1120		
FORAST	20	b	9	0.25	37.10	0.02	0.1327		
GILLIL	4	m	4	-0.07	76.04	6.64	0.5268		
GILLIL	12	f	4	0.05	58.89	1.78	0.7081		
Subtotal GILLIL				-0.47	134.93	8.42			
GOLD	11	b	0	0.26	211.41	0.23	0.0002		
GOREN1	3	b	0	0.07	27.97	0.64	0.7071		
GOREN2	5	b	2	0.22	99.84	0.01	0.0316		
GORTM1	3	b	7	0.40	36.85	1.14	0.0155		
GORTM2	1	b	0	0.63	6.99	1.14	0.0978		
GURKAN	1	b	0	0.63	11.10	1.80	0.0372		
HAJNAL	1	b	13	0.18	63.05	0.10	0.1477		
HU1	4	b	7	-0.22	12.73	2.53	0.4259		
KAY	20	b	1	0.35	38.89	0.64	0.0288		
KENDIR	1	b	0	0.34	99.03	1.44	0.0006		
KIVITY	4	b	0	0.59	13.44	1.79	0.0311		
KUHR	4	b	0	0.70	5.57	1.26	0.0997		
LAM2	1	b	4	-0.09	53.37	5.37	0.4908		
*MARTIN	5	m	1	0.56	11.93	1.35	0.0533		
*MARTIN	6	f	1	0.68	5.55	1.18	0.1075		
Subtotal MARTIN				0.80	17.48	2.53			
*MCKEEV	4	b	0	0.27	1119.12	2.58	0.0000		
MURRAY	5	m	1	0.34	14.28	0.21	0.1941		
MURRAY	7	f	1	0.27	8.50	0.02	0.4311		
Subtotal MURRAY				0.17	22.78	0.23			
NHANE3	28	b	6	0.15	22.48	0.12	0.4816		
OCONNE	1	b	0	0.25	33.98	0.03	0.1384		
RATAGE	1	b	0	0.07	10.00	0.24	0.8330		
RENNIE	1	b	6	0.02	13.41	0.55	0.9422		
RONCH1	7	b	2	0.34	39.05	0.50	0.0355		
RONCH2	3	b	0	0.29	31.60	0.14	0.1048		
RONCH3	3	b	0	-0.02	24.61	1.45	0.9224		
*RONMAR	5	b	9	0.31	15.08	0.11	0.2324		
SELCUK	2	b	6	0.30	112.79	0.67	0.0014		
SENNHA	1	b	0	0.23	58.71	0.00	0.0833		
*SHERMA	2	b	2	0.17	19.90	0.07	0.4603		
SOYSET	14	b	5	1.03	6.43	4.19	0.0090		
SQUILL	1	b	0	0.10	18.67	0.28	0.6613		
*TAYLOR	4	b	0	-0.04	72.55	5.04	0.7281		
TIMONE	1	b	0	-0.58	9.03	5.84	0.0808		
VARELA	1	b	0	1.09	2.80	2.10	0.0687		
VAVILI	1	b	0	-0.50	11.30	5.86	0.0945		
VENNER	6	m	0	0.09	27.66	0.45	0.6182		
VENNER	3	f	0	0.18	28.98	0.06	0.3399		
Subtotal VENNER				-0.17	56.63	0.51			

Appendix Table A36 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range includes 10 years
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
VERHOE	3	b	0	-0.25	17.31	3.88	0.2972
VONMAF	1	b	0	0.23	78.55	0.00	0.0417
WOLFO2	2	b	7	0.30	11.12	0.07	0.3170

RR data

	N	62
	NS	57
	Wt	3472.83
Het	Chi	81.57
Het	df	61
Het	P	*
Fixed	RR	1.25
	RR1	1.21
	RRu	1.29
	P	+++
Random	RR	1.23
	RR1	1.17
	RRu	1.29
	P	+++
Asymm	P	N.S.

Appendix Table A36 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range includes 10 years
 Adjusted

RR data

	N	62			
	NS	57			
	Wt	3472.83			
Het	Chi	81.57			
Het	df	61			
Het	P	*			
Fixed	RR	1.25			
	RRl	1.21			
	RRu	1.29			
	P	+++			
Random	RR	1.23			
	RRl	1.17			
	RRu	1.29			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	51	6	5	62
	NS	51	6	5	62
	Wt	3175.11	170.83	126.89	3472.83
Het	Chi	65.92	9.59	2.69	81.57
Het	df	50	5	4	61
Het	P	(*)	(*)	N.S.	*
Fixed	RR	1.26	1.14	1.12	1.25
	RRl	1.22	0.98	0.94	1.21
	RRu	1.31	1.32	1.33	1.29
	P	+++	(+)	N.S.	+++
Random	RR	1.24	1.24	1.12	1.23
	RRl	1.18	0.99	0.94	1.17
	RRu	1.30	1.57	1.33	1.29
	P	+++	(+)	N.S.	+++
Between	Chi				3.37
Between	df				2
Between	P				N.S.

Appendix Table A36 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range includes 10 years
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	BURR	BUTZ	CHEN1	DELL	FERGUS	GOREN3	GOREN4	GOREN5	GOREN6	HU2	JENKIN	KAPLAN	KERSHA	KUEHR	LAM1	LEEDER
	LEROUX	LIS	LISTER	MAIER	MCCON2	MONTEF	MOYES1	MOYES2	NILSSO	ODDY	POKHAR	PONSON	RASANE	ROSASV	SHAMSS	SIGURS
	SPIEKE	STANHO	STAZI	TSIMOY	VOLKME	WEITZ1	WITHER	WOLFO1	WOLFO3	XU	ZEIGER	ZEJDA				
4	CUNNI2	KELLY	NYSTAD													
6	AKCAKA	DEBENE	FIELDE	FLYNN2	KALYO1	KEARNE	RUDNIK	SANZOR	SCHENK	STERN2	ULRIK					
16	ALFRA2	FARBE1	FARBE3	MCCON1												

Appendix Table A36 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range includes 10 years
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP											RR	SIG		
GILLIL	GILLIL	1	MCCON1/GILLIL														
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3														
BRABIN	BRABIN	1	KELLY/BRABIN														
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2														
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6														
WOLFO2	WOLFO2	1	WOLFO1/WOLFO2/WOLFO3														
Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
AKCAKA	1	b	6	15	all	Eu:est	1996	2000	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	-	1.01	?
BRABIN	3	b	5	11	all	Eu:UK	1991	1994	CS	6	AnyHh	NoHhMemb	unspec	non	-	*	n
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	-	1.46	y
ECE	8	b	6	15	all	Eu:est	1999	2001	CS	3	AnyHh	NoHhMemb	current	non	-	*	n
FIELDER	1	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
FLYNN2	1	b	9	10	all	Auslia	1991	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-	*	n
KALYO1	1	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KEARNE	1	m	6	12	all	Eu:wst	1997	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KIVITY	5	b	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	-	*	y
RUDNIK	1	b	8	10	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	0.74	?
SANZOR	1	b	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	-	*	n
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	-	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	-	1.35	y
TIMONE	2	b	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	<2y	non	-	*	n
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	-	*	n

Appendix Table A37 -

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range above 10 years

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Age range above 10 years
- 3) Biochemical, total, household (overall), or parental exposure
- 4) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 5) Results not by amount of exposure
- 6) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 7) EXPOS : biochemical, total, household, parent
 - 8) BIOMEA : saliva, blood, urine
 - 9) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
 - 10) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
 - 11) UNEXSO : not specific parent, neither parent, none in household, none
 - 12) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
 - 13) UNEXHI : not exposed defined as smoked none, or smoked none+low
 - 14) RACE : all in study or nearest available, otherwise by race
 - 15) ONSET : yes, no (prevalence)
 - 16) For overlapping studies: principal rather than subsidiary studies
- Finally by Age: whole study if available, otherwise by widest available age group
 and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3
 (and those which actually differ from the adjusted results in Appendix Table A1 - 1 are marked 'x' in Section -1)
 (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A37 - 1

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range above 10 years
 Adjusted

REF	NRR	CompA1	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
HU2	23		b	20	22	all	NAmer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non	-
LAM1	8		b	12	15	all	As:FE	1994	1998	CS	4	AnyHh	NoHhMemb	unspec	non	-
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non	-
MOYES2	1		b	13	14	all	Auslia	*	1995	CS	0	AnyHh	NoHhMemb	unspec	non	-
NHANE3	25	x	b	12	16	w+b	NAmer	1988	2001	CS	5	Biochem	Low	-	-	blood
NILSSO	1		b	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non	-
POKHAR	2		b	11	15	all	As:cen	1995	2001	CC	5	AnyHh	NoHhMemb	unspec	non	-
RASANE	3		b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never	-
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non	-
TSIMOY	1		b	12	17	all	NAmer	1985	1987	CS	0	TotETS	None	current	non	-
WITHER	1		b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLFO3	2		b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-

Appendix Table A37 - 2

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range above 10 years
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
LAM1	8	b	4	163	-	201	-	0.92	(0.74- 1.15)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
MOYES2	1	b	0	363	1285	252	842	0.94	(0.79- 1.13)
NHANE3	25	b	5	-	-	-	-	1.04	(0.53- 2.01)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
POKHAR	2	b	5	27	-	13	-	3.33	(1.85- 7.65)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)
STANHO	2	b	0	7	169	20	193	0.40	(0.16- 0.97)
TSIMOY	1	b	0	9	123	4	57	1.04	(0.31- 3.53)
WITHER	1	b	0	202	633	296	1107	1.19	(0.97- 1.46)
WOLFO3	2	b	10	-	-	-	-	1.39	(0.93- 2.06)
Partial Totals				924	2210	963	2199		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
HU2	23	b	3	0.44	31.16	3.22	0.0144
LAM1	8	b	4	-0.08	79.06	3.17	0.4585
LIS	1	b	0	0.31	37.30	1.36	0.0604
MOYES2	1	b	0	-0.06	115.09	3.51	0.5355
NHANE3	25	b	5	0.04	8.65	0.05	0.9082
NILSSO	1	b	0	0.00	31.98	0.44	1.0000
POKHAR	2	b	5	1.20	7.63	9.00	0.0009
RASANE	3	b	3	0.46	27.24	3.28	0.0155
STANHO	2	b	0	-0.92	4.90	5.24	0.0423
TSIMOY	1	b	0	0.04	2.59	0.01	0.9464
WITHER	1	b	0	0.18	92.49	0.33	0.0890
WOLFO3	2	b	10	0.33	24.30	1.10	0.1046

RR data

N	12
NS	12
Wt	462.37
Het Chi	30.70
Het df	11
Het P	**
Fixed RR	1.12
RR1	1.03
RRu	1.23
P	+
Random RR	1.19
RR1	1.00
RRu	1.42
P	+
Asymm P	N.S.

Appendix Table A37 - 3

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range above 10 years
 Adjusted

RR data

	N	12			
	NS	12			
	Wt	462.37			
Het	Chi	30.70			
Het	df	11			
Het	P	**			
Fixed	RR	1.12			
	RR1	1.03			
	RRu	1.23			
	P	+			
Random	RR	1.19			
	RR1	1.00			
	RRu	1.42			
	P	+			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	12		12	
	NS	12		12	
	Wt	462.37		462.37	
Het	Chi	30.70		30.70	
Het	df	11		11	
Het	P	**		**	
Fixed	RR	1.12		1.12	
	RR1	1.03		1.03	
	RRu	1.23		1.23	
	P	+		+	
Random	RR	1.19		1.19	
	RR1	1.00		1.00	
	RRu	1.42		1.42	
	P	+		+	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A37 - 7

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range above 10 years
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CHEN2
	CUNNI2	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2	FORAST
	GILLIL	GOLD	GOREN1	GOREN2	GORTM1	GORTM2	GURKAN	HAJNAL	HU1	JENKIN	KALYO1	KAPLAN	KAY	KEARNE	KELLY	KENDIR
	KERSHA	KIVITY	KUEHR	KUHR	LAM2	LEEDER	LEROUX	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MONTEF	MOYES1	MURRAY
	NYSTAD	OCONNE	ODDY	PONSON	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	SANZOR	SCHENK	SELCUK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	STERN2	TAYLOR	TIMONE	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WEITZ1	WOLFO1	WOLFO2	XU	ZEIGER	ZEJDA										
6	GOREN3	GOREN4	GOREN5	GOREN6	RUDNIK											

Appendix Table A37 - 8

IESAST - Meta-analysis of Lifetime Exposure, Biochemical/Total (or Household, or Parent if Bio/Tot not available)
 Lifetime Asthma, Age range above 10 years
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP														
WOLFO3	WOLFO3		1	WOLFO1/WOLFO2/WOLFO3													
Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	-	*	n
GOREN4	1	b	13	14	all	As:ME	1983	1997	CS	5	Mother	NotMothr	current	non	-	*	n
GOREN5	1	b	13	14	all	As:ME	1986	1997	CS	5	Mother	NotMothr	current	non	-	*	n
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	-	1.67	y
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	-	*	n
RUDNIK	2	b	11	13	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.43	?
RUDNIK	3	b	14	16	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.09	?

Appendix Table A38 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range below 10 years

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Age range below 10 years
- 3) Parental exposure
- 4) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 5) Results not by amount of exposure
- 6) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 7) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 8) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 9) UNEXSO : not specific parent, neither parent, none in household
- 10) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 11) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 12) RACE : all in study or nearest available, otherwise by race
- 13) ONSET : yes, no (prevalence)
- 14) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A5 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A38 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range below 10 years
 Adjusted

REF	NRR	CompA5	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
DELL	2		b	1	1	all	NAmer	1994	2001	CS	0	AnyPar	NoParent	current	non
FERGUS	7		b	0	6	all	Auslia	1977	1985	Pr	0	AnyPar	NoParent	in life	non
JENKIN	5		b	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non
KERSHA	5		b	0	5	all	Eu:UK	1983	1987	CC	1	Mother	LowMothr	<3y	non
KUEHR	6		b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non
LEEDER	2		b	0	5	all	Eu:UK	1963	1976	Pr	1	AnyPar	NoParent	in life	non
LEROUX	2		b	6	7	all	Eu:wst	1990	1995	CS	10	AnyPar	LowParnt	unspec	non
LISTER	3		b	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non
MCCON2	1		b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non
MCKEEV	9	x	b	0	2	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	current	never
PONSON	4		b	0	7	all	Auslia	1988	2000	Pr	6	Mother	NotMothr	<1m	non
RONMAR	3	x	b	8	9	all	Eu:Sca	1996	2002	Pr	8	Mother	NotMothr	unspec	non
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non
SIGURS	1		b	0	3	all	Eu:Sca	1989	1995	Pr	0	AnyPar	NoParent	unspec	non

Appendix Table A38 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma, Age range below 10 years
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
DELL	2	b	0	-	-	-	-	1.52 (0.96-	2.40)
*FERGUS	7	b	0	75	572	58	460	1.04 (0.76-	1.43)
JENKIN	5	b	7	534	-	815	-	1.26 (1.05-	1.51)
KERSHA	5	b	1	51	-	35	-	2.43 (1.55-	3.79)
KUEHR	6	b	1	28	-	134	-	0.68 (0.44-	1.06)
*LEEDER	2	b	1	48	-	11	-	1.33 (0.67-	2.64)
LEROUX	2	b	10	39	-	58	-	1.79 (1.06-	3.02)
LISTER	3	b	8	-	-	-	-	1.52 (1.19-	1.94)
MCCON2	1	b	0	7	59	8	149	2.21 (0.77-	6.37)
*MCKEEV	9	b	0	-	-	-	-	1.34 (1.24-	1.45)
*PONSON	4	b	6	130	-	146	-	1.05 (0.87-	1.27)
RONMAR	3	b	8	-	-	-	-	1.83 (1.25-	2.69)
ROSASV	1	b	0	9	6	65	68	1.57 (0.53-	4.66)
SHAMSS	2	b	0	-	-	-	-	1.39 (1.12-	1.74)
*SIGURS	1	b	0	-	-	-	-	1.20 (0.41-	3.60)
Partial Totals				921	637	1330	677		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
DELL	2	b	0	0.42	18.30	0.37	0.0733
*FERGUS	7	b	0	0.04	37.52	2.13	0.8106
JENKIN	5	b	7	0.23	116.41	0.25	0.0126
KERSHA	5	b	1	0.89	19.22	7.16	0.0001
KUEHR	6	b	1	-0.39	19.88	8.74	0.0855
*LEEDER	2	b	1	0.29	8.17	0.00	0.4149
LEROUX	2	b	10	0.58	14.02	1.30	0.0293
LISTER	3	b	8	0.42	64.33	1.29	0.0008
MCCON2	1	b	0	0.79	3.43	0.91	0.1420
*MCKEEV	9	b	0	0.29	627.76	0.15	0.0000
*PONSON	4	b	6	0.05	107.38	5.61	0.6131
RONMAR	3	b	8	0.60	26.16	2.80	0.0020
ROSASV	1	b	0	0.45	3.25	0.10	0.4168
SHAMSS	2	b	0	0.33	79.17	0.21	0.0034
*SIGURS	1	b	0	0.18	3.26	0.03	0.7422

RR data

N	15
NS	15
Wt	1148.25
Het Chi	31.04
Het df	14
Het P	**
Fixed RR	1.32
RRl	1.25
RRu	1.40
P	+++
Random RR	1.34
RRl	1.19
RRu	1.51
P	+++
Asymm P	N.S.

Appendix Table A38 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma, Age range below 10 years
Adjusted

RR data

	N	15			
	NS	15			
	Wt	1148.25			
Het	Chi	31.04			
Het	df	14			
Het	P	**			
Fixed	RR	1.32			
	RRl	1.25			
	RRu	1.40			
	P	+++			
Random	RR	1.34			
	RRl	1.19			
	RRu	1.51			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both		male	female	Total
	N	15			15
	NS	15			15
	Wt	1148.25			1148.25
Het	Chi	31.04			31.04
Het	df	14			14
Het	P	**			**
Fixed	RR	1.32			1.32
	RRl	1.25			1.25
	RRu	1.40			1.40
	P	+++			+++
Random	RR	1.34			1.34
	RRl	1.19			1.19
	RRu	1.51			1.51
	P	+++			+++
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table A38 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range below 10 years
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BUTZ	CHEN2	CUNNI2	DEBENE
	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FIELDE	FLYNN1	FLYNN2	FORAST	GILLIL	GOLD	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	HU1	HU2	KALYO1	KAY	KEARNE	KELLY	KENDIR	KIVITY
	KUHR	LAM1	LAM2	LIS	MARTIN	MCCON1	MOYES2	MURRAY	NILSSO	NYSTAD	OCONNE	POKHAR	RASANE	RATAGE	RENNIE	RONCH1
	RONCH2	RONCH3	RUDNIK	SANZOR	SCHENK	SELCUK	SENNHA	SHERMA	SOYSET	SQUILL	STANHO	STERN2	TIMONE	TSIMOY	ULRIK	VARELA
	VAVILI	VENNER	VERHOE	VONMAF	WITHER	WOLFO2	WOLFO3									
3	CHEN1	MAIER	MONTEF	MOYES1	ODDY	SPIEKE	WOLFO1									
4	KAPLAN	NHANE3	TAYLOR	WEITZ1	XU											
6	BURR	STAZI	VOLKME	ZEIGER	ZEJDA											

Appendix Table A38 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range below 10 years
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP														RR	SIG
KUEHR	KUEHR	1	KUEHR/SPIEKE															
Adjusted - insufficient data for metaanalysis																		
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG		
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	*	n		
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	*	n		
STAZI	7	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	*	n		
VOLKME	2	b	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	*	n		
ZEIGER	4	b	0	7	all	NAmer	1981	1995	Pr	4	Mother	NotMothr	unspec	non	*	n		
ZEJDA	1	b	7	9	all	Eu:est		*	1996	CS	3	AnyPar	NoParent	unspec	non	*	n	

Appendix Table A39 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range includes 10 years

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Age range includes 10 years
- 3) Parental exposure
- 4) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 5) Results not by amount of exposure
- 6) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 7) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 8) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 9) UNEXSO : not specific parent, neither parent, none in household
- 10) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 11) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 12) RACE : all in study or nearest available, otherwise by race
- 13) ONSET : yes, no (prevalence)
- 14) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A5 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A39 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range includes 10 years
 Adjusted

REF	NRR	CompA5	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAWO	2		m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non
ANDRAE	2		b	0	16	all	Eu:Sca	1985	1988	CS	3	AnyPar	NoParent	in life	non
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non
BENER	1		b	6	14	all	As:ME	1992	1996	CS	0	AnyPar	NoParent	unspec	non
BURCHF	5		m	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
BURCHF	8		f	0	19	all	NAmer	1962	1986	CS	1	AnyPar	NoParent	utero/life	non
CHEN2	34		b	6	17	all	NAmer	1993	1996	CS	6	Mother	NotMothr	ever	never
DODGE	12		b	8	12	all	NAmer	1978	1982	Pr	1	AnyPar	NoParent	unspec	non
DOLD	7		b	9	11	all	Eu:Ger	1989	1992	CS	0	AnyPar	NoParent	unspec	non
ECE	7		b	6	15	all	Eu:est	1999	2001	CS	0	Mother	NotMothr	current	non
EHRLI2	4		b	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	ever	never
FARBE2	2		b	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never
FORAST	20		b	7	11	all	Eu:Ita	1987	1992	CS	9	AnyPar	NoParent	unspec	non
GOLD	11		b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non
GOREN1	4		b	7	11	all	As:ME	1980	1986	CS	0	Mother	NotMothr	current	non
GOREN2	5		b	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never
GORTM1	3		b	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non
GORTM2	1		b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non
HAJNAL	3		b	6	14	all	Eu:wst	1992	1999	CS	13	Mother	NotMothr	current	non
HU1	4		b	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non
KAY	20		b	3	11	all	Eu:UK	*	1995	CS	1	AnyPar	NoParent	unspec	non
KIVITY	4		b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non
KUHR	4		b	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non
LAM2	9		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MCCON1	2		b	9	18	all	NAmer	1993	2002	Pr	5	Mother	NotMothr	9-16y	non
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never
MURRAY	5		m	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
MURRAY	7		f	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non
RATAGE	2		b	5	15	all	As:cen	1996	2000	CC	0	Father	NotFathr	unspec	non
RENNIE	1		b	6	11	all	NAmer	1993	2002	CS	6	AnyPar	NoParent	in life	non
RONMAR	5		b	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never
SOYSET	14		b	7	13	all	Eu:Sca	1989	1995	CS	5	Mother	NotMothr	in life	non
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VERHOE	3		b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never

Appendix Table A39 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range includes 10 years
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	2	b	0	32	30	70	72	1.10	(0.60- 1.99)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
ANDRAE	2	b	3	101	-	148	-	0.99	(0.76- 1.29)
ANNESI	1	b	0	164	1243	255	2491	1.29	(1.05- 1.59)
BENER	1	b	0	35	189	64	441	1.28	(0.82- 1.99)
BURCHF	5	m	1	223	-	45	-	1.24	(0.88- 1.75)
BURCHF	8	f	1	133	-	35	-	1.00	(0.68- 1.49)
Subtotal BURCHF								1.13	(0.87- 1.46)
CHEN2	34	b	6	51	-	42	-	1.67	(1.01- 2.77)
DODGE	12	b	1	21	-	12	-	1.50	(0.72- 3.13)
DOLD	7	b	0	176	1822	235	2931	1.20	(0.98- 1.48)
ECE	7	b	0	96	530	334	2080	1.13	(0.88- 1.44)
EHRLI2	4	b	0	-	-	-	-	2.00	(1.10- 3.80)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
FORAST	20	b	9	164	-	52	-	1.28	(0.93- 1.77)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	4	b	0	37	279	93	1001	1.43	(0.95- 2.14)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
HAJNAL	3	b	13	-	-	-	-	1.16	(0.89- 1.55)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
KAY	20	b	1	103	-	108	-	1.42	(1.04- 1.95)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUHR	4	b	0	34	469	7	194	2.01	(0.88- 4.61)
LAM2	9	b	4	-	-	-	-	0.87	(0.64- 1.17)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
*MCCON1	2	b	5	23	-	193	-	0.99	(0.67- 1.47)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY								1.37	(0.91- 2.07)
OCONNE	1	b	0	264	137	136	91	1.29	(0.92- 1.80)
RATAGE	2	b	0	51	29	69	31	0.79	(0.42- 1.47)
RENNIE	1	b	6	-	-	-	-	1.02	(0.60- 1.75)
*RONMAR	5	b	9	-	-	-	-	1.36	(0.82- 2.25)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
SOYSET	14	b	5	35	-	16	-	2.80	(1.30- 6.10)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
VERHOE	3	b	0	78	185	39	72	0.78	(0.49- 1.25)
Partial Totals				5015	22842	5764	33631		
*prospective study									

Appendix Table A39 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range includes 10 years
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALBA	2	b	0	0.09	10.78	0.22	0.7608
ALDAWO	2	m	0	0.76	8.40	2.31	0.0274
ALFRA1	2	b	0	0.41	22.65	0.69	0.0498
ANDRAE	2	b	3	-0.01	54.89	3.35	0.9406
ANNESI	1	b	0	0.25	89.09	0.03	0.0166
BENER	1	b	0	0.24	19.32	0.00	0.2839
BURCHF	5	m	1	0.22	32.51	0.02	0.2200
BURCHF	8	f	1	0.00	24.97	1.40	1.0000
Subtotal BURCHF				-0.26	57.49	1.42	
CHEN2	34	b	6	0.51	15.10	1.15	0.0463
DODGE	12	b	1	0.41	7.12	0.20	0.2794
DOLD	7	b	0	0.19	92.36	0.24	0.0734
ECE	7	b	0	0.12	63.38	0.86	0.3376
EHRLI2	4	b	0	0.69	10.00	2.08	0.0284
FARBE2	2	b	3	0.41	57.72	1.77	0.0017
FAROOQ	1	b	0	0.25	72.93	0.02	0.0297
FORAST	20	b	9	0.25	37.10	0.00	0.1327
GOLD	11	b	0	0.26	211.41	0.07	0.0002
GOREN1	4	b	0	0.36	23.61	0.33	0.0838
GOREN2	5	b	2	0.22	99.84	0.05	0.0316
GORTM1	3	b	7	0.40	36.85	0.96	0.0155
GORTM2	1	b	0	0.63	6.99	1.06	0.0978
HAJNAL	3	b	13	0.15	49.92	0.39	0.2943
HU1	4	b	7	-0.22	12.73	2.70	0.4259
KAY	20	b	1	0.35	38.89	0.50	0.0288
KIVITY	4	b	0	0.59	13.44	1.65	0.0311
KUHR	4	b	0	0.70	5.57	1.18	0.0997
LAM2	9	b	4	-0.14	42.22	5.98	0.3655
*MARTIN	5	m	1	0.56	11.93	1.24	0.0533
*MARTIN	6	f	1	0.68	5.55	1.10	0.1075
Subtotal MARTIN				0.77	17.48	2.35	
*MCCON1	2	b	5	-0.01	24.89	1.52	0.9600
*MCKEEV	4	b	0	0.27	1119.12	1.28	0.0000
MURRAY	5	m	1	0.34	14.28	0.16	0.1941
MURRAY	7	f	1	0.27	8.50	0.01	0.4311
Subtotal MURRAY				0.14	22.78	0.17	
OCONNE	1	b	0	0.25	33.98	0.01	0.1384
RATAGE	2	b	0	-0.24	9.92	2.21	0.4582
RENNIE	1	b	6	0.02	13.41	0.63	0.9422
*RONMAR	5	b	9	0.31	15.08	0.07	0.2324
*SHERMA	2	b	2	0.17	19.90	0.10	0.4603
SOYSET	14	b	5	1.03	6.43	4.04	0.0090
*TAYLOR	4	b	0	-0.04	72.55	5.60	0.7281
VENNER	6	m	0	0.09	27.66	0.56	0.6182
VENNER	3	f	0	0.18	28.98	0.10	0.3399
Subtotal VENNER				-0.20	56.63	0.66	
VERHOE	3	b	0	-0.25	17.31	4.12	0.2972

RR data

N	43
NS	39
Wt	2589.27
Het Chi	52.00
Het df	42
Het P	N.S.
Fixed RR	1.27
RRl	1.22
RRu	1.32
P	+++
Random RR	1.25
RRl	1.18
RRu	1.32
P	+++
Asymm P	N.S.

Appendix Table A39 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range includes 10 years
 Adjusted

RR data

	N	43			
	NS	39			
	Wt	2589.27			
Het	Chi	52.00			
Het	df	42			
Het	P	N.S.			
Fixed	RR	1.27			
	RRl	1.22			
	RRu	1.32			
	P	+++			
Random	RR	1.25			
	RRl	1.18			
	RRu	1.32			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	34	5	4	43
	NS	34	5	4	43
	Wt	2426.49	94.79	68.00	2589.27
Het	Chi	45.09	4.01	2.27	52.00
Het	df	33	4	3	42
Het	P	(*)	N.S.	N.S.	N.S.
Fixed	RR	1.27	1.34	1.18	1.27
	RRl	1.22	1.09	0.93	1.22
	RRu	1.32	1.64	1.50	1.32
	P	+++	++	N.S.	+++
Random	RR	1.24	1.34	1.18	1.25
	RRl	1.17	1.09	0.93	1.18
	RRu	1.32	1.64	1.50	1.32
	P	+++	++	N.S.	+++
Between	Chi				0.63
Between	df				2
Between	P				N.S.

Appendix Table A39 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range includes 10 years
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	BURR	BUTZ	CHEN1	DELL	FERGUS	GOREN3	GOREN4	GOREN5	GOREN6	HU2	JENKIN	KAPLAN	KERSHA	KUEHR	LAM1	LEEDER
	LEROUX	LIS	LISTER	MAIER	MCCON2	MONTEF	MOYES1	MOYES2	NILSSO	ODDY	POKHAR	PONSON	RASANE	ROSASV	SHAMSS	SIGURS
	SPIEKE	STANHO	STAZI	TSIMOY	VOLKME	WEITZ1	WITHER	WOLFO1	WOLFO3	XU	ZEIGER	ZEJDA				
3	AKCAKA	BARRET	BECKET	BRABIN	FIELDE	FLYNN1	FLYNN2	GURKAN	KALYO1	KEARNE	KENDIR	NHANE3	RONCH1	RONCH2	RONCH3	RUDNIK
	SELCUK	SENNHA	SQUILL	TIMONE	VARELA	VAVILI	WOLFO2									
4	CUNNI2	GILLIL	KELLY	NYSTAD												
6	DEBENE	SANZOR	SCHENK	STERN2	ULRIK	VONMAF										
14	ALFRA2	FARBE1	FARBE3													

Appendix Table A39 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range includes 10 years
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
MCCON1	GILLIL	2	MCCON1/GILLIL
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	1.01	?
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	1.46	y
KIVITY	5	b	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	*	y
SANZOR	1	b	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	*	n
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	1.35	y
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	*	n
VONMAF	3	b	0	17	all	NAmer	1993	2001	CS	7	Mother	NotMothr	ever	never	*	y

Appendix Table A40 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range above 10 years

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Age range above 10 years
- 3) Parental exposure
- 4) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 5) Results not by amount of exposure
- 6) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 7) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 8) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 9) UNEXSO : not specific parent, neither parent, none in household
- 10) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 11) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 12) RACE : all in study or nearest available, otherwise by race
- 13) ONSET : yes, no (prevalence)
- 14) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A5 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A40 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range above 10 years
 Adjusted

REF	NRR	CompA5	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
HU2	23		b	20	22	all	NMer	1986	1997	Pr	3	AnyPar	LowParnt	13-15y	non
LAM1	18		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non
NILSSO	1		b	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non
RASANE	3		b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
WITHER	6		b	14	16	all	Eu:UK	1995	1998	CS	5	Mother	NotMothr	current	non

Appendix Table A40 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma, Age range above 10 years
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
HU2	23	b	3	52	-	101	-	1.55	(1.09- 2.20)
LAM1	18	b	4	-	-	201	-	1.32	(0.71- 2.45)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
NILSSO	1	b	0	-	-	-	-	1.00	(0.70- 1.40)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)
STANHO	2	b	0	7	169	20	193	0.40	(0.16- 0.97)
WITHER	6	b	5	103	-	395	-	1.50	(1.14- 1.98)
Partial Totals				263	169	793	193		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
HU2	23	b	3	0.44	31.16	0.66	0.0144
LAM1	18	b	4	0.28	10.02	0.00	0.3796
LIS	1	b	0	0.31	37.30	0.01	0.0604
NILSSO	1	b	0	0.00	31.98	2.74	1.0000
RASANE	3	b	3	0.46	27.24	0.80	0.0155
STANHO	2	b	0	-0.92	4.90	7.17	0.0423
WITHER	6	b	5	0.41	50.42	0.64	0.0040

RR data

	N	7
	NS	7
	Wt	193.01
Het	Chi	12.02
Het	df	6
Het	P	(*)
Fixed	RR	1.34
	RRl	1.16
	RRu	1.54
	P	+++
Random	RR	1.30
	RRl	1.05
	RRu	1.60
	P	+
Asymm	P	N.S.

Appendix Table A40 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range above 10 years
 Adjusted

RR data

	N	7			
	NS	7			
	Wt	193.01			
	Het Chi	12.02			
	Het df	6			
	Het P	(*)			
Fixed	RR	1.34			
	RRl	1.16			
	RRu	1.54			
	P	+++			
Random	RR	1.30			
	RRl	1.05			
	RRu	1.60			
	P	+			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	7		7	
	NS	7		7	
	Wt	193.01		193.01	
	Het Chi	12.02		12.02	
	Het df	6		6	
	Het P	(*)		(*)	
Fixed	RR	1.34		1.34	
	RRl	1.16		1.16	
	RRu	1.54		1.54	
	P	+++		+++	
Random	RR	1.30		1.30	
	RRl	1.05		1.05	
	RRu	1.60		1.60	
	P	+		+	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A40 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range above 10 years
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CHEN2
	CUNNI2	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2	FORAST
	GILLIL	GOLD	GOREN1	GOREN2	GORTM1	GORTM2	GURKAN	HAJNAL	HU1	JENKIN	KALYO1	KAPLAN	KAY	KEARNE	KELLY	KENDIR
	KERSHA	KIVITY	KUEHR	KUHR	LAM2	LEEDER	LEROUX	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MONTEF	MOYES1	MURRAY
	NYSTAD	OCONNE	ODDY	PONSON	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	SANZOR	SCHENK	SELCUK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	STERN2	TAYLOR	TIMONE	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WEITZ1	WOLFO1	WOLFO2	XU	ZEIGER	ZEJDA										
3	MOYES2	NHANE3	POKHAR	RUDNIK	TSIMOY	WOLFO3										
6	GOREN3	GOREN4	GOREN5	GOREN6												

Appendix Table A40 - 8

Adjusted - insufficient data for metaanalysis

REF NRR SEX AGE AGEH RACE	LOC BEGYR PUBYR STTYP ADJ EXP-who UNEXsource	EXPOS-time UNEXTI	RR SIG
GOREN3 1 b 13 14 all As:ME	1980 1997 CS 5 Mother NotMothr	current non	* n
GOREN4 1 b 13 14 all As:ME	1983 1997 CS 5 Mother NotMothr	current non	* n
GOREN5 1 b 13 14 all As:ME	1986 1997 CS 5 Mother NotMothr	current non	* n
GOREN6 1 b 13 14 all As:ME	1989 1997 CS 5 Mother NotMothr	current non	1.67 y
RASANE 2 b 16 16 all Eu:Sca	1991 2000 CS 0 AnyPar NoParent	<7y non	* n

Appendix Table A41 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Parental exposure (both parents)
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 7) UNEXSO : neither parent, none in household
- 8) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 9) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 10) RACE : all in study or nearest available, otherwise by race
- 11) ONSET : yes, no (prevalence)
- 12) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A41 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	UNEXsource	EXPOS-time	UNEXTI
BURCHF	4	m	0	19	all	NAmer	1962	1986	CS	1	NoParent	utero/life	non
BURCHF	7	f	0	19	all	NAmer	1962	1986	CS	1	NoParent	utero/life	non
DODGE	4	b	8	12	all	NAmer	1978	1982	Pr	1	NoParent	unspec	non
DOLD	3	b	9	11	all	Eu:Ger	1989	1992	CS	0	NoParent	unspec	non
FERGUS	3	b	0	6	all	Auslia	1977	1985	Pr	0	NoParent	in life	non
FORAST	16	b	7	11	all	Eu:Ita	1987	1992	CS	9	NoParent	unspec	non
GOREN2	4	b	7	11	all	As:ME	1982	1995	CS	0	NoParent	ever	never
HU2	19	b	20	22	all	NAmer	1986	1997	Pr	3	LowParnt	13-15y	non
KAY	16	b	3	11	all	Eu:UK	*	1995	CS	1	NoParent	unspec	non

Appendix Table A41 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Cont	Case	Cont			
BURCHF	4	m	1	142	-	45	-	1.72	(1.20-	2.48)
BURCHF	7	f	1	76	-	35	-	1.24	(0.81-	1.89)
Subtotal	BURCHF							1.50	(1.14-	1.97)
DODGE	4	b	1	11	-	12	-	1.73	(0.74-	4.03)
DOLD	3	b	0	55	616	235	2931	1.11	(0.82-	1.51)
*FERGUS	3	b	0	35	252	58	460	1.10	(0.75-	1.63)
FORAST	16	b	9	73	-	52	-	1.50	(1.04-	2.20)
GOREN2	4	b	0	148	1054	246	2317	1.32	(1.07-	1.64)
HU2	19	b	3	16	-	101	-	2.90	(1.60-	5.60)
KAY	16	b	1	38	-	108	-	1.93	(1.23-	3.01)
Partial Totals				594	1922	892	5708			

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
BURCHF	4	m	1	0.54	29.16	1.25	0.0034
BURCHF	7	f	1	0.22	21.40	0.31	0.3196
Subtotal	BURCHF			0.09	50.56	1.56	
DODGE	4	b	1	0.55	5.35	0.24	0.2049
DOLD	3	b	0	0.11	40.98	2.12	0.4909
*FERGUS	3	b	0	0.10	25.21	1.43	0.6273
FORAST	16	b	9	0.41	27.37	0.14	0.0339
GOREN2	4	b	0	0.28	81.95	0.25	0.0114
HU2	19	b	3	1.06	9.79	5.21	0.0009
KAY	16	b	1	0.66	19.19	2.00	0.0040

RR data

	N	9
	NS	8
	Wt	260.40
Het	Chi	12.95
Het	df	8
Het	P	N.S.
Fixed	RR	1.40
	RRl	1.24
	RRu	1.58
	P	+++
Random	RR	1.44
	RRl	1.22
	RRu	1.70
	P	+++
Asymm	P	N.S.

Appendix Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
Adjusted

RR data

	N	9						
	NS	8						
	Wt	260.40						
	Het Chi	12.95						
	Het df	8						
	Het P	N.S.						
Fixed	RR	1.40						
	RR1	1.24						
	RRu	1.58						
	P	+++						
Random	RR	1.44						
	RR1	1.22						
	RRu	1.70						
	P	+++						
Asymm	P	N.S.						
			<u>Sex</u>					
		both	male	female		Total		
	N	7	1	1		9		
	NS	7	1	1		8		
	Wt	209.84	29.16	21.40		260.40		
	Het Chi	11.33	0.00	0.00		12.95		
	Het df	6	0	0		8		
	Het P	(*)	N.S.	N.S.		N.S.		
Fixed	RR	1.38	1.72	1.24		1.40		
	RR1	1.20	1.20	0.81		1.24		
	RRu	1.57	2.47	1.89		1.58		
	P	+++	++	N.S.		+++		
Random	RR	1.44	1.72	1.24		1.44		
	RR1	1.17	1.20	0.81		1.22		
	RRu	1.77	2.47	1.89		1.70		
	P	+++	++	N.S.		+++		
Between	Chi					1.62		
Between	df					2		
Between	P					N.S.		
			<u>Continent</u>					
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	4		3	1	1		9
	NS	3		3	1	1		8
	Wt	65.70		87.54	81.95	25.21		260.40
	Het Chi	4.91		4.23	0.00	0.00		12.95
	Het df	3		2	0	0		8
	Het P	N.S.		N.S.	N.S.	N.S.		N.S.
Fixed	RR	1.67		1.38	1.32	1.10		1.40
	RR1	1.31		1.12	1.07	0.75		1.24
	RRu	2.13		1.70	1.64	1.63		1.58
	P	+++		++	+	N.S.		+++
Random	RR	1.72		1.43	1.32	1.10		1.44
	RR1	1.24		1.05	1.07	0.75		1.22
	RRu	2.39		1.95	1.64	1.63		1.70
	P	++		+	+	N.S.		+++
Between	Chi							3.81
Between	df							3
Between	P							N.S.

Appendix Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically

		Lifetime Asthma						
		Adjusted						
		Country in Europe						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
RR data	N	1	1	1				3
	NS	1	1	1				3
	Wt	19.19	27.37	40.98				87.54
	Het Chi	0.00	0.00	0.00				4.23
	Het df	0	0	0				2
	Het P	N.S.	N.S.	N.S.				N.S.
Fixed	RR	1.93	1.50	1.11				1.38
	RRl	1.23	1.03	0.82				1.12
	RRu	3.02	2.18	1.51				1.70
	P	++	+	N.S.				++
Random	RR	1.93	1.50	1.11				1.43
	RRl	1.23	1.03	0.82				1.05
	RRu	3.02	2.18	1.51				1.95
	P	++	+	N.S.				+
Between	Chi							4.23
Between	df							2
Between	P							N.S.
		Country in Asia						
		FarEast	Cent/SE	MidlEast			Total	
	N			1			1	
	NS			1			1	
	Wt			81.95			81.95	
	Het Chi			0.00			0.00	
	Het df			0			0	
	Het P			N.S.			N.S.	
Fixed	RR			1.32			1.32	
	RRl			1.07			1.07	
	RRu			1.64			1.64	
	P			+			+	
Random	RR			1.32			1.32	
	RRl			1.07			1.07	
	RRu			1.64			1.64	
	P			+			+	
Between	Chi							
Between	df							
Between	P						N.S.	
		Start year of study						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N	2	2	4		1	9	
	NS	1	2	4		1	8	
	Wt	50.56	30.56	160.10		19.19	260.40	
	Het Chi	1.32	0.90	7.58		0.00	12.95	
	Het df	1	1	3		0	8	
	Het P	N.S.	N.S.	(*)		N.S.	N.S.	
Fixed	RR	1.50	1.19	1.36		1.93	1.40	
	RRl	1.14	0.84	1.16		1.23	1.24	
	RRu	1.97	1.70	1.58		3.02	1.58	
	P	++	N.S.	+++		++	+++	
Random	RR	1.49	1.19	1.44		1.93	1.44	
	RRl	1.08	0.84	1.10		1.23	1.22	
	RRu	2.05	1.70	1.90		3.02	1.70	
	P	+	N.S.	++		++	+++	
Between	Chi						3.15	
Between	df						3	
Between	P						N.S.	

Appendix Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically

		Lifetime Asthma Adjusted				
		Publication year				
		<1990	1990-94	1995-99	2000+	Total
RR data	N	4	2	3		9
	NS	3	2	3		8
	Wt	81.12	68.35	110.93		260.40
Het	Chi	3.21	1.46	6.76		12.95
Het	df	3	1	2		8
Het	P	N.S.	N.S.	*		N.S.
Fixed	RR	1.37	1.25	1.51		1.40
	RRl	1.11	0.99	1.26		1.24
	RRu	1.71	1.59	1.82		1.58
	P	++	(+)	+++		+++
Random	RR	1.37	1.27	1.81		1.44
	RRl	1.09	0.95	1.17		1.22
	RRu	1.72	1.69	2.80		1.70
	P	++	N.S.	++		+++
Between	Chi					1.52
Between	df					2
Between	P					N.S.
		Study type				
		CC	Pr	CS		Total
	N		3	6		9
	NS		3	5		8
	Wt		40.35	220.05		260.40
Het	Chi		6.76	6.04		12.95
Het	df		2	5		8
Het	P		*	N.S.		N.S.
Fixed	RR		1.48	1.38		1.40
	RRl		1.09	1.21		1.24
	RRu		2.01	1.58		1.58
	P		+	+++		+++
Random	RR		1.71	1.39		1.44
	RRl		0.90	1.20		1.22
	RRu		3.24	1.62		1.70
	P		N.S.	+++		+++
Between	Chi					0.15
Between	df					1
Between	P					N.S.
		Highest age in RR				
		0-9	10-14	15+	unknown	Total
	N	1	5	3		9
	NS	1	5	2		8
	Wt	25.21	174.84	60.35		260.40
Het	Chi	0.00	4.62	4.90		12.95
Het	df	0	4	2		8
Het	P	N.S.	N.S.	(*)		N.S.
Fixed	RR	1.10	1.36	1.67		1.40
	RRl	0.75	1.17	1.30		1.24
	RRu	1.63	1.58	2.15		1.58
	P	N.S.	+++	+++		+++
Random	RR	1.10	1.37	1.74		1.44
	RRl	0.75	1.16	1.15		1.22
	RRu	1.63	1.62	2.63		1.70
	P	N.S.	+++	++		+++
Between	Chi					3.42
Between	df					2
Between	P					N.S.

Appendix Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
Adjusted

general Population setting
 school medical allergy other Total

RR data

	N	2	5	2		9
	NS	1	5	2		8
	Wt	50.56	165.45	44.39		260.40
Het	Chi	1.32	7.88	3.43		12.95
Het	df	1	4	1		8
Het	P	N.S.	(*)	(*)		N.S.
Fixed	RR	1.50	1.37	1.40		1.40
	RRl	1.14	1.17	1.05		1.24
	RRu	1.97	1.59	1.88		1.58
	P	++	+++	+		+++
Random	RR	1.49	1.45	1.44		1.44
	RRl	1.08	1.13	0.83		1.22
	RRu	2.05	1.85	2.50		1.70
	P	+	++	N.S.		+++
Between	Chi					0.32
Between	df					2
Between	P					N.S.

Respondent for smoking
 child parent med rec mix/oth Total

	N	6		3	9
	NS	6		2	8
	Wt	200.05		60.35	260.40
Het	Chi	5.61		4.90	12.95
Het	df	5		2	8
Het	P	N.S.		(*)	N.S.
Fixed	RR	1.33		1.67	1.40
	RRl	1.15		1.30	1.24
	RRu	1.52		2.15	1.58
	P	+++		+++	+++
Random	RR	1.33		1.74	1.44
	RRl	1.14		1.15	1.22
	RRu	1.55		2.63	1.70
	P	+++		++	+++
Between	Chi				2.43
Between	df				1
Between	P				N.S.

Child smokers
 exc/none included ignored Total

	N	3	1	5	9
	NS	2	1	5	8
	Wt	55.91	9.79	194.70	260.40
Het	Chi	1.42	0.00	5.22	12.95
Het	df	2	0	4	8
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.52	2.90	1.32	1.40
	RRl	1.17	1.55	1.14	1.24
	RRu	1.97	5.43	1.51	1.58
	P	++	+++	+++	+++
Random	RR	1.52	2.90	1.32	1.44
	RRl	1.17	1.55	1.12	1.22
	RRu	1.97	5.43	1.56	1.70
	P	++	+++	++	+++
Between	Chi				6.30
Between	df				2
Between	P				*

Appendix Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
 Adjusted

Physician diagnosis (lifetime)
 yes no/mixed Total

RR data

N	4	5	9
NS	4	4	8
Wt	81.33	179.07	260.40
Het Chi	8.40	3.67	12.95
Het df	3	4	8
Het P	*	N.S.	N.S.
Fixed RR	1.28	1.45	1.40
RRl	1.03	1.26	1.24
RRu	1.59	1.68	1.58
P	+	+++	+++
Random RR	1.45	1.45	1.44
RRl	0.96	1.26	1.22
RRu	2.19	1.68	1.70
P	(+)	+++	+++
Between Chi			0.89
Between df			1
Between P			N.S.

Respondent for diagnosis (lifetime)
 medrec parent child mixed Total

N	1	7	1	9
NS	1	6	1	8
Wt	25.21	225.40	9.79	260.40
Het Chi	0.00	6.30	0.00	12.95
Het df	0	6	0	8
Het P	N.S.	N.S.	N.S.	N.S.
Fixed RR	1.10	1.39	2.90	1.40
RRl	0.75	1.22	1.55	1.24
RRu	1.63	1.58	5.43	1.58
P	N.S.	+++	+++	+++
Random RR	1.10	1.39	2.90	1.44
RRl	0.75	1.22	1.55	1.22
RRu	1.63	1.60	5.43	1.70
P	N.S.	+++	+++	+++
Between Chi				6.65
Between df				2
Between P				*

Questionnaire for symptoms
 ISAAC ATS other Total

N		2	7	9
NS		2	6	8
Wt		109.33	151.08	260.40
Het Chi		0.33	12.52	12.95
Het df		1	6	8
Het P		N.S.	(*)	N.S.
Fixed RR		1.36	1.42	1.40
RRl		1.13	1.21	1.24
RRu		1.65	1.67	1.58
P		++	+++	+++
Random RR		1.36	1.49	1.44
RRl		1.13	1.17	1.22
RRu		1.65	1.90	1.70
P		++	++	+++
Between Chi				0.11
Between df				1
Between P				N.S.

Appendix Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
Adjusted

Analysis type
prevalence onset Total

RR data

N	8	1	9
NS	7	1	8
Wt	235.19	25.21	260.40
Het Chi	11.37	0.00	12.95
Het df	7	0	8
Het P	N.S.	N.S.	N.S.
Fixed RR	1.43	1.10	1.40
RRl	1.26	0.75	1.24
RRu	1.63	1.63	1.58
P	+++	N.S.	+++
Random RR	1.49	1.10	1.44
RRl	1.25	0.75	1.22
RRu	1.78	1.63	1.70
P	+++	N.S.	+++
Between Chi			1.59
Between df			1
Between P			N.S.

Number of cases (lifetime asthma)

		1-50	51-100	101-200	201+	unknown	Total
N	1			1	7		9
NS	1			1	6		8
Wt	5.35			25.21	229.84		260.40
Het Chi	0.00			0.00	11.17		12.95
Het df	0			0	6		8
Het P	N.S.			N.S.	(*)		N.S.
Fixed RR	1.73			1.10	1.43		1.40
RRl	0.74			0.75	1.25		1.24
RRu	4.04			1.63	1.62		1.58
P	N.S.			N.S.	+++		+++
Random RR	1.73			1.10	1.49		1.44
RRl	0.74			0.75	1.23		1.22
RRu	4.04			1.63	1.80		1.70
P	N.S.			N.S.	+++		+++
Between Chi							1.78
Between df							2
Between P							N.S.

Study adjusts for or is matched on sex

		Yes	No	Total
N	3	6	9	
NS	3	5	8	
Wt	62.37	198.03	260.40	
Het Chi	6.63	6.12	12.95	
Het df	2	5	8	
Het P	*	N.S.	N.S.	
Fixed RR	1.47	1.38	1.40	
RRl	1.15	1.20	1.24	
RRu	1.88	1.58	1.58	
P	++	+++	+++	
Random RR	1.59	1.39	1.44	
RRl	0.99	1.18	1.22	
RRu	2.56	1.64	1.70	
P	(+)	+++	+++	
Between Chi			0.20	
Between df			1	
Between P			N.S.	

Appendix Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
Adjusted

Study adjusts for or is matched on age

Yes No Total

RR data

N	3	6	9
NS	2	6	8
Wt	77.93	182.47	260.40
Het Chi	1.32	11.09	12.95
Het df	2	5	8
Het P	N.S.	*	N.S.
Fixed RR	1.50	1.36	1.40
RRl	1.20	1.17	1.24
RRu	1.87	1.57	1.58
P	+++	+++	+++
Random RR	1.50	1.45	1.44
RRl	1.20	1.13	1.22
RRu	1.87	1.85	1.70
P	+++	++	+++
Between Chi			0.53
Between df			1
Between P			N.S.

Study adjusts for or is matched on race

N	2	7	9
NS	2	6	8
Wt	15.14	245.26	260.40
Het Chi	0.92	7.22	12.95
Het df	1	6	8
Het P	N.S.	N.S.	N.S.
Fixed RR	2.42	1.35	1.40
RRl	1.46	1.19	1.24
RRu	4.00	1.53	1.58
P	+++	+++	+++
Random RR	2.42	1.36	1.44
RRl	1.46	1.18	1.22
RRu	4.00	1.56	1.70
P	+++	+++	+++
Between Chi			4.81
Between df			1
Between P			*

Study adjusts for or is matched on location

N	2	7	9
NS	2	6	8
Wt	109.33	151.08	260.40
Het Chi	0.33	12.52	12.95
Het df	1	6	8
Het P	N.S.	(*)	N.S.
Fixed RR	1.36	1.42	1.40
RRl	1.13	1.21	1.24
RRu	1.65	1.67	1.58
P	++	+++	+++
Random RR	1.36	1.49	1.44
RRl	1.13	1.17	1.22
RRu	1.65	1.90	1.70
P	++	++	+++
Between Chi			0.11
Between df			1
Between P			N.S.

Appendix Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
Adjusted

Study adjusts for or is matched on SES
 Yes No Total

RR data

N	3	6	9
NS	3	5	8
Wt	62.37	198.03	260.40
Het Chi	6.63	6.12	12.95
Het df	2	5	8
Het P	*	N.S.	N.S.
Fixed RR	1.47	1.38	1.40
RRl	1.15	1.20	1.24
RRu	1.88	1.58	1.58
P	++	+++	+++
Random RR	1.59	1.39	1.44
RRl	0.99	1.18	1.22
RRu	2.56	1.64	1.70
P	(+)	+++	+++
Between Chi			0.20
Between df			1
Between P			N.S.

Study adjusts for family medical history

N	2	7	9
NS	2	6	8
Wt	107.16	153.24	260.40
Het Chi	0.64	10.54	12.95
Het df	1	6	8
Het P	N.S.	N.S.	N.S.
Fixed RR	1.27	1.50	1.40
RRl	1.05	1.28	1.24
RRu	1.53	1.75	1.58
P	+	+++	+++
Random RR	1.27	1.56	1.44
RRl	1.05	1.25	1.22
RRu	1.53	1.94	1.70
P	+	+++	+++
Between Chi			1.77
Between df			1
Between P			N.S.

Study adjusts for family composition

N	2	7	9
NS	2	6	8
Wt	52.58	207.82	260.40
Het Chi	1.25	11.30	12.95
Het df	1	6	8
Het P	N.S.	(*)	N.S.
Fixed RR	1.29	1.43	1.40
RRl	0.99	1.24	1.24
RRu	1.70	1.63	1.58
P	(+)	+++	+++
Random RR	1.29	1.50	1.44
RRl	0.95	1.22	1.22
RRu	1.75	1.85	1.70
P	(+)	+++	+++
Between Chi			0.40
Between df			1
Between P			N.S.

Appendix Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma

Adjusted
Study adjusts for cooking, heating, air conditioning
 Yes No Total

RR data

N	1	8	9
NS	1	7	8
Wt	27.37	233.03	260.40
Het Chi	0.00	12.80	12.95
Het df	0	7	8
Het P	N.S.	(*)	N.S.
Fixed RR	1.50	1.39	1.40
RRl	1.03	1.22	1.24
RRu	2.18	1.58	1.58
P	+	+++	+++
Random RR	1.50	1.44	1.44
RRl	1.03	1.19	1.22
RRu	2.18	1.74	1.70
P	+	+++	+++
Between Chi			0.15
Between df			1
Between P			N.S.

Study adjusts for housing quality, crowding, damp, mould

N	1	8	9
NS	1	7	8
Wt	27.37	233.03	260.40
Het Chi	0.00	12.80	12.95
Het df	0	7	8
Het P	N.S.	(*)	N.S.
Fixed RR	1.50	1.39	1.40
RRl	1.03	1.22	1.24
RRu	2.18	1.58	1.58
P	+	+++	+++
Random RR	1.50	1.44	1.44
RRl	1.03	1.19	1.22
RRu	2.18	1.74	1.70
P	+	+++	+++
Between Chi			0.15
Between df			1
Between P			N.S.

Study adjusts for pets, animal contact, farming

N	1	8	9
NS	1	7	8
Wt	25.21	235.19	260.40
Het Chi	0.00	11.37	12.95
Het df	0	7	8
Het P	N.S.	N.S.	N.S.
Fixed RR	1.10	1.43	1.40
RRl	0.75	1.26	1.24
RRu	1.63	1.63	1.58
P	N.S.	+++	+++
Random RR	1.10	1.49	1.44
RRl	0.75	1.25	1.22
RRu	1.63	1.78	1.70
P	N.S.	+++	+++
Between Chi			1.59
Between df			1
Between P			N.S.

Appendix Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specificallyLifetime AsthmaAdjustedStudy adjusts for child's medical history

Yes No Total

RR data

N	5	4	9
NS	4	4	8
Wt	135.94	124.47	260.40
Het Chi	6.87	5.59	12.95
Het df	4	3	8
Het P	N.S.	N.S.	N.S.
Fixed RR	1.34	1.46	1.40
RRl	1.13	1.23	1.24
RRu	1.59	1.74	1.58
P	+++	+++	+++
Random RR	1.36	1.60	1.44
RRl	1.09	1.19	1.22
RRu	1.70	2.16	1.70
P	++	++	+++
Between Chi			0.49
Between df			1
Between P			N.S.

Study adjusts for in utero exposure

N		9	9
NS		8	8
Wt		260.40	260.40
Het Chi		12.95	12.95
Het df		8	8
Het P		N.S.	N.S.
Fixed RR		1.40	1.40
RRl		1.24	1.24
RRu		1.58	1.58
P		+++	+++
Random RR		1.44	1.44
RRl		1.22	1.22
RRu		1.70	1.70
P		+++	+++
Between Chi			
Between df			
Between P			N.S.

Study adjusts for in life exposure

N	5	4	9
NS	5	3	8
Wt	194.70	65.70	260.40
Het Chi	5.22	4.91	12.95
Het df	4	3	8
Het P	N.S.	N.S.	N.S.
Fixed RR	1.32	1.67	1.40
RRl	1.14	1.31	1.24
RRu	1.51	2.13	1.58
P	+++	+++	+++
Random RR	1.32	1.72	1.44
RRl	1.12	1.24	1.22
RRu	1.56	2.39	1.70
P	++	++	+++
Between Chi			2.82
Between df			1
Between P			(*)

Appendix Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specificallyLifetime AsthmaAdjustedExposed group : when Exposed

lif/ev age<7y current unspec other Total

RR data

N	4		4	1	9
NS	3		4	1	8
Wt	157.72		92.89	9.79	260.40
Het Chi	2.93		4.49	0.00	12.95
Het df	3		3	0	8
Het P	N.S.		N.S.	N.S.	N.S.
Fixed RR	1.34		1.40	2.90	1.40
RRl	1.14		1.14	1.55	1.24
RRu	1.56		1.71	5.43	1.58
P	+++		++	+++	+++
Random RR	1.34		1.44	2.90	1.44
RRl	1.14		1.11	1.55	1.22
RRu	1.56		1.88	5.43	1.70
P	+++		++	+++	+++
Between Chi					5.53
Between df					2
Between P					(*)

Unexposed group : who is smoker

NoHhMemb NoParent NotSpPar Total

N	9		9
NS	8		8
Wt	260.40		260.40
Het Chi	12.95		12.95
Het df	8		8
Het P	N.S.		N.S.
Fixed RR	1.40		1.40
RRl	1.24		1.24
RRu	1.58		1.58
P	+++		+++
Random RR	1.44		1.44
RRl	1.22		1.22
RRu	1.70		1.70
P	+++		+++
Between Chi			
Between df			
Between P			N.S.

Unexposed group : time

non never non+othr Total

N	8	1	9
NS	7	1	8
Wt	178.45	81.95	260.40
Het Chi	12.58	0.00	12.95
Het df	7	0	8
Het P	(*)	N.S.	N.S.
Fixed RR	1.43	1.32	1.40
RRl	1.24	1.07	1.24
RRu	1.66	1.64	1.58
P	+++	+	+++
Random RR	1.48	1.32	1.44
RRl	1.21	1.07	1.22
RRu	1.82	1.64	1.70
P	+++	+	+++
Between Chi			0.37
Between df			1
Between P			N.S.

Appendix Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma

		Adjusted					Total	
		Number of adjustment variables						
		0	1	2	3-5	6-9	10+	
RR data	N	3	4		1	1		9
	NS	3	3		1	1		8
	Wt	148.14	75.10		9.79	27.37		260.40
Het	Chi	1.14	2.24		0.00	0.00		12.95
Het	df	2	3		0	0		8
Het	P	N.S.	N.S.		N.S.	N.S.		N.S.
Fixed	RR	1.22	1.61		2.90	1.50		1.40
	RRl	1.04	1.29		1.55	1.03		1.24
	RRu	1.44	2.02		5.43	2.18		1.58
	P	+	+++		+++	+		+++
Random	RR	1.22	1.61		2.90	1.50		1.44
	RRl	1.04	1.29		1.55	1.03		1.22
	RRu	1.44	2.02		5.43	2.18		1.70
	P	+	+++		+++	+		+++
Between	Chi							9.57
Between	df							3
Between	P							*

RR adjusted for sex

		Yes	No	Total
	N	2	7	9
	NS	2	6	8
	Wt	37.16	223.24	260.40
Het	Chi	3.13	7.23	12.95
Het	df	1	6	8
Het	P	(*)	N.S.	N.S.
Fixed	RR	1.78	1.34	1.40
	RRl	1.29	1.18	1.24
	RRu	2.46	1.53	1.58
	P	+++	+++	+++
Random	RR	1.98	1.35	1.44
	RRl	1.05	1.16	1.22
	RRu	3.76	1.57	1.70
	P	+	+++	+++
Between	Chi			2.58
Between	df			1
Between	P			N.S.

RR adjusted for age

		3	6	9
	N	3	6	9
	NS	2	6	8
	Wt	77.93	182.47	260.40
Het	Chi	1.32	11.09	12.95
Het	df	2	5	8
Het	P	N.S.	*	N.S.
Fixed	RR	1.50	1.36	1.40
	RRl	1.20	1.17	1.24
	RRu	1.87	1.57	1.58
	P	+++	+++	+++
Random	RR	1.50	1.45	1.44
	RRl	1.20	1.13	1.22
	RRu	1.87	1.85	1.70
	P	+++	++	+++
Between	Chi			0.53
Between	df			1
Between	P			N.S.

Appendix Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
Adjusted

RR adjusted for other ETS
 Yes No Total

RR data

N		9	9
NS		8	8
Wt		260.40	260.40
Het Chi		12.95	12.95
Het df		8	8
Het P		N.S.	N.S.
Fixed RR		1.40	1.40
RR1		1.24	1.24
RRu		1.58	1.58
P		+++	+++
Random RR		1.44	1.44
RR1		1.22	1.22
RRu		1.70	1.70
P		+++	+++
Between Chi			
Between df			
Between P			N.S.

RR adjusted for factor other than sex, age, other ETS

N	4	5	9
NS	4	4	8
Wt	61.70	198.70	260.40
Het Chi	3.23	4.01	12.95
Het df	3	4	8
Het P	N.S.	N.S.	N.S.
Fixed RR	1.82	1.29	1.40
RR1	1.42	1.12	1.24
RRu	2.34	1.48	1.58
P	+++	+++	+++
Random RR	1.84	1.29	1.44
RR1	1.41	1.12	1.22
RRu	2.39	1.48	1.70
P	+++	+++	+++
Between Chi			5.71
Between df			1
Between P			*

Derivation of RR/CI

	Original	Numbers	SumNumbs	Other	Total
N	2	3	2	2	9
NS	2	3	2	1	8
Wt	37.16	128.28	44.39	50.56	260.40
Het Chi	3.13	1.35	3.43	1.32	12.95
Het df	1	2	1	1	8
Het P	(*)	N.S.	(*)	N.S.	N.S.
Fixed RR	1.78	1.27	1.40	1.50	1.40
RR1	1.29	1.06	1.05	1.14	1.24
RRu	2.46	1.51	1.88	1.97	1.58
P	+++	++	+	++	+++
Random RR	1.98	1.27	1.44	1.49	1.44
RR1	1.05	1.06	0.83	1.08	1.22
RRu	3.76	1.51	2.50	2.05	1.70
P	+	++	N.S.	+	+++
Between Chi					3.72
Between df					3
Between P					N.S.

Appendix Table A41 - 4

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
 Lifetime Asthma
 Unadjusted

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	UNEXsource	EXPOS-time	UNEXTI
BURCHF	4		m	0	19	all	NAmer	1962	1986	CS	1	NoParent	utero/life	non
BURCHF	7		f	0	19	all	NAmer	1962	1986	CS	1	NoParent	utero/life	non
DODGE	1	x	b	8	12	all	NAmer	1978	1982	Pr	0	NoParent	unspec	non
DOLD	3		b	9	11	all	Eu:Ger	1989	1992	CS	0	NoParent	unspec	non
FERGUS	3		b	0	6	all	Auslia	1977	1985	Pr	0	NoParent	in life	non
FORAST	3	x	b	7	11	all	Eu:Ita	1987	1992	CS	0	NoParent	unspec	non
GOREN2	4		b	7	11	all	As:ME	1982	1995	CS	0	NoParent	ever	never
HU2	15	x	b	20	22	all	NAmer	1986	1997	Pr	0	LowParnt	13-15y	non
KAY	3	x	b	3	11	all	Eu:UK	*	1995	CS	0	NoParent	unspec	non

Appendix Table A41 - 5

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
BURCHF	4	m	1	142	-	45	-	1.72	(1.20- 2.48)
BURCHF	7	f	1	76	-	35	-	1.24	(0.81- 1.89)
Subtotal BURCHF								1.50	(1.14- 1.97)
DODGE	1	b	0	11	135	12	285	1.94	(0.83- 4.50)
DOLD	3	b	0	55	616	235	2931	1.11	(0.82- 1.51)
*FERGUS	3	b	0	35	252	58	460	1.10	(0.75- 1.63)
FORAST	3	b	0	73	684	52	781	1.60	(1.11- 2.32)
GOREN2	4	b	0	148	1054	246	2317	1.32	(1.07- 1.64)
HU2	15	b	0	16	38	101	1083	4.51	(2.43- 8.38)
KAY	3	b	0	38	93	108	518	1.96	(1.27- 3.01)
Partial Totals				594	2872	892	8375		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
BURCHF	4	m	1	0.54	29.16	0.91	0.0034
BURCHF	7	f	1	0.22	21.40	0.48	0.3196
Subtotal BURCHF				0.03	50.56	1.40	
DODGE	1	b	0	0.66	5.40	0.47	0.1250
DOLD	3	b	0	0.11	40.98	2.72	0.4909
*FERGUS	3	b	0	0.10	25.21	1.82	0.6273
FORAST	3	b	0	0.47	28.03	0.32	0.0125
GOREN2	4	b	0	0.28	81.95	0.60	0.0114
HU2	15	b	0	1.51	10.04	13.09	0.0000
KAY	3	b	0	0.67	20.72	1.96	0.0022

RR data

	N	9
	NS	8
	Wt	262.89
Het	Chi	22.38
Het	df	8
Het	P	**
Fixed	RR	1.44
	RRl	1.28
	RRu	1.63
	P	+++
Random	RR	1.55
	RRl	1.24
	RRu	1.92
	P	+++
Asymm	P	N.S.

Appendix Table A41 - 6

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
 Lifetime Asthma
 Unadjusted

RR data

	N	9						
	NS	8						
	Wt	262.89						
	Het Chi	22.38						
	Het df	8						
	Het P	**						
Fixed	RR	1.44						
	RR1	1.28						
	RRu	1.63						
	P	+++						
Random	RR	1.55						
	RR1	1.24						
	RRu	1.92						
	P	+++						
Asymm	P	N.S.						
			<u>Sex</u>					
		both	male	female		Total		
	N	7	1	1		9		
	NS	7	1	1		8		
	Wt	212.33	29.16	21.40		262.89		
	Het Chi	20.96	0.00	0.00		22.38		
	Het df	6	0	0		8		
	Het P	**	N.S.	N.S.		**		
Fixed	RR	1.43	1.72	1.24		1.44		
	RR1	1.25	1.20	0.81		1.28		
	RRu	1.63	2.47	1.89		1.63		
	P	+++	++	N.S.		+++		
Random	RR	1.59	1.72	1.24		1.55		
	RR1	1.21	1.20	0.81		1.24		
	RRu	2.10	2.47	1.89		1.92		
	P	++	++	N.S.		+++		
Between	Chi					1.41		
Between	df					2		
Between	P					N.S.		
							<u>Continent</u>	
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	4		3	1	1		9
	NS	3		3	1	1		8
	Wt	66.00		89.74	81.95	25.21		262.89
	Het Chi	11.55		4.98	0.00	0.00		22.38
	Het df	3		2	0	0		8
	Het P	**		(*)	N.S.	N.S.		**
Fixed	RR	1.81		1.42	1.32	1.10		1.44
	RR1	1.42		1.16	1.07	0.75		1.28
	RRu	2.30		1.75	1.64	1.63		1.63
	P	+++		+++	+	N.S.		+++
Random	RR	2.01		1.48	1.32	1.10		1.55
	RR1	1.20		1.06	1.07	0.75		1.24
	RRu	3.35		2.07	1.64	1.63		1.92
	P	++		+	+	N.S.		+++
Between	Chi							5.85
Between	df							3
Between	P							N.S.

Appendix Table A41 - 6

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically

Lifetime Asthma

Unadjusted

	Start year of study				Total
	<1970	1970-79	1980-89	1990+	

RR data

		<1970	1970-79	1980-89	1990+	unknown	Total
	N	2	2	4		1	9
	NS	1	2	4		1	8
	Wt	50.56	30.61	161.00		20.72	262.89
Het	Chi	1.32	1.41	16.67		0.00	22.38
Het	df	1	1	3		0	8
Het	P	N.S.	N.S.	***		N.S.	**
Fixed	RR	1.50	1.22	1.41		1.96	1.44
	RRl	1.14	0.85	1.21		1.27	1.28
	RRu	1.97	1.73	1.65		3.01	1.63
	P	++	N.S.	+++		++	+++
Random	RR	1.49	1.28	1.66		1.96	1.55
	RRl	1.08	0.79	1.11		1.27	1.24
	RRu	2.05	2.10	2.48		3.01	1.92
	P	+	N.S.	+		++	+++
Between	Chi						2.97
Between	df						3
Between	P						N.S.

	Study type			Total
	CC	Pr	CS	

		CC	Pr	CS	Total
	N		3	6	9
	NS		3	5	8
	Wt		40.64	222.25	262.89
Het	Chi		14.41	6.82	22.38
Het	df		2	5	8
Het	P		***	N.S.	**
Fixed	RR		1.68	1.40	1.44
	RRl		1.24	1.23	1.28
	RRu		2.29	1.60	1.63
	P		+++	+++	+++
Random	RR		2.09	1.42	1.55
	RRl		0.83	1.21	1.24
	RRu		5.28	1.66	1.92
	P		N.S.	+++	+++
Between	Chi				1.15
Between	df				1
Between	P				N.S.

Appendix Table A41 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURR	BUTZ	CHEN1	CHEN2	CUNNI2
	DEBENE	DELL	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FIELDE	FLYNN1	FLYNN2	GILLIL	GOLD	GOREN1	GOREN3	GOREN4
	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	HU1	JENKIN	KALYO1	KAPLAN	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KUEHR
	KUHR	LAM1	LAM2	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY
	NHANE3	NILSSO	NYSTAD	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK
	SANZOR	SCHENK	SELCUK	SENNHA	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN2	TAYLOR	TIMONE	TSIMOY	ULRIK
	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WEITZ1	WITHER	WOLFO1	WOLFO2	WOLFO3	XU	ZEIGER	ZEJDA		
5	SHAMSS															

Appendix Table A41 - 8

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
SHAMSS	4	b	6	7	all	Eu:UK	*	1999	CS	0	NoParent	unspec	non	1.55	?

Appendix Table A42 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Parental exposure (both parents)
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 7) UNEXSO : none in household, neither parent
- 8) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 9) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 10) RACE : all in study or nearest available, otherwise by race
- 11) ONSET : yes, no (prevalence)
- 12) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A41 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A42 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
 Lifetime Asthma
 Adjusted

REF	NRR	CompA41	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	UNEXsource	EXPOS-time	UNEXTI
BURCHF	4		m	0	19	all	NAmer	1962	1986	CS	1	NoParent	utero/life	non
BURCHF	7		f	0	19	all	NAmer	1962	1986	CS	1	NoParent	utero/life	non
DODGE	4		b	8	12	all	NAmer	1978	1982	Pr	1	NoParent	unspec	non
DOLD	3		b	9	11	all	Eu:Ger	1989	1992	CS	0	NoParent	unspec	non
FERGUS	3		b	0	6	all	Auslia	1977	1985	Pr	0	NoParent	in life	non
FORAST	16		b	7	11	all	Eu:Ita	1987	1992	CS	9	NoParent	unspec	non
GOREN2	4		b	7	11	all	As:ME	1982	1995	CS	0	NoParent	ever	never
HU2	19		b	20	22	all	NAmer	1986	1997	Pr	3	LowParnt	13-15y	non
KAY	16		b	3	11	all	Eu:UK	*	1995	CS	1	NoParent	unspec	non

Appendix Table A42 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
BURCHF	4	m	1	142	-	45	-	1.72	(1.20- 2.48)
BURCHF	7	f	1	76	-	35	-	1.24	(0.81- 1.89)
Subtotal BURCHF								1.50	(1.14- 1.97)
DODGE	4	b	1	11	-	12	-	1.73	(0.74- 4.03)
DOLD	3	b	0	55	616	235	2931	1.11	(0.82- 1.51)
*FERGUS	3	b	0	35	252	58	460	1.10	(0.75- 1.63)
FORAST	16	b	9	73	-	52	-	1.50	(1.04- 2.20)
GOREN2	4	b	0	148	1054	246	2317	1.32	(1.07- 1.64)
HU2	19	b	3	16	-	101	-	2.90	(1.60- 5.60)
KAY	16	b	1	38	-	108	-	1.93	(1.23- 3.01)
Partial Totals				594	1922	892	5708		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
BURCHF	4	m	1	0.54	29.16	1.25	0.0034
BURCHF	7	f	1	0.22	21.40	0.31	0.3196
Subtotal BURCHF				0.09	50.56	1.56	
DODGE	4	b	1	0.55	5.35	0.24	0.2049
DOLD	3	b	0	0.11	40.98	2.12	0.4909
*FERGUS	3	b	0	0.10	25.21	1.43	0.6273
FORAST	16	b	9	0.41	27.37	0.14	0.0339
GOREN2	4	b	0	0.28	81.95	0.25	0.0114
HU2	19	b	3	1.06	9.79	5.21	0.0009
KAY	16	b	1	0.66	19.19	2.00	0.0040

RR data

	N	9
	NS	8
	Wt	260.40
Het	Chi	12.95
Het	df	8
Het	P	N.S.
Fixed	RR	1.40
	RRl	1.24
	RRu	1.58
	P	+++
Random	RR	1.44
	RRl	1.22
	RRu	1.70
	P	+++
Asymm	P	N.S.

Appendix Table A42 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
 Lifetime Asthma
 Adjusted

RR data

	N	9			
	NS	8			
	Wt	260.40			
Het	Chi	12.95			
Het	df	8			
Het	P	N.S.			
Fixed	RR	1.40			
	RRl	1.24			
	RRu	1.58			
	P	+++			
Random	RR	1.44			
	RRl	1.22			
	RRu	1.70			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	7	1	1	9
	NS	7	1	1	8
	Wt	209.84	29.16	21.40	260.40
Het	Chi	11.33	0.00	0.00	12.95
Het	df	6	0	0	8
Het	P	(*)	N.S.	N.S.	N.S.
Fixed	RR	1.38	1.72	1.24	1.40
	RRl	1.20	1.20	0.81	1.24
	RRu	1.57	2.47	1.89	1.58
	P	+++	++	N.S.	+++
Random	RR	1.44	1.72	1.24	1.44
	RRl	1.17	1.20	0.81	1.22
	RRu	1.77	2.47	1.89	1.70
	P	+++	++	N.S.	+++
Between	Chi				1.62
Between	df				2
Between	P				N.S.

Appendix Table A42 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURR	BUTZ	CHEN1	CHEN2	CUNNI2
	DEBENE	DELL	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FIELDE	FLYNN1	FLYNN2	GILLIL	GOLD	GOREN1	GOREN3	GOREN4
	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	HU1	JENKIN	KALYO1	KAPLAN	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KUEHR
	KUHR	LAM1	LAM2	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY
	NHANE3	NILSSO	NYSTAD	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK
	SANZOR	SCHENK	SELCUK	SENNHA	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN2	TAYLOR	TIMONE	TSIMOY	ULRIK
	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WEITZ1	WITHER	WOLFO1	WOLFO2	WOLFO3	XU	ZEIGER	ZEJDA		
5	SHAMSS															

Appendix Table A42 - 8

Adjusted - insufficient data for metaanalysis

REF NRR SEX AGE AGEH RACE	LOC BEGYR PUBYR STTYP ADJ UNEXsource	EXPOS-time UNEXTI	RR SIG
SHAMSS 4 b 6 7 all	Eu:UK * 1999 CS 0 NoParent	unspec non	1.55 ?

Appendix Table A43 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Parental exposure (both parents)
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 7) UNEXSO : neither parent, none in household
- 8) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 9) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 10) RACE : all in study or nearest available, otherwise by race
- 11) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A43 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
 Current Asthma
 Adjusted

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	UNEXsource	EXPOS-time	UNEXTI
AGABI1	10	b	6	7	all	Eu:Ita	1994	1999	CC	11	NoParent	current	never
AGABI2	10	b	13	14	all	Eu:Ita	1994	1999	CC	12	NoParent	current	never
ARSHAD	2	b	1	1	all	Eu:UK	1990	1992	Pr	7	NoParent	utero/life	non
GILLIL	38	b	7	19	all	NAmer	1993	2001	CS	8	NoHhMemb	current	non
HU2	20	b	20	22	all	NAmer	1986	1997	Pr	3	LowParnt	13-15y	non
WILLE1	4	b	3	15	all	Eu:Sca	1988	1991	CC	0	NoParent	current	non

Appendix Table A43 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Cont	Case	Cont			
AGABI1	10	b	11	221	-	148	-	1.35	(1.09-	1.69)
AGABI2	10	b	12	281	-	203	-	1.29	(1.06-	1.56)
ARSHAD	2	b	7	-	-	-	-	11.00	(2.50-	48.20)
GILLIL	38	b	8	-	-	-	-	1.40	(0.90-	2.30)
HU2	20	b	3	13	-	84	-	3.30	(1.70-	6.40)
WILLE1	4	b	0	14	18	12	30	1.94	(0.74-	5.12)
Partial Totals				529	18	447	30			

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	10	b	11	0.30	79.89	0.14	0.0073
AGABI2	10	b	12	0.25	102.91	0.78	0.0098
ARSHAD	2	b	7	2.40	1.75	7.42	0.0015
GILLIL	38	b	8	0.34	17.45	0.00	0.1598
HU2	20	b	3	1.19	8.74	6.35	0.0004
WILLE1	4	b	0	0.66	4.10	0.43	0.1779

RR data

	N	6
	NS	6
	Wt	214.86
	Het Chi	15.12
	Het df	5
	Het P	**
Fixed	RR	1.41
	RRl	1.23
	RRu	1.61
	P	+++
Random	RR	1.68
	RRl	1.23
	RRu	2.28
	P	+++
Asymm	P	*

Appendix Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically

		Current Asthma						
		Adjusted						
		Country in Europe						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
RR data	N	1	2		1			4
	NS	1	2		1			4
	Wt	1.75	182.80		4.10			188.66
	Het Chi	0.00	0.09		0.00			8.48
	Het df	0	1		0			3
	Het P	N.S.	N.S.		N.S.			*
	Fixed RR	11.00	1.32		1.94			1.35
	RRl	2.51	1.14		0.74			1.17
	RRu	48.30	1.52		5.12			1.56
	P	++	+++		N.S.			+++
	Random RR	11.00	1.32		1.94			1.51
	RRl	2.51	1.14		0.74			1.08
	RRu	48.30	1.52		5.12			2.10
	P	++	+++		N.S.			+
	Between Chi							8.39
	Between df							2
	Between P							*
		Country in Asia						
		FarEast	Cent/SE	MidlEast			Total	
	N							
	NS							
	Wt							
	Het Chi							
	Het df							
	Het P						N.S.	
	Fixed RR							
	RRl							
	RRu							
	P						N.S.	
	Random RR							
	RRl							
	RRu							
	P						N.S.	
	Between Chi							
	Between df							
	Between P						N.S.	
		Start year of study						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N			2	4		6	
	NS			2	4		6	
	Wt			12.85	202.01		214.86	
	Het Chi			0.78	7.96		15.12	
	Het df			1	3		5	
	Het P			N.S.	*		**	
	Fixed RR			2.79	1.35		1.41	
	RRl			1.61	1.17		1.23	
	RRu			4.82	1.55		1.61	
	P			+++	+++		+++	
	Random RR			2.79	1.43		1.68	
	RRl			1.61	1.08		1.23	
	RRu			4.82	1.90		2.28	
	P			+++	+		+++	
	Between Chi						6.38	
	Between df						1	
	Between P						*	

Appendix Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically

		Current Asthma Adjusted				
		Publication year			2000+	Total
		<1990	1990-94	1995-99		
RR data	N		2	3	1	6
	NS		2	3	1	6
	Wt	5.86	191.54		17.45	214.86
Het	Chi	3.69	7.15		0.00	15.12
Het	df	1	2		0	5
Het	P	(*)	*		N.S.	**
Fixed	RR	3.27	1.37		1.40	1.41
	RRl	1.45	1.19		0.88	1.23
	RRu	7.34	1.58		2.24	1.61
	P	++	+++		N.S.	+++
Random	RR	4.21	1.52		1.40	1.68
	RRl	0.78	1.11		0.88	1.23
	RRu	22.77	2.09		2.24	2.28
	P	(+)	++		N.S.	+++
Between	Chi					4.28
Between	df					2
Between	P					N.S.
		Study type				
		CC	Pr	CS	Total	
	N	3	2	1	6	
	NS	3	2	1	6	
	Wt	186.91	10.50	17.45	214.86	
Het	Chi	0.70	2.12	0.00	15.12	
Het	df	2	1	0	5	
Het	P	N.S.	N.S.	N.S.	**	
Fixed	RR	1.33	4.04	1.40	1.41	
	RRl	1.15	2.20	0.88	1.23	
	RRu	1.53	7.39	2.24	1.61	
	P	+++	+++	N.S.	+++	
Random	RR	1.33	4.99	1.40	1.68	
	RRl	1.15	1.63	0.88	1.23	
	RRu	1.53	15.28	2.24	2.28	
	P	+++	++	N.S.	+++	
Between	Chi				12.29	
Between	df				2	
Between	P				**	
		Highest age in RR				
		0-9	10-14	15+	unknown	Total
	N	2	1	3		6
	NS	2	1	3		6
	Wt	81.65	102.91	30.30		214.86
Het	Chi	7.56	0.00	4.29		15.12
Het	df	1	0	2		5
Het	P	**	N.S.	N.S.		**
Fixed	RR	1.41	1.29	1.87		1.41
	RRl	1.14	1.06	1.31		1.23
	RRu	1.75	1.56	2.68		1.61
	P	++	++	+++		+++
Random	RR	3.37	1.29	2.01		1.68
	RRl	0.44	1.06	1.14		1.23
	RRu	25.93	1.56	3.55		2.28
	P	N.S.	++	+		+++
Between	Chi					3.27
Between	df					2
Between	P					N.S.

Appendix Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically

		Current Asthma					
		Adjusted					
		Population setting					
		general	school	medical	allergy	other	Total
RR data	N		4	1	1		6
	NS		4	1	1		6
	Wt	209.00	4.10	1.75			214.86
	Het Chi	7.15	0.00	0.00			15.12
	Het df	3	0	0			5
	Het P	(*)	N.S.	N.S.			**
	Fixed RR	1.37	1.94	11.00			1.41
	RRl	1.20	0.74	2.51			1.23
	RRu	1.57	5.12	48.30			1.61
	P	+++	N.S.	++			+++
	Random RR	1.47	1.94	11.00			1.68
	RRl	1.15	0.74	2.51			1.23
	RRu	1.88	5.12	48.30			2.28
	P	++	N.S.	++			+++
	Between Chi						7.96
	Between df						2
	Between P						*
		<u>Respondent for smoking</u>					
		child	parent	med rec	mix/oth		Total
	N		4		2		6
	NS		4		2		6
	Wt	188.66			26.20		214.86
	Het Chi	8.48			4.28		15.12
	Het df	3			1		5
	Het P	*			*		**
	Fixed RR	1.35			1.86		1.41
	RRl	1.17			1.27		1.23
	RRu	1.56			2.73		1.61
	P	+++			++		+++
	Random RR	1.51			2.08		1.68
	RRl	1.08			0.90		1.23
	RRu	2.10			4.81		2.28
	P	+			(+)		+++
	Between Chi						2.35
	Between df						1
	Between P						N.S.
		<u>Child smokers</u>					
		exc/none	included	ignored			Total
	N	2	2	2			6
	NS	2	2	2			6
	Wt	97.35	111.65	5.86			214.86
	Het Chi	0.02	7.11	3.69			15.12
	Het df	1	1	1			5
	Het P	N.S.	**	(*)			**
	Fixed RR	1.36	1.39	3.27			1.41
	RRl	1.11	1.15	1.45			1.23
	RRu	1.66	1.67	7.34			1.61
	P	++	+++	++			+++
	Random RR	1.36	1.95	4.21			1.68
	RRl	1.11	0.78	0.78			1.23
	RRu	1.66	4.87	22.77			2.28
	P	++	N.S.	(+)			+++
	Between Chi						4.30
	Between df						2
	Between P						N.S.

Appendix Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Current Asthma
Adjusted

Physician diagnosis (current)
 yes no/mix Total

RR data

N	2	4	6
NS	2	4	6
Wt	5.86	209.00	214.86
Het Chi	3.69	7.15	15.12
Het df	1	3	5
Het P	(*)	(*)	**
Fixed RR	3.27	1.37	1.41
RRl	1.45	1.20	1.23
RRu	7.34	1.57	1.61
P	++	+++	+++
Random RR	4.21	1.47	1.68
RRl	0.78	1.15	1.23
RRu	22.77	1.88	2.28
P	(+)	++	+++
Between Chi			4.27
Between df			1
Between P			*

Respondent for diagnosis (current)
 medrec parent child mixed Total

N	2	3	1	6
NS	2	3	1	6
Wt	5.86	200.26	8.74	214.86
Het Chi	3.69	0.15	0.00	15.12
Het df	1	2	0	5
Het P	(*)	N.S.	N.S.	**
Fixed RR	3.27	1.32	3.30	1.41
RRl	1.45	1.15	1.70	1.23
RRu	7.34	1.52	6.40	1.61
P	++	+++	+++	+++
Random RR	4.21	1.32	3.30	1.68
RRl	0.78	1.15	1.70	1.23
RRu	22.77	1.52	6.40	2.28
P	(+)	+++	+++	+++
Between Chi				11.27
Between df				2
Between P				**

Questionnaire for symptoms
 ISAAC ATS other Total

N	2		4	6
NS	2		4	6
Wt	182.80		32.06	214.86
Het Chi	0.09		9.48	15.12
Het df	1		3	5
Het P	N.S.		*	**
Fixed RR	1.32		2.07	1.41
RRl	1.14		1.46	1.23
RRu	1.52		2.92	1.61
P	+++		+++	+++
Random RR	1.32		2.61	1.68
RRl	1.14		1.29	1.23
RRu	1.52		5.30	2.28
P	+++		++	+++
Between Chi				5.54
Between df				1
Between P				*

Appendix Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically

Current Asthma
Adjusted
Number of cases (current asthma)
1-50 51-100 101-200 201+ unknown Total

RR data

N	2		1	3		6
NS	2		1	3		6
Wt	5.86		8.74	200.26		214.86
Het Chi	3.69		0.00	0.15		15.12
Het df	1		0	2		5
Het P	(*)		N.S.	N.S.		**
Fixed RR	3.27		3.30	1.32		1.41
RR1	1.45		1.70	1.15		1.23
RRu	7.34		6.40	1.52		1.61
P	++		+++	+++		+++
Random RR	4.21		3.30	1.32		1.68
RR1	0.78		1.70	1.15		1.23
RRu	22.77		6.40	1.52		2.28
P	(+)		+++	+++		+++
Between Chi						11.27
Between df						2
Between P						**

Study adjusts for or is matched on sex

	Yes	No	Total
N	5	1	6
NS	5	1	6
Wt	210.75	4.10	214.86
Het Chi	14.68	0.00	15.12
Het df	4	0	5
Het P	**	N.S.	**
Fixed RR	1.40	1.94	1.41
RR1	1.22	0.74	1.23
RRu	1.60	5.12	1.61
P	+++	N.S.	+++
Random RR	1.67	1.94	1.68
RR1	1.20	0.74	1.23
RRu	2.33	5.12	2.28
P	++	N.S.	+++
Between Chi			0.44
Between df			1
Between P			N.S.

Study adjusts for or is matched on age

N	3	3	6
NS	3	3	6
Wt	200.26	14.60	214.86
Het Chi	0.15	3.69	15.12
Het df	2	2	5
Het P	N.S.	N.S.	**
Fixed RR	1.32	3.29	1.41
RR1	1.15	1.97	1.23
RRu	1.52	5.49	1.61
P	+++	+++	+++
Random RR	1.32	3.50	1.68
RR1	1.15	1.63	1.23
RRu	1.52	7.52	2.28
P	+++	++	+++
Between Chi			11.27
Between df			1
Between P			***

Appendix Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
 Current Asthma
 Adjusted

Study adjusts for or is matched on race

Yes No Total

RR data

N	2	4	6
NS	2	4	6
Wt	26.20	188.66	214.86
Het Chi	4.28	8.48	15.12
Het df	1	3	5
Het P	*	*	**
Fixed RR	1.86	1.35	1.41
RRl	1.27	1.17	1.23
RRu	2.73	1.56	1.61
P	++	+++	+++
Random RR	2.08	1.51	1.68
RRl	0.90	1.08	1.23
RRu	4.81	2.10	2.28
P	(+)	+	+++
Between Chi			2.35
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	3	3	6
NS	3	3	6
Wt	200.26	14.60	214.86
Het Chi	0.15	3.69	15.12
Het df	2	2	5
Het P	N.S.	N.S.	**
Fixed RR	1.32	3.29	1.41
RRl	1.15	1.97	1.23
RRu	1.52	5.49	1.61
P	+++	+++	+++
Random RR	1.32	3.50	1.68
RRl	1.15	1.63	1.23
RRu	1.52	7.52	2.28
P	+++	++	+++
Between Chi			11.27
Between df			1
Between P			***

Study adjusts for or is matched on SES

N	4	2	6
NS	4	2	6
Wt	193.30	21.56	214.86
Het Chi	14.68	0.36	15.12
Het df	3	1	5
Het P	**	N.S.	**
Fixed RR	1.40	1.49	1.41
RRl	1.21	0.98	1.23
RRu	1.61	2.27	1.61
P	+++	(+)	+++
Random RR	1.82	1.49	1.68
RRl	1.20	0.98	1.23
RRu	2.76	2.27	2.28
P	++	(+)	+++
Between Chi			0.08
Between df			1
Between P			N.S.

Appendix Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically

Current Asthma

Adjusted

Study adjusts for family medical history

Yes No Total

RR data

N	4	2	6
NS	4	2	6
Wt	202.01	12.85	214.86
Het Chi	7.96	0.78	15.12
Het df	3	1	5
Het P	*	N.S.	**
Fixed RR	1.35	2.79	1.41
RRl	1.17	1.61	1.23
RRu	1.55	4.82	1.61
P	+++	+++	+++
Random RR	1.43	2.79	1.68
RRl	1.08	1.61	1.23
RRu	1.90	4.82	2.28
P	+	+++	+++
Between Chi			6.38
Between df			1
Between P			*

Study adjusts for family composition

N		6	6
NS		6	6
Wt		214.86	214.86
Het Chi		15.12	15.12
Het df		5	5
Het P		**	**
Fixed RR		1.41	1.41
RRl		1.23	1.23
RRu		1.61	1.61
P		+++	+++
Random RR		1.68	1.68
RRl		1.23	1.23
RRu		2.28	2.28
P		+++	+++
Between Chi			
Between df			
Between P			N.S.

Study adjusts for cooking, heating, air conditioning

N	2	4	6
NS	2	4	6
Wt	182.80	32.06	214.86
Het Chi	0.09	9.48	15.12
Het df	1	3	5
Het P	N.S.	*	**
Fixed RR	1.32	2.07	1.41
RRl	1.14	1.46	1.23
RRu	1.52	2.92	1.61
P	+++	+++	+++
Random RR	1.32	2.61	1.68
RRl	1.14	1.29	1.23
RRu	1.52	5.30	2.28
P	+++	++	+++
Between Chi			5.54
Between df			1
Between P			*

Appendix Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Current Asthma

Adjusted
Study adjusts for housing quality, crowding, damp, mould
 Yes No Total

RR data

N	2	4	6
NS	2	4	6
Wt	182.80	32.06	214.86
Het Chi	0.09	9.48	15.12
Het df	1	3	5
Het P	N.S.	*	**
Fixed RR	1.32	2.07	1.41
RRl	1.14	1.46	1.23
RRu	1.52	2.92	1.61
P	+++	+++	+++
Random RR	1.32	2.61	1.68
RRl	1.14	1.29	1.23
RRu	1.52	5.30	2.28
P	+++	++	+++
Between Chi			5.54
Between df			1
Between P			*

Study adjusts for pets, animal contact, farming

N	1	5	6
NS	1	5	6
Wt	1.75	213.10	214.86
Het Chi	0.00	7.64	15.12
Het df	0	4	5
Het P	N.S.	N.S.	**
Fixed RR	11.00	1.38	1.41
RRl	2.51	1.21	1.23
RRu	48.30	1.58	1.61
P	++	+++	+++
Random RR	11.00	1.48	1.68
RRl	2.51	1.18	1.23
RRu	48.30	1.86	2.28
P	++	+++	+++
Between Chi			7.48
Between df			1
Between P			**

Study adjusts for child's medical history

N	2	4	6
NS	2	4	6
Wt	19.21	195.65	214.86
Het Chi	6.78	7.63	15.12
Het df	1	3	5
Het P	**	(*)	**
Fixed RR	1.69	1.38	1.41
RRl	1.08	1.20	1.23
RRu	2.64	1.59	1.61
P	+	+++	+++
Random RR	3.47	1.54	1.68
RRl	0.47	1.15	1.23
RRu	25.75	2.05	2.28
P	N.S.	++	+++
Between Chi			0.71
Between df			1
Between P			N.S.

Appendix Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Current Asthma
Adjusted

Study adjusts for in utero exposure

Yes No Total

RR data

N	3	3	6
NS	3	3	6
Wt	200.26	14.60	214.86
Het Chi	0.15	3.69	15.12
Het df	2	2	5
Het P	N.S.	N.S.	**
Fixed RR	1.32	3.29	1.41
RRl	1.15	1.97	1.23
RRu	1.52	5.49	1.61
P	+++	+++	+++
Random RR	1.32	3.50	1.68
RRl	1.15	1.63	1.23
RRu	1.52	7.52	2.28
P	+++	++	+++
Between Chi			11.27
Between df			1
Between P			***

Study adjusts for in life exposure

N	5	1	6
NS	5	1	6
Wt	206.11	8.74	214.86
Het Chi	8.50	0.00	15.12
Het df	4	0	5
Het P	(*)	N.S.	**
Fixed RR	1.36	3.30	1.41
RRl	1.18	1.70	1.23
RRu	1.56	6.40	1.61
P	+++	+++	+++
Random RR	1.45	3.30	1.68
RRl	1.12	1.70	1.23
RRu	1.88	6.40	2.28
P	++	+++	+++
Between Chi			6.62
Between df			1
Between P			*

Exposed group : when Exposed

lif/ev age<7y current unspec other Total

N	1		4		1	6
NS	1		4		1	6
Wt	1.75		204.36		8.74	214.86
Het Chi	0.00		0.75		0.00	15.12
Het df	0		3		0	5
Het P	N.S.		N.S.		N.S.	**
Fixed RR	11.00		1.33		3.30	1.41
RRl	2.51		1.16		1.70	1.23
RRu	48.30		1.53		6.40	1.61
P	++		+++		+++	+++
Random RR	11.00		1.33		3.30	1.68
RRl	2.51		1.16		1.70	1.23
RRu	48.30		1.53		6.40	2.28
P	++		+++		+++	+++
Between Chi						14.37
Between df						2
Between P						***

Appendix Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Current Asthma

Adjusted
Unexposed group : who is smoker
 NoHhMemb NoParent NotSpPar Total

RR data

N	1	5	6
NS	1	5	6
Wt	17.45	197.40	214.86
Het Chi	0.00	15.12	15.12
Het df	0	4	5
Het P	N.S.	**	**
Fixed RR	1.40	1.41	1.41
RRl	0.88	1.22	1.23
RRu	2.24	1.62	1.61
P	N.S.	+++	+++
Random RR	1.40	1.81	1.68
RRl	0.88	1.24	1.23
RRu	2.24	2.64	2.28
P	N.S.	++	+++
Between Chi			0.00
Between df			1
Between P			N.S.

Unexposed group : time
 non never non+othr Total

N	4	2	6
NS	4	2	6
Wt	32.06	182.80	214.86
Het Chi	9.48	0.09	15.12
Het df	3	1	5
Het P	*	N.S.	**
Fixed RR	2.07	1.32	1.41
RRl	1.46	1.14	1.23
RRu	2.92	1.52	1.61
P	+++	+++	+++
Random RR	2.61	1.32	1.68
RRl	1.29	1.14	1.23
RRu	5.30	1.52	2.28
P	++	+++	+++
Between Chi			5.54
Between df			1
Between P			*

Number of adjustment variables
 0 1 2 3-5 6-9 10+ Total

N	1		1	2	2	6
NS	1		1	2	2	6
Wt	4.10		8.74	19.21	182.80	214.86
Het Chi	0.00		0.00	6.78	0.09	15.12
Het df	0		0	1	1	5
Het P	N.S.		N.S.	**	N.S.	**
Fixed RR	1.94		3.30	1.69	1.32	1.41
RRl	0.74		1.70	1.08	1.14	1.23
RRu	5.12		6.40	2.64	1.52	1.61
P	N.S.		+++	+	+++	+++
Random RR	1.94		3.30	3.47	1.32	1.68
RRl	0.74		1.70	0.47	1.14	1.23
RRu	5.12		6.40	25.75	1.52	2.28
P	N.S.		+++	N.S.	+++	+++
Between Chi						8.25
Between df						3
Between P						*

Appendix Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Current Asthma
Adjusted

RR adjusted for sex
 Yes No Total

RR data

N	5	1	6
NS	5	1	6
Wt	210.75	4.10	214.86
Het Chi	14.68	0.00	15.12
Het df	4	0	5
Het P	**	N.S.	**
Fixed RR	1.40	1.94	1.41
RRl	1.22	0.74	1.23
RRu	1.60	5.12	1.61
P	+++	N.S.	+++
Random RR	1.67	1.94	1.68
RRl	1.20	0.74	1.23
RRu	2.33	5.12	2.28
P	++	N.S.	+++
Between Chi			0.44
Between df			1
Between P			N.S.

RR adjusted for age

N	3	3	6
NS	3	3	6
Wt	200.26	14.60	214.86
Het Chi	0.15	3.69	15.12
Het df	2	2	5
Het P	N.S.	N.S.	**
Fixed RR	1.32	3.29	1.41
RRl	1.15	1.97	1.23
RRu	1.52	5.49	1.61
P	+++	+++	+++
Random RR	1.32	3.50	1.68
RRl	1.15	1.63	1.23
RRu	1.52	7.52	2.28
P	+++	++	+++
Between Chi			11.27
Between df			1
Between P			***

RR adjusted for other ETS

N	2	4	6
NS	2	4	6
Wt	182.80	32.06	214.86
Het Chi	0.09	9.48	15.12
Het df	1	3	5
Het P	N.S.	*	**
Fixed RR	1.32	2.07	1.41
RRl	1.14	1.46	1.23
RRu	1.52	2.92	1.61
P	+++	+++	+++
Random RR	1.32	2.61	1.68
RRl	1.14	1.29	1.23
RRu	1.52	5.30	2.28
P	+++	++	+++
Between Chi			5.54
Between df			1
Between P			*

Appendix Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically

Current Asthma

Adjusted

RR adjusted for factor other than sex, age, other ETS

Yes No Total

RR data

	N	5	1	6
NS	5	1	6	
Wt	210.75	4.10	214.86	
Het Chi	14.68	0.00	15.12	
Het df	4	0	5	
Het P	**	N.S.	**	
Fixed RR	1.40	1.94	1.41	
RRl	1.22	0.74	1.23	
RRu	1.60	5.12	1.61	
P	+++	N.S.	+++	
Random RR	1.67	1.94	1.68	
RRl	1.20	0.74	1.23	
RRu	2.33	5.12	2.28	
P	++	N.S.	+++	
Between Chi			0.44	
Between df			1	
Between P			N.S.	
	Original	<u>Derivation of RR/CI</u>		Total
		Numbers	SumNumbs	Other
N	5	1		6
NS	5	1		6
Wt	210.75	4.10		214.86
Het Chi	14.68	0.00		15.12
Het df	4	0		5
Het P	**	N.S.		**
Fixed RR	1.40	1.94		1.41
RRl	1.22	0.74		1.23
RRu	1.60	5.12		1.61
P	+++	N.S.		+++
Random RR	1.67	1.94		1.68
RRl	1.20	0.74		1.23
RRu	2.33	5.12		2.28
P	++	N.S.		+++
Between Chi				0.44
Between df				1
Between P				N.S.

Appendix Table A43 - 4

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
 Current Asthma
 Unadjusted

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	UNEXsource	EXPOS-time	UNEXTI
AGABI1	3	x	b	6	7	all	Eu:Ita	1994	1999	CC	0	NoParent	current	never
AGABI2	3	x	b	13	14	all	Eu:Ita	1994	1999	CC	0	NoParent	current	never
ARSHAD	2		b	1	1	all	Eu:UK	1990	1992	Pr	7	NoParent	utero/life	non
GILLIL	38		b	7	19	all	NAmer	1993	2001	CS	8	NoHhMemb	current	non
HU2	16	x	b	20	22	all	NAmer	1986	1997	Pr	0	LowParnt	13-15y	non
WILLE1	4		b	3	15	all	Eu:Sca	1988	1991	CC	0	NoParent	current	non

Appendix Table A43 - 5

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
 Current Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Cont	Case	Cont			
AGABI1	3	b	0	221	3165	148	2825	1.33	(1.08-	1.65)
AGABI2	3	b	0	281	2817	203	2837	1.39	(1.16-	1.68)
ARSHAD	2	b	7	-	-	-	-	11.00	(2.50-	48.20)
GILLIL	38	b	8	-	-	-	-	1.40	(0.90-	2.30)
HU2	16	b	0	13	41	84	1100	4.15	(2.14-	8.05)
WILLE1	4	b	0	14	18	12	30	1.94	(0.74-	5.12)
Partial Totals				529	6041	447	6792			

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	3	b	0	0.29	83.67	0.73	0.0086
AGABI2	3	b	0	0.33	108.79	0.25	0.0005
ARSHAD	2	b	7	2.40	1.75	7.14	0.0015
GILLIL	38	b	8	0.34	17.45	0.03	0.1598
HU2	16	b	0	1.42	8.76	9.53	0.0000
WILLE1	4	b	0	0.66	4.10	0.33	0.1779

RR data

	N	6
	NS	6
	Wt	224.53
Het	Chi	18.02
Het	df	5
Het	P	**
Fixed	RR	1.46
	RRl	1.28
	RRu	1.67
	P	+++
Random	RR	1.80
	RRl	1.29
	RRu	2.51
	P	+++
Asymm	P	(*)

Appendix Table A43 - 6

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Current Asthma
Unadjusted

RR data

	N	6							
	NS	6							
	Wt	224.53							
	Het Chi	18.02							
	Het df	5							
	Het P	**							
Fixed	RR	1.46							
	RR1	1.28							
	RRu	1.67							
	P	+++							
Random	RR	1.80							
	RR1	1.29							
	RRu	2.51							
	P	+++							
Asymm	P	(*)							
			<u>Sex</u>						
			both	male	female		Total		
	N	6					6		
	NS	6					6		
	Wt	224.53					224.53		
	Het Chi	18.02					18.02		
	Het df	5					5		
	Het P	**					**		
Fixed	RR	1.46					1.46		
	RR1	1.28					1.28		
	RRu	1.67					1.67		
	P	+++					+++		
Random	RR	1.80					1.80		
	RR1	1.29					1.29		
	RRu	2.51					2.51		
	P	+++					+++		
Between	Chi								
Between	df								
Between	P						N.S.		
				<u>Continent</u>					
			NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	2			4				6
	NS	2			4				6
	Wt	26.22			198.32				224.53
	Het Chi	6.89			8.10				18.02
	Het df	1			3				5
	Het P	**			*				**
Fixed	RR	2.01			1.40				1.46
	RR1	1.37			1.22				1.28
	RRu	2.95			1.61				1.67
	P	+++			+++				+++
Random	RR	2.35			1.54				1.80
	RR1	0.81			1.12				1.29
	RRu	6.81			2.11				2.51
	P	N.S.			++				+++
Between	Chi								3.02
Between	df								1
Between	P								(*)

Appendix Table A43 - 6

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically

		Current Asthma Unadjusted					
		Start year of study			1990+	unknown	Total
		<1970	1970-79	1980-89			

RR data

	N			2	4		6
	NS			2	4		6
	Wt			12.87	211.67		224.53
Het	Chi			1.61	7.66		18.02
Het	df			1	3		5
Het	P			N.S.	(*)		**
Fixed	RR			3.26	1.39		1.46
	RRl			1.89	1.22		1.28
	RRu			5.63	1.59		1.67
	P			+++	+++		+++
Random	RR			3.09	1.46		1.80
	RRl			1.50	1.12		1.29
	RRu			6.39	1.91		2.51
	P			++	++		+++
Between	Chi						8.76
Between	df						1
Between	P						**

		Study type			Total
		CC	Pr	CS	
	N	3	2	1	6
	NS	3	2	1	6
	Wt	196.56	10.52	17.45	224.53
Het	Chi	0.59	1.39	0.00	18.02
Het	df	2	1	0	5
Het	P	N.S.	N.S.	N.S.	**
Fixed	RR	1.38	4.89	1.40	1.46
	RRl	1.20	2.67	0.88	1.28
	RRu	1.58	8.94	2.24	1.67
	P	+++	+++	N.S.	+++
Random	RR	1.38	5.35	1.40	1.80
	RRl	1.20	2.31	0.88	1.29
	RRu	1.58	12.36	2.24	2.51
	P	+++	+++	N.S.	+++
Between	Chi				16.04
Between	df				2
Between	P				***

Appendix Table A43 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	AZIZI	BALL	BERGMA	CALL	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK	DIJKST	DOTTER
	EHRLI1	FAGBUL	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GUPTA	HABY	HJERN1	HJERN2	HOST	HU1	HUGHES	INFANT
	JAAKKO	JONES	KALYO1	KALYO2	KARUNA	KNIGHT	LAM1	LAM2	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MCCON2
	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO	NHANE3	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	RONMAR	SARRAZ	SCHMIT
	SELCUK	SHOHAT	SOMERV	SOTOQU	STANHO	STERN1	STERN2	STODDA	STRACH	TARIQ	TOMINA	WANG	WEITZ1	WEITZ2	WILLE2	WOLFO1
	WOLFO2	WOLFO3	YANG	ZHENG												

Appendix Table A43 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Current Asthma
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL

Appendix Table A44 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Parental exposure (both parents)
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 7) UNEXSO : none in household, neither parent
- 8) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 9) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 10) RACE : all in study or nearest available, otherwise by race
- 11) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A43 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A44 - 1

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
 Current Asthma
 Adjusted

REF	NRR	CompA43	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	UNEXsource	EXPOS-time	UNEXTI
AGABI1	10		b	6	7	all	Eu:Ita	1994	1999	CC	11	NoParent	current	never
AGABI2	10		b	13	14	all	Eu:Ita	1994	1999	CC	12	NoParent	current	never
ARSHAD	2		b	1	1	all	Eu:UK	1990	1992	Pr	7	NoParent	utero/life	non
GILLIL	38		b	7	19	all	NAmer	1993	2001	CS	8	NoHhMemb	current	non
HU2	20		b	20	22	all	NAmer	1986	1997	Pr	3	LowParnt	13-15y	non
WILLE1	4		b	3	15	all	Eu:Sca	1988	1991	CC	0	NoParent	current	non

Appendix Table A44 - 2

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Cont	Case	Cont			
AGABI1	10	b	11	221	-	148	-	1.35	(1.09-	1.69)
AGABI2	10	b	12	281	-	203	-	1.29	(1.06-	1.56)
ARSHAD	2	b	7	-	-	-	-	11.00	(2.50-	48.20)
GILLIL	38	b	8	-	-	-	-	1.40	(0.90-	2.30)
HU2	20	b	3	13	-	84	-	3.30	(1.70-	6.40)
WILLE1	4	b	0	14	18	12	30	1.94	(0.74-	5.12)
Partial Totals				529	18	447	30			

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	10	b	11	0.30	79.89	0.14	0.0073
AGABI2	10	b	12	0.25	102.91	0.78	0.0098
ARSHAD	2	b	7	2.40	1.75	7.42	0.0015
GILLIL	38	b	8	0.34	17.45	0.00	0.1598
HU2	20	b	3	1.19	8.74	6.35	0.0004
WILLE1	4	b	0	0.66	4.10	0.43	0.1779

RR data

	N	6
	NS	6
	Wt	214.86
	Het Chi	15.12
	Het df	5
	Het P	**
Fixed	RR	1.41
	RRl	1.23
	RRu	1.61
	P	+++
Random	RR	1.68
	RRl	1.23
	RRu	2.28
	P	+++
Asymm	P	*

Appendix Table A44 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Current Asthma
 Adjusted

RR data

	N	6			
	NS	6			
	Wt	214.86			
Het	Chi	15.12			
Het	df	5			
Het	P	**			
Fixed	RR	1.41			
	RRl	1.23			
	RRu	1.61			
	P	+++			
Random	RR	1.68			
	RRl	1.23			
	RRu	2.28			
	P	+++			
Asymm	P	*			
			<u>Sex</u>		
	both	male	female	Total	
	N	6		6	
	NS	6		6	
	Wt	214.86		214.86	
Het	Chi	15.12		15.12	
Het	df	5		5	
Het	P	**		**	
Fixed	RR	1.41		1.41	
	RRl	1.23		1.23	
	RRu	1.61		1.61	
	P	+++		+++	
Random	RR	1.68		1.68	
	RRl	1.23		1.23	
	RRu	2.28		2.28	
	P	+++		+++	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A44 - 7

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	AZIZI	BALL	BERGMA	CALL	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK	DIJKST	DOTTER
	EHRLI1	FAGBUL	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GUPTA	HABY	HJERN1	HJERN2	HOST	HU1	HUGHES	INFANT
	JAAKKO	JONES	KALYO1	KALYO2	KARUNA	KNIGHT	LAM1	LAM2	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MCCON2
	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO	NHANE3	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	RONMAR	SARRAZ	SCHMIT
	SELCUK	SHOHAT	SOMERV	SOTOQU	STANHO	STERN1	STERN2	STODDA	STRACH	TARIQ	TOMINA	WANG	WEITZ1	WEITZ2	WILLE2	WOLFO1
	WOLFO2	WOLFO3	YANG	ZHENG												

Appendix Table A44 - 8

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Current Asthma
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL

Appendix Table A45 -

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Maternal exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : mother regardless of father, mother only
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : not mother, neither parent, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A5 - 1 are marked 'x' in Section -1) and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A45 - 1

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
 Adjusted

REF	NRR	CompA5	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAWO	2		m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non
CHEN2	34		b	6	17	all	NAmer	1993	1996	CS	6	Mother	NotMothr	ever	never
DOLD	12	x	b	9	11	all	Eu:Ger	1989	1992	CS	1	Mother	NotMothr	unspec	non
ECE	7		b	6	15	all	Eu:est	1999	2001	CS	0	Mother	NotMothr	current	non
EHRLI2	4		b	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	ever	never
FARBE2	2		b	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never
FERGUS	12	x	b	0	6	all	Auslia	1977	1985	Pr	1	Mother	NotMothr	in life	non
FORAST	25	x	b	7	11	all	Eu:Ita	1987	1992	CS	10	Mother	NotMothr	unspec	non
GOLD	11		b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non
GOREN1	4		b	7	11	all	As:ME	1980	1986	CS	0	Mother	NotMothr	current	non
GOREN2	5		b	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never
GORTM1	3		b	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non
GORTM2	1		b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non
HAJNAL	3		b	6	14	all	Eu:wst	1992	1999	CS	13	Mother	NotMothr	current	non
HU1	4		b	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non
HU2	1	x	b	20	22	all	NAmer	1986	1997	Pr	0	Mother	NotMothr	13-15y	non
JENKIN	5		b	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non
KAY	25	x	b	3	11	all	Eu:UK	*	1995	CS	2	Mother	NotMothr	unspec	non
KERSHA	5		b	0	5	all	Eu:UK	1983	1987	CC	1	Mother	LowMothr	<3y	non
KIVITY	4		b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non
KUEHR	6		b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non
LAM1	18		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non
LISTER	3		b	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MCCON1	2		b	9	18	all	NAmer	1993	2002	Pr	5	Mother	NotMothr	9-16y	non
MCCON2	1		b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never
MURRAY	5		m	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
MURRAY	7		f	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
PONSON	4		b	0	7	all	Auslia	1988	2000	Pr	6	Mother	NotMothr	<1m	non
RASANE	3		b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never
RONMAR	5		b	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never
SOYSET	14		b	7	13	all	Eu:Sca	1989	1995	CS	5	Mother	NotMothr	in life	non
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non
WITHER	6		b	14	16	all	Eu:UK	1995	1998	CS	5	Mother	NotMothr	current	non

Appendix Table A45 - 2

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	2	b	0	32	30	70	72	1.10	(0.60- 1.99)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
CHEN2	34	b	6	51	-	42	-	1.67	(1.01- 2.77)
DOLD	12	b	1	121	-	290	-	1.21	(0.96- 1.53)
ECE	7	b	0	96	530	334	2080	1.13	(0.88- 1.44)
EHRLI2	4	b	0	-	-	-	-	2.00	(1.10- 3.80)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	12	b	1	46	-	87	-	0.76	(0.53- 1.10)
FORAST	25	b	10	106	-	110	-	1.57	(1.18- 2.10)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	4	b	0	37	279	93	1001	1.43	(0.95- 2.14)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
HAJNAL	3	b	13	-	-	-	-	1.16	(0.89- 1.55)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	1	b	0	-	-	-	-	1.60	(1.10- 2.30)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
KAY	25	b	2	65	-	146	-	1.33	(0.93- 1.90)
KERSHA	5	b	1	51	-	35	-	2.43	(1.55- 3.79)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	6	b	1	28	-	134	-	0.68	(0.44- 1.06)
LAM1	18	b	4	-	-	201	-	1.32	(0.71- 2.45)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal	MARTIN							1.82	(1.14- 2.91)
*MCCON1	2	b	5	23	-	193	-	0.99	(0.67- 1.47)
MCCON2	1	b	0	7	59	8	149	2.21	(0.77- 6.37)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal	MURRAY							1.37	(0.91- 2.07)
*PONSON	4	b	6	130	-	146	-	1.05	(0.87- 1.27)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)
*RONMAR	5	b	9	-	-	-	-	1.36	(0.82- 2.25)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SHAMGS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
SOYSET	14	b	5	35	-	16	-	2.80	(1.30- 6.10)
STANHO	2	b	0	7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
WITHER	6	b	5	103	-	395	-	1.50	(1.14- 1.98)
Partial Totals				4345	18059	6989	27544		
*prospective study									

Appendix Table A45 - 2

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALBA	2	b	0	0.09	10.78	0.30	0.7608
ALDAWO	2	m	0	0.76	8.40	2.11	0.0274
ALFRA1	2	b	0	0.41	22.65	0.52	0.0498
CHEN2	34	b	6	0.51	15.10	0.96	0.0463
DOLD	12	b	1	0.19	70.73	0.34	0.1089
ECE	7	b	0	0.12	63.38	1.24	0.3376
EHRLI2	4	b	0	0.69	10.00	1.87	0.0284
FARBE2	2	b	3	0.41	57.72	1.33	0.0017
FAROOQ	1	b	0	0.25	72.93	0.00	0.0297
*FERGUS	12	b	1	-0.27	28.82	8.24	0.1407
FORAST	25	b	10	0.45	46.25	1.68	0.0022
GOLD	11	b	0	0.26	211.41	0.00	0.0002
GOREN1	4	b	0	0.36	23.61	0.22	0.0838
GOREN2	5	b	2	0.22	99.84	0.20	0.0316
GORTM1	3	b	7	0.40	36.85	0.71	0.0155
GORTM2	1	b	0	0.63	6.99	0.94	0.0978
HAJNAL	3	b	13	0.15	49.92	0.63	0.2943
HU1	4	b	7	-0.22	12.73	2.98	0.4259
HU2	1	b	0	0.47	28.24	1.24	0.0125
JENKIN	5	b	7	0.23	116.41	0.10	0.0126
KAY	25	b	2	0.29	30.11	0.02	0.1176
KERSHA	5	b	1	0.89	19.22	7.57	0.0001
KIVITY	4	b	0	0.59	13.44	1.44	0.0311
KUEHR	6	b	1	-0.39	19.88	8.29	0.0855
LAM1	18	b	4	0.28	10.02	0.00	0.3796
LIS	1	b	0	0.31	37.30	0.08	0.0604
LISTER	3	b	8	0.42	64.33	1.61	0.0008
*MARTIN	5	m	1	0.56	11.93	1.07	0.0533
*MARTIN	6	f	1	0.68	5.55	0.99	0.1075
Subtotal	MARTIN			0.72	17.48	2.06	
*MCCON1	2	b	5	-0.01	24.89	1.82	0.9600
MCCON2	1	b	0	0.79	3.43	0.97	0.1420
*MCKEEV	4	b	0	0.27	1119.12	0.12	0.0000
MURRAY	5	m	1	0.34	14.28	0.10	0.1941
MURRAY	7	f	1	0.27	8.50	0.00	0.4311
Subtotal	MURRAY			0.09	22.78	0.10	
*PONSON	4	b	6	0.05	107.38	4.81	0.6131
RASANE	3	b	3	0.46	27.24	1.13	0.0155
*RONMAR	5	b	9	0.31	15.08	0.03	0.2324
ROSASV	1	b	0	0.45	3.25	0.12	0.4168
SHAMSS	2	b	0	0.33	79.17	0.38	0.0034
*SHERMA	2	b	2	0.17	19.90	0.18	0.4603
SOYSET	14	b	5	1.03	6.43	3.80	0.0090
STANHO	2	b	0	-0.92	4.90	6.80	0.0423
*TAYLOR	4	b	0	-0.04	72.55	6.58	0.7281
WITHER	6	b	5	0.41	50.42	1.06	0.0040

RR data

N	44
NS	42
Wt	2761.06
Het Chi	74.60
Het df	43
Het P	**
Fixed RR	1.30
RRl	1.25
RRu	1.35
P	+++
Random RR	1.31
RRl	1.23
RRu	1.39
P	+++
Asymm P	N.S.

Appendix Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Lifetime Asthma
 Adjusted

RR data

	N	44						
	NS	42						
	Wt	2761.06						
Het	Chi	74.60						
Het	df	43						
Het	P	**						
Fixed	RR	1.30						
	RRl	1.25						
	RRu	1.35						
	P	+++						
Random	RR	1.31						
	RRl	1.23						
	RRu	1.39						
	P	+++						
Asymm	P	N.S.						
			<u>Sex</u>					
		both	male	female			Total	
	N	39	3	2			44	
	NS	39	3	2			44	
	Wt	2712.40	34.61	14.05			2761.06	
Het	Chi	70.28	0.95	0.57			74.60	
Het	df	38	2	1			43	
Het	P	**	N.S.	N.S.			**	
Fixed	RR	1.29	1.68	1.54			1.30	
	RRl	1.24	1.20	0.91			1.25	
	RRu	1.34	2.35	2.60			1.35	
	P	+++	++	N.S.			+++	
Random	RR	1.29	1.68	1.54			1.31	
	RRl	1.21	1.20	0.91			1.23	
	RRu	1.38	2.35	2.60			1.39	
	P	+++	++	N.S.			+++	
Between	Chi						2.79	
Between	df						2	
Between	P						N.S.	
					<u>Continent</u>			
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	15	1	17	6	5		44
	NS	13	1	17	6	5		42
	Wt	467.52	3.25	1790.49	177.96	321.84		2761.06
Het	Chi	13.96	0.00	33.27	3.93	17.28		74.60
Het	df	14	0	16	5	4		43
Het	P	N.S.	N.S.	**	N.S.	**		**
Fixed	RR	1.36	1.57	1.30	1.37	1.16		1.30
	RRl	1.25	0.53	1.24	1.18	1.04		1.25
	RRu	1.49	4.66	1.36	1.59	1.29		1.35
	P	+++	N.S.	+++	+++	++		+++
Random	RR	1.36	1.57	1.30	1.37	1.06		1.31
	RRl	1.25	0.53	1.18	1.18	0.82		1.23
	RRu	1.49	4.66	1.43	1.59	1.37		1.39
	P	+++	N.S.	+++	+++	N.S.		+++
Between	Chi							6.16
Between	df							4
Between	P							N.S.

Appendix Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
 Adjusted

		<u>Country in Europe</u>					Total
		UK	Italy	Germany	Scand	othWest East/Bal	
RR data	N	7	1	2	3	2	17
	NS	7	1	2	3	2	17
	Wt	1443.51	46.25	90.61	48.75	60.70	1790.49
	Het Chi	15.57	0.00	5.15	2.39	0.03	33.27
	Het df	6	0	1	2	1	16
	Het P	*	N.S.	*	N.S.	N.S.	**
Fixed	RR	1.31	1.57	1.07	1.63	1.15	1.21
	RR1	1.25	1.18	0.87	1.23	0.89	0.99
	RRu	1.38	2.09	1.31	2.16	1.48	1.47
	P	+++	++	N.S.	+++	N.S.	(+)
Random	RR	1.34	1.57	0.94	1.65	1.15	1.21
	RR1	1.17	1.18	0.53	1.20	0.89	0.99
	RRu	1.53	2.09	1.64	2.27	1.48	1.47
	P	+++	++	N.S.	++	N.S.	(+)
Between	Chi						9.30
Between	df						5
Between	P						(*)

Country in Asia
 FarEast Cent/SE MidlEast Total

	N	1	5	6
	NS	1	5	6
	Wt	10.02	167.94	177.96
	Het Chi	0.00	3.92	3.93
	Het df	0	4	5
	Het P	N.S.	N.S.	N.S.
Fixed	RR	1.32	1.38	1.37
	RR1	0.71	1.18	1.18
	RRu	2.45	1.60	1.59
	P	N.S.	+++	+++
Random	RR	1.32	1.38	1.37
	RR1	0.71	1.18	1.18
	RRu	2.45	1.60	1.59
	P	N.S.	+++	+++
Between	Chi			0.02
Between	df			1
Between	P			N.S.

Start year of study
 <1970 1970-79 1980-89 1990+ unknown Total

	N	1	9	16	12	6	44
	NS	1	8	15	12	6	42
	Wt	116.41	464.84	589.60	336.72	1253.49	2761.06
	Het Chi	0.00	21.89	25.23	17.00	3.59	74.60
	Het df	0	8	15	11	5	43
	Het P	N.S.	**	*	N.S.	N.S.	**
Fixed	RR	1.26	1.20	1.37	1.21	1.33	1.30
	RR1	1.05	1.10	1.27	1.09	1.25	1.25
	RRu	1.51	1.32	1.49	1.35	1.40	1.35
	P	+	+++	+++	+++	+++	+++
Random	RR	1.26	1.16	1.45	1.20	1.33	1.31
	RR1	1.05	0.97	1.29	1.05	1.25	1.23
	RRu	1.51	1.40	1.63	1.38	1.40	1.39
	P	+	N.S.	+++	++	+++	+++
Between	Chi						6.88
Between	df						4
Between	P						N.S.

Appendix Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
Adjusted

Publication year
<1990 1990-94 1995-99 2000+ Total

RR data

N	8	12	15	9	44
NS	8	10	15	9	42
Wt	196.37	557.48	625.03	1382.19	2761.06
Het Chi	30.14	15.16	13.11	12.73	74.60
Het df	7	11	14	8	43
Het P	***	N.S.	N.S.	N.S.	**
Fixed RR	1.18	1.30	1.36	1.29	1.30
RRl	1.02	1.19	1.26	1.22	1.25
RRu	1.35	1.41	1.47	1.36	1.35
P	+	+++	+++	+++	+++
Random RR	1.25	1.31	1.36	1.26	1.31
RRl	0.90	1.17	1.26	1.12	1.23
RRu	1.74	1.46	1.47	1.42	1.39
P	N.S.	+++	+++	+++	+++
Between Chi					3.47
Between df					3
Between P					N.S.

Study type
CC Pr CS Total

N	4	11	29	44
NS	4	10	28	42
Wt	43.25	1644.88	1072.94	2761.06
Het Chi	4.52	23.84	38.80	74.60
Het df	3	10	28	43
Het P	N.S.	**	(*)	**
Fixed RR	1.84	1.26	1.33	1.30
RRl	1.37	1.20	1.26	1.25
RRu	2.48	1.32	1.42	1.35
P	+++	+++	+++	+++
Random RR	1.78	1.19	1.34	1.31
RRl	1.21	1.05	1.25	1.23
RRu	2.62	1.33	1.45	1.39
P	++	++	+++	+++
Between Chi				7.43
Between df				2
Between P				*

Highest age in RR
0-9 10-14 15+ unknown Total

N	9	17	18		44
NS	9	16	17		42
Wt	441.88	1644.57	674.61		2761.06
Het Chi	30.76	21.45	20.18		74.60
Het df	8	16	17		43
Het P	***	N.S.	N.S.		**
Fixed RR	1.23	1.30	1.35		1.30
RRl	1.12	1.24	1.25		1.25
RRu	1.35	1.36	1.45		1.35
P	+++	+++	+++		+++
Random RR	1.24	1.29	1.36		1.31
RRl	1.00	1.19	1.24		1.23
RRu	1.53	1.41	1.48		1.39
P	+	+++	+++		+++
Between Chi					2.21
Between df					2
Between P					N.S.

Appendix Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
 Adjusted

Population setting
 general school medical allergy other Total

RR data

N	8	22	12		2	44
NS	7	22	11		2	42
Wt	235.94	1019.65	1370.85		134.62	2761.06
Het Chi	13.02	34.70	20.02		3.74	74.60
Het df	7	21	11		1	43
Het P	(*)	*	*		(*)	**
Fixed RR	1.35	1.28	1.32		1.14	1.30
RRl	1.19	1.20	1.25		0.96	1.25
RRu	1.53	1.36	1.39		1.35	1.35
P	+++	+++	+++		N.S.	+++
Random RR	1.44	1.28	1.36		1.25	1.31
RRl	1.18	1.17	1.18		0.84	1.23
RRu	1.74	1.39	1.56		1.87	1.39
P	+++	+++	+++		N.S.	+++
Between Chi						3.11
Between df						3
Between P						N.S.

Respondent for smoking
 child parent med rec mix/oth Total

N	3	27	2	12	44
NS	3	26	2	11	42
Wt	52.22	1036.45	1192.05	480.34	2761.06
Het Chi	6.60	56.67	0.02	10.23	74.60
Het df	2	26	1	11	43
Het P	*	***	N.S.	N.S.	**
Fixed RR	1.21	1.27	1.31	1.33	1.30
RRl	0.92	1.20	1.24	1.22	1.25
RRu	1.58	1.35	1.39	1.46	1.35
P	N.S.	+++	+++	+++	+++
Random RR	1.00	1.31	1.31	1.33	1.31
RRl	0.54	1.19	1.24	1.22	1.23
RRu	1.85	1.45	1.39	1.46	1.39
P	N.S.	+++	+++	+++	+++
Between Chi					1.08
Between df					3
Between P					N.S.

Child smokers
 exc/none included ignored Total

N	8	8	28	44
NS	6	8	28	42
Wt	115.10	389.92	2256.03	2761.06
Het Chi	11.46	9.25	53.75	74.60
Het df	7	7	27	43
Het P	N.S.	N.S.	**	**
Fixed RR	1.30	1.32	1.29	1.30
RRl	1.08	1.20	1.24	1.25
RRu	1.56	1.46	1.35	1.35
P	++	+++	+++	+++
Random RR	1.33	1.33	1.30	1.31
RRl	1.03	1.16	1.21	1.23
RRu	1.73	1.51	1.41	1.39
P	+	+++	+++	+++
Between Chi				0.14
Between df				2
Between P				N.S.

Appendix Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
 Adjusted

Physician diagnosis (lifetime)
 yes no/mixed Total

RR data

N	23	21	44
NS	22	20	42
Wt	1696.66	1064.40	2761.06
Het Chi	46.42	28.09	74.60
Het df	22	20	43
Het P	**	N.S.	**
Fixed RR	1.29	1.31	1.30
RR1	1.23	1.23	1.25
RRu	1.35	1.39	1.35
P	+++	+++	+++
Random RR	1.28	1.33	1.31
RR1	1.15	1.23	1.23
RRu	1.43	1.43	1.39
P	+++	+++	+++
Between Chi			0.09
Between df			1
Between P			N.S.

Respondent for diagnosis (lifetime)
 medrec parent child mixed Total

N	6	26	6	6	44
NS	6	25	6	5	42
Wt	1254.12	1061.39	118.08	327.47	2761.06
Het Chi	16.32	41.83	11.93	3.28	74.60
Het df	5	25	5	5	43
Het P	**	*		N.S.	**
Fixed RR	1.30	1.31	1.18	1.27	1.30
RR1	1.23	1.23	0.99	1.14	1.25
RRu	1.38	1.39	1.42	1.42	1.35
P	+++	+++	(+)	+++	+++
Random RR	1.28	1.35	1.10	1.27	1.31
RR1	1.02	1.24	0.81	1.14	1.23
RRu	1.62	1.47	1.48	1.42	1.39
P	+	+++	N.S.	+++	+++
Between Chi					1.24
Between df					3
Between P					N.S.

Questionnaire for symptoms
 ISAAC ATS other Total

N	7	7	30	44
NS	7	7	28	42
Wt	364.96	417.87	1978.23	2761.06
Het Chi	6.71	4.47	59.43	74.60
Het df	6	6	29	43
Het P	N.S.	N.S.	***	**
Fixed RR	1.18	1.33	1.31	1.30
RR1	1.06	1.21	1.26	1.25
RRu	1.30	1.46	1.37	1.35
P	++	+++	+++	+++
Random RR	1.18	1.33	1.34	1.31
RR1	1.06	1.21	1.22	1.23
RRu	1.32	1.46	1.47	1.39
P	++	+++	+++	+++
Between Chi				4.00
Between df				2
Between P				N.S.

Appendix Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
Adjusted

Analysis type
prevalence onset Total

RR data

	N	35	9	44
	NS	34	8	42
	Wt	1355.84	1405.22	2761.06
Het	Chi	48.89	22.05	74.60
Het	df	34	8	43
Het	P	*	**	**
Fixed	RR	1.35	1.25	1.30
	RRl	1.28	1.19	1.25
	RRu	1.42	1.32	1.35
	P	+++	+++	+++
Random	RR	1.37	1.13	1.31
	RRl	1.27	0.97	1.23
	RRu	1.47	1.33	1.39
	P	+++	N.S.	+++
Between	Chi			3.65
Between	df			1
Between	P			(*)

Number of cases (lifetime asthma)

		1-50	51-100	101-200	201+	unknown	Total
	N	3	7	11	22	1	44
	NS	3	6	11	21	1	42
	Wt	15.32	81.37	214.39	2412.68	37.30	2761.06
Het	Chi	8.58	6.72	27.58	23.16	0.00	74.60
Het	df	2	6	10	21	0	43
Het	P	*	N.S.	**	N.S.	N.S.	**
Fixed	RR	1.19	1.77	1.26	1.29	1.36	1.30
	RRl	0.72	1.43	1.10	1.24	0.99	1.25
	RRu	1.96	2.20	1.44	1.34	1.87	1.35
	P	N.S.	+++	+++	+++	(+)	+++
Random	RR	1.17	1.78	1.27	1.28	1.36	1.31
	RRl	0.41	1.41	1.01	1.22	0.99	1.23
	RRu	3.39	2.25	1.60	1.34	1.87	1.39
	P	N.S.	+++	+	+++	(+)	+++
Between	Chi						8.55
Between	df						4
Between	P						(*)

Study adjusts for or is matched on sex

		Yes	No	Total
	N	21	23	44
	NS	20	22	42
	Wt	898.48	1862.58	2761.06
Het	Chi	31.85	42.56	74.60
Het	df	20	22	43
Het	P	*	**	**
Fixed	RR	1.28	1.30	1.30
	RRl	1.20	1.25	1.25
	RRu	1.37	1.37	1.35
	P	+++	+++	+++
Random	RR	1.29	1.33	1.31
	RRl	1.18	1.21	1.23
	RRu	1.42	1.45	1.39
	P	+++	+++	+++
Between	Chi			0.18
Between	df			1
Between	P			N.S.

Appendix Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
Adjusted

Study adjusts for or is matched on age

Yes No Total

RR data

N	11	33	44
NS	11	31	42
Wt	489.26	2271.80	2761.06
Het Chi	10.98	63.08	74.60
Het df	10	32	43
Het P	N.S.	***	**
Fixed RR	1.34	1.29	1.30
RRl	1.22	1.24	1.25
RRu	1.46	1.34	1.35
P	+++	+++	+++
Random RR	1.34	1.30	1.31
RRl	1.22	1.20	1.23
RRu	1.48	1.40	1.39
P	+++	+++	+++
Between Chi			0.53
Between df			1
Between P			N.S.

Study adjusts for or is matched on race

N	7	37	44
NS	7	35	42
Wt	358.44	2402.63	2761.06
Het Chi	10.43	63.87	74.60
Het df	6	36	43
Het P	N.S.	**	**
Fixed RR	1.33	1.29	1.30
RRl	1.20	1.24	1.25
RRu	1.48	1.34	1.35
P	+++	+++	+++
Random RR	1.35	1.30	1.31
RRl	1.14	1.21	1.23
RRu	1.60	1.40	1.39
P	+++	+++	+++
Between Chi			0.29
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	8	36	44
NS	8	34	42
Wt	521.74	2239.33	2761.06
Het Chi	5.98	68.61	74.60
Het df	7	35	43
Het P	N.S.	***	**
Fixed RR	1.30	1.30	1.30
RRl	1.20	1.24	1.25
RRu	1.42	1.35	1.35
P	+++	+++	+++
Random RR	1.30	1.31	1.31
RRl	1.20	1.21	1.23
RRu	1.42	1.42	1.39
P	+++	+++	+++
Between Chi			0.01
Between df			1
Between P			N.S.

Appendix Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
Adjusted

Study adjusts for or is matched on SES

Yes No Total

RR data

N	14	30	44
NS	13	29	42
Wt	705.20	2055.86	2761.06
Het Chi	37.26	36.19	74.60
Het df	13	29	43
Het P	***	N.S.	**
Fixed RR	1.25	1.31	1.30
RRl	1.16	1.26	1.25
RRu	1.35	1.37	1.35
P	+++	+++	+++
Random RR	1.29	1.32	1.31
RRl	1.12	1.24	1.23
RRu	1.49	1.41	1.39
P	+++	+++	+++
Between Chi			1.15
Between df			1
Between P			N.S.

Study adjusts for family medical history

N	17	27	44
NS	16	26	42
Wt	922.85	1838.22	2761.06
Het Chi	27.93	42.28	74.60
Het df	16	26	43
Het P	*	*	**
Fixed RR	1.23	1.33	1.30
RRl	1.15	1.27	1.25
RRu	1.31	1.40	1.35
P	+++	+++	+++
Random RR	1.24	1.36	1.31
RRl	1.13	1.25	1.23
RRu	1.37	1.49	1.39
P	+++	+++	+++
Between Chi			4.39
Between df			1
Between P			*

Study adjusts for family composition

N	9	35	44
NS	9	33	42
Wt	563.89	2197.18	2761.06
Het Chi	20.25	54.03	74.60
Het df	8	34	43
Het P	**	*	**
Fixed RR	1.27	1.30	1.30
RRl	1.17	1.25	1.25
RRu	1.38	1.36	1.35
P	+++	+++	+++
Random RR	1.30	1.31	1.31
RRl	1.12	1.22	1.23
RRu	1.50	1.41	1.39
P	+++	+++	+++
Between Chi			0.32
Between df			1
Between P			N.S.

Appendix Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
 Adjusted

Study adjusts for cooking, heating, air conditioning
 Yes No Total

RR data

N	4	40	44
NS	4	38	42
Wt	414.96	2346.10	2761.06
Het Chi	6.11	67.30	74.60
Het df	3	39	43
Het P	N.S.	**	**
Fixed RR	1.23	1.31	1.30
RRl	1.12	1.26	1.25
RRu	1.36	1.36	1.35
P	+++	+++	+++
Random RR	1.24	1.32	1.31
RRl	1.06	1.23	1.23
RRu	1.44	1.42	1.39
P	++	+++	+++
Between Chi			1.19
Between df			1
Between P			N.S.

Study adjusts for housing quality, crowding, damp, mould

N	5	39	44
NS	5	37	42
Wt	189.72	2571.34	2761.06
Het Chi	4.54	70.05	74.60
Het df	4	38	43
Het P	N.S.	**	**
Fixed RR	1.29	1.30	1.30
RRl	1.12	1.25	1.25
RRu	1.49	1.35	1.35
P	+++	+++	+++
Random RR	1.30	1.31	1.31
RRl	1.11	1.22	1.23
RRu	1.51	1.40	1.39
P	+++	+++	+++
Between Chi			0.01
Between df			1
Between P			N.S.

Study adjusts for pets, animal contact, farming

N	6	38	44
NS	5	37	42
Wt	139.26	2621.81	2761.06
Het Chi	7.78	64.98	74.60
Het df	5	37	43
Het P	N.S.	**	**
Fixed RR	1.16	1.31	1.30
RRl	0.98	1.26	1.25
RRu	1.37	1.36	1.35
P	(+)	+++	+++
Random RR	1.18	1.32	1.31
RRl	0.95	1.24	1.23
RRu	1.47	1.41	1.39
P	N.S.	+++	+++
Between Chi			1.84
Between df			1
Between P			N.S.

Appendix Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma

Adjusted
Study adjusts for child's medical history
Yes No Total

RR data

N	16	28	44
NS	15	27	42
Wt	594.76	2166.31	2761.06
Het Chi	30.09	42.15	74.60
Het df	15	27	43
Het P	*	*	**
Fixed RR	1.23	1.32	1.30
RRl	1.13	1.26	1.25
RRu	1.33	1.37	1.35
P	+++	+++	+++
Random RR	1.25	1.34	1.31
RRl	1.10	1.24	1.23
RRu	1.42	1.44	1.39
P	+++	+++	+++
Between Chi			2.35
Between df			1
Between P			N.S.

Study adjusts for in utero exposure

N	2	42	44
NS	2	40	42
Wt	19.16	2741.90	2761.06
Het Chi	6.70	67.82	74.60
Het df	1	41	43
Het P	**	**	**
Fixed RR	1.22	1.30	1.30
RRl	0.78	1.25	1.25
RRu	1.91	1.35	1.35
P	N.S.	+++	+++
Random RR	1.45	1.31	1.31
RRl	0.43	1.23	1.23
RRu	4.95	1.39	1.39
P	N.S.	+++	+++
Between Chi			0.08
Between df			1
Between P			N.S.

Study adjusts for in life exposure

N	12	32	44
NS	12	30	42
Wt	585.55	2175.51	2761.06
Het Chi	21.21	53.31	74.60
Het df	11	31	43
Het P	*	**	**
Fixed RR	1.31	1.29	1.30
RRl	1.21	1.24	1.25
RRu	1.42	1.35	1.35
P	+++	+++	+++
Random RR	1.32	1.30	1.31
RRl	1.17	1.21	1.23
RRu	1.48	1.41	1.39
P	+++	+++	+++
Between Chi			0.08
Between df			1
Between P			N.S.

Appendix Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
 Adjusted

Exposed group : Who is smoker
 Mother MothOnly Total

RR data

	N	44	44
	NS	42	42
	Wt	2761.06	2761.06
Het	Chi	74.60	74.60
Het	df	43	43
Het	P	**	**
Fixed	RR	1.30	1.30
	RR1	1.25	1.25
	RRu	1.35	1.35
	P	+++	+++
Random	RR	1.31	1.31
	RR1	1.23	1.23
	RRu	1.39	1.39
	P	+++	+++
Between	Chi		
Between	df		
Between	P		N.S.

Exposed group : when Exposed
 lif/ev age<7y current unspec other Total

	N	13	6	12	11	2	44
	NS	13	5	12	10	2	42
	Wt	1487.00	375.37	498.04	347.52	53.13	2761.06
Het	Chi	26.26	21.82	17.86	3.23	3.05	74.60
Het	df	12	5	11	10	1	43
Het	P	**	***	(*)	N.S.	(*)	**
Fixed	RR	1.29	1.23	1.31	1.38	1.28	1.30
	RR1	1.23	1.12	1.20	1.24	0.98	1.25
	RRu	1.36	1.37	1.43	1.53	1.67	1.35
	P	+++	+++	+++	+++	(+)	+++
Random	RR	1.30	1.32	1.30	1.38	1.26	1.31
	RR1	1.13	1.00	1.15	1.24	0.79	1.23
	RRu	1.48	1.74	1.47	1.53	2.02	1.39
	P	+++	(+)	+++	+++	N.S.	+++
Between	Chi						2.38
Between	df						4
Between	P						N.S.

Unexposed group : who is smoker
 NoHhMemb NoParent NotSpPar Total

	N	2	42	44
	NS	2	40	42
	Wt	20.80	2740.27	2761.06
Het	Chi	0.18	74.29	74.60
Het	df	1	41	43
Het	P	N.S.	**	**
Fixed	RR	1.20	1.30	1.30
	RR1	0.78	1.25	1.25
	RRu	1.84	1.35	1.35
	P	N.S.	+++	+++
Random	RR	1.20	1.31	1.31
	RR1	0.78	1.23	1.23
	RRu	1.84	1.40	1.39
	P	N.S.	+++	+++
Between	Chi			0.13
Between	df			1
Between	P			N.S.

Appendix Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
 Adjusted

Unexposed group : time
 non never non+othr Total

RR data

	N	36	8		44			
	NS	34	8		42			
	Wt	1388.54	1372.53		2761.06			
Het	Chi	67.65	6.20		74.60			
Het	df	35	7		43			
Het	P	***	N.S.		**			
Fixed	RR	1.28	1.32		1.30			
	RRl	1.21	1.25		1.25			
	RRu	1.35	1.39		1.35			
	P	+++	+++		+++			
Random	RR	1.29	1.32		1.31			
	RRl	1.19	1.25		1.23			
	RRu	1.41	1.39		1.39			
	P	+++	+++		+++			
Between	Chi				0.75			
Between	df				1			
Between	P				N.S.			
		<u>Number of adjustment variables</u>						
		0	1	2	3-5	6-9	10+	Total
	N	18	8	3	6	7	2	44
	NS	18	6	3	6	7	2	42
	Wt	1791.55	178.91	149.84	176.71	367.88	96.17	2761.06
Het	Chi	24.89	25.53	0.19	6.88	10.77	2.20	74.60
Het	df	17	7	2	5	6	1	43
Het	P	(*)	***	N.S.	N.S.	(*)	N.S.	**
Fixed	RR	1.30	1.20	1.25	1.45	1.25	1.34	1.30
	RRl	1.24	1.04	1.06	1.25	1.13	1.10	1.25
	RRu	1.37	1.39	1.47	1.68	1.39	1.64	1.35
	P	+++	+	++	+++	+++	++	+++
Random	RR	1.31	1.28	1.25	1.45	1.28	1.35	1.31
	RRl	1.20	0.94	1.06	1.21	1.10	1.00	1.23
	RRu	1.42	1.74	1.47	1.74	1.49	1.81	1.39
	P	+++	N.S.	++	+++	++	+	+++
Between	Chi							4.14
Between	df							5
Between	P							N.S.

RR adjusted for sex

	Yes	No	Total
N	14	30	44
NS	14	28	42
Wt	583.00	2178.06	2761.06
Het Chi	20.61	53.95	74.60
Het df	13	29	43
Het P	(*)	**	**
Fixed RR	1.29	1.30	1.30
RRl	1.19	1.25	1.25
RRu	1.40	1.36	1.35
P	+++	+++	+++
Random RR	1.31	1.31	1.31
RRl	1.17	1.21	1.23
RRu	1.46	1.42	1.39
P	+++	+++	+++
Between Chi			0.03
Between df			1
Between P			N.S.

Appendix Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
Adjusted

RR adjusted for age
 Yes No Total

RR data

	N	9	35	44
	NS	9	33	42
	Wt	267.07	2493.99	2761.06
Het	Chi	9.98	63.36	74.60
Het	df	8	34	43
Het	P	N.S.	**	**
Fixed	RR	1.38	1.29	1.30
	RRl	1.23	1.24	1.25
	RRu	1.56	1.34	1.35
	P	+++	+++	+++
Random	RR	1.39	1.29	1.31
	RRl	1.21	1.20	1.23
	RRu	1.59	1.39	1.39
	P	+++	+++	+++
Between	Chi			1.26
Between	df			1
Between	P			N.S.

RR adjusted for other ETS

	N	8	36	44
	NS	8	34	42
	Wt	296.24	2464.82	2761.06
Het	Chi	19.35	55.21	74.60
Het	df	7	35	43
Het	P	**	*	**
Fixed	RR	1.31	1.30	1.30
	RRl	1.17	1.25	1.25
	RRu	1.47	1.35	1.35
	P	+++	+++	+++
Random	RR	1.29	1.30	1.31
	RRl	1.06	1.22	1.23
	RRu	1.58	1.39	1.39
	P	+	+++	+++
Between	Chi			0.04
Between	df			1
Between	P			N.S.

RR adjusted for factor other than sex, age, other ETS

	N	23	21	44
	NS	21	21	42
	Wt	850.06	1911.00	2761.06
Het	Chi	40.69	33.61	74.60
Het	df	22	20	43
Het	P	**	*	**
Fixed	RR	1.32	1.29	1.30
	RRl	1.23	1.23	1.25
	RRu	1.41	1.35	1.35
	P	+++	+++	+++
Random	RR	1.35	1.27	1.31
	RRl	1.22	1.17	1.23
	RRu	1.49	1.39	1.39
	P	+++	+++	+++
Between	Chi			0.31
Between	df			1
Between	P			N.S.

Appendix Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
 Adjusted

	Original	<u>Derivation of RR/CI</u>		Other	Total
	Numbers	SumNumbs			

RR data

	N	19	14	4	7	44
	NS	19	12	4	7	42
	Wt	860.41	451.30	87.43	1361.92	2761.06
Het	Chi	28.32	16.61	11.49	13.77	74.60
Het	df	18	13	3	6	43
Het	P	(*)	N.S.	**	*	**
Fixed	RR	1.29	1.34	1.05	1.30	1.30
	RRl	1.21	1.23	0.85	1.24	1.25
	RRu	1.38	1.47	1.30	1.37	1.35
	P	+++	+++	N.S.	+++	+++
Random	RR	1.32	1.41	0.97	1.27	1.31
	RRl	1.20	1.24	0.62	1.09	1.23
	RRu	1.44	1.60	1.50	1.47	1.39
	P	+++	+++	N.S.	++	+++
Between	Chi					4.40
Between	df					3
Between	P					N.S.

Appendix Table A45 - 4

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
Unadjusted

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAWO	2		m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non
CHEN2	8	x	b	6	17	all	NAmer	1993	1996	CS	0	Mother	NotMothr	ever	never
DOLD	10	x	b	9	11	all	Eu:Ger	1989	1992	CS	0	Mother	NotMothr	unspec	non
ECE	7		b	6	15	all	Eu:est	1999	2001	CS	0	Mother	NotMothr	current	non
EHRLI2	4		b	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	ever	never
FARBE2	1	x	b	5	17	all	NAmer	1987	1997	CS	0	Mother	NotMothr	current	non
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never
FERGUS	10	x	b	0	6	all	Auslia	1977	1985	Pr	0	Mother	NotMothr	in life	non
FORAST	10	x	b	7	11	all	Eu:Ita	1987	1992	CS	0	Mother	NotMothr	unspec	non
GOLD	11		b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non
GOREN1	4		b	7	11	all	As:ME	1980	1986	CS	0	Mother	NotMothr	current	non
GOREN2	2	x	b	7	11	all	As:ME	1982	1995	CS	0	Mother	NotMothr	ever	never
GORTM1	1	x	b	0	17	all	NAmer	1977	1982	CS	0	Mother	NotMothr	current	non
GORTM2	1		b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non
HAJNAL	3		b	6	14	all	Eu:wst	1992	1999	CS	13	Mother	NotMothr	current	non
HU1	2	x	b	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non
HU2	1		b	20	22	all	NAmer	1986	1997	Pr	0	Mother	NotMothr	13-15y	non
JENKIN	1	x	m	7	7	all	Auslia	1968	1993	CS	0	Mother	NotMothr	current	non
JENKIN	3	x	f	7	7	all	Auslia	1968	1993	CS	0	Mother	NotMothr	current	non
KAY	10	x	b	3	11	all	Eu:UK	*	1995	CS	0	Mother	NotMothr	unspec	non
KERSHA	1	x	b	0	5	all	Eu:UK	1983	1987	CC	0	Mother	LowMothr	<3y	non
KIVITY	4		b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non
KUEHR	2	x	b	6	8	all	Eu:Ger	1990	1992	CS	0	Mother	NotMothr	<1y	non
LAM1	18		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non
LISTER	1	x	b	0	4	all	Auslia	1989	1998	CS	0	Mother	NotMothr	current	non
MARTIN	1	x	m	0	12	all	NAmer	1972	1992	Pr	0	Mother	LowMothr	<5y	non
MARTIN	2	x	f	0	12	all	NAmer	1972	1992	Pr	0	Mother	LowMothr	<5y	non
MCCON1	1	x	b	9	18	all	NAmer	1993	2002	Pr	0	Mother	NotMothr	9-16y	non
MCCON2	1		b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never
MURRAY	1	x	m	1	17	all	NAmer	1986	1990	CS	0	Mother	NotMothr	unspec	non
MURRAY	3	x	f	1	17	all	NAmer	1986	1990	CS	0	Mother	NotMothr	unspec	non
PONSON	3	x	b	0	7	all	Auslia	1988	2000	Pr	0	Mother	NotMothr	<1m	non
RASANE	1	x	b	16	16	all	Eu:Sca	1991	2000	CS	0	Mother	NotMothr	ever	never
RONMAR	4	x	b	7	10	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	non
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never
SOYSET	2	x	b	7	13	all	Eu:Sca	1989	1995	CS	0	Mother	NotMothr	in life	non
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non
WITHER	2	x	b	14	16	all	Eu:UK	1995	1998	CS	0	Mother	NotMothr	current	non

Appendix Table A45 - 5

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	2	b	0	32	30	70	72	1.10	(0.60- 1.99)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
CHEEN2	8	b	0	51	378	42	421	1.35	(0.88- 2.08)
DOLD	10	b	0	121	1220	290	3533	1.21	(0.97- 1.51)
ECE	7	b	0	96	530	334	2080	1.13	(0.88- 1.44)
EHRLI2	4	b	0	-	-	-	-	2.00	(1.10- 3.80)
FARBE2	1	b	0	109	707	116	1109	1.47	(1.12- 1.95)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	10	b	0	46	393	87	639	0.86	(0.62- 1.20)
FORAST	10	b	0	106	973	110	1608	1.59	(1.21- 2.10)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	4	b	0	37	279	93	1001	1.43	(0.95- 2.14)
GOREN2	2	b	0	203	1505	461	4103	1.20	(1.01- 1.43)
GORTM1	1	b	0	97	1158	91	1726	1.59	(1.18- 2.14)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
HAJNAL	3	b	13	-	-	-	-	1.16	(0.89- 1.55)
HU1	2	b	0	45	131	62	220	1.22	(0.78- 1.89)
HU2	1	b	0	-	-	-	-	1.60	(1.10- 2.30)
JENKIN	1	m	0	310	1159	502	2367	1.26	(1.08- 1.48)
JENKIN	3	f	0	224	1208	313	2448	1.45	(1.21- 1.74)
Subtotal	JENKIN							1.34	(1.19- 1.51)
KAY	10	b	0	65	208	146	658	1.41	(1.01- 1.96)
KERSHA	1	b	0	51	450	35	749	2.43	(1.55- 3.79)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	2	b	0	28	282	134	957	0.71	(0.46- 1.09)
LAM1	18	b	4	-	-	201	-	1.32	(0.71- 2.45)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	1	b	0	-	-	-	-	1.47	(1.19- 1.83)
*MARTIN	1	m	0	17	80	41	315	1.63	(0.98- 2.72)
*MARTIN	2	f	0	8	63	20	281	1.78	(0.82- 3.87)
Subtotal	MARTIN							1.68	(1.10- 2.57)
*MCCON1	1	b	0	23	904	193	7899	1.04	(0.68- 1.60)
MCCON2	1	b	0	7	59	8	149	2.21	(0.77- 6.37)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MURRAY	1	m	0	50	34	153	149	1.43	(0.88- 2.34)
MURRAY	3	f	0	22	29	67	116	1.31	(0.70- 2.47)
Subtotal	MURRAY							1.39	(0.94- 2.04)
*PONSON	3	b	0	130	382	146	473	1.10	(0.91- 1.34)
RASANE	1	b	0	101	2055	76	2306	1.49	(1.10- 2.02)
*RONMAR	4	b	0	-	-	-	-	1.12	(0.72- 1.73)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SHAMSS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
SOYSET	2	b	0	35	297	16	270	1.99	(1.08- 3.67)
STANHO	2	b	0	7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
WITHER	2	b	0	103	299	395	1442	1.26	(0.98- 1.61)
Partial Totals				4345	31974	6989	61333		
*prospective study									

Appendix Table A45 - 5

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALBA	2	b	0	0.09	10.78	0.31	0.7608
ALDAWO	2	m	0	0.76	8.40	2.08	0.0274
ALFRA1	2	b	0	0.41	22.65	0.50	0.0498
CHEN2	8	b	0	0.30	20.64	0.03	0.1702
DOLD	10	b	0	0.19	78.03	0.43	0.0947
ECE	7	b	0	0.12	63.38	1.30	0.3376
EHRLI2	4	b	0	0.69	10.00	1.85	0.0284
FARBE2	1	b	0	0.39	49.72	0.77	0.0062
FAROOQ	1	b	0	0.25	72.93	0.01	0.0297
*FERGUS	10	b	0	-0.15	34.34	5.90	0.3757
FORAST	10	b	0	0.47	49.57	2.02	0.0011
GOLD	11	b	0	0.26	211.41	0.01	0.0002
GOREN1	4	b	0	0.36	23.61	0.20	0.0838
GOREN2	2	b	0	0.18	124.95	0.81	0.0411
GORTM1	1	b	0	0.46	43.97	1.75	0.0021
GORTM2	1	b	0	0.63	6.99	0.92	0.0978
HAJNAL	3	b	13	0.15	49.92	0.66	0.2943
HU1	2	b	0	0.20	19.79	0.08	0.3785
HU2	1	b	0	0.47	28.24	1.21	0.0125
JENKIN	1	m	0	0.23	153.77	0.15	0.0040
JENKIN	3	f	0	0.37	112.42	1.32	0.0001
Subtotal JENKIN				0.08	266.19	1.47	
KAY	10	b	0	0.34	35.01	0.22	0.0427
KERSHA	1	b	0	0.89	19.33	7.49	0.0001
KIVITY	4	b	0	0.59	13.44	1.41	0.0311
KUEHR	2	b	0	-0.34	20.93	7.72	0.1158
LAM1	18	b	4	0.28	10.02	0.00	0.3796
LIS	1	b	0	0.31	37.30	0.07	0.0604
LISTER	1	b	0	0.39	82.96	1.23	0.0004
*MARTIN	1	m	0	0.49	14.81	0.76	0.0593
*MARTIN	2	f	0	0.58	6.43	0.64	0.1422
Subtotal MARTIN				0.54	21.23	1.40	
*MCCON1	1	b	0	0.04	21.09	1.05	0.8526
MCCON2	1	b	0	0.79	3.43	0.96	0.1420
*MCKEEV	4	b	0	0.27	1119.12	0.06	0.0000
MURRAY	1	m	0	0.36	15.96	0.15	0.1513
MURRAY	3	f	0	0.27	9.66	0.00	0.3967
Subtotal MURRAY				0.11	25.62	0.15	
*PONSON	3	b	0	0.10	101.94	2.80	0.3244
RASANE	1	b	0	0.40	41.70	0.77	0.0099
*RONMAR	4	b	0	0.11	20.00	0.45	0.6123
ROSASV	1	b	0	0.45	3.25	0.11	0.4168
SHAMSS	2	b	0	0.33	79.17	0.34	0.0034
*SHERMA	2	b	2	0.17	19.90	0.19	0.4603
SOYSET	2	b	0	0.69	10.19	1.83	0.0282
STANHO	2	b	0	-0.92	4.90	6.83	0.0423
*TAYLOR	4	b	0	-0.04	72.55	6.71	0.7281
WITHER	2	b	0	0.23	61.43	0.07	0.0724

RR data

N	45
NS	42
Wt	3020.03
Het Chi	64.21
Het df	44
Het P	*
Fixed RR	1.30
RRl	1.26
RRu	1.35
P	+++
Random RR	1.31
RRl	1.24
RRu	1.38
P	+++
Asymm P	N.S.

Appendix Table A45 - 6

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
 Unadjusted

RR data

	N	45							
	NS	42							
	Wt	3020.03							
Het	Chi	64.21							
Het	df	44							
Het	P	*							
Fixed	RR	1.30							
	RRl	1.26							
	RRu	1.35							
	P	+++							
Random	RR	1.31							
	RRl	1.24							
	RRu	1.38							
	P	+++							
Asymm	P	N.S.							
			<u>Sex</u>						
			both	male	female	Total			
	N	38		4	3	45			
	NS	38		4	3	45			
	Wt	2698.58	192.94	128.51	3020.03				
Het	Chi	58.98	3.05	0.37	64.21				
Het	df	37	3	2	44				
Het	P	*	N.S.	N.S.	*				
Fixed	RR	1.29	1.33	1.45	1.30				
	RRl	1.24	1.16	1.22	1.26				
	RRu	1.34	1.53	1.73	1.35				
	P	+++	+++	+++	+++				
Random	RR	1.29	1.34	1.45	1.31				
	RRl	1.22	1.15	1.22	1.24				
	RRu	1.37	1.55	1.73	1.38				
	P	+++	+++	+++	+++				
Between	Chi				1.81				
Between	df				2				
Between	P				N.S.				
			<u>Continent</u>						
			NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	15		1	17	6	6		45
	NS	13		1	17	6	5		42
	Wt	482.05	3.25	1841.34	203.06	490.33			3020.03
Het	Chi	8.78	0.00	30.38	4.93	17.47			64.21
Het	df	14	0	16	5	5			44
Het	P	N.S.	N.S.	*	N.S.	**			*
Fixed	RR	1.38	1.57	1.29	1.33	1.25			1.30
	RRl	1.26	0.53	1.23	1.16	1.14			1.26
	RRu	1.51	4.66	1.35	1.52	1.37			1.35
	P	+++	N.S.	+++	+++	+++			+++
Random	RR	1.38	1.57	1.28	1.33	1.18			1.31
	RRl	1.26	0.53	1.17	1.16	0.99			1.24
	RRu	1.51	4.66	1.40	1.52	1.42			1.38
	P	+++	N.S.	+++	+++	(+)			+++
Between	Chi								2.65
Between	df								4
Between	P								N.S.

Appendix Table A45 - 6

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Lifetime Asthma
 Unadjusted

Start year of study
 <1970 1970-79 1980-89 1990+ unknown Total

RR data

N	2	9	16	12	6	45
NS	1	8	15	12	6	42
Wt	266.19	481.23	637.23	376.98	1258.40	3020.03
Het Chi	1.27	20.66	21.62	9.77	3.72	64.21
Het df	1	8	15	11	5	44
Het P	N.S.	**	N.S.	N.S.	N.S.	*
Fixed RR	1.34	1.22	1.37	1.19	1.33	1.30
RRl	1.19	1.11	1.27	1.08	1.26	1.26
RRu	1.51	1.33	1.48	1.32	1.40	1.35
P	+++	+++	+++	+++	+++	+++
Random RR	1.34	1.19	1.42	1.19	1.33	1.31
RRl	1.17	1.00	1.28	1.08	1.26	1.24
RRu	1.54	1.41	1.57	1.32	1.40	1.38
P	+++	(+)	+++	+++	+++	+++
Between Chi						7.18
Between df						4
Between P						N.S.

Study type
 CC Pr CS Total

N	4	11	30	45
NS	4	10	28	42
Wt	43.36	1649.82	1326.85	3020.03
Het Chi	4.51	18.56	33.98	64.21
Het df	3	10	29	44
Het P	N.S.	*	N.S.	*
Fixed RR	1.84	1.27	1.33	1.30
RRl	1.37	1.21	1.26	1.26
RRu	2.48	1.33	1.40	1.35
P	+++	+++	+++	+++
Random RR	1.78	1.20	1.34	1.31
RRl	1.22	1.08	1.26	1.24
RRu	2.62	1.33	1.42	1.38
P	++	+++	+++	+++
Between Chi				7.16
Between df				2
Between P				*

Appendix Table A45 - 7

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ANDRAE	BARRET	BECKET	BENER	BRABIN	BURR	BUTZ	CHEN1	DODGE	FIELDE	FLYNN1	FLYNN2	GURKAN	KALYO1	KEARNE
	KENDIR	KUHR	LAM2	LEEDER	LEROUX	MAIER	MONTEF	MOYES1	MOYES2	OCONNE	ODDY	POKHAR	RATAGE	RENNIE	RONCH1	RONCH2
	RONCH3	RUDNIK	SANZOR	SELCUK	SENNHA	SIGURS	SPIEKE	SQUILL	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME
	WOLFO1	WOLFO2	WOLFO3	ZEJDA												
3	ANNESI	CUNNI2	DELL	GILLIL	KAPLAN	KELLY	NHANE3	NILSSO	NYSTAD	WEITZ1	XU					
5	BURCHF	DEBENE	GOREN3	GOREN4	GOREN5	GOREN6	SCHENK	STAZI	STERN2	VONMAF	ZEIGER					
13	ALFRA2	FARBE1	FARBE3													

Appendix Table A45 - 8

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
MCCON1	GILLIL	2	MCCON1/GILLIL
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3
KUEHR	KUEHR	1	KUEHR/SPIEKE
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	1.01	?
BURCHF	11	m	0	19	all	NAmer	1962	1986	CS	3	MothOnly	NoParent	current	never	1.37	?
BURCHF	14	f	0	19	all	NAmer	1962	1986	CS	3	MothOnly	NoParent	current	never	1.16	?
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	1.46	y
FERGUS	22	b	0	6	all	Auslia	1977	1985	Pr	9	Mother	NotMothr	in life	non	*	n
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	*	n
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	1.67	y
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	*	n
STAZI	7	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	1.35	y
VONMAF	3	b	0	17	all	NAmer	1993	2001	CS	7	Mother	NotMothr	ever	never	*	y
ZEIGER	4	b	0	7	all	NAmer	1981	1995	Pr	4	Mother	NotMothr	unspec	non	*	n

Unadjusted - insufficient data for metaanalysis: as for adjusted plus the following

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
STAZI	2	b	0	5	all	Eu:Ita	1993	2002	CS	2	Mother	NotMothr	in life	non	*	n

Appendix Table A46 -

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Maternal exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : mother regardless of father, mother only
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : none in household, neither parent, not mother
- 9) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A45 - 1 are marked 'x' in Section -1)
(Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A46 - 1

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
 Adjusted

REF	NRR	CompA45	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAWO	2		m	6	15	all	As:ME	*	2000	CS	0	Mother	NotMothr	ever	never
ALFRA1	2		b	7	12	all	As:ME	1986	1990	CS	0	Mother	NotMothr	unspec	non
CHEN2	34		b	6	17	all	NAmer	1993	1996	CS	6	Mother	NotMothr	ever	never
DOLD	5	x	b	9	11	all	Eu:Ger	1989	1992	CS	0	Mother	NoParent	unspec	non
ECE	2	x	b	6	15	all	Eu:est	1999	2001	CS	0	Mother	NoHhMemb	current	non
EHRLI2	4		b	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	ever	never
FARBE2	2		b	5	17	all	NAmer	1987	1997	CS	3	Mother	NotMothr	current	non
FAROOQ	1		b	0	21	all	Eu:UK	1975	1998	CS	0	Mother	NotMothr	ever	never
FERGUS	5	x	b	0	6	all	Auslia	1977	1985	Pr	0	Mother	NoParent	in life	non
FORAST	18	x	b	7	11	all	Eu:Ita	1987	1992	CS	9	Mother	NoParent	unspec	non
GOLD	11		b	6	18	wh	NAmer	1974	1993	Pr	0	Mother	NotMothr	<6y	non
GOREN1	1	x	b	7	11	all	As:ME	1980	1986	CS	0	Mother	NoHhMemb	current	non
GOREN2	5		b	7	11	all	As:ME	1982	1995	CS	2	Mother	NotMothr	ever	never
GORTM1	3		b	0	17	all	NAmer	1977	1982	CS	7	Mother	NotMothr	current	non
GORTM2	1		b	0	17	all	NAmer	1980	1982	CS	0	Mother	NotMothr	current	non
HAJNAL	3		b	6	14	all	Eu:wst	1992	1999	CS	13	Mother	NotMothr	current	non
HU1	4		b	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	current	non
HU2	1		b	20	22	all	NAmer	1986	1997	Pr	0	Mother	NotMothr	13-15y	non
JENKIN	5		b	7	7	all	Auslia	1968	1993	CS	7	Mother	NotMothr	current	non
KAY	18	x	b	3	11	all	Eu:UK	*	1995	CS	1	Mother	NoParent	unspec	non
KERSHA	6	x	b	0	5	all	Eu:UK	1983	1987	CC	1	Mother	LowHh	<3y	non
KIVITY	4		b	8	17	jew	As:ME	*	2001	CS	0	Mother	NotMothr	unspec	non
KUEHR	6		b	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	<1y	non
LAM1	18		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non
LISTER	3		b	0	4	all	Auslia	1989	1998	CS	8	Mother	NotMothr	current	non
MARTIN	5		m	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MARTIN	6		f	0	12	all	NAmer	1972	1992	Pr	1	Mother	LowMothr	<5y	non
MCCON1	2		b	9	18	all	NAmer	1993	2002	Pr	5	Mother	NotMothr	9-16y	non
MCCON2	1		b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non
MCKEEV	4		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	ever	never
MURRAY	5		m	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
MURRAY	7		f	1	17	all	NAmer	1986	1990	CS	1	Mother	NotMothr	unspec	non
PONSON	9	x	b	0	7	all	Auslia	1988	2000	Pr	0	Mother	NoHhMemb	<1m	non
RASANE	3		b	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never
RONMAR	5		b	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non
ROSASV	1		b	1	3	all	SCAmer	*	2002	CC	0	Mother	NotMothr	in life	non
SHAMSS	2		b	6	7	all	Eu:UK	*	1999	CS	0	Mother	NotMothr	unspec	non
SHERMA	2		b	5	23	all	NAmer	1975	1990	Pr	2	Mother	NotMothr	ever	never
SOYSET	14		b	7	13	all	Eu:Sca	1989	1995	CS	5	Mother	NotMothr	in life	non
STANHO	2		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
TAYLOR	4		b	1	10	wh	Eu:UK	1970	1983	Pr	0	Mother	NotMothr	utero/life	non
WITHER	4	x	b	14	16	all	Eu:UK	1995	1998	CS	0	Mother	NoHhMemb	current	non

Appendix Table A46 - 2

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALBA	2	b	0	32	30	70	72	1.10	(0.60- 1.99)
ALDAWO	2	m	0	11	51	130	1290	2.14	(1.09- 4.21)
ALFRA1	2	b	0	-	-	-	-	1.51	(1.04- 2.37)
CHEN2	34	b	6	51	-	42	-	1.67	(1.01- 2.77)
DOLD	5	b	0	121	1220	235	2931	1.24	(0.98- 1.56)
ECE	2	b	0	96	530	132	906	1.24	(0.94- 1.65)
EHRLI2	4	b	0	-	-	-	-	2.00	(1.10- 3.80)
FARBE2	2	b	3	109	-	116	-	1.51	(1.17- 1.96)
FAROOQ	1	b	0	-	-	-	-	1.29	(1.03- 1.63)
*FERGUS	5	b	0	46	393	58	460	0.93	(0.65- 1.33)
FORAST	18	b	9	106	-	52	-	1.55	(1.10- 2.20)
GOLD	11	b	0	554	3996	414	3856	1.29	(1.13- 1.48)
GOREN1	1	b	0	37	279	50	514	1.36	(0.87- 2.14)
GOREN2	5	b	2	203	-	461	-	1.24	(1.02- 1.51)
GORTM1	3	b	7	97	-	91	-	1.49	(1.08- 2.06)
GORTM2	1	b	0	15	315	14	550	1.87	(0.89- 3.93)
HAJNAL	3	b	13	-	-	-	-	1.16	(0.89- 1.55)
HU1	4	b	7	45	-	62	-	0.80	(0.50- 1.50)
HU2	1	b	0	-	-	-	-	1.60	(1.10- 2.30)
JENKIN	5	b	7	534	-	815	-	1.26	(1.05- 1.51)
KAY	18	b	1	65	-	108	-	1.53	(1.07- 2.18)
KERSHA	6	b	1	51	-	15	-	3.61	(1.99- 6.53)
KIVITY	4	b	0	23	94	56	412	1.80	(1.05- 3.07)
KUEHR	6	b	1	28	-	134	-	0.68	(0.44- 1.06)
LAM1	18	b	4	-	-	201	-	1.32	(0.71- 2.45)
LIS	1	b	0	-	-	-	-	1.36	(1.00- 1.90)
LISTER	3	b	8	-	-	-	-	1.52	(1.19- 1.94)
*MARTIN	5	m	1	17	-	41	-	1.75	(0.99- 3.08)
*MARTIN	6	f	1	8	-	20	-	1.98	(0.86- 4.54)
Subtotal MARTIN								1.82	(1.14- 2.91)
*MCCON1	2	b	5	23	-	193	-	0.99	(0.67- 1.47)
MCCON2	1	b	0	7	59	8	149	2.21	(0.77- 6.37)
*MCKEEV	4	b	0	1609	7675	2088	13058	1.31	(1.24- 1.39)
MURRAY	5	m	1	50	-	153	-	1.41	(0.84- 2.37)
MURRAY	7	f	1	22	-	67	-	1.31	(0.67- 2.57)
Subtotal MURRAY								1.37	(0.91- 2.07)
*PONSON	9	b	0	130	382	88	293	1.13	(0.91- 1.42)
RASANE	3	b	3	101	-	76	-	1.59	(1.09- 2.31)
*RONMAR	5	b	9	-	-	-	-	1.36	(0.82- 2.25)
ROSASV	1	b	0	9	6	65	68	1.57	(0.53- 4.66)
SHAMGS	2	b	0	-	-	-	-	1.39	(1.12- 1.74)
*SHERMA	2	b	2	-	-	-	-	1.18	(0.76- 1.83)
SOYSET	14	b	5	35	-	16	-	2.80	(1.30- 6.10)
STANHO	2	b	0	7	169	20	193	0.40	(0.16- 0.97)
*TAYLOR	4	b	0	-	4855	-	4815	0.96	(0.77- 1.22)
WITHER	4	b	0	103	299	296	1107	1.29	(1.00- 1.67)
Partial Totals				4345	20353	6387	30674		
*prospective study									

Appendix Table A46 - 2

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALBA	2	b	0	0.09	10.78	0.33	0.7608
ALDAWO	2	m	0	0.76	8.40	2.05	0.0274
ALFRA1	2	b	0	0.41	22.65	0.48	0.0498
CHEN2	34	b	6	0.51	15.10	0.91	0.0463
DOLD	5	b	0	0.21	73.10	0.21	0.0690
ECE	2	b	0	0.22	47.66	0.11	0.1329
EHRLI2	4	b	0	0.69	10.00	1.82	0.0284
FARBE2	2	b	3	0.41	57.72	1.22	0.0017
FAROOQ	1	b	0	0.25	72.93	0.01	0.0297
*FERGUS	5	b	0	-0.07	29.19	3.40	0.6878
FORAST	18	b	9	0.44	31.98	0.94	0.0132
GOLD	11	b	0	0.26	211.41	0.03	0.0002
GOREN1	1	b	0	0.31	19.03	0.04	0.1764
GOREN2	5	b	2	0.22	99.84	0.27	0.0316
GORTM1	3	b	7	0.40	36.85	0.64	0.0155
GORTM2	1	b	0	0.63	6.99	0.90	0.0978
HAJNAL	3	b	13	0.15	49.92	0.70	0.2943
HU1	4	b	7	-0.22	12.73	3.06	0.4259
HU2	1	b	0	0.47	28.24	1.17	0.0125
JENKIN	5	b	7	0.23	116.41	0.15	0.0126
KAY	18	b	1	0.43	30.34	0.76	0.0192
KERSHA	6	b	1	1.28	10.88	11.25	0.0000
KIVITY	4	b	0	0.59	13.44	1.39	0.0311
KUEHR	6	b	1	-0.39	19.88	8.46	0.0855
LAM1	18	b	4	0.28	10.02	0.00	0.3796
LIS	1	b	0	0.31	37.30	0.06	0.0604
LISTER	3	b	8	0.42	64.33	1.48	0.0008
*MARTIN	5	m	1	0.56	11.93	1.02	0.0533
*MARTIN	6	f	1	0.68	5.55	0.96	0.1075
Subtotal	MARTIN			0.71	17.48	1.98	
*MCCON1	2	b	5	-0.01	24.89	1.91	0.9600
MCCON2	1	b	0	0.79	3.43	0.95	0.1420
*MCKEEV	4	b	0	0.27	1119.12	0.02	0.0000
MURRAY	5	m	1	0.34	14.28	0.08	0.1941
MURRAY	7	f	1	0.27	8.50	0.00	0.4311
Subtotal	MURRAY			0.08	22.78	0.08	
*PONSON	9	b	0	0.12	76.77	1.54	0.2736
RASANE	3	b	3	0.46	27.24	1.06	0.0155
*RONMAR	5	b	9	0.31	15.08	0.02	0.2324
ROSASV	1	b	0	0.45	3.25	0.11	0.4168
SHAMSS	2	b	0	0.33	79.17	0.31	0.0034
*SHERMA	2	b	2	0.17	19.90	0.20	0.4603
SOYSET	14	b	5	1.03	6.43	3.74	0.0090
STANHO	2	b	0	-0.92	4.90	6.87	0.0423
*TAYLOR	4	b	0	-0.04	72.55	6.87	0.7281
WITHER	4	b	0	0.25	57.69	0.01	0.0543

RR data

N	44
NS	42
Wt	2697.79
Het Chi	67.52
Het df	43
Het P	**
Fixed RR	1.31
RRl	1.26
RRu	1.36
P	+++
Random RR	1.32
RRl	1.24
RRu	1.40
P	+++
Asymm P	N.S.

Appendix Table A46 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Lifetime Asthma
 Adjusted

RR data

	N	44			
	NS	42			
	Wt	2697.79			
Het	Chi	67.52			
Het	df	43			
Het	P	**			
Fixed	RR	1.31			
	RRl	1.26			
	RRu	1.36			
	P	+++			
Random	RR	1.32			
	RRl	1.24			
	RRu	1.40			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	39	3	2	44
	NS	39	3	2	44
	Wt	2649.12	34.61	14.05	2697.79
Het	Chi	63.35	0.95	0.57	67.52
Het	df	38	2	1	43
Het	P	**	N.S.	N.S.	**
Fixed	RR	1.30	1.68	1.54	1.31
	RRl	1.25	1.20	0.91	1.26
	RRu	1.35	2.35	2.60	1.36
	P	+++	++	N.S.	+++
Random	RR	1.30	1.68	1.54	1.32
	RRl	1.22	1.20	0.91	1.24
	RRu	1.39	2.35	2.60	1.40
	P	+++	++	N.S.	+++
Between	Chi				2.64
Between	df				2
Between	P				N.S.

Appendix Table A46 - 7

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ANDRAE	BARRET	BECKET	BENER	BRABIN	BURR	BUTZ	CHEN1	DODGE	FIELDE	FLYNN1	FLYNN2	GURKAN	KALYO1	KEARNE
	KENDIR	KUHR	LAM2	LEEDER	LEROUX	MAIER	MONTEF	MOYES1	MOYES2	OCONNE	ODDY	POKHAR	RATAGE	RENNIE	RONCH1	RONCH2
	RONCH3	RUDNIK	SANZOR	SELCUK	SENNHA	SIGURS	SPIEKE	SQUILL	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME
	WOLFO1	WOLFO2	WOLFO3	ZEJDA												
3	ANNESI	CUNNI2	DELL	GILLIL	KAPLAN	KELLY	NHANE3	NILSSO	NYSTAD	WEITZ1	XU					
5	BURCHF	DEBENE	GOREN3	GOREN4	GOREN5	GOREN6	SCHENK	STAZI	STERN2	VONMAF	ZEIGER					
13	ALFRA2	FARBE1	FARBE3													

Appendix Table A46 - 8

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
MCCON1	GILLIL	2	MCCON1/GILLIL
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3
KUEHR	KUEHR	1	KUEHR/SPIEKE
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEI	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	1.01	?
BURCHF	11	m	0	19	all	NAmer	1962	1986	CS	3	MothOnly	NoParent	current	never	1.37	?
BURCHF	14	f	0	19	all	NAmer	1962	1986	CS	3	MothOnly	NoParent	current	never	1.16	?
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	1.46	y
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	*	n
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	1.67	y
SCHENK	1	b	5	14	all	NAmer	1979	1983	CS	3	Mother	NotMothr	unspec	non	*	n
STAZI	7	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	*	n
STERN2	7	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	1.35	y
VONMAF	3	b	0	17	all	NAmer	1993	2001	CS	7	Mother	NotMothr	ever	never	*	y
ZEIGER	4	b	0	7	all	NAmer	1981	1995	Pr	4	Mother	NotMothr	unspec	non	*	n

Appendix Table A47 -

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Maternal exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : mother regardless of father, mother only
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : not mother, neither parent, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A7 - 1 are marked 'x' in Section -1) and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A47 - 1

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma
 Adjusted

REF	NRR	CompA7	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	27	x	b	6	7	all	Eu:Ita	1994	1999	CC	11	Mother	NotMothr	ever	never
AGABI2	27	x	b	13	14	all	Eu:Ita	1994	1999	CC	12	Mother	NotMothr	ever	never
ARSHAD	4	x	b	2	2	all	Eu:UK	1990	1992	Pr	0	Mother	NotMothr	unspec	non
CHEN2	47		b	6	17	all	NAmer	1993	1996	CS	1	Mother	NotMothr	ever	never
DAIGLE	3		b	0	*	all	NAmer	1986	1991	CC	7	Mother	NotMothr	unspec	non
GILLIL	36		b	7	19	all	NAmer	1993	2001	CS	8	MothOnly	NoHhMemb	current	non
GOLD	7		b	6	14	all	NAmer	1974	1993	Pr	11	Mother	NotMothr	ever	never
HJERN1	13		b	3	15	all	Eu:Sca	1996	2001	CS	9	Mother	NotMothr	ever	never
HU1	6		b	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non
HU2	2	x	b	20	22	all	NAmer	1986	1997	Pr	0	Mother	NotMothr	13-15y	non
INFANT	10		b	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non
JONES	2		b	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non
LAM1	20		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
MOUSSA	1		b	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCUO	2		b	3	15	all	As:ME	1986	1994	CC	0	Mother	NotMothr	unspec	non
RONMAR	1		b	7	8	all	Eu:Sca	1996	2002	Pr	5	Mother	NotMothr	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHOHAT	4		b	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non
SOTOQU	1		b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non
STANHO	1		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
STERN1	1		b	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non
STODDA	10		b	0	17	all	NAmer	1986	1995	CS	9	Mother	NotMothr	current	non
STRACH	9		b	13	18	all	Eu:UK	1993	1995	CC	4	Mother	NotMothr	current	non
TARIQ	12		b	4	4	all	Eu:UK	1989	2000	Pr	1	Mother	NotMothr	in life	non
TOMINA	2		b	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non
WILLE1	14	x	b	3	15	all	Eu:Sca	1988	1991	CC	1	Mother	NotMothr	current	non
ZHENG	26		b	6	10	all	As:FE	1999	2002	CC	0	Mother	NotMothr	in life	non

Appendix Table A47 - 2

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	27	b	11	556	-	375	-	1.30	(1.14- 1.49)
AGABI2	27	b	12	686	-	595	-	1.11	(0.98- 1.25)
ARSHAD	4	b	0	11	25	15	69	2.02	(0.82- 4.99)
CHEN2	47	b	1	37	-	37	-	1.11	(0.67- 1.83)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10- 3.47)
GILLIL	36	b	8	-	-	-	-	0.90	(0.50- 1.50)
GOLD	7	b	11	-	-	-	-	0.99	(0.83- 1.18)
HJERN1	13	b	9	61	-	58	-	0.72	(0.52- 1.01)
HU1	6	b	0	28	148	44	238	1.02	(0.61- 1.71)
HU2	2	b	0	-	-	-	-	1.60	(1.00- 2.40)
INFANT	10	b	19	183	-	273	-	1.40	(0.95- 2.05)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
LAM1	20	b	4	-	-	35	-	2.13	(0.72- 6.33)
MOUSSA	1	b	0	1	0	202	203	3.01~	(0.12- 74.44)
MUMCUO	2	b	0	0	4	300	96	0.04~	(0.00- 0.67)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12- 2.28)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95- 1.55)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14- 2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13- 1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63- 1.98)
STODDA	10	b	9	224	-	443	-	1.36	(1.14- 1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85- 1.79)
TARIQ	12	b	1	48	-	133	-	0.89	(0.57- 1.40)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
WILLE1	14	b	1	31	-	18	-	2.71	(1.27- 5.75)
ZHENG	26	b	0	13	13	390	793	2.03	(0.93- 4.43)
Partial Totals				2370	1536	4490	6127		

*prospective study ~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	27	b	11	0.26	214.34	1.19	0.0001
AGABI2	27	b	12	0.10	259.48	1.80	0.0927
ARSHAD	4	b	0	0.71	4.72	1.26	0.1257
CHEN2	47	b	1	0.10	15.22	0.11	0.6839
DAIGLE	3	b	7	0.67	11.64	2.74	0.0217
GILLIL	36	b	8	-0.11	12.73	1.09	0.7070
GOLD	7	b	11	-0.01	124.12	4.86	0.9108
HJERN1	13	b	9	-0.33	34.86	9.29	0.0524
HU1	6	b	0	0.02	14.41	0.39	0.9302
HU2	2	b	0	0.47	20.05	1.60	0.0353
INFANT	10	b	19	0.34	25.97	0.57	0.0864
JONES	2	b	0	0.16	9.47	0.01	0.6266
LAM1	20	b	4	0.76	3.25	1.05	0.1727
MOUSSA	1	b	0	1.10	0.37	0.31	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.54	0.0258
RONMAR	1	b	5	0.47	30.41	2.42	0.0095
SCHMIT	1	b	4	0.73	13.33	3.89	0.0079
SHOHAT	4	b	12	0.19	64.12	0.00	0.1269
SOTOQU	1	b	0	0.42	46.33	2.56	0.0040
STANHO	1	b	0	-1.02	3.66	5.35	0.0507
STERN1	1	b	0	0.11	11.71	0.07	0.7107
STODDA	10	b	9	0.31	124.44	1.78	0.0006
STRACH	9	b	4	0.21	27.70	0.01	0.2759
TARIQ	12	b	1	-0.12	19.03	1.76	0.6112
TOMINA	2	b	0	-1.06	1.84	2.85	0.1515
WILLE1	14	b	1	1.00	6.74	4.41	0.0097
ZHENG	26	b	0	0.71	6.34	1.73	0.0739

Appendix Table A47 - 2

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Current Asthma
 Adjusted

RR data

	N	27
	NS	27
	Wt	1106.74
Het	Chi	58.67
Het	df	26
Het	P	***
Fixed	RR	1.21
	RRl	1.14
	RRu	1.28
	P	+++
Random	RR	1.23
	RRl	1.10
	RRu	1.38
	P	+++
Asymm	P	N.S.

Appendix Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma
Adjusted

		UK	<u>Country in Europe</u>			Total
			Italy	Germany	Scand	
RR data	N	4	2	3	1	10
	NS	4	2	3	1	10
	Wt	60.92	473.82	72.01	13.33	620.09
	Het Chi	2.88	2.93	15.91	0.00	26.00
	Het df	3	1	2	0	9
	Het P	N.S.	(*)	***	N.S.	**
	Fixed RR	1.15	1.19	1.14	2.07	1.20
	RRl	0.89	1.09	0.91	1.21	1.11
	RRu	1.47	1.30	1.44	3.54	1.29
	P	N.S.	+++	N.S.	++	+++
	Random RR	1.15	1.20	1.38	2.07	1.25
	RRl	0.89	1.03	0.68	1.21	1.04
	RRu	1.47	1.40	2.82	3.54	1.49
	P	N.S.	+	N.S.	++	+
	Between Chi					4.28
	Between df					3
	Between P					N.S.

Country in Asia
FarEast Cent/SE MidlEast Total

	N	3	3	6
	NS	3	3	6
	Wt	11.43	64.94	76.37
	Het Chi	4.91	5.84	11.45
	Het df	2	2	5
	Het P	(*)	(*)	*
	Fixed RR	1.55	1.19	1.24
	RRl	0.87	0.93	0.99
	RRu	2.77	1.51	1.55
	P	N.S.	N.S.	(+)
	Random RR	1.32	0.60	1.15
	RRl	0.50	0.07	0.60
	RRu	3.50	5.12	2.20
	P	N.S.	N.S.	N.S.
	Between Chi			0.69
	Between df			1
	Between P			N.S.

Start year of study
<1970 1970-79 1980-89 1990+ unknown Total

	N	3	10	14	27
	NS	3	10	14	27
	Wt	129.62	279.69	697.43	1106.74
	Het Chi	5.52	17.59	20.39	58.67
	Het df	2	9	13	26
	Het P	(*)	*	(*)	***
	Fixed RR	0.95	1.42	1.18	1.21
	RRl	0.80	1.26	1.10	1.14
	RRu	1.13	1.60	1.27	1.28
	P	N.S.	+++	+++	+++
	Random RR	0.60	1.45	1.18	1.23
	RRl	0.27	1.19	1.05	1.10
	RRu	1.36	1.76	1.33	1.38
	P	N.S.	+++	++	+++
	Between Chi				15.17
	Between df				2
	Between P				***

Appendix Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure

Current Asthma
Adjusted

Publication year

	<1990	1990-94	1995-99	2000+	Total
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RR data

N	3	8	10	6	27
NS	3	8	10	6	27
Wt	17.20	233.31	688.74	167.49	1106.74
Het Chi	4.88	25.46	7.98	14.87	58.67
Het df	2	7	9	5	26
Het P	(*)	***	N.S.	*	***
Fixed RR	0.77	1.26	1.23	1.10	1.21
RR1	0.48	1.10	1.14	0.95	1.14
RRu	1.24	1.43	1.33	1.28	1.28
P	N.S.	+++	+++	N.S.	+++
Random RR	0.60	1.54	1.23	1.10	1.23
RR1	0.25	1.12	1.14	0.83	1.10
RRu	1.44	2.11	1.33	1.47	1.38
P	N.S.	++	+++	N.S.	+++
Between Chi					5.47
Between df					3
Between P					N.S.

Study type

	CC	Pr	CS	Total
--	----	----	----	-------

N	10	5	12	27
NS	10	5	12	27
Wt	562.52	198.33	345.90	1106.74
Het Chi	18.09	10.96	28.43	58.67
Het df	9	4	11	26
Het P	*	*	**	***
Fixed RR	1.23	1.13	1.21	1.21
RR1	1.13	0.98	1.09	1.14
RRu	1.34	1.29	1.35	1.28
P	+++	(+)	+++	+++
Random RR	1.33	1.26	1.13	1.23
RR1	1.12	0.94	0.93	1.10
RRu	1.58	1.68	1.39	1.38
P	++	N.S.	N.S.	+++
Between Chi				1.19
Between df				2
Between P				N.S.

Highest age in RR

	0-9	10-14	15+	unknown	Total
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N	6	6	14	1	27
NS	6	6	14	1	27
Wt	296.31	480.18	318.61	11.64	1106.74
Het Chi	8.31	4.45	36.04	0.00	58.67
Het df	5	5	13	0	26
Het P	N.S.	N.S.	***	N.S.	***
Fixed RR	1.30	1.10	1.27	1.96	1.21
RR1	1.16	1.00	1.14	1.10	1.14
RRu	1.46	1.20	1.42	3.48	1.28
P	+++	+	+++	+	+++
Random RR	1.29	1.10	1.24	1.96	1.23
RR1	1.05	1.00	0.99	1.10	1.10
RRu	1.59	1.20	1.56	3.48	1.38
P	+	+	(+)	+	+++
Between Chi					9.87
Between df					3
Between P					*

Appendix Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Current Asthma
 Adjusted

Population setting
 general school medical allergy other Total

RR data

N	4	16	6	1	27
NS	4	16	6	1	27
Wt	193.55	852.36	56.11	4.72	1106.74
Het Chi	12.41	28.32	14.05	0.00	58.67
Het df	3	15	5	0	26
Het P	**	*	*	N.S.	***
Fixed RR	1.14	1.20	1.46	2.02	1.21
RR1	0.99	1.12	1.13	0.82	1.14
RRu	1.32	1.29	1.90	4.99	1.28
P	(+)	+++	++	N.S.	+++
Random RR	1.01	1.25	1.30	2.02	1.23
RR1	0.71	1.11	0.77	0.82	1.10
RRu	1.42	1.40	2.19	4.99	1.38
P	N.S.	+++	N.S.	N.S.	+++
Between Chi					3.89
Between df					3
Between P					N.S.

Respondent for smoking
 child parent med rec mix/oth Total

N	3	15		9	27
NS	3	15		9	27
Wt	71.02	715.53		320.19	1106.74
Het Chi	6.32	33.03		19.15	58.67
Het df	2	14		8	26
Het P	*	**		*	***
Fixed RR	1.17	1.22		1.19	1.21
RR1	0.92	1.13		1.07	1.14
RRu	1.47	1.31		1.33	1.28
P	N.S.	+++		++	+++
Random RR	1.01	1.26		1.23	1.23
RR1	0.45	1.09		0.98	1.10
RRu	2.24	1.46		1.54	1.38
P	N.S.	++		(+)	+++
Between Chi					0.16
Between df					2
Between P					N.S.

Child smokers
 exc/none included ignored Total

N	4	7	16	27
NS	4	7	16	27
Wt	233.98	446.99	425.77	1106.74
Het Chi	8.29	9.95	35.32	58.67
Het df	3	6	15	26
Het P	*	N.S.	**	***
Fixed RR	1.26	1.11	1.29	1.21
RR1	1.11	1.01	1.17	1.14
RRu	1.43	1.22	1.41	1.28
P	+++	+	+++	+++
Random RR	1.03	1.16	1.29	1.23
RR1	0.63	0.99	1.08	1.10
RRu	1.69	1.37	1.52	1.38
P	N.S.	(+)	++	+++
Between Chi				5.11
Between df				2
Between P				(*)

Appendix Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma
 Adjusted

Physician diagnosis (current)
 yes no/mix Total

RR data

N	11	16	27
NS	11	16	27
Wt	124.62	982.13	1106.74
Het Chi	30.97	27.67	58.67
Het df	10	15	26
Het P	***	*	***
Fixed RR	1.22	1.20	1.21
RRl	1.02	1.13	1.14
RRu	1.46	1.28	1.28
P	+	+++	+++
Random RR	1.31	1.22	1.23
RRl	0.91	1.10	1.10
RRu	1.87	1.35	1.38
P	N.S.	+++	+++
Between Chi			0.02
Between df			1
Between P			N.S.

Respondent for diagnosis (current)
 medrec parent child mixed Total

N	8	13	6	27
NS	8	13	6	27
Wt	61.20	905.20	140.35	1106.74
Het Chi	14.69	23.27	15.60	58.67
Het df	7	12	5	26
Het P	*	*	**	***
Fixed RR	1.51	1.21	1.07	1.21
RRl	1.17	1.13	0.91	1.14
RRu	1.94	1.29	1.26	1.28
P	++	+++	N.S.	+++
Random RR	1.44	1.24	1.04	1.23
RRl	0.93	1.11	0.74	1.10
RRu	2.22	1.38	1.47	1.38
P	N.S.	+++	N.S.	+++
Between Chi				5.12
Between df				2
Between P				(*)

Questionnaire for symptoms
 ISAAC ATS other Total

N	7	2	18	27
NS	7	2	18	27
Wt	616.80	135.83	354.11	1106.74
Het Chi	7.52	0.15	44.96	58.67
Het df	6	1	17	26
Het P	N.S.	N.S.	***	***
Fixed RR	1.22	1.00	1.28	1.21
RRl	1.12	0.85	1.15	1.14
RRu	1.32	1.18	1.42	1.28
P	+++	N.S.	+++	+++
Random RR	1.23	1.00	1.25	1.23
RRl	1.11	0.85	1.02	1.10
RRu	1.36	1.18	1.54	1.38
P	+++	N.S.	+	+++
Between Chi				6.05
Between df				2
Between P				*

Appendix Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure

Current Asthma

Adjusted

Number of cases (current asthma)

1-50 51-100 101-200 201+ unknown Total

RR data

N	4	6	5	12	27
NS	4	6	5	12	27
Wt	26.82	57.52	115.99	906.41	1106.74
Het Chi	10.86	8.15	17.68	21.46	58.67
Het df	3	5	4	11	26
Het P	*	N.S.	**	*	***
Fixed RR	1.33	1.27	1.17	1.20	1.21
RRl	0.91	0.98	0.97	1.13	1.14
RRu	1.94	1.64	1.40	1.29	1.28
P	N.S.	(+)	(+)	+++	+++
Random RR	1.27	1.25	1.24	1.22	1.23
RRl	0.60	0.88	0.84	1.10	1.10
RRu	2.70	1.78	1.83	1.37	1.38
P	N.S.	N.S.	N.S.	+++	+++
Between Chi					0.51
Between df					3
Between P					N.S.

Study adjusts for or is matched on sex

Yes No Total

N	22	5	27
NS	22	5	27
Wt	1036.47	70.27	1106.74
Het Chi	43.35	14.17	58.67
Het df	21	4	26
Het P	**	**	***
Fixed RR	1.20	1.37	1.21
RRl	1.13	1.08	1.14
RRu	1.27	1.73	1.28
P	+++	++	+++
Random RR	1.22	1.08	1.23
RRl	1.10	0.61	1.10
RRu	1.37	1.93	1.38
P	+++	N.S.	+++
Between Chi			1.15
Between df			1
Between P			N.S.

Study adjusts for or is matched on age

N	16	11	27
NS	16	11	27
Wt	883.74	223.00	1106.74
Het Chi	35.64	21.32	58.67
Het df	15	10	26
Het P	**	*	***
Fixed RR	1.18	1.30	1.21
RRl	1.11	1.14	1.14
RRu	1.26	1.49	1.28
P	+++	+++	+++
Random RR	1.21	1.27	1.23
RRl	1.06	1.02	1.10
RRu	1.38	1.58	1.38
P	++	+	+++
Between Chi			1.70
Between df			1
Between P			N.S.

Appendix Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma
Adjusted

Study adjusts for or is matched on race
 Yes No Total

RR data

N	7	20	27
NS	7	20	27
Wt	366.21	740.54	1106.74
Het Chi	11.33	47.16	58.67
Het df	6	19	26
Het P	(*)	***	***
Fixed RR	1.18	1.22	1.21
RRl	1.07	1.13	1.14
RRu	1.31	1.31	1.28
P	++	+++	+++
Random RR	1.20	1.25	1.23
RRl	1.02	1.07	1.10
RRu	1.42	1.46	1.38
P	+	++	+++
Between Chi			0.18
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	12	15	27
NS	12	15	27
Wt	921.88	184.86	1106.74
Het Chi	29.02	26.03	58.67
Het df	11	14	26
Het P	**	*	***
Fixed RR	1.18	1.37	1.21
RRl	1.10	1.19	1.14
RRu	1.25	1.58	1.28
P	+++	+++	+++
Random RR	1.17	1.35	1.23
RRl	1.03	1.09	1.10
RRu	1.33	1.67	1.38
P	+	++	+++
Between Chi			3.61
Between df			1
Between P			(*)

Study adjusts for or is matched on SES

N	13	14	27
NS	13	14	27
Wt	922.13	184.62	1106.74
Het Chi	29.01	26.99	58.67
Het df	12	13	26
Het P	**	*	***
Fixed RR	1.18	1.35	1.21
RRl	1.11	1.17	1.14
RRu	1.26	1.56	1.28
P	+++	+++	+++
Random RR	1.19	1.27	1.23
RRl	1.06	1.00	1.10
RRu	1.35	1.61	1.38
P	++	+	+++
Between Chi			2.67
Between df			1
Between P			N.S.

Appendix Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Current Asthma
 Adjusted

Study adjusts for family medical history

Yes No Total

RR data

N	12	15	27
NS	12	15	27
Wt	788.13	318.62	1106.74
Het Chi	19.18	38.22	58.67
Het df	11	14	26
Het P	(*)	***	***
Fixed RR	1.18	1.27	1.21
RRl	1.10	1.14	1.14
RRu	1.27	1.42	1.28
P	+++	+++	+++
Random RR	1.21	1.22	1.23
RRl	1.08	0.97	1.10
RRu	1.35	1.53	1.38
P	++	(+)	+++
Between Chi			1.27
Between df			1
Between P			N.S.

Study adjusts for family composition

N	5	22	27
NS	5	22	27
Wt	362.76	743.98	1106.74
Het Chi	13.76	41.52	58.67
Het df	4	21	26
Het P	**	**	***
Fixed RR	1.11	1.25	1.21
RRl	1.01	1.17	1.14
RRu	1.24	1.35	1.28
P	+	+++	+++
Random RR	1.07	1.31	1.23
RRl	0.87	1.15	1.10
RRu	1.32	1.50	1.38
P	N.S.	+++	+++
Between Chi			3.39
Between df			1
Between P			(*)

Study adjusts for cooking, heating, air conditioning

N	7	20	27
NS	7	20	27
Wt	676.60	430.14	1106.74
Het Chi	14.82	43.21	58.67
Het df	6	19	26
Het P	*	**	***
Fixed RR	1.18	1.24	1.21
RRl	1.10	1.13	1.14
RRu	1.28	1.37	1.28
P	+++	+++	+++
Random RR	1.24	1.20	1.23
RRl	1.08	1.01	1.10
RRu	1.44	1.43	1.38
P	++	+	+++
Between Chi			0.64
Between df			1
Between P			N.S.

Appendix Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Current Asthma
 Adjusted

Study adjusts for housing quality, crowding, damp, mould
 Yes No Total

RR data

	N	7	20	27
	NS	7	20	27
	Wt	637.25	469.50	1106.74
Het	Chi	6.05	52.47	58.67
Het	df	6	19	26
Het	P	N.S.	***	***
Fixed	RR	1.22	1.19	1.21
	RRl	1.13	1.09	1.14
	RRu	1.32	1.30	1.28
	P	+++	+++	+++
Random	RR	1.22	1.23	1.23
	RRl	1.13	1.02	1.10
	RRu	1.32	1.48	1.38
	P	+++	+	+++
Between	Chi			0.14
Between	df			1
Between	P			N.S.

Study adjusts for pets, animal contact, farming

	N	6	21	27
	NS	6	21	27
	Wt	155.89	950.86	1106.74
Het	Chi	7.33	49.67	58.67
Het	df	5	20	26
Het	P	N.S.	***	***
Fixed	RR	1.33	1.19	1.21
	RRl	1.13	1.11	1.14
	RRu	1.55	1.27	1.28
	P	+++	+++	+++
Random	RR	1.35	1.20	1.23
	RRl	1.10	1.05	1.10
	RRu	1.66	1.37	1.38
	P	++	++	+++
Between	Chi			1.66
Between	df			1
Between	P			N.S.

Study adjusts for child's medical history

	N	8	19	27
	NS	8	19	27
	Wt	126.06	980.68	1106.74
Het	Chi	10.34	46.80	58.67
Het	df	7	18	26
Het	P	N.S.	***	***
Fixed	RR	1.34	1.19	1.21
	RRl	1.12	1.12	1.14
	RRu	1.59	1.27	1.28
	P	++	+++	+++
Random	RR	1.34	1.20	1.23
	RRl	1.08	1.05	1.10
	RRu	1.67	1.37	1.38
	P	++	++	+++
Between	Chi			1.53
Between	df			1
Between	P			N.S.

Appendix Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Current Asthma
 Adjusted

Study adjusts for in utero exposure
 Yes No Total

RR data

N	5	22	27
NS	5	22	27
Wt	519.99	586.75	1106.74
Het Chi	5.65	51.90	58.67
Het df	4	21	26
Het P	N.S.	***	***
Fixed RR	1.17	1.24	1.21
RRl	1.07	1.15	1.14
RRu	1.27	1.35	1.28
P	+++	+++	+++
Random RR	1.15	1.30	1.23
RRl	1.01	1.11	1.10
RRu	1.30	1.51	1.38
P	+	+++	+++
Between Chi			1.12
Between df			1
Between P			N.S.

Study adjusts for in life exposure

N	11	16	27
NS	11	16	27
Wt	757.62	349.13	1106.74
Het Chi	16.72	41.01	58.67
Het df	10	15	26
Het P	(*)	***	***
Fixed RR	1.23	1.16	1.21
RRl	1.15	1.04	1.14
RRu	1.32	1.28	1.28
P	+++	++	+++
Random RR	1.25	1.20	1.23
RRl	1.12	0.97	1.10
RRu	1.40	1.48	1.38
P	+++	(+)	+++
Between Chi			0.94
Between df			1
Between P			N.S.

Exposed group : Who is smoker

Mother MothOnly Total

N	26	1	27
NS	26	1	27
Wt	1094.01	12.73	1106.74
Het Chi	57.56	0.00	58.67
Het df	25	0	26
Het P	***	N.S.	***
Fixed RR	1.21	0.90	1.21
RRl	1.14	0.52	1.14
RRu	1.28	1.56	1.28
P	+++	N.S.	+++
Random RR	1.25	0.90	1.23
RRl	1.11	0.52	1.10
RRu	1.40	1.56	1.38
P	+++	N.S.	+++
Between Chi			1.11
Between df			1
Between P			N.S.

Appendix Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma
Adjusted

Exposed group : when Exposed
lif/ev age<7y current unspec other Total

RR data

N	8		7	11	1	27
NS	8		7	11	1	27
Wt	699.38		236.01	151.31	20.05	1106.74
Het Chi	18.01		13.69	17.19	0.00	58.67
Het df	7		6	10	0	26
Het P	*		*	(*)	N.S.	***
Fixed RR	1.13		1.32	1.39	1.60	1.21
RR1	1.05		1.16	1.18	1.03	1.14
RRu	1.21		1.50	1.63	2.48	1.28
P	++		+++	+++	+	+++
Random RR	1.10		1.25	1.42	1.60	1.23
RR1	0.95		0.98	1.10	1.03	1.10
RRu	1.27		1.58	1.84	2.48	1.38
P	N.S.		(+)	++	+	+++
Between Chi						9.78
Between df						3
Between P						*

Unexposed group : who is smoker
NoHhMemb NoParent NotSpPar Total

N	3		24	27
NS	3		24	27
Wt	17.82		1088.92	1106.74
Het Chi	4.02		53.65	58.67
Het df	2		23	26
Het P	N.S.		***	***
Fixed RR	0.95		1.21	1.21
RR1	0.60		1.14	1.14
RRu	1.52		1.29	1.28
P	N.S.		+++	+++
Random RR	0.95		1.25	1.23
RR1	0.43		1.11	1.10
RRu	2.11		1.40	1.38
P	N.S.		+++	+++
Between Chi				0.99
Between df				1
Between P				N.S.

Unexposed group : time
non never non+othr Total

N	22	5	27
NS	22	5	27
Wt	458.72	648.03	1106.74
Het Chi	36.08	13.48	58.67
Het df	21	4	26
Het P	*	**	***
Fixed RR	1.34	1.12	1.21
RR1	1.23	1.04	1.14
RRu	1.47	1.21	1.28
P	+++	++	+++
Random RR	1.34	1.06	1.23
RR1	1.16	0.90	1.10
RRu	1.54	1.25	1.38
P	+++	N.S.	+++
Between Chi			9.11
Between df			1
Between P			**

Appendix Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma
Adjusted

		<u>Number of adjustment variables</u>						
		0	1	2	3-5	6-9	10+	Total
RR data	N	11	3		4	4	5	27
	NS	11	3		4	4	5	27
	Wt	119.35	40.99		74.70	183.68	688.04	1106.74
Het	Chi	20.71	6.22		2.95	14.90	7.44	58.67
Het	df	10	2		3	3	4	26
Het	P	*	*		N.S.	**	N.S.	***
Fixed	RR	1.32	1.16		1.54	1.20	1.16	1.21
	RRl	1.10	0.85		1.23	1.04	1.08	1.14
	RRu	1.58	1.58		1.93	1.39	1.25	1.28
	P	++	N.S.		+++	+	+++	+++
Random	RR	1.19	1.29		1.54	1.13	1.16	1.23
	RRl	0.87	0.73		1.23	0.75	1.04	1.10
	RRu	1.62	2.27		1.93	1.70	1.30	1.38
	P	N.S.	N.S.		+++	N.S.	++	+++
Between	Chi							6.45
Between	df							4
Between	P							N.S.

RR adjusted for sex

		Yes	No	Total
	N	13	14	27
	NS	13	14	27
	Wt	946.41	160.33	1106.74
Het	Chi	30.62	27.44	58.67
Het	df	12	13	26
Het	P	**	*	***
Fixed	RR	1.19	1.28	1.21
	RRl	1.12	1.09	1.14
	RRu	1.27	1.49	1.28
	P	+++	++	+++
Random	RR	1.22	1.21	1.23
	RRl	1.08	0.94	1.10
	RRu	1.38	1.57	1.38
	P	++	N.S.	+++
Between	Chi			0.61
Between	df			1
Between	P			N.S.

RR adjusted for age

	N	11	16	27
	NS	11	16	27
	Wt	851.89	254.86	1106.74
Het	Chi	27.91	29.12	58.67
Het	df	10	15	26
Het	P	**	*	***
Fixed	RR	1.18	1.29	1.21
	RRl	1.10	1.14	1.14
	RRu	1.26	1.46	1.28
	P	+++	+++	+++
Random	RR	1.20	1.26	1.23
	RRl	1.05	1.03	1.10
	RRu	1.38	1.53	1.38
	P	++	+	+++
Between	Chi			1.64
Between	df			1
Between	P			N.S.

Appendix Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma
Adjusted

RR adjusted for other ETS
Yes No Total

RR data

N	7	20	27
NS	7	20	27
Wt	714.12	392.63	1106.74
Het Chi	11.30	46.71	58.67
Het df	6	19	26
Het P	(*)	***	***
Fixed RR	1.23	1.17	1.21
RRl	1.14	1.06	1.14
RRu	1.32	1.29	1.28
P	+++	++	+++
Random RR	1.25	1.22	1.23
RRl	1.11	1.01	1.10
RRu	1.40	1.47	1.38
P	+++	+	+++
Between Chi			0.66
Between df			1
Between P			N.S.

RR adjusted for factor other than sex, age, other ETS

N	14	13	27
NS	14	13	27
Wt	961.63	145.11	1106.74
Het Chi	30.70	27.10	58.67
Het df	13	12	26
Het P	**	**	***
Fixed RR	1.19	1.30	1.21
RRl	1.12	1.10	1.14
RRu	1.27	1.53	1.28
P	+++	++	+++
Random RR	1.22	1.22	1.23
RRl	1.08	0.92	1.10
RRu	1.37	1.62	1.38
P	+++	N.S.	+++
Between Chi			0.86
Between df			1
Between P			N.S.

Derivation of RR/CI

	Original	Numbers	SumNumbs	Other	Total
N	6	7	3	11	27
NS	6	7	3	11	27
Wt	236.23	99.72	37.91	732.89	1106.74
Het Chi	5.72	7.00	3.74	31.39	58.67
Het df	5	6	2	10	26
Het P	N.S.	N.S.	N.S.	***	***
Fixed RR	1.34	1.45	0.89	1.16	1.21
RRl	1.18	1.19	0.65	1.07	1.14
RRu	1.52	1.77	1.23	1.24	1.28
P	+++	+++	N.S.	+++	+++
Random RR	1.34	1.45	0.84	1.17	1.23
RRl	1.16	1.16	0.52	0.98	1.10
RRu	1.56	1.82	1.34	1.38	1.38
P	+++	++	N.S.	(+)	+++
Between Chi					10.81
Between df					3
Between P					*

Appendix Table A47 - 4

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Current Asthma
 Unadjusted

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	19	x	b	6	7	all	Eu:Ita	1994	1999	CC	0	Mother	NotMothr	ever	never
AGABI2	19	x	b	13	14	all	Eu:Ita	1994	1999	CC	0	Mother	NotMothr	ever	never
ARSHAD	4		b	2	2	all	Eu:UK	1990	1992	Pr	0	Mother	NotMothr	unspec	non
CHEN2	21	x	b	6	17	all	NAmer	1993	1996	CS	0	Mother	NotMothr	ever	never
DAIGLE	1	x	b	0	*	all	NAmer	1986	1991	CC	0	Mother	NotMothr	unspec	non
GILLIL	36		b	7	19	all	NAmer	1993	2001	CS	8	MothOnly	NoHhMemb	current	non
GOLD	7		b	6	14	all	NAmer	1974	1993	Pr	11	Mother	NotMothr	ever	never
HJERN1	5	x	b	3	15	all	Eu:Sca	1996	2001	CS	0	Mother	NotMothr	ever	never
HU1	6		b	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non
HU2	2		b	20	22	all	NAmer	1986	1997	Pr	0	Mother	NotMothr	13-15y	non
INFANT	3	x	b	3	4	all	NAmer	1988	1993	CC	0	Mother	NotMothr	in life	non
JONES	2		b	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non
LAM1	20		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
MOUSSA	1		b	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCUO	2		b	3	15	all	As:ME	1986	1994	CC	0	Mother	NotMothr	unspec	non
RONMAR	1		b	7	8	all	Eu:Sca	1996	2002	Pr	5	Mother	NotMothr	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHOHAT	2	x	b	13	14	all	As:ME	1997	2002	CS	0	Mother	NotMothr	unspec	non
SOTOQU	1		b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non
STANHO	1		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
STERN1	1		b	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non
STODDA	5	x	b	0	17	all	NAmer	1986	1995	CS	0	Mother	NotMothr	current	non
STRACH	3	x	b	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	current	non
TARIQ	10	x	b	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	NotMothr	in life	non
TOMINA	2		b	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non
WILLE1	11	x	b	3	15	all	Eu:Sca	1988	1991	CC	0	Mother	NotMothr	current	non
ZHENG	26		b	6	10	all	As:FE	1999	2002	CC	0	Mother	NotMothr	in life	non

Appendix Table A47 - 5

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	19	b	0	556	7715	375	6855	1.32	(1.15- 1.51)
AGABI2	19	b	0	686	7308	595	7581	1.20	(1.07- 1.34)
ARSHAD	4	b	0	11	25	15	69	2.02	(0.82- 4.99)
CHEN2	21	b	0	37	392	37	426	1.09	(0.68- 1.75)
DAIGLE	1	b	0	51	72	86	174	1.43	(0.92- 2.23)
GILLIL	36	b	8	-	-	-	-	0.90	(0.50- 1.50)
GOLD	7	b	11	-	-	-	-	0.99	(0.83- 1.18)
HJERN1	5	b	0	61	1346	58	1078	0.84	(0.58- 1.22)
HU1	6	b	0	28	148	44	238	1.02	(0.61- 1.71)
HU2	2	b	0	-	-	-	-	1.60	(1.00- 2.40)
INFANT	3	b	0	183	167	273	289	1.16	(0.89- 1.52)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
LAM1	20	b	4	-	-	35	-	2.13	(0.72- 6.33)
MOUSSA	1	b	0	1	0	202	203	3.01~	(0.12- 74.44)
MUMCUO	2	b	0	0	4	300	96	0.04~	(0.00- 0.67)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12- 2.28)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SHOHAT	2	b	0	187	1762	493	7207	1.55	(1.30- 1.85)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14- 2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13- 1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63- 1.98)
STODDA	5	b	0	224	1779	443	4826	1.37	(1.16- 1.63)
STRACH	3	b	0	122	93	364	382	1.38	(1.01- 1.87)
TARIQ	10	b	0	48	259	133	778	1.08	(0.76- 1.55)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
WILLE1	11	b	0	31	31	18	46	2.56	(1.22- 5.35)
ZHENG	26	b	0	13	13	390	793	2.03	(0.93- 4.43)
Partial Totals				2370	22460	4490	35769		

*prospective study ~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	19	b	0	0.28	210.94	0.33	0.0001
AGABI2	19	b	0	0.18	293.50	0.96	0.0022
ARSHAD	4	b	0	0.71	4.72	1.04	0.1257
CHEN2	21	b	0	0.08	16.96	0.40	0.7319
DAIGLE	1	b	0	0.36	19.66	0.30	0.1106
GILLIL	36	b	8	-0.11	12.73	1.49	0.7070
GOLD	7	b	11	-0.01	124.12	7.53	0.9108
HJERN1	5	b	0	-0.17	28.32	4.71	0.3611
HU1	6	b	0	0.02	14.41	0.65	0.9302
HU2	2	b	0	0.47	20.05	1.10	0.0353
INFANT	3	b	0	0.15	53.83	0.41	0.2761
JONES	2	b	0	0.16	9.47	0.06	0.6266
LAM1	20	b	4	0.76	3.25	0.88	0.1727
MOUSSA	1	b	0	1.10	0.37	0.28	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.70	0.0258
RONMAR	1	b	5	0.47	30.41	1.66	0.0095
SCHMIT	1	b	4	0.73	13.33	3.22	0.0079
SHOHAT	2	b	0	0.44	123.73	5.10	0.0000
SOTOQU	1	b	0	0.42	46.33	1.61	0.0040
STANHO	1	b	0	-1.02	3.66	5.79	0.0507
STERN1	1	b	0	0.11	11.71	0.19	0.7107
STODDA	5	b	0	0.32	133.49	0.85	0.0003
STRACH	3	b	0	0.32	41.13	0.29	0.0403
TARIQ	10	b	0	0.08	29.85	0.72	0.6591
TOMINA	2	b	0	-1.06	1.84	3.08	0.1515
WILLE1	11	b	0	0.94	7.05	3.48	0.0127
ZHENG	26	b	0	0.71	6.34	1.42	0.0739

Appendix Table A47 - 5

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Current Asthma
 Unadjusted

RR data

	N	27
	NS	27
	Wt	1261.67
Het	Chi	53.23
Het	df	26
Het	P	**
Fixed	RR	1.27
	RRl	1.20
	RRu	1.34
	P	+++
Random	RR	1.27
	RRl	1.15
	RRu	1.41
	P	+++
Asymm	P	N.S.

Appendix Table A47 - 6

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Current Asthma
 Unadjusted

RR data

	N	27					
	NS	27					
	Wt	1261.67					
Het	Chi	53.23					
Het	df	26					
Het	P	**					
Fixed	RR	1.27					
	RR1	1.20					
	RRu	1.34					
	P	+++					
Random	RR	1.27					
	RR1	1.15					
	RRu	1.41					
	P	+++					
Asymm	P	N.S.					
			<u>Sex</u>				
	both		male	female		Total	
	N	27				27	
	NS	27				27	
	Wt	1261.67				1261.67	
Het	Chi	53.23				53.23	
Het	df	26				26	
Het	P	**				**	
Fixed	RR	1.27				1.27	
	RR1	1.20				1.20	
	RRu	1.34				1.34	
	P	+++				+++	
Random	RR	1.27				1.27	
	RR1	1.15				1.15	
	RRu	1.41				1.41	
	P	+++				+++	
Between	Chi						
Between	df						
Between	P					N.S.	
			<u>Continent</u>				
	NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	9	1	10	6	1	27
	NS	9	1	10	6	1	27
	Wt	406.97	46.33	668.73	135.98	3.66	1261.67
Het	Chi	10.85	0.00	16.46	11.42	0.00	53.23
Het	df	8	0	9	5	0	26
Het	P	N.S.	N.S.	(*)	*	N.S.	**
Fixed	RR	1.18	1.53	1.26	1.54	0.36	1.27
	RR1	1.07	1.14	1.17	1.30	0.13	1.20
	RRu	1.30	2.04	1.36	1.82	1.00	1.34
	P	+++	++	+++	+++	(-)	+++
Random	RR	1.18	1.53	1.30	1.26	0.36	1.27
	RR1	1.04	1.14	1.14	0.67	0.13	1.15
	RRu	1.34	2.04	1.49	2.39	1.00	1.41
	P	+	++	+++	N.S.	(-)	+++
Between	Chi						14.50
Between	df						4
Between	P						**

Appendix Table A47 - 6

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Current Asthma
 Unadjusted

Start year of study
 <1970 1970-79 1980-89 1990+ unknown Total

RR data

	N	3	10	14		27
	NS	3	10	14		27
	Wt	129.62	335.76	796.29		1261.67
Het	Chi	5.52	15.65	19.08		53.23
Het	df	2	9	13		26
Het	P	(*)	(*)	N.S.		**
Fixed	RR	0.95	1.37	1.29		1.27
	RRl	0.80	1.23	1.20		1.20
	RRu	1.13	1.52	1.38		1.34
	P	N.S.	+++	+++		+++
Random	RR	0.60	1.39	1.29		1.27
	RRl	0.27	1.18	1.16		1.15
	RRu	1.36	1.63	1.44		1.41
	P	N.S.	+++	+++		+++
Between	Chi					12.99
Between	df					2
Between	P					**

Study type
 CC Pr CS Total

	N	10	5	12	27
	NS	10	5	12	27
	Wt	642.75	209.15	409.77	1261.67
Het	Chi	13.22	9.89	26.72	53.23
Het	df	9	4	11	26
Het	P	N.S.	*	**	**
Fixed	RR	1.26	1.14	1.34	1.27
	RRl	1.17	1.00	1.21	1.20
	RRu	1.37	1.31	1.47	1.34
	P	+++	(+)	+++	+++
Random	RR	1.29	1.28	1.21	1.27
	RRl	1.14	0.99	1.01	1.15
	RRu	1.47	1.66	1.46	1.41
	P	+++	(+)	+	+++
Between	Chi				3.40
Between	df				2
Between	P				N.S.

Appendix Table A47 - 7

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	AZIZI	CALL	CHHABR	CHINN	CLARK	DEKKER	DIJKST	DOTTER	FAGBUL	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GUPTA
	HJERN2	HOST	HUGHES	JAAKKO	KALYO1	KALYO2	KARUNA	KNIGHT	LAM2	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	MELIA
	MELSOM	NHANE3	NITTA	OHARA	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SELCHUK	SOMERV	WANG	WILLE2	WOLFO1	WOLFO2	WOLFO3
	YANG															
3	BALL	BERGMA	CSONKA	EHRLI1	HABY	OLIVET	WEITZ1	WEITZ2								
5	CUNNI1	DEKOK	LOPEZC	MCCON2	MOHAME	STERN2										

Appendix Table A47 - 8

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP	
GILLIL	GILLIL	1	MCCON1/GILLIL	
HJERN1	HJERN1	1	HJERN1/HJERN2	
STERN1	STERN1	1	STERN1/STERN2	

Adjusted - insufficient data for metaanalysis														RR	SIG	
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI		
ARSHAD	5	b	2	2	all	Eu:UK	1990	1992	Pr	8	Mother	NotMothr	unspec	non	*	n
CUNNI1	11	b	8	11	all	NAmer	1988	1996	CS	9	Mother	NotMothr	current	non	0.84	?
DEKOK	1	b	6	12	all	Eu:wst	1993	1996	CS	6	Mother	NotMothr	unspec	non	*	n
LOPEZC	3	b	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	1.06	n
MCCON2	4	b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non	*	n
MOHAME	2	b	9	11	all	Africa	1990	1995	CC	0	Mother	NotMothr	unspec	non	*	n
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	0.98	n
STRACH	15	b	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	<1m	non	*	y

Appendix Table A48 -

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Maternal exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : mother regardless of father, mother only
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : none in household, neither parent, not mother
- 9) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group
and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3
(and those which actually differ from the adjusted results in Appendix Table A47 - 1 are marked 'x' in Section -1)
(Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A48 - 1

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma
 Adjusted

REF	NRR	CompA47	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	27		b	6	7	all	Eu:Ita	1994	1999	CC	11	Mother	NotMothr	ever	never
AGABI2	27		b	13	14	all	Eu:Ita	1994	1999	CC	12	Mother	NotMothr	ever	never
ARSHAD	4		b	2	2	all	Eu:UK	1990	1992	Pr	0	Mother	NotMothr	unspec	non
CHEN2	47		b	6	17	all	NAmer	1993	1996	CS	1	Mother	NotMothr	ever	never
DAIGLE	3		b	0	*	all	NAmer	1986	1991	CC	7	Mother	NotMothr	unspec	non
GILLIL	36		b	7	19	all	NAmer	1993	2001	CS	8	MothOnly	NoHhMemb	current	non
GOLD	7		b	6	14	all	NAmer	1974	1993	Pr	11	Mother	NotMothr	ever	never
HJERN1	13		b	3	15	all	Eu:Sca	1996	2001	CS	9	Mother	NotMothr	ever	never
HU1	6		b	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	current	non
HU2	2		b	20	22	all	NAmer	1986	1997	Pr	0	Mother	NotMothr	13-15y	non
INFANT	10		b	3	4	all	NAmer	1988	1993	CC	19	Mother	NotMothr	in life	non
JONES	2		b	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	unspec	non
LAM1	20		b	12	15	all	As:FE	1994	1998	CS	4	Mother	NoHhMemb	unspec	non
MOUSSA	1		b	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCUO	2		b	3	15	all	As:ME	1986	1994	CC	0	Mother	NotMothr	unspec	non
RONMAR	1		b	7	8	all	Eu:Sca	1996	2002	Pr	5	Mother	NotMothr	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHOHAT	4		b	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non
SOTOQU	1		b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non
STANHO	1		b	12	18	all	Auslia	1975	1979	CS	0	Mother	NotMothr	current	non
STERN1	1		b	7	12	all	NAmer	1983	1989	CS	0	Mother	NotMothr	unspec	non
STODDA	10		b	0	17	all	NAmer	1986	1995	CS	9	Mother	NotMothr	current	non
STRACH	9		b	13	18	all	Eu:UK	1993	1995	CC	4	Mother	NotMothr	current	non
TARIQ	12		b	4	4	all	Eu:UK	1989	2000	Pr	1	Mother	NotMothr	in life	non
TOMINA	2		b	3	3	all	As:FE	1978	1985	CS	0	Mother	NoHhMemb	unspec	non
WILLE1	6	x	b	3	15	all	Eu:Sca	1988	1991	CC	0	Mother	NoParent	current	non
ZHENG	26		b	6	10	all	As:FE	1999	2002	CC	0	Mother	NotMothr	in life	non

Appendix Table A48 - 2

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	27	b	11	556	-	375	-	1.30	(1.14- 1.49)
AGABI2	27	b	12	686	-	595	-	1.11	(0.98- 1.25)
ARSHAD	4	b	0	11	25	15	69	2.02	(0.82- 4.99)
CHEN2	47	b	1	37	-	37	-	1.11	(0.67- 1.83)
DAIGLE	3	b	7	51	-	86	-	1.96	(1.10- 3.47)
GILLIL	36	b	8	-	-	-	-	0.90	(0.50- 1.50)
GOLD	7	b	11	-	-	-	-	0.99	(0.83- 1.18)
HJERN1	13	b	9	61	-	58	-	0.72	(0.52- 1.01)
HU1	6	b	0	28	148	44	238	1.02	(0.61- 1.71)
HU2	2	b	0	-	-	-	-	1.60	(1.00- 2.40)
INFANT	10	b	19	183	-	273	-	1.40	(0.95- 2.05)
JONES	2	b	0	27	24	73	76	1.17	(0.62- 2.21)
LAM1	20	b	4	-	-	35	-	2.13	(0.72- 6.33)
MOUSSA	1	b	0	1	0	202	203	3.01~	(0.12- 74.44)
MUMCUO	2	b	0	0	4	300	96	0.04~	(0.00- 0.67)
RONMAR	1	b	5	-	-	-	-	1.60	(1.12- 2.28)
SCHMIT	1	b	4	-	-	-	-	2.07	(1.21- 3.54)
SHOHAT	4	b	12	187	-	493	-	1.21	(0.95- 1.55)
SOTOQU	1	b	0	76	173	487	1692	1.53	(1.14- 2.04)
STANHO	1	b	0	5	171	16	197	0.36	(0.13- 1.00)
STERN1	1	b	0	21	499	29	768	1.11	(0.63- 1.98)
STODDA	10	b	9	224	-	443	-	1.36	(1.14- 1.62)
STRACH	9	b	4	122	-	364	-	1.23	(0.85- 1.79)
TARIQ	12	b	1	48	-	133	-	0.89	(0.57- 1.40)
TOMINA	2	b	0	2	479	24	1995	0.35	(0.08- 1.47)
WILLE1	6	b	0	31	31	12	30	2.50	(1.09- 5.76)
ZHENG	26	b	0	13	13	390	793	2.03	(0.93- 4.43)
Partial Totals				2370	1567	4484	6157		

*prospective study

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	27	b	11	0.26	214.34	1.24	0.0001
AGABI2	27	b	12	0.10	259.48	1.75	0.0927
ARSHAD	4	b	0	0.71	4.72	1.27	0.1257
CHEN2	47	b	1	0.10	15.22	0.10	0.6839
DAIGLE	3	b	7	0.67	11.64	2.76	0.0217
GILLIL	36	b	8	-0.11	12.73	1.08	0.7070
GOLD	7	b	11	-0.01	124.12	4.79	0.9108
HJERN1	13	b	9	-0.33	34.86	9.25	0.0524
HU1	6	b	0	0.02	14.41	0.38	0.9302
HU2	2	b	0	0.47	20.05	1.61	0.0353
INFANT	10	b	19	0.34	25.97	0.58	0.0864
JONES	2	b	0	0.16	9.47	0.01	0.6266
LAM1	20	b	4	0.76	3.25	1.06	0.1727
MOUSSA	1	b	0	1.10	0.37	0.31	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.54	0.0258
RONMAR	1	b	5	0.47	30.41	2.44	0.0095
SCHMIT	1	b	4	0.73	13.33	3.90	0.0079
SHOHAT	4	b	12	0.19	64.12	0.00	0.1269
SOTOQU	1	b	0	0.42	46.33	2.59	0.0040
STANHO	1	b	0	-1.02	3.66	5.34	0.0507
STERN1	1	b	0	0.11	11.71	0.07	0.7107
STODDA	10	b	9	0.31	124.44	1.82	0.0006
STRACH	9	b	4	0.21	27.70	0.01	0.2759
TARIQ	12	b	1	-0.12	19.03	1.75	0.6112
TOMINA	2	b	0	-1.06	1.84	2.85	0.1515
WILLE1	6	b	0	0.92	5.52	2.94	0.0313
ZHENG	26	b	0	0.71	6.34	1.74	0.0739

Appendix Table A48 - 2

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Current Asthma
 Adjusted

RR data

	N	27
	NS	27
	Wt	1105.53
Het	Chi	57.18
Het	df	26
Het	P	***
Fixed	RR	1.20
	RRl	1.14
	RRu	1.28
	P	+++
Random	RR	1.23
	RRl	1.10
	RRu	1.37
	P	+++
Asymm	P	N.S.

Appendix Table A48 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Current Asthma
 Adjusted

RR data

	N	27			
	NS	27			
	Wt	1105.53			
Het	Chi	57.18			
Het	df	26			
Het	P	***			
Fixed	RR	1.20			
	RRl	1.14			
	RRu	1.28			
	P	+++			
Random	RR	1.23			
	RRl	1.10			
	RRu	1.37			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both		male	female	Total
	N	27			27
	NS	27			27
	Wt	1105.53			1105.53
Het	Chi	57.18			57.18
Het	df	26			26
Het	P	***			***
Fixed	RR	1.20			1.20
	RRl	1.14			1.14
	RRu	1.28			1.28
	P	+++			+++
Random	RR	1.23			1.23
	RRl	1.10			1.10
	RRu	1.37			1.37
	P	+++			+++
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table A48 - 7

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	AZIZI	CALL	CHHABR	CHINN	CLARK	DEKKER	DIJKST	DOTTER	FAGBUL	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GUPTA
	HJERN2	HOST	HUGHES	JAAKKO	KALYO1	KALYO2	KARUNA	KNIGHT	LAM2	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	MELIA
	MELSOM	NHANE3	NITTA	OHARA	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SELCUK	SOMERV	WANG	WILLE2	WOLFO1	WOLFO2	WOLFO3
	YANG															
3	BALL	BERGMA	CSONKA	EHRLI1	HABY	OLIVET	WEITZ1	WEITZ2								
5	CUNNI1	DEKOK	LOPEZC	MCCON2	MOHAME	STERN2										

Appendix Table A48 - 8

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL
HJERN1	HJERN1	1	HJERN1/HJERN2
STERN1	STERN1	1	STERN1/STERN2

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ARSHAD	5	b	2	2	all	Eu:UK	1990	1992	Pr	8	Mother	NotMothr	unspec	non	*	n
CUNNI1	11	b	8	11	all	NAmer	1988	1996	CS	9	Mother	NotMothr	current	non	0.84	?
DEKOK	1	b	6	12	all	Eu:wst	1993	1996	CS	6	Mother	NotMothr	unspec	non	*	n
LOPEZC	3	b	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	ev not preg	non	1.06	n
MCCON2	4	b	5	9	all	NAmer	1980	1986	CS	0	Mother	NotMothr	in life	non	*	n
MOHAME	2	b	9	11	all	Africa	1990	1995	CC	0	Mother	NotMothr	unspec	non	*	n
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non	0.98	n
STRACH	15	b	13	18	all	Eu:UK	1993	1995	CC	0	Mother	NotMothr	<1m	non	*	y

Appendix Table A49 -

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Maternal only exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 7) UNEXSO : not mother, neither parent, none in household
- 8) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 9) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 10) RACE : all in study or nearest available, otherwise by race
- 11) ONSET : yes, no (prevalence)
- 12) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A45 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A49 - 1

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	CompA45	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
DOLD	8	x	b	9	11	all Eu:Ger	1989	1992	CS	0	MothOnly	NotMothr	unspec	non	
FERGUS	8	x	b	0	6	all Auslia	1977	1985	Pr	0	MothOnly	NotMothr	in life	non	
FORAST	21	x	b	7	11	all Eu:Ita	1987	1992	CS	9	MothOnly	NotMothr	unspec	non	
KAY	21	x	b	3	11	all Eu:UK	*	1995	CS	1	MothOnly	NotMothr	unspec	non	

Appendix Table A49 - 2

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
DOLD	8	b	0	66	604	290	3533	1.33	(1.01- 1.76)
*FERGUS	8	b	0	11	141	87	639	0.57	(0.31- 1.04)
FORAST	21	b	9	33	-	110	-	1.70	(1.10- 2.62)
KAY	21	b	1	27	-	146	-	1.13	(0.71- 1.81)
Partial Totals				137	745	633	4172		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
DOLD	8	b	0	0.29	48.69	0.24	0.0459
*FERGUS	8	b	0	-0.56	10.67	6.36	0.0689
FORAST	21	b	9	0.53	20.40	2.03	0.0165
KAY	21	b	1	0.12	17.55	0.15	0.6087

RR data

	N	4
	NS	4
	Wt	97.30
	Het Chi	8.78
	Het df	3
	Het P	*
Fixed	RR	1.24
	RRl	1.02
	RRu	1.51
	P	+
Random	RR	1.16
	RRl	0.80
	RRu	1.67
	P	N.S.
Asymm	P	N.S.

Appendix Table A49 - 3

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
 Lifetime Asthma
 Adjusted

RR data

	N	4			
	NS	4			
	Wt	97.30			
	Het Chi	8.78			
	Het df	3			
	Het P	*			
Fixed	RR	1.24			
	RRl	1.02			
	RRu	1.51			
	P	+			
Random	RR	1.16			
	RRl	0.80			
	RRu	1.67			
	P	N.S.			
Asymm	P	N.S.			
			<u>Sex</u>		
	both		male	female	Total
	N	4			4
	NS	4			4
	Wt	97.30			97.30
	Het Chi	8.78			8.78
	Het df	3			3
	Het P	*			*
Fixed	RR	1.24			1.24
	RRl	1.02			1.02
	RRu	1.51			1.51
	P	+			+
Random	RR	1.16			1.16
	RRl	0.80			0.80
	RRu	1.67			1.67
	P	N.S.			N.S.
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table A49 - 7

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
Lifetime Asthma
Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURR	BUTZ	CHEN1	CHEN2	CUNNI2
	DEBENE	DELL	DODGE	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FIELDE	FLYNN1	FLYNN2	GILLIL	GOLD	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	HU1	HU2	JENKIN	KALYO1	KAPLAN	KEARNE	KELLY	KENDIR
	KERSHA	KIVITY	KUEHR	KUHR	LAM1	LAM2	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MONTEF
	MOYES1	MOYES2	MURRAY	NHANE3	NILSSO	NYSTAD	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3
	RONMAR	ROSASV	RUDNIK	SANZOR	SCHENK	SELCUK	SENNHA	SHAMSS	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN2
	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WEITZ1	WITHER	WOLFO1	WOLFO2	WOLFO3	XU
5	ZEIGER	ZEJDA														
	BURCHF															

Appendix Table A49 - 8

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
BURCHF	11	m	0	19	all	NAmer	1962	1986	CS	3	MothOnly	NoParent	current	never	1.37	?
BURCHF	14	f	0	19	all	NAmer	1962	1986	CS	3	MothOnly	NoParent	current	never	1.16	?

Appendix Table A50 -

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Maternal only exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 7) UNEXSO : none in household, neither parent, not mother
- 8) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 9) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 10) RACE : all in study or nearest available, otherwise by race
- 11) ONSET : yes, no (prevalence)
- 12) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A46 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A50 - 1

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	CompA46	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
DOLD	1	x	b	9	11	all Eu:Ger	1989	1992	CS	0	MothOnly	NoParent	unspec	non	
FERGUS	1	x	b	0	6	all Auslia	1977	1985	Pr	0	MothOnly	NoParent	in life	non	
FORAST	14	x	b	7	11	all Eu:Ita	1987	1992	CS	9	MothOnly	NoParent	unspec	non	
KAY	14	x	b	3	11	all Eu:UK	*	1995	CS	1	MothOnly	NoParent	unspec	non	

Appendix Table A50 - 2

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
DOLD	1	b	0	66	604	235	2931	1.36	(1.02- 1.82)
*FERGUS	1	b	0	11	141	58	460	0.62	(0.33- 1.15)
FORAST	14	b	9	33	-	52	-	1.70	(1.04- 2.70)
KAY	14	b	1	27	-	108	-	1.18	(0.73- 1.91)
Partial Totals				137	745	453	3391		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
DOLD	1	b	0	0.31	46.72	0.25	0.0343
*FERGUS	1	b	0	-0.48	10.11	5.19	0.1268
FORAST	14	b	9	0.53	16.88	1.47	0.0292
KAY	14	b	1	0.17	16.61	0.08	0.5000

RR data

	N	4
	NS	4
	Wt	90.33
	Het Chi	6.99
	Het df	3
	Het P	(*)
Fixed	RR	1.27
	RRl	1.03
	RRu	1.56
	P	+
Random	RR	1.20
	RRl	0.85
	RRu	1.69
	P	N.S.
Asymm	P	N.S.

Appendix Table A50 - 3

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
 Lifetime Asthma
 Adjusted

RR data

	N	4			
	NS	4			
	Wt	90.33			
Het	Chi	6.99			
Het	df	3			
Het	P	(*)			
Fixed	RR	1.27			
	RRl	1.03			
	RRu	1.56			
	P	+			
Random	RR	1.20			
	RRl	0.85			
	RRu	1.69			
	P	N.S.			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	4		4	
	NS	4		4	
	Wt	90.33		90.33	
Het	Chi	6.99		6.99	
Het	df	3		3	
Het	P	(*)		(*)	
Fixed	RR	1.27		1.27	
	RRl	1.03		1.03	
	RRu	1.56		1.56	
	P	+		+	
Random	RR	1.20		1.20	
	RRl	0.85		0.85	
	RRu	1.69		1.69	
	P	N.S.		N.S.	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A50 - 7

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
Lifetime Asthma
Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURR	BUTZ	CHEN1	CHEN2	CUNNI2
	DEBENE	DELL	DODGE	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FIELDE	FLYNN1	FLYNN2	GILLIL	GOLD	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	HU1	HU2	JENKIN	KALYO1	KAPLAN	KEARNE	KELLY	KENDIR
	KERSHA	KIVITY	KUEHR	KUHR	LAM1	LAM2	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MONTEF
	MOYES1	MOYES2	MURRAY	NHANE3	NILSSO	NYSTAD	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3
	RONMAR	ROSASV	RUDNIK	SANZOR	SCHENK	SELCUK	SENNHA	SHAMSS	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN2
	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WEITZ1	WITHER	WOLFO1	WOLFO2	WOLFO3	XU
5	ZEIGER	ZEJDA														
	BURCHF															

Appendix Table A50 - 8

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
BURCHF	11	m	0	19	all	NAmer	1962	1986	CS	3	MothOnly	NoParent	current	never	1.37	?
BURCHF	14	f	0	19	all	NAmer	1962	1986	CS	3	MothOnly	NoParent	current	never	1.16	?

Appendix Table A51 -

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Maternal only exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 7) UNEXSO : not mother, neither parent, none in household
- 8) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 9) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 10) RACE : all in study or nearest available, otherwise by race
- 11) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A47 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A51 - 1

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
 Current Asthma
 Adjusted

REF	NRR	CompA47	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	8	x	b	6	7	all	Eu:Ita	1994	1999	CC	11	MothOnly	NoParent	current	never
AGABI2	8	x	b	13	14	all	Eu:Ita	1994	1999	CC	12	MothOnly	NoParent	current	never
GILLIL	36		b	7	19	all	NAmer	1993	2001	CS	8	MothOnly	NoHhMemb	current	non
WILLE1	10	x	b	3	15	all	Eu:Sca	1988	1991	CC	0	MothOnly	NotMothr	current	non

Appendix Table A51 - 2

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	8	b	11	125	-	148	-	1.46	(1.13- 1.87)
AGABI2	8	b	12	164	-	203	-	1.23	(0.98- 1.53)
GILLIL	36	b	8	-	-	-	-	0.90	(0.50- 1.50)
WILLE1	10	b	0	17	13	18	46	3.34	(1.35- 8.26)
Partial Totals				306	13	369	46		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	8	b	11	0.38	60.56	0.61	0.0032
AGABI2	8	b	12	0.21	77.43	0.39	0.0685
GILLIL	36	b	8	-0.11	12.73	1.88	0.7070
WILLE1	10	b	0	1.21	4.69	4.04	0.0089

RR data

	N	4
	NS	4
	Wt	155.42
Het	Chi	6.92
Het	df	3
Het	P	(*)
Fixed	RR	1.32
	RRl	1.13
	RRu	1.55
	P	+++
Random	RR	1.35
	RRl	1.01
	RRu	1.79
	P	+
Asymm	P	N.S.

Appendix Table A51 - 3

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
 Current Asthma
 Adjusted

RR data

	N	4			
	NS	4			
	Wt	155.42			
Het	Chi	6.92			
Het	df	3			
Het	P	(*)			
Fixed	RR	1.32			
	RRl	1.13			
	RRu	1.55			
	P	+++			
Random	RR	1.35			
	RRl	1.01			
	RRu	1.79			
	P	+			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	4		4	
	NS	4		4	
	Wt	155.42		155.42	
Het	Chi	6.92		6.92	
Het	df	3		3	
Het	P	(*)		(*)	
Fixed	RR	1.32		1.32	
	RRl	1.13		1.13	
	RRu	1.55		1.55	
	P	+++		+++	
Random	RR	1.35		1.35	
	RRl	1.01		1.01	
	RRu	1.79		1.79	
	P	+		+	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A51 - 7

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK	DIJKST
	DOTTER	EHRLI1	FAGBUL	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GUPTA	HABY	HJERN1	HJERN2	HOST	HU1	HU2
	HUGHES	INFANT	JAAKKO	JONES	KALYO1	KALYO2	KARUNA	KNIGHT	LAM1	LAM2	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO
	LOPEZC	MCCON2	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO	NHANE3	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	RONMAR
	SARRAZ	SCHMIT	SELCHUK	SHOHAT	SOMERV	SOTOQU	STANHO	STERN1	STERN2	STODDA	STRACH	TARIQ	TOMINA	WANG	WEITZ1	WEITZ2
	WILLE2	WOLF01	WOLFO2	WOLFO3	YANG	ZHENG										

Appendix Table A51 - 8

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
Current Asthma
Potentially overlapping studies

REF	REFGP PRINC	OVERLAP
GILLIL	GILLIL 1	MCCON1/GILLIL

Appendix Table A52 -

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Maternal only exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 7) UNEXSO : none in household, neither parent, not mother
- 8) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 9) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 10) RACE : all in study or nearest available, otherwise by race
- 11) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A48 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A52 - 1

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
 Current Asthma
 Adjusted

REF	NRR	CompA48	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	8	x	b	6	7	all	Eu:Ita	1994	1999	CC	11	MothOnly	NoParent	current	never
AGABI2	8	x	b	13	14	all	Eu:Ita	1994	1999	CC	12	MothOnly	NoParent	current	never
GILLIL	36		b	7	19	all	NAmer	1993	2001	CS	8	MothOnly	NoHhMemb	current	non
WILLE1	3	x	b	3	15	all	Eu:Sca	1988	1991	CC	0	MothOnly	NoParent	current	non

Appendix Table A52 - 2

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	8	b	11	125	-	148	-	1.46	(1.13- 1.87)
AGABI2	8	b	12	164	-	203	-	1.23	(0.98- 1.53)
GILLIL	36	b	8	-	-	-	-	0.90	(0.50- 1.50)
WILLE1	3	b	0	17	13	12	30	3.27	(1.22- 8.75)
Partial Totals				306	13	363	30		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	8	b	11	0.38	60.56	0.67	0.0032
AGABI2	8	b	12	0.21	77.43	0.34	0.0685
GILLIL	36	b	8	-0.11	12.73	1.83	0.7070
WILLE1	3	b	0	1.18	3.96	3.29	0.0184

RR data

	N	4
	NS	4
	Wt	154.68
Het	Chi	6.12
Het	df	3
Het	P	N.S.
Fixed	RR	1.31
	RRl	1.12
	RRu	1.54
	P	+++
Random	RR	1.33
	RRl	1.01
	RRu	1.74
	P	+
Asymm	P	N.S.

Appendix Table A52 - 3

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
 Current Asthma
 Adjusted

RR data

	N	4			
	NS	4			
	Wt	154.68			
Het	Chi	6.12			
Het	df	3			
Het	P	N.S.			
Fixed	RR	1.31			
	RRl	1.12			
	RRu	1.54			
	P	+++			
Random	RR	1.33			
	RRl	1.01			
	RRu	1.74			
	P	+			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	4		4	
	NS	4		4	
	Wt	154.68		154.68	
Het	Chi	6.12		6.12	
Het	df	3		3	
Het	P	N.S.		N.S.	
Fixed	RR	1.31		1.31	
	RRl	1.12		1.12	
	RRu	1.54		1.54	
	P	+++		+++	
Random	RR	1.33		1.33	
	RRl	1.01		1.01	
	RRu	1.74		1.74	
	P	+		+	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A52 - 7

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK	DIJKST
	DOTTER	EHRLI1	FAGBUL	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GUPTA	HABY	HJERN1	HJERN2	HOST	HU1	HU2
	HUGHES	INFANT	JAAKKO	JONES	KALYO1	KALYO2	KARUNA	KNIGHT	LAM1	LAM2	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO
	LOPEZC	MCCON2	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO	NHANE3	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	RONMAR
	SARRAZ	SCHMIT	SELCHUK	SHOHAT	SOMERV	SOTOQU	STANHO	STERN1	STERN2	STODDA	STRACH	TARIQ	TOMINA	WANG	WEITZ1	WEITZ2
	WILLE2	WOLFO1	WOLFO2	WOLFO3	YANG	ZHENG										

Appendix Table A52 - 8

IESAST - Meta-analysis of Lifetime Maternal Only Exposure
Current Asthma
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL

Appendix Table A53 -

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Paternal exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : father regardless of mother, father only
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : not father, neither parent, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A5 - 1 are marked 'x' in Section -1) and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A53 - 1

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
 Adjusted

REF	NRR	CompA5	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALDAWO	3		x	m	6	15	all	As:ME	*	2000	CS	0	Father	NotFathr	ever never
ALFRA1	1		x	b	7	12	all	As:ME	1986	1990	CS	0	Father	NotFathr	unspec non
CHEN2	30		x	b	6	17	all	NAmer	1993	1996	CS	6	Father	NotFathr	ever never
DOLD	13		x	b	9	11	all	Eu:Ger	1989	1992	CS	1	Father	NotFathr	unspec non
ECE	6		x	b	6	15	all	Eu:est	1999	2001	CS	0	Father	NotFathr	current non
FERGUS	13		x	b	0	6	all	Auslia	1977	1985	Pr	1	Father	NotFathr	in life non
FORAST	26		x	b	7	11	all	Eu:Ita	1987	1992	CS	10	Father	NotFathr	unspec non
GOREN2	1		x	b	7	11	all	As:ME	1982	1995	CS	0	Father	NotFathr	ever never
GORTM1	4		x	b	0	17	all	NAmer	1977	1982	CS	7	Father	NotFathr	current non
HU2	3		x	b	20	22	all	NAmer	1986	1997	Pr	0	Father	NotFathr	13-15y non
JENKIN	2		x	m	7	7	all	Auslia	1968	1993	CS	0	Father	NotFathr	current non
JENKIN	4		x	f	7	7	all	Auslia	1968	1993	CS	0	Father	NotFathr	current non
KAY	26		x	b	3	11	all	Eu:UK	*	1995	CS	2	Father	NotFathr	unspec non
KIVITY	3		x	b	8	17	all	As:ME	*	2001	CS	0	Father	NotFathr	unspec non
LAM1	17		x	b	12	15	all	As:FE	1994	1998	CS	4	Father	NoHhMemb	unspec non
LAM2	9			b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current non
LIS	2		x	b	12	14	all	Eu:est	1992	1997	CS	0	Father	NotFathr	unspec non
LISTER	4		x	b	0	4	all	Auslia	1989	1998	CS	8	Father	NotFathr	current non
MARTIN	3		x	m	0	12	all	NAmer	1972	1992	Pr	0	Father	LowFathr	<5y non
MARTIN	4		x	f	0	12	all	NAmer	1972	1992	Pr	0	Father	LowFathr	<5y non
MCCON2	3		x	b	5	9	all	NAmer	1980	1986	CS	0	Father	NotFathr	in life non
MCKEEV	8		x	b	0	11	all	Eu:UK	*	2001	Pr	0	Father	NotFathr	ever never
MURRAY	6		x	m	1	17	all	NAmer	1986	1990	CS	1	Father	NotFathr	unspec non
MURRAY	8		x	f	1	17	all	NAmer	1986	1990	CS	1	Father	NotFathr	unspec non
RATAGE	2			b	5	15	all	As:cen	1996	2000	CC	0	Father	NotFathr	unspec non
SHAMSS	1		x	b	6	7	all	Eu:UK	*	1999	CS	0	Father	NotFathr	unspec non
SHERMA	4		x	b	5	23	all	NAmer	1975	1990	Pr	2	Father	NotFathr	ever never
SOYSET	5		x	b	7	13	all	Eu:Sca	1989	1995	CS	0	Father	NotFathr	in life non
VENNER	6			m	8	15	all	As:FE	1995	2001	CS	0	FathOnly	NoParent	current never
VENNER	3			f	8	15	all	As:FE	1995	2001	CS	0	FathOnly	NoParent	current never
WITHER	3		x	b	14	16	all	Eu:UK	1995	1998	CS	0	Father	NotFathr	current non

Appendix Table A53 - 2

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALDAWO	3	m	0	76	402	65	939	2.73	(1.92- 3.88)
ALFRA1	1	b	0	-	-	-	-	1.32	(1.01- 1.72)
CHEN2	30	b	6	55	-	38	-	0.93	(0.56- 1.53)
DOLD	13	b	1	110	-	301	-	1.00	(0.79- 1.26)
ECE	6	b	0	261	1503	169	1107	1.14	(0.92- 1.40)
*FERGUS	13	b	1	64	-	69	-	1.41	(1.00- 2.00)
FORAST	26	b	10	131	-	85	-	0.95	(0.71- 1.27)
GOREN2	1	b	0	351	2781	300	2734	1.15	(0.98- 1.35)
GORTM1	4	b	7	-	-	-	-	1.49	(1.08- 2.06)
HU2	3	b	0	-	-	-	-	1.30	(0.90- 1.80)
JENKIN	2	m	0	446	1891	366	1635	1.05	(0.90- 1.23)
JENKIN	4	f	0	310	2000	227	1656	1.13	(0.94- 1.36)
Subtotal JENKIN								1.08	(0.96- 1.22)
KAY	26	b	2	76	-	135	-	1.40	(0.98- 1.99)
KIVITY	3	b	0	77	488	63	615	1.54	(1.08- 2.19)
LAM1	17	b	4	-	-	201	-	0.92	(0.72- 1.17)
LAM2	9	b	4	-	-	-	-	0.87	(0.64- 1.17)
LIS	2	b	0	-	-	-	-	1.10	(0.80- 1.50)
LISTER	4	b	8	-	-	-	-	0.77	(0.60- 0.98)
*MARTIN	3	m	0	14	102	39	269	0.95	(0.54- 1.67)
*MARTIN	4	f	0	8	85	17	244	1.35	(0.61- 3.02)
Subtotal MARTIN								1.07	(0.67- 1.69)
MCCON2	3	b	0	6	93	9	115	0.82	(0.28- 2.40)
*MCKEEV	8	b	0	1118	5264	1132	6823	1.28	(1.19- 1.38)
MURRAY	6	m	1	68	-	135	-	1.54	(0.97- 2.44)
MURRAY	8	f	1	27	-	61	-	1.08	(0.60- 1.93)
Subtotal MURRAY								1.34	(0.94- 1.93)
RATAGE	2	b	0	51	29	69	31	0.79	(0.42- 1.47)
SHAMSS	1	b	0	-	-	-	-	1.10	(0.84- 1.44)
*SHERMA	4	b	2	-	-	-	-	1.14	(0.63- 2.06)
SOYSET	5	b	0	32	298	19	269	1.52	(0.84- 2.75)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
WITHER	3	b	0	132	386	366	1360	1.27	(1.01- 1.60)
Partial Totals				3844	16265	3964	18043		
*prospective study									

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALDAWO	3	m	0	1.00	31.16	21.83	0.0000
ALFRA1	1	b	0	0.28	54.22	0.66	0.0409
CHEN2	30	b	6	-0.07	15.21	0.88	0.7772
DOLD	13	b	1	0.00	70.51	1.98	1.0000
ECE	6	b	0	0.13	88.36	0.13	0.2260
*FERGUS	13	b	1	0.34	31.98	0.99	0.0520
FORAST	26	b	10	-0.05	45.44	2.18	0.7295
GOREN2	1	b	0	0.14	144.77	0.11	0.0922
GORTM1	4	b	7	0.40	36.85	1.97	0.0155
HU2	3	b	0	0.26	31.98	0.29	0.1379
JENKIN	2	m	0	0.05	163.54	2.18	0.5042
JENKIN	4	f	0	0.12	114.48	0.23	0.1886
Subtotal JENKIN				-0.16	278.02	2.41	
KAY	26	b	2	0.34	30.62	0.87	0.0626
KIVITY	3	b	0	0.43	30.74	2.15	0.0166
LAM1	17	b	4	-0.08	65.19	4.11	0.5008
LAM2	9	b	4	-0.14	42.22	3.98	0.3655
LIS	2	b	0	0.10	38.89	0.20	0.5523
LISTER	4	b	8	-0.26	63.84	11.75	0.0368
*MARTIN	3	m	0	-0.05	11.97	0.59	0.8497
*MARTIN	4	f	0	0.30	5.95	0.11	0.4631
Subtotal MARTIN				-0.09	17.92	0.70	
MCCON2	3	b	0	-0.19	3.36	0.44	0.7232
*MCKEEV	8	b	0	0.25	693.81	4.37	0.0000
MURRAY	6	m	1	0.43	18.06	1.26	0.0665
MURRAY	8	f	1	0.08	11.26	0.09	0.7962
Subtotal MURRAY				0.17	29.31	1.35	
RATAGE	2	b	0	-0.24	9.92	1.61	0.4582

Appendix Table A53 - 2

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
SHAMSS	1	b	0	0.10	52.89	0.28	0.4882
*SHERMA	4	b	2	0.13	10.95	0.01	0.6646
SOYSET	5	b	0	0.42	10.99	0.69	0.1648
VENNER	6	m	0	0.09	27.66	0.15	0.6182
VENNER	3	f	0	0.18	28.98	0.00	0.3399
Subtotal	VENNER			-0.06	56.63	0.15	
WITHER	3	b	0	0.24	73.35	0.38	0.0402

RR data

	N	31
	NS	27
	Wt	2059.12
Het	Chi	66.46
Het	df	30
Het	P	***
Fixed	RR	1.18
	RR1	1.13
	RRu	1.23
	P	+++
Random	RR	1.16
	RR1	1.08
	RRu	1.26
	P	+++
Asymm	P	N.S.

Appendix Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Lifetime Asthma
 Adjusted

RR data

	N	31						
	NS	27						
	Wt	2059.12						
	Het Chi	66.46						
	Het df	30						
	Het P	***						
Fixed	RR	1.18						
	RRl	1.13						
	RRu	1.23						
	P	+++						
Random	RR	1.16						
	RRl	1.08						
	RRu	1.26						
	P	+++						
Asymm	P	N.S.						
			<u>Sex</u>					
		both	male	female			Total	
	N	22	5	4			31	
	NS	22	5	4			31	
	Wt	1646.07	252.38	160.67			2059.12	
	Het Chi	40.02	25.80	0.27			66.46	
	Het df	21	4	3			30	
	Het P	**	***	N.S.			***	
Fixed	RR	1.18	1.22	1.15			1.18	
	RRl	1.13	1.08	0.98			1.13	
	RRu	1.24	1.38	1.34			1.23	
	P	+++	++	(+)			+++	
Random	RR	1.14	1.37	1.15			1.16	
	RRl	1.05	0.92	0.98			1.08	
	RRu	1.23	2.02	1.34			1.26	
	P	++	N.S.	(+)			+++	
Between	Chi						0.37	
Between	df						2	
Between	P						N.S.	
			<u>Continent</u>					
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	9		9	9	4		31
	NS	7		9	8	3		27
	Wt	145.59		1104.86	434.83	373.84		2059.12
	Het Chi	5.18		9.89	34.59	9.55		66.46
	Het df	8		8	8	3		30
	Het P	N.S.		N.S.	***	*		***
Fixed	RR	1.25		1.22	1.19	1.05		1.18
	RRl	1.06		1.15	1.08	0.95		1.13
	RRu	1.47		1.30	1.30	1.16		1.23
	P	++		+++	+++	N.S.		+++
Random	RR	1.25		1.19	1.22	1.05		1.16
	RRl	1.06		1.10	0.99	0.86		1.08
	RRu	1.47		1.29	1.50	1.27		1.26
	P	++		+++	(+)	N.S.		+++
Between	Chi							7.26
Between	df							3
Between	P							(*)

Appendix Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Lifetime Asthma
 Adjusted

		Country in Europe					Total
		UK	Italy	Germany	Scand	othWest East/Bal	
RR data	N	4	1	1	1	2	9
	NS	4	1	1	1	2	9
	Wt	850.67	45.44	70.51	10.99	127.25	1104.86
Het	Chi	1.43	0.00	0.00	0.00	0.03	9.89
Het	df	3	0	0	0	1	8
Het	P	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.27	0.95	1.00	1.52	1.13	1.22
	RRl	1.19	0.71	0.79	0.84	0.95	1.15
	RRu	1.36	1.27	1.26	2.75	1.34	1.30
	P	+++	N.S.	N.S.	N.S.	N.S.	+++
Random	RR	1.27	0.95	1.00	1.52	1.13	1.19
	RRl	1.19	0.71	0.79	0.84	0.95	1.10
	RRu	1.36	1.27	1.26	2.75	1.34	1.29
	P	+++	N.S.	N.S.	N.S.	N.S.	+++
Between	Chi						8.43
Between	df						4
Between	P						(*)

Country in Asia
 FarEast Cent/SE MidlEast Total

	N	4	1	4	9
	NS	3	1	4	8
	Wt	164.04	9.92	260.88	434.83
Het	Chi	2.35	0.00	19.73	34.59
Het	df	3	0	3	8
Het	P	N.S.	N.S.	***	***
Fixed	RR	0.98	0.79	1.36	1.19
	RRl	0.84	0.42	1.20	1.08
	RRu	1.14	1.47	1.53	1.30
	P	N.S.	N.S.	+++	+++
Random	RR	0.98	0.79	1.56	1.22
	RRl	0.84	0.42	1.10	0.99
	RRu	1.14	1.47	2.20	1.50
	P	N.S.	N.S.	+	(+)
Between	Chi				12.50
Between	df				2
Between	P				**

Start year of study
 <1970 1970-79 1980-89 1990+ unknown Total

	N	2	5	10	9	5	31
	NS	1	4	9	8	5	27
	Wt	278.02	97.70	454.42	389.76	839.22	2059.12
Het	Chi	0.34	2.23	16.12	7.40	19.72	66.46
Het	df	1	4	9	8	4	30
Het	P	N.S.	N.S.	(*)	N.S.	***	***
Fixed	RR	1.08	1.34	1.09	1.07	1.32	1.18
	RRl	0.96	1.10	0.99	0.97	1.23	1.13
	RRu	1.22	1.63	1.19	1.18	1.41	1.23
	P	N.S.	++	(+)	N.S.	+++	+++
Random	RR	1.08	1.34	1.10	1.07	1.49	1.16
	RRl	0.96	1.10	0.96	0.97	1.16	1.08
	RRu	1.22	1.63	1.26	1.18	1.91	1.26
	P	N.S.	++	N.S.	N.S.	++	+++
Between	Chi						20.66
Between	df						4
Between	P						***

Appendix Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
Adjusted

Publication year
<1990 1990-94 1995-99 2000+ Total

RR data

	N	3	10	11	7	31
NS	3	7	11	6	27	
Wt	72.20	506.37	569.94	910.61	2059.12	
Het Chi	1.08	6.39	18.27	23.20	66.46	
Het df	2	9	10	6	30	
Het P	N.S.	N.S.	(*)	***	***	
Fixed RR	1.41	1.10	1.07	1.29	1.18	
RRl	1.12	1.00	0.99	1.21	1.13	
RRu	1.78	1.20	1.17	1.38	1.23	
P	++	+	(+)	+++	+++	
Random RR	1.41	1.10	1.07	1.33	1.16	
RRl	1.12	1.00	0.96	1.09	1.08	
RRu	1.78	1.20	1.21	1.63	1.26	
P	++	+	N.S.	++	+++	
Between Chi					17.52	
Between df					3	
Between P					***	

Study type
CC Pr CS Total

	N	1	6	24	31
NS	1	5	21	27	
Wt	9.92	786.65	1262.56	2059.12	
Het Chi	0.00	1.56	55.87	66.46	
Het df	0	5	23	30	
Het P	N.S.	N.S.	***	***	
Fixed RR	0.79	1.28	1.13	1.18	
RRl	0.42	1.19	1.07	1.13	
RRu	1.47	1.37	1.19	1.23	
P	N.S.	+++	+++	+++	
Random RR	0.79	1.28	1.16	1.16	
RRl	0.42	1.19	1.05	1.08	
RRu	1.47	1.37	1.27	1.26	
P	N.S.	+++	++	+++	
Between Chi				9.03	
Between df				2	
Between P				*	

Highest age in RR
0-9 10-14 15+ unknown Total

	N	6	11	14	31
NS	5	10	12	27	
Wt	430.09	1149.39	479.64	2059.12	
Het Chi	9.86	15.17	33.54	66.46	
Het df	5	10	13	30	
Het P	(*)	N.S.	**	***	
Fixed RR	1.05	1.21	1.25	1.18	
RRl	0.96	1.14	1.14	1.13	
RRu	1.15	1.28	1.36	1.23	
P	N.S.	+++	+++	+++	
Random RR	1.05	1.15	1.26	1.16	
RRl	0.91	1.05	1.08	1.08	
RRu	1.22	1.27	1.47	1.26	
P	N.S.	++	++	+++	
Between Chi				7.89	
Between df				2	
Between P				*	

Appendix Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Lifetime Asthma
 Adjusted

Population setting
 general school medical allergy other Total

RR data

N	6	15	8	2	31
NS	5	14	7	1	27
Wt	188.03	942.09	872.36	56.63	2059.12
Het Chi	14.14	37.74	4.45	0.10	66.46
Het df	5	14	7	1	30
Het P	*	***	N.S.	N.S.	***
Fixed RR	1.07	1.12	1.28	1.15	1.18
RR1	0.93	1.05	1.20	0.88	1.13
RRu	1.24	1.20	1.37	1.49	1.23
P	N.S.	+++	+++	N.S.	+++
Random RR	1.09	1.15	1.28	1.15	1.16
RR1	0.84	1.03	1.20	0.88	1.08
RRu	1.43	1.29	1.37	1.49	1.26
P	N.S.	+	+++	N.S.	+++
Between Chi					10.03
Between df					3
Between P					*

Respondent for smoking
 child parent med rec mix/oth Total

N	3	17	1	10	31
NS	3	15	1	8	27
Wt	146.29	903.31	693.81	315.71	2059.12
Het Chi	1.23	48.47	0.00	4.80	66.46
Het df	2	16	0	9	30
Het P	N.S.	***	N.S.	N.S.	***
Fixed RR	0.95	1.15	1.28	1.18	1.18
RR1	0.81	1.08	1.19	1.06	1.13
RRu	1.12	1.23	1.38	1.32	1.23
P	N.S.	+++	+++	++	+++
Random RR	0.95	1.21	1.28	1.18	1.16
RR1	0.81	1.07	1.19	1.06	1.08
RRu	1.12	1.37	1.38	1.32	1.26
P	N.S.	++	+++	++	+++
Between Chi					11.96
Between df					3
Between P					**

Child smokers
 exc/none included ignored Total

N	8	4	19	31
NS	5	4	18	27
Wt	211.28	131.49	1716.36	2059.12
Het Chi	6.25	1.42	54.26	66.46
Het df	7	3	18	30
Het P	N.S.	N.S.	***	***
Fixed RR	1.03	1.22	1.20	1.18
RR1	0.90	1.03	1.14	1.13
RRu	1.18	1.45	1.26	1.23
P	N.S.	+	+++	+++
Random RR	1.03	1.22	1.19	1.16
RR1	0.90	1.03	1.08	1.08
RRu	1.18	1.45	1.32	1.26
P	N.S.	+	+++	+++
Between Chi				4.53
Between df				2
Between P				N.S.

Appendix Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
 Adjusted

Physician diagnosis (lifetime)
 yes no/mixed Total

RR data

N	17	14	31
NS	15	12	27
Wt	1216.13	842.99	2059.12
Het Chi	20.47	45.33	66.46
Het df	16	13	30
Het P	N.S.	***	***
Fixed RR	1.20	1.16	1.18
RRl	1.13	1.08	1.13
RRu	1.27	1.24	1.23
P	+++	+++	+++
Random RR	1.14	1.23	1.16
RRl	1.05	1.07	1.08
RRu	1.24	1.41	1.26
P	++	++	+++
Between Chi			0.66
Between df			1
Between P			N.S.

Respondent for diagnosis (lifetime)
 medrec parent child mixed Total

N	5	18	4	4	31
NS	4	16	4	3	27
Wt	792.34	959.88	178.27	128.62	2059.12
Het Chi	3.31	48.57	3.82	1.50	66.46
Het df	4	17	3	3	30
Het P	N.S.	***	N.S.	N.S.	***
Fixed RR	1.27	1.15	1.00	1.18	1.18
RRl	1.18	1.08	0.87	0.99	1.13
RRu	1.36	1.23	1.16	1.40	1.23
P	+++	+++	N.S.	(+)	+++
Random RR	1.27	1.19	1.01	1.18	1.16
RRl	1.18	1.06	0.86	0.99	1.08
RRu	1.36	1.34	1.19	1.40	1.26
P	+++	++	N.S.	(+)	+++
Between Chi					9.25
Between df					3
Between P					*

Questionnaire for symptoms
 ISAAC ATS other Total

N	3	7	21	31
NS	3	6	18	27
Wt	180.14	291.89	1587.09	2059.12
Het Chi	0.05	4.75	60.58	66.46
Het df	2	6	20	30
Het P	N.S.	N.S.	***	***
Fixed RR	1.12	1.15	1.20	1.18
RRl	0.97	1.02	1.14	1.13
RRu	1.29	1.29	1.26	1.23
P	N.S.	+	+++	+++
Random RR	1.12	1.15	1.18	1.16
RRl	0.97	1.02	1.06	1.08
RRu	1.29	1.29	1.32	1.26
P	N.S.	+	++	+++
Between Chi				1.08
Between df				2
Between P				N.S.

Appendix Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
Adjusted

Analysis type
prevalence onset Total

RR data

	N	26	5	31
	NS	23	4	27
	Wt	1304.46	754.66	2059.12
Het	Chi	57.77	1.55	66.46
Het	df	25	4	30
Het	P	***	N.S.	***
Fixed	RR	1.13	1.28	1.18
	RRl	1.07	1.19	1.13
	RRu	1.19	1.37	1.23
	P	+++	+++	+++
Random	RR	1.15	1.28	1.16
	RRl	1.06	1.19	1.08
	RRu	1.26	1.37	1.26
	P	++	+++	+++
Between	Chi			7.14
Between	df			1
Between	P			**

Number of cases (lifetime asthma)

1-50 51-100 101-200 201+ unknown Total

	N	1	5	6	18	1	31
	NS	1	4	6	15	1	27
	Wt	3.36	55.08	194.86	1766.94	38.89	2059.12
Het	Chi	0.00	2.10	16.21	33.27	0.00	66.46
Het	df	0	4	5	17	0	30
Het	P	N.S.	N.S.	**	*	N.S.	***
Fixed	RR	0.82	1.12	1.53	1.15	1.10	1.18
	RRl	0.28	0.86	1.33	1.10	0.80	1.13
	RRu	2.40	1.45	1.76	1.21	1.51	1.23
	P	N.S.	N.S.	+++	+++	N.S.	+++
Random	RR	0.82	1.12	1.51	1.10	1.10	1.16
	RRl	0.28	0.86	1.16	1.02	0.80	1.08
	RRu	2.40	1.45	1.96	1.19	1.51	1.26
	P	N.S.	N.S.	++	+	N.S.	+++
Between	Chi						14.87
Between	df						4
Between	P						**

Study adjusts for or is matched on sex

Yes No Total

	N	15	16	31
	NS	13	14	27
	Wt	692.72	1366.40	2059.12
Het	Chi	27.04	30.82	66.46
Het	df	14	15	30
Het	P	*	**	***
Fixed	RR	1.08	1.24	1.18
	RRl	1.00	1.17	1.13
	RRu	1.16	1.31	1.23
	P	+	+++	+++
Random	RR	1.11	1.22	1.16
	RRl	0.99	1.10	1.08
	RRu	1.24	1.35	1.26
	P	(+)	+++	+++
Between	Chi			8.60
Between	df			1
Between	P			**

Appendix Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
Adjusted

Study adjusts for or is matched on age

Yes No Total

RR data

	N	7	24	31
	NS	7	20	27
	Wt	226.85	1832.27	2059.12
	Het Chi	9.29	52.08	66.46
	Het df	6	23	30
	Het P	N.S.	***	***
Fixed	RR	1.03	1.20	1.18
	RRl	0.90	1.15	1.13
	RRu	1.17	1.26	1.23
	P	N.S.	+++	+++
Random	RR	1.05	1.19	1.16
	RRl	0.88	1.10	1.08
	RRu	1.24	1.30	1.26
	P	N.S.	+++	+++
Between	Chi			5.08
Between	df			1
Between	P			*

Study adjusts for or is matched on race

	N	2	29	31
	NS	2	25	27
	Wt	62.72	1996.40	2059.12
	Het Chi	0.45	63.96	66.46
	Het df	1	28	30
	Het P	N.S.	***	***
Fixed	RR	1.41	1.18	1.18
	RRl	1.10	1.13	1.13
	RRu	1.81	1.23	1.23
	P	++	+++	+++
Random	RR	1.41	1.15	1.16
	RRl	1.10	1.06	1.08
	RRu	1.81	1.25	1.26
	P	++	+++	+++
Between	Chi			2.05
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on location

	N	5	26	31
	NS	5	22	27
	Wt	361.45	1697.67	2059.12
	Het Chi	8.31	41.40	66.46
	Het df	4	25	30
	Het P	(*)	*	***
Fixed	RR	0.97	1.23	1.18
	RRl	0.88	1.18	1.13
	RRu	1.08	1.29	1.23
	P	N.S.	+++	+++
Random	RR	0.94	1.23	1.16
	RRl	0.81	1.14	1.08
	RRu	1.10	1.33	1.26
	P	N.S.	+++	+++
Between	Chi			16.75
Between	df			1
Between	P			***

Appendix Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
Adjusted

Study adjusts for or is matched on SES

Yes No Total

RR data

	N	8	23	31
	NS	7	20	27
	Wt	293.20	1765.92	2059.12
Het	Chi	16.95	43.65	66.46
Het	df	7	22	30
Het	P	*	**	***
Fixed	RR	1.04	1.21	1.18
	RRl	0.93	1.15	1.13
	RRu	1.16	1.27	1.23
	P	N.S.	+++	+++
Random	RR	1.08	1.19	1.16
	RRl	0.89	1.10	1.08
	RRu	1.31	1.30	1.26
	P	N.S.	+++	+++
Between	Chi			5.86
Between	df			1
Between	P			*

Study adjusts for family medical history

	N	12	19	31
	NS	10	17	27
	Wt	756.95	1302.17	2059.12
Het	Chi	9.73	56.70	66.46
Het	df	11	18	30
Het	P	N.S.	***	***
Fixed	RR	1.18	1.19	1.18
	RRl	1.10	1.12	1.13
	RRu	1.26	1.25	1.23
	P	+++	+++	+++
Random	RR	1.18	1.13	1.16
	RRl	1.10	1.00	1.08
	RRu	1.26	1.28	1.26
	P	+++	(+)	+++
Between	Chi			0.03
Between	df			1
Between	P			N.S.

Study adjusts for family composition

	N	5	26	31
	NS	5	22	27
	Wt	187.20	1871.92	2059.12
Het	Chi	13.98	48.12	66.46
Het	df	4	25	30
Het	P	**	**	***
Fixed	RR	1.02	1.20	1.18
	RRl	0.89	1.15	1.13
	RRu	1.18	1.26	1.23
	P	N.S.	+++	+++
Random	RR	1.07	1.18	1.16
	RRl	0.81	1.10	1.08
	RRu	1.42	1.28	1.26
	P	N.S.	+++	+++
Between	Chi			4.36
Between	df			1
Between	P			*

Appendix Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
 Adjusted

Study adjusts for cooking, heating, air conditioning
 Yes No Total

RR data

N	1	30	31
NS	1	26	27
Wt	45.44	2013.68	2059.12
Het Chi	0.00	64.23	66.46
Het df	0	29	30
Het P	N.S.	***	***
Fixed RR	0.95	1.19	1.18
RR1	0.71	1.14	1.13
RRu	1.27	1.24	1.23
P	N.S.	+++	+++
Random RR	0.95	1.17	1.16
RR1	0.71	1.09	1.08
RRu	1.27	1.27	1.26
P	N.S.	+++	+++
Between Chi			2.23
Between df			1
Between P			N.S.

Study adjusts for housing quality, crowding, damp, mould

N	3	28	31
NS	3	24	27
Wt	149.01	1910.11	2059.12
Het Chi	1.24	63.12	66.46
Het df	2	27	30
Het P	N.S.	***	***
Fixed RR	1.05	1.19	1.18
RR1	0.90	1.14	1.13
RRu	1.24	1.25	1.23
P	N.S.	+++	+++
Random RR	1.05	1.18	1.16
RR1	0.90	1.09	1.08
RRu	1.24	1.28	1.26
P	N.S.	+++	+++
Between Chi			2.10
Between df			1
Between P			N.S.

Study adjusts for pets, animal contact, farming

N	4	27	31
NS	3	24	27
Wt	115.51	1943.61	2059.12
Het Chi	0.96	63.34	66.46
Het df	3	26	30
Het P	N.S.	***	***
Fixed RR	1.35	1.17	1.18
RR1	1.13	1.12	1.13
RRu	1.62	1.23	1.23
P	++	+++	+++
Random RR	1.35	1.15	1.16
RR1	1.13	1.05	1.08
RRu	1.62	1.25	1.26
P	++	++	+++
Between Chi			2.16
Between df			1
Between P			N.S.

Appendix Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma

Adjusted
Study adjusts for child's medical history
Yes No Total

RR data

N	12	19	31
NS	10	17	27
Wt	631.06	1428.06	2059.12
Het Chi	12.17	54.28	66.46
Het df	11	18	30
Het P	N.S.	***	***
Fixed RR	1.18	1.18	1.18
RR1	1.09	1.12	1.13
RRu	1.27	1.25	1.23
P	+++	+++	+++
Random RR	1.19	1.13	1.16
RR1	1.09	1.01	1.08
RRu	1.29	1.27	1.26
P	+++	+	+++
Between Chi			0.01
Between df			1
Between P			N.S.

Study adjusts for in utero exposure

N	1	30	31
NS	1	26	27
Wt	10.99	2048.13	2059.12
Het Chi	0.00	65.76	66.46
Het df	0	29	30
Het P	N.S.	***	***
Fixed RR	1.52	1.18	1.18
RR1	0.84	1.13	1.13
RRu	2.75	1.23	1.23
P	N.S.	+++	+++
Random RR	1.52	1.16	1.16
RR1	0.84	1.07	1.08
RRu	2.75	1.25	1.26
P	N.S.	+++	+++
Between Chi			0.70
Between df			1
Between P			N.S.

Study adjusts for in life exposure

N	12	19	31
NS	11	16	27
Wt	840.58	1218.54	2059.12
Het Chi	21.70	40.90	66.46
Het df	11	18	30
Het P	*	**	***
Fixed RR	1.12	1.23	1.18
RR1	1.05	1.16	1.13
RRu	1.20	1.30	1.23
P	+++	+++	+++
Random RR	1.14	1.18	1.16
RR1	1.03	1.05	1.08
RRu	1.26	1.33	1.26
P	+	++	+++
Between Chi			3.86
Between df			1
Between P			*

Appendix Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
Adjusted

Exposed group : Who is smoker
Father FathOnly Total

RR data

N	29	2	31
NS	26	1	27
Wt	2002.49	56.63	2059.12
Het Chi	66.31	0.10	66.46
Het df	28	1	30
Het P	***	N.S.	***
Fixed RR	1.18	1.15	1.18
RR1	1.13	0.88	1.13
RRu	1.24	1.49	1.23
P	+++	N.S.	+++
Random RR	1.17	1.15	1.16
RR1	1.08	0.88	1.08
RRu	1.26	1.49	1.26
P	+++	N.S.	+++
Between Chi			0.05
Between df			1
Between P			N.S.

Exposed group : when Exposed
lif/ev age<7y current unspec other Total

N	8	2	9	11	1	31
NS	8	1	7	10	1	27
Wt	942.23	17.92	639.26	427.72	31.98	2059.12
Het Chi	22.49	0.50	15.91	13.84	0.00	66.46
Het df	7	1	8	10	0	30
Het P	**	N.S.	*	N.S.	N.S.	***
Fixed RR	1.29	1.07	1.08	1.11	1.30	1.18
RR1	1.21	0.67	1.00	1.01	0.92	1.13
RRu	1.37	1.69	1.17	1.22	1.84	1.23
P	+++	N.S.	+	+	N.S.	+++
Random RR	1.35	1.07	1.09	1.12	1.30	1.16
RR1	1.12	0.67	0.97	1.00	0.92	1.08
RRu	1.64	1.69	1.22	1.26	1.84	1.26
P	++	N.S.	N.S.	+	N.S.	+++
Between Chi						13.72
Between df						4
Between P						**

Unexposed group : who is smoker
NoHhMemb NoParent NotSpPar Total

N	2	2	27	31
NS	2	1	24	27
Wt	107.41	56.63	1895.08	2059.12
Het Chi	0.08	0.10	57.72	66.46
Het df	1	1	26	30
Het P	N.S.	N.S.	***	***
Fixed RR	0.90	1.15	1.20	1.18
RR1	0.74	0.88	1.15	1.13
RRu	1.09	1.49	1.26	1.23
P	N.S.	N.S.	+++	+++
Random RR	0.90	1.15	1.19	1.16
RR1	0.74	0.88	1.10	1.08
RRu	1.09	1.49	1.30	1.26
P	N.S.	N.S.	+++	+++
Between Chi				8.56
Between df				2
Between P				*

Appendix Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
Adjusted

Unexposed group : time
non never non+othr Total

RR data

N	24	7	31
NS	21	6	27
Wt	1106.59	952.53	2059.12
Het Chi	34.50	22.01	66.46
Het df	23	6	30
Het P	(*)	**	***
Fixed RR	1.11	1.27	1.18
RRl	1.05	1.20	1.13
RRu	1.18	1.36	1.23
P	+++	+++	+++
Random RR	1.12	1.30	1.16
RRl	1.04	1.07	1.08
RRu	1.21	1.57	1.26
P	++	++	+++
Between Chi			9.95
Between df			1
Between P			**

Number of adjustment variables

	0	1	2	3-5	6-9	10+	Total
N	19	4	2	2	3	1	31
NS	16	3	2	2	3	1	27
Wt	1617.00	131.80	41.57	107.41	115.90	45.44	2059.12
Het Chi	34.21	4.28	0.34	0.08	10.22	0.00	66.46
Het df	18	3	1	1	2	0	30
Het P	*	N.S.	N.S.	N.S.	**	N.S.	***
Fixed RR	1.23	1.16	1.33	0.90	0.97	0.95	1.18
RRl	1.17	0.98	0.98	0.74	0.81	0.71	1.13
RRu	1.29	1.38	1.80	1.09	1.17	1.27	1.23
P	+++	(+)	(+)	N.S.	N.S.	N.S.	+++
Random RR	1.22	1.20	1.33	0.90	1.02	0.95	1.16
RRl	1.12	0.96	0.98	0.74	0.65	0.71	1.08
RRu	1.33	1.49	1.80	1.09	1.60	1.27	1.26
P	+++	N.S.	(+)	N.S.	N.S.	N.S.	+++
Between Chi							17.33
Between df							5
Between P							**

RR adjusted for sex

	Yes	No	Total
N	7	24	31
NS	7	20	27
Wt	279.69	1779.43	2059.12
Het Chi	11.04	39.42	66.46
Het df	6	23	30
Het P	(*)	*	***
Fixed RR	0.95	1.22	1.18
RRl	0.84	1.17	1.13
RRu	1.06	1.28	1.23
P	N.S.	+++	+++
Random RR	0.96	1.22	1.16
RRl	0.82	1.13	1.08
RRu	1.14	1.32	1.26
P	N.S.	+++	+++
Between Chi			16.00
Between df			1
Between P			***

Appendix Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
Adjusted

RR adjusted for age
Yes No Total

RR data

	N	6	25	31
	NS	6	21	27
	Wt	215.85	1843.27	2059.12
Het	Chi	7.51	52.68	66.46
Het	df	5	24	30
Het	P	N.S.	***	***
Fixed	RR	1.01	1.20	1.18
	RRl	0.88	1.15	1.13
	RRu	1.15	1.26	1.23
	P	N.S.	+++	+++
Random	RR	1.02	1.20	1.16
	RRl	0.86	1.10	1.08
	RRu	1.20	1.30	1.26
	P	N.S.	+++	+++
Between	Chi			6.27
Between	df			1
Between	P			*

RR adjusted for other ETS

	N	6	25	31
	NS	6	21	27
	Wt	279.24	1779.88	2059.12
Het	Chi	16.55	46.22	66.46
Het	df	5	24	30
Het	P	**	**	***
Fixed	RR	1.06	1.20	1.18
	RRl	0.95	1.15	1.13
	RRu	1.19	1.26	1.23
	P	N.S.	+++	+++
Random	RR	1.11	1.18	1.16
	RRl	0.90	1.09	1.08
	RRu	1.38	1.28	1.26
	P	N.S.	+++	+++
Between	Chi			3.69
Between	df			1
Between	P			(*)

RR adjusted for factor other than sex, age, other ETS

	N	9	22	31
	NS	8	19	27
	Wt	328.68	1730.44	2059.12
Het	Chi	18.58	37.77	66.46
Het	df	8	21	30
Het	P	*	*	***
Fixed	RR	1.01	1.22	1.18
	RRl	0.90	1.16	1.13
	RRu	1.12	1.28	1.23
	P	N.S.	+++	+++
Random	RR	1.05	1.21	1.16
	RRl	0.88	1.12	1.08
	RRu	1.24	1.31	1.26
	P	N.S.	+++	+++
Between	Chi			10.12
Between	df			1
Between	P			**

Appendix Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Lifetime Asthma
 Adjusted

	Original	<u>Derivation of RR/CI</u>		Other	Total
	Numbers	SumNumbs			

RR data

N	8	14	5	4	31
NS	8	11	4	4	27
Wt	360.16	778.49	129.16	791.31	2059.12
Het Chi	12.95	32.17	3.43	6.24	66.46
Het df	7	13	4	3	30
Het P	(*)	**	N.S.	N.S.	***
Fixed RR	1.02	1.18	1.23	1.26	1.18
RRl	0.92	1.10	1.03	1.17	1.13
RRu	1.13	1.27	1.46	1.35	1.23
P	N.S.	+++	+	+++	+++
Random RR	1.03	1.24	1.23	1.19	1.16
RRl	0.89	1.09	1.03	0.99	1.08
RRu	1.19	1.41	1.46	1.44	1.26
P	N.S.	+++	+	(+)	+++
Between Chi					11.68
Between df					3
Between P					**

Appendix Table A53 - 4

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Lifetime Asthma
 Unadjusted

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALDAWO	3		m	6	15	all	As:ME	*	2000	CS	0	Father	NotFathr	ever	never
ALFRA1	1		b	7	12	all	As:ME	1986	1990	CS	0	Father	NotFathr	unspec	non
CHEN2	4	x	b	6	17	all	NAmer	1993	1996	CS	0	Father	NotFathr	ever	never
DOLD	11	x	b	9	11	all	Eu:Ger	1989	1992	CS	0	Father	NotFathr	unspec	non
ECE	6		b	6	15	all	Eu:est	1999	2001	CS	0	Father	NotFathr	current	non
FERGUS	11	x	b	0	6	all	Auslia	1977	1985	Pr	0	Father	NotFathr	in life	non
FORAST	11	x	b	7	11	all	Eu:Ita	1987	1992	CS	0	Father	NotFathr	unspec	non
GOREN2	1		b	7	11	all	As:ME	1982	1995	CS	0	Father	NotFathr	ever	never
GORTM1	4		b	0	17	all	NAmer	1977	1982	CS	7	Father	NotFathr	current	non
HU2	3		b	20	22	all	NAmer	1986	1997	Pr	0	Father	NotFathr	13-15y	non
JENKIN	2		m	7	7	all	Auslia	1968	1993	CS	0	Father	NotFathr	current	non
JENKIN	4		f	7	7	all	Auslia	1968	1993	CS	0	Father	NotFathr	current	non
KAY	11	x	b	3	11	all	Eu:UK	*	1995	CS	0	Father	NotFathr	unspec	non
KIVITY	3		b	8	17	all	As:ME	*	2001	CS	0	Father	NotFathr	unspec	non
LAM1	17		b	12	15	all	As:FE	1994	1998	CS	4	Father	NoHhMemb	unspec	non
LAM2	9		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LIS	2		b	12	14	all	Eu:est	1992	1997	CS	0	Father	NotFathr	unspec	non
LISTER	2	x	b	0	4	all	Auslia	1989	1998	CS	0	Father	NotFathr	current	non
MARTIN	3		m	0	12	all	NAmer	1972	1992	Pr	0	Father	LowFathr	<5y	non
MARTIN	4		f	0	12	all	NAmer	1972	1992	Pr	0	Father	LowFathr	<5y	non
MCCON2	3		b	5	9	all	NAmer	1980	1986	CS	0	Father	NotFathr	in life	non
MCKEEV	8		b	0	11	all	Eu:UK	*	2001	Pr	0	Father	NotFathr	ever	never
MURRAY	2	x	m	1	17	all	NAmer	1986	1990	CS	0	Father	NotFathr	unspec	non
MURRAY	4	x	f	1	17	all	NAmer	1986	1990	CS	0	Father	NotFathr	unspec	non
RATAGE	2		b	5	15	all	As:cen	1996	2000	CC	0	Father	NotFathr	unspec	non
SHAMSS	1		b	6	7	all	Eu:UK	*	1999	CS	0	Father	NotFathr	unspec	non
SHERMA	4		b	5	23	all	NAmer	1975	1990	Pr	2	Father	NotFathr	ever	never
SOYSET	5		b	7	13	all	Eu:Sca	1989	1995	CS	0	Father	NotFathr	in life	non
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	FathOnly	NoParent	current	never
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	FathOnly	NoParent	current	never
WITHER	3		b	14	16	all	Eu:UK	1995	1998	CS	0	Father	NotFathr	current	non

Appendix Table A53 - 5

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALDAWO	3	m	0	76	402	65	939	2.73	(1.92- 3.88)
ALFRA1	1	b	0	-	-	-	-	1.32	(1.01- 1.72)
CHEN2	4	b	0	55	476	38	323	0.98	(0.63- 1.52)
DOLD	11	b	0	110	1218	301	3535	1.06	(0.84- 1.33)
ECE	6	b	0	261	1503	169	1107	1.14	(0.92- 1.40)
*FERGUS	11	b	0	64	431	69	601	1.29	(0.94- 1.78)
FORAST	11	b	0	131	1511	85	1070	1.09	(0.82- 1.45)
GOREN2	1	b	0	351	2781	300	2734	1.15	(0.98- 1.35)
GORTM1	4	b	7	-	-	-	-	1.49	(1.08- 2.06)
HU2	3	b	0	-	-	-	-	1.30	(0.90- 1.80)
JENKIN	2	m	0	446	1891	366	1635	1.05	(0.90- 1.23)
JENKIN	4	f	0	310	2000	227	1656	1.13	(0.94- 1.36)
Subtotal JENKIN								1.08	(0.96- 1.22)
KAY	11	b	0	76	233	135	633	1.53	(1.11- 2.10)
KIVITY	3	b	0	77	488	63	615	1.54	(1.08- 2.19)
LAM1	17	b	4	-	-	201	-	0.92	(0.72- 1.17)
LAM2	9	b	4	-	-	-	-	0.87	(0.64- 1.17)
LIS	2	b	0	-	-	-	-	1.10	(0.80- 1.50)
LISTER	2	b	0	-	-	-	-	0.87	(0.69- 1.09)
*MARTIN	3	m	0	14	102	39	269	0.95	(0.54- 1.67)
*MARTIN	4	f	0	8	85	17	244	1.35	(0.61- 3.02)
Subtotal MARTIN								1.07	(0.67- 1.69)
MCCON2	3	b	0	6	93	9	115	0.82	(0.28- 2.40)
*MCKEEV	8	b	0	1118	5264	1132	6823	1.28	(1.19- 1.38)
MURRAY	2	m	0	68	46	135	136	1.49	(0.96- 2.32)
MURRAY	4	f	0	27	42	61	102	1.07	(0.60- 1.92)
Subtotal MURRAY								1.32	(0.93- 1.88)
RATAGE	2	b	0	51	29	69	31	0.79	(0.42- 1.47)
SHAMSS	1	b	0	-	-	-	-	1.10	(0.84- 1.44)
*SHERMA	4	b	2	-	-	-	-	1.14	(0.63- 2.06)
SOYSET	5	b	0	32	298	19	269	1.52	(0.84- 2.75)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
WITHER	3	b	0	132	386	366	1360	1.27	(1.01- 1.60)
Partial Totals				3844	20222	3964	24443		
*prospective study									

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALDAWO	3	m	0	1.00	31.16	21.42	0.0000
ALFRA1	1	b	0	0.28	54.22	0.56	0.0409
CHEN2	4	b	0	-0.02	20.12	0.75	0.9356
DOLD	11	b	0	0.06	73.98	1.01	0.6126
ECE	6	b	0	0.13	88.36	0.19	0.2260
*FERGUS	11	b	0	0.26	38.26	0.26	0.1115
FORAST	11	b	0	0.09	47.63	0.37	0.5462
GOREN2	1	b	0	0.14	144.77	0.18	0.0922
GORTM1	4	b	7	0.40	36.85	1.84	0.0155
HU2	3	b	0	0.26	31.98	0.24	0.1379
JENKIN	2	m	0	0.05	163.54	2.49	0.5042
JENKIN	4	f	0	0.12	114.48	0.32	0.1886
Subtotal JENKIN				-0.18	278.02	2.81	
KAY	11	b	0	0.42	37.83	2.35	0.0090
KIVITY	3	b	0	0.43	30.74	2.02	0.0166
LAM1	17	b	4	-0.08	65.19	4.37	0.5008
LAM2	9	b	4	-0.14	42.22	4.18	0.3655
LIS	2	b	0	0.10	38.89	0.25	0.5523
LISTER	2	b	0	-0.14	73.50	7.28	0.2325
*MARTIN	3	m	0	-0.05	11.97	0.63	0.8497
*MARTIN	4	f	0	0.30	5.95	0.09	0.4631
Subtotal MARTIN				-0.11	17.92	0.73	
MCCON2	3	b	0	-0.19	3.36	0.46	0.7232
*MCKEEV	8	b	0	0.25	693.81	3.54	0.0000
MURRAY	2	m	0	0.40	19.53	0.97	0.0784
MURRAY	4	f	0	0.07	11.49	0.12	0.8065
Subtotal MURRAY				0.12	31.02	1.09	
RATAGE	2	b	0	-0.24	9.92	1.68	0.4582

Appendix Table A53 - 5

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
SHAMSS	1	b	0	0.10	52.89	0.34	0.4882
*SHERMA	4	b	2	0.13	10.95	0.02	0.6646
SOYSET	5	b	0	0.42	10.99	0.65	0.1648
VENNER	6	m	0	0.09	27.66	0.18	0.6182
VENNER	3	f	0	0.18	28.98	0.00	0.3399
Subtotal	VENNER			-0.08	56.63	0.18	
WITHER	3	b	0	0.24	73.35	0.30	0.0402

RR data

	N	31
	NS	27
	Wt	2094.54
Het	Chi	59.08
Het	df	30
Het	P	**
Fixed	RR	1.19
	RR1	1.14
	RRu	1.24
	P	+++
Random	RR	1.18
	RR1	1.10
	RRu	1.27
	P	+++
Asymm	P	N.S.

Appendix Table A53 - 6

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Lifetime Asthma
 Unadjusted

RR data

	N	31							
	NS	27							
	Wt	2094.54							
Het	Chi	59.08							
Het	df	30							
Het	P	**							
Fixed	RR	1.19							
	RR1	1.14							
	RRu	1.24							
	P	+++							
Random	RR	1.18							
	RR1	1.10							
	RRu	1.27							
	P	+++							
Asymm	P	N.S.							
			<u>Sex</u>						
			both	male	female	Total			
	N	22		5	4	31			
	NS	22		5	4	31			
	Wt	1679.79	253.85	160.90	2094.54				
Het	Chi	32.85	25.59	0.28	59.08				
Het	df	21	4	3	30				
Het	P	*	***	N.S.	**				
Fixed	RR	1.19	1.22	1.15	1.19				
	RR1	1.14	1.08	0.98	1.14				
	RRu	1.25	1.37	1.34	1.24				
	P	+++	++	(+)	+++				
Random	RR	1.16	1.36	1.15	1.18				
	RR1	1.08	0.92	0.98	1.10				
	RRu	1.24	2.00	1.34	1.27				
	P	+++	N.S.	(+)	+++				
Between	Chi				0.36				
Between	df				2				
Between	P				N.S.				
			<u>Continent</u>						
			NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	9			9	9	4		31
	NS	7			9	8	3		27
	Wt	152.21		1117.73	434.83	389.78			2094.54
Het	Chi	4.85		7.42	34.59	4.87			59.08
Het	df	8		8	8	3			30
Het	P	N.S.		N.S.	***	N.S.			**
Fixed	RR	1.24		1.24	1.19	1.06			1.19
	RR1	1.06		1.17	1.08	0.96			1.14
	RRu	1.46		1.31	1.30	1.17			1.24
	P	++		+++	+++	N.S.			+++
Random	RR	1.24		1.24	1.22	1.06			1.18
	RR1	1.06		1.17	0.99	0.93			1.10
	RRu	1.46		1.31	1.50	1.21			1.27
	P	++		+++	(+)	N.S.			+++
Between	Chi								7.35
Between	df								3
Between	P								(*)

Appendix Table A53 - 6

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Lifetime Asthma
 Unadjusted

Start year of study
 <1970 1970-79 1980-89 1990+ unknown Total

RR data

N	2	5	10	9	5	31
NS	1	4	9	8	5	27
Wt	278.02	103.98	471.45	394.67	846.42	2094.54
Het Chi	0.34	2.09	10.16	7.25	20.43	59.08
Het df	1	4	9	8	4	30
Het P	N.S.	N.S.	N.S.	N.S.	***	**
Fixed RR	1.08	1.30	1.12	1.07	1.32	1.19
RRl	0.96	1.07	1.03	0.97	1.24	1.14
RRu	1.22	1.57	1.23	1.18	1.42	1.24
P	N.S.	++	+	N.S.	+++	+++
Random RR	1.08	1.30	1.13	1.07	1.51	1.18
RRl	0.96	1.07	1.02	0.97	1.18	1.10
RRu	1.22	1.57	1.24	1.18	1.94	1.27
P	N.S.	++	+	N.S.	++	+++
Between Chi						18.81
Between df						4
Between P						***

Study type
 CC Pr CS Total

N	1	6	24	31
NS	1	5	21	27
Wt	9.92	792.93	1291.70	2094.54
Het Chi	0.00	1.25	50.77	59.08
Het df	0	5	23	30
Het P	N.S.	N.S.	***	**
Fixed RR	0.79	1.27	1.15	1.19
RRl	0.42	1.19	1.09	1.14
RRu	1.47	1.37	1.21	1.24
P	N.S.	+++	+++	+++
Random RR	0.79	1.27	1.18	1.18
RRl	0.42	1.19	1.08	1.10
RRu	1.47	1.37	1.28	1.27
P	N.S.	+++	+++	+++
Between Chi				7.06
Between df				2
Between P				*

Appendix Table A53 - 7

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ALBA	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURR	BUTZ	CHEN1	CUNNI2	DEBENE	DELL	DODGE	EHRLI2
	FARBE1	FARBE2	FARBE3	FAROOQ	FIELDE	FLYNN1	FLYNN2	GILLIL	GOLD	GOREN1	GOREN3	GOREN4	GOREN5	GOREN6	GURKAN	HAJNAL
	HU1	KALYO1	KAPLAN	KEARNE	KELLY	KENDIR	KERSHA	KUEHR	KUHR	LEEDER	LEROUX	MAIER	MCCON1	MONTEF	MOYES1	MOYES2
	NHANE3	NILSSO	NYSTAD	OCONNE	ODDY	POKHAR	PONSON	RASANE	RENNIE	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK	SANZOR
	SCHENK	SELCUK	SENNHA	SIGURS	SPIEKE	SQUILL	STANHO	STERN2	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VERHOE	VOLKME
	VONMAF	WEITZ1	WOLFO1	WOLFO2	WOLFO3	XU	ZEJDA									
5	BURCHF	GORTM2	STAZI	ZEIGER												
13	ALFRA2															

Appendix Table A53 - 8

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP													
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2													
Adjusted - insufficient data for metaanalysis																
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ALFRA1	3	b	7	12	all	As:ME	1986	1990	CS	6	Father	NotFathr	unspec	non	1.04	?
BURCHF	10	m	0	19	all	NAmer	1962	1986	CS	3	FathOnly	NoParent	current	never	0.84	?
BURCHF	13	f	0	19	all	NAmer	1962	1986	CS	3	FathOnly	NoParent	current	never	0.65	?
FERGUS	23	b	0	6	all	Auslia	1977	1985	Pr	9	Father	NotFathr	in life	non	*	n
GOREN2	6	b	7	11	all	As:ME	1982	1995	CS	3	Father	NotFathr	ever	never	*	n
GORTM2	2	b	0	17	all	NAmer	1980	1982	CS	0	Father	NotFathr	current	non	*	n
JENKIN	6	b	7	7	all	Auslia	1968	1993	CS	8	Father	NotFathr	current	non	*	n
SOYSET	15	b	7	13	all	Eu:Sca	1989	1995	CS	6	Father	NotFathr	in life	non	*	n
STAZI	8	b	0	5	all	Eu:Ita	1993	2002	CS	7	Father	NotFathr	in life	non	*	n
WITHER	7	b	14	16	all	Eu:UK	1995	1998	CS	6	Father	NotFathr	current	non	*	n
ZEIGER	2	b	0	7	all	NAmer	1981	1995	Pr	4	Father	NotFathr	unspec	non	*	n
Unadjusted - insufficient data for metaanalysis: as for adjusted plus the following																
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
GORTM1	2	b	0	17	all	NAmer	1977	1982	CS	0	Father	NotFathr	current	non	*	y
STAZI	3	b	0	5	all	Eu:Ita	1993	2002	CS	2	Father	NotFathr	in life	non	*	n

Appendix Table A54 -

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Paternal exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : father regardless of mother, father only
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : none in household, neither parent, not father
- 9) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A53 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A54 - 1

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	CompA53	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALDAWO	3		m	6	15	all	As:ME	*	2000	CS	0	Father	NotFathr	ever	never
ALFRA1	1		b	7	12	all	As:ME	1986	1990	CS	0	Father	NotFathr	unspec	non
CHEN2	30		b	6	17	all	NAmer	1993	1996	CS	6	Father	NotFathr	ever	never
DOLD	6	x	b	9	11	all	Eu:Ger	1989	1992	CS	0	Father	NoParent	unspec	non
ECE	1	x	b	6	15	all	Eu:est	1999	2001	CS	0	Father	NoHhMemb	current	non
FERGUS	6	x	b	0	6	all	Auslia	1977	1985	Pr	0	Father	NoParent	in life	non
FORAST	19	x	b	7	11	all	Eu:Ita	1987	1992	CS	9	Father	NoParent	unspec	non
GOREN2	1		b	7	11	all	As:ME	1982	1995	CS	0	Father	NotFathr	ever	never
GORTM1	4		b	0	17	all	NAmer	1977	1982	CS	7	Father	NotFathr	current	non
HU2	3		b	20	22	all	NAmer	1986	1997	Pr	0	Father	NotFathr	13-15y	non
JENKIN	2		m	7	7	all	Auslia	1968	1993	CS	0	Father	NotFathr	current	non
JENKIN	4		f	7	7	all	Auslia	1968	1993	CS	0	Father	NotFathr	current	non
KAY	19	x	b	3	11	all	Eu:UK	*	1995	CS	1	Father	NoParent	unspec	non
KIVITY	3		b	8	17	all	As:ME	*	2001	CS	0	Father	NotFathr	unspec	non
LAM1	17		b	12	15	all	As:FE	1994	1998	CS	4	Father	NoHhMemb	unspec	non
LAM2	9		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
LIS	2		b	12	14	all	Eu:est	1992	1997	CS	0	Father	NotFathr	unspec	non
LISTER	4		b	0	4	all	Auslia	1989	1998	CS	8	Father	NotFathr	current	non
MARTIN	3		m	0	12	all	NAmer	1972	1992	Pr	0	Father	LowFathr	<5y	non
MARTIN	4		f	0	12	all	NAmer	1972	1992	Pr	0	Father	LowFathr	<5y	non
MCCON2	3		b	5	9	all	NAmer	1980	1986	CS	0	Father	NotFathr	in life	non
MCKEEV	8		b	0	11	all	Eu:UK	*	2001	Pr	0	Father	NotFathr	ever	never
MURRAY	6		m	1	17	all	NAmer	1986	1990	CS	1	Father	NotFathr	unspec	non
MURRAY	8		f	1	17	all	NAmer	1986	1990	CS	1	Father	NotFathr	unspec	non
RATAGE	3	x	b	5	15	all	As:cen	1996	2000	CC	0	Father	NoHhMemb	unspec	non
SHAMSS	1		b	6	7	all	Eu:UK	*	1999	CS	0	Father	NotFathr	unspec	non
SHERMA	4		b	5	23	all	NAmer	1975	1990	Pr	2	Father	NotFathr	ever	never
SOYSET	5		b	7	13	all	Eu:Sca	1989	1995	CS	0	Father	NotFathr	in life	non
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	FathOnly	NoParent	current	never
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	FathOnly	NoParent	current	never
WITHER	5	x	b	14	16	all	Eu:UK	1995	1998	CS	0	Father	NoHhMemb	current	non

Appendix Table A54 - 2

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
ALDAWO	3	m	0	76	402	65	939	2.73	(1.92- 3.88)
ALFRA1	1	b	0	-	-	-	-	1.32	(1.01- 1.72)
CHEN2	30	b	6	55	-	38	-	0.93	(0.56- 1.53)
DOLD	6	b	0	110	1218	235	2931	1.13	(0.89- 1.43)
ECE	1	b	0	261	1503	132	906	1.19	(0.95- 1.49)
*FERGUS	6	b	0	64	431	58	460	1.18	(0.85- 1.64)
FORAST	19	b	9	131	-	52	-	1.21	(0.87- 1.69)
GOREN2	1	b	0	351	2781	300	2734	1.15	(0.98- 1.35)
GORTM1	4	b	7	-	-	-	-	1.49	(1.08- 2.06)
HU2	3	b	0	-	-	-	-	1.30	(0.90- 1.80)
JENKIN	2	m	0	446	1891	366	1635	1.05	(0.90- 1.23)
JENKIN	4	f	0	310	2000	227	1656	1.13	(0.94- 1.36)
Subtotal JENKIN								1.08	(0.96- 1.22)
KAY	19	b	1	76	-	108	-	1.53	(1.09- 2.17)
KIVITY	3	b	0	77	488	63	615	1.54	(1.08- 2.19)
LAM1	17	b	4	-	-	201	-	0.92	(0.72- 1.17)
LAM2	9	b	4	-	-	-	-	0.87	(0.64- 1.17)
LIS	2	b	0	-	-	-	-	1.10	(0.80- 1.50)
LISTER	4	b	8	-	-	-	-	0.77	(0.60- 0.98)
*MARTIN	3	m	0	14	102	39	269	0.95	(0.54- 1.67)
*MARTIN	4	f	0	8	85	17	244	1.35	(0.61- 3.02)
Subtotal MARTIN								1.07	(0.67- 1.69)
MCCON2	3	b	0	6	93	9	115	0.82	(0.28- 2.40)
*MCKEEV	8	b	0	1118	5264	1132	6823	1.28	(1.19- 1.38)
MURRAY	6	m	1	68	-	135	-	1.54	(0.97- 2.44)
MURRAY	8	f	1	27	-	61	-	1.08	(0.60- 1.93)
Subtotal MURRAY								1.34	(0.94- 1.93)
RATAGE	3	b	0	51	29	58	30	0.91	(0.48- 1.71)
SHAMSS	1	b	0	-	-	-	-	1.10	(0.84- 1.44)
*SHERMA	4	b	2	-	-	-	-	1.14	(0.63- 2.06)
SOYSET	5	b	0	32	298	19	269	1.52	(0.84- 2.75)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
WITHER	5	b	0	132	386	296	1107	1.28	(1.01- 1.62)
Partial Totals				3844	17914	3709	20979		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALDAWO	3	m	0	1.00	31.16	21.27	0.0000
ALFRA1	1	b	0	0.28	54.22	0.53	0.0409
CHEN2	30	b	6	-0.07	15.21	0.96	0.7772
DOLD	6	b	0	0.12	68.93	0.24	0.3231
ECE	1	b	0	0.18	75.89	0.00	0.1262
*FERGUS	6	b	0	0.16	35.25	0.01	0.3315
FORAST	19	b	9	0.19	34.85	0.01	0.2604
GOREN2	1	b	0	0.14	144.77	0.22	0.0922
GORTM1	4	b	7	0.40	36.85	1.79	0.0155
HU2	3	b	0	0.26	31.98	0.22	0.1379
JENKIN	2	m	0	0.05	163.54	2.61	0.5042
JENKIN	4	f	0	0.12	114.48	0.35	0.1886
Subtotal JENKIN				-0.18	278.02	2.96	
KAY	19	b	1	0.43	32.41	1.97	0.0155
KIVITY	3	b	0	0.43	30.74	1.97	0.0166
LAM1	17	b	4	-0.08	65.19	4.47	0.5008
LAM2	9	b	4	-0.14	42.22	4.26	0.3655
LIS	2	b	0	0.10	38.89	0.27	0.5523
LISTER	4	b	8	-0.26	63.84	12.35	0.0368
*MARTIN	3	m	0	-0.05	11.97	0.65	0.8497
*MARTIN	4	f	0	0.30	5.95	0.09	0.4631
Subtotal MARTIN				-0.11	17.92	0.74	
MCCON2	3	b	0	-0.19	3.36	0.46	0.7232
*MCKEEV	8	b	0	0.25	693.81	3.25	0.0000
MURRAY	6	m	1	0.43	18.06	1.16	0.0665
MURRAY	8	f	1	0.08	11.26	0.12	0.7962
Subtotal MURRAY				0.15	29.31	1.27	
RATAGE	3	b	0	-0.09	9.55	0.71	0.7697

Appendix Table A54 - 2

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
SHAMSS	1	b	0	0.10	52.89	0.37	0.4882
*SHERMA	4	b	2	0.13	10.95	0.02	0.6646
SOYSET	5	b	0	0.42	10.99	0.64	0.1648
VENNER	6	m	0	0.09	27.66	0.19	0.6182
VENNER	3	f	0	0.18	28.98	0.00	0.3399
Subtotal	VENNER			-0.09	56.63	0.19	
WITHER	5	b	0	0.25	69.21	0.31	0.0407

RR data

	N	31
	NS	27
	Wt	2035.04
Het	Chi	61.49
Het	df	30
Het	P	***
Fixed	RR	1.20
	RR1	1.14
	RRu	1.25
	P	+++
Random	RR	1.18
	RR1	1.10
	RRu	1.27
	P	+++
Asymm	P	N.S.

Appendix Table A54 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Lifetime Asthma
 Adjusted

RR data

	N	31			
	NS	27			
	Wt	2035.04			
Het	Chi	61.49			
Het	df	30			
Het	P	***			
Fixed	RR	1.20			
	RRl	1.14			
	RRu	1.25			
	P	+++			
Random	RR	1.18			
	RRl	1.10			
	RRu	1.27			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	22	5	4	31
	NS	22	5	4	31
	Wt	1621.99	252.38	160.67	2035.04
Het	Chi	35.05	25.80	0.27	61.49
Het	df	21	4	3	30
Het	P	*	***	N.S.	***
Fixed	RR	1.20	1.22	1.15	1.20
	RRl	1.14	1.08	0.98	1.14
	RRu	1.26	1.38	1.34	1.25
	P	+++	++	(+)	+++
Random	RR	1.16	1.37	1.15	1.18
	RRl	1.07	0.92	0.98	1.10
	RRu	1.25	2.02	1.34	1.27
	P	+++	N.S.	(+)	+++
Between	Chi				0.38
Between	df				2
Between	P				N.S.

Appendix Table A54 - 7

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ALBA	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURR	BUTZ	CHEN1	CUNNI2	DEBENE	DELL	DODGE	EHRLI2
	FARBE1	FARBE2	FARBE3	FAROOQ	FIELDE	FLYNN1	FLYNN2	GILLIL	GOLD	GOREN1	GOREN3	GOREN4	GOREN5	GOREN6	GURKAN	HAJNAL
	HU1	KALYO1	KAPLAN	KEARNE	KELLY	KENDIR	KERSHA	KUEHR	KUHR	LEEDER	LEROUX	MAIER	MCCON1	MONTEF	MOYES1	MOYES2
	NHANE3	NILSSO	NYSTAD	OCONNE	ODDY	POKHAR	PONSON	RASANE	RENNIE	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK	SANZOR
	SCHENK	SELCUK	SENNHA	SIGURS	SPIEKE	SQUILL	STANHO	STERN2	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VERHOE	VOLKME
	VONMAF	WEITZ1	WOLFO1	WOLFO2	WOLFO3	XU	ZEJDA									
5	BURCHF	GORTM2	STAZI	ZEIGER												
13	ALFRA2															

Appendix Table A54 - 8

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP											RR	SIG	
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2													
Adjusted - insufficient data for metaanalysis																
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ALFRA1	3	b	7	12	all	As:ME	1986	1990	CS	6	Father	NotFathr	unspec	non	1.04	?
BURCHF	10	m	0	19	all	NAmer	1962	1986	CS	3	FathOnly	NoParent	current	never	0.84	?
BURCHF	13	f	0	19	all	NAmer	1962	1986	CS	3	FathOnly	NoParent	current	never	0.65	?
GOREN2	6	b	7	11	all	As:ME	1982	1995	CS	3	Father	NotFathr	ever	never	*	n
GORTM2	2	b	0	17	all	NAmer	1980	1982	CS	0	Father	NotFathr	current	non	*	n
JENKIN	6	b	7	7	all	Auslia	1968	1993	CS	8	Father	NotFathr	current	non	*	n
SOYSET	15	b	7	13	all	Eu:Sca	1989	1995	CS	6	Father	NotFathr	in life	non	*	n
STAZI	8	b	0	5	all	Eu:Ita	1993	2002	CS	7	Father	NotFathr	in life	non	*	n
ZEIGER	2	b	0	7	all	NAmer	1981	1995	Pr	4	Father	NotFathr	unspec	non	*	n

Appendix Table A55 -

IESAST - Meta-analysis of Lifetime Paternal Exposure
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Paternal exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : father regardless of mother, father only
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : not father, neither parent, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A7 - 1 are marked 'x' in Section -1) and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A55 - 1

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Adjusted

REF	NRR	CompA7	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	46	x	b	6	7	all	Eu:Ita	1994	1999	CC	11	Father	NotFathr	ever	never
AGABI2	46	x	b	13	14	all	Eu:Ita	1994	1999	CC	12	Father	NotFathr	ever	never
CHEN2	43	x	b	6	17	all	NAmer	1993	1996	CS	1	Father	NotFathr	ever	never
DAIGLE	2	x	b	0	*	all	NAmer	1986	1991	CC	0	Father	NotFathr	unspec	non
GILLIL	37	x	b	7	19	all	NAmer	1993	2001	CS	8	FathOnly	NoHhMemb	current	non
HJERN2	13		b	3	15	all	Eu:Sca	1996	2001	CS	9	Father	NotFathr	ever	never
HU2	4	x	b	20	22	all	NAmer	1986	1997	Pr	0	Father	NotFathr	13-15y	non
INFANT	6	x	b	3	4	all	NAmer	1988	1993	CC	0	Father	NotFathr	in life	non
JONES	3	x	b	4	16	all	Eu:UK	1996	1999	CC	0	Father	NotFathr	unspec	non
LAM1	19	x	b	12	15	all	As:FE	1994	1998	CS	4	Father	NoHhMemb	unspec	non
LAM2	12		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
MOUSSA	2	x	b	6	18	all	As:ME	1992	1996	CC	0	Father	NotFathr	unspec	non
MUMCUO	1	x	b	3	15	all	As:ME	1986	1994	CC	0	Father	NotFathr	unspec	non
SHOHAT	3	x	b	13	14	all	As:ME	1997	2002	CS	12	Father	NotFathr	unspec	non
SOTOQU	2	x	b	5	17	all	SCAmer	1987	1994	CS	0	Father	NotFathr	current	non
STERN1	2	x	b	7	12	all	NAmer	1983	1989	CS	0	Father	NotFathr	unspec	non
STODDA	11	x	b	0	17	all	NAmer	1986	1995	CS	9	Father	NotFathr	current	non
STRACH	12	x	b	13	18	all	Eu:UK	1993	1995	CC	4	Father	NotFathr	current	non
TARIQ	2	x	b	1	1	all	Eu:UK	1989	2000	Pr	8	Father	NotFathr	unspec	non
TOMINA	1	x	b	3	3	all	As:FE	1978	1985	CS	0	Father	NoHhMemb	unspec	non
WILLE1	15	x	b	3	15	all	Eu:Sca	1988	1991	CC	1	Father	NotFathr	current	non

Appendix Table A55 - 2

IESAST - Meta-analysis of Lifetime Paternal Exposure
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers				RR	95.00%CI	
				Exposed		Non-exposed				
				Case	Cont	Case	Cont			
AGABI1	46	b	11	662	-	258	-	1.12	(0.96- 1.30)	
AGABI2	46	b	12	941	-	317	-	1.15	(1.00- 1.32)	
CHEN2	43	b	1	42	-	32	-	0.85	(0.51- 1.41)	
DAIGLE	2	b	0	32	74	105	172	0.71	(0.44- 1.15)	
GILLIL	37	b	8	-	-	-	-	1.10	(0.70- 1.80)	
HJERN2	13	b	9	44	-	34	-	0.94	(0.62- 1.43)	
HU2	4	b	0	-	-	-	-	1.40	(1.00- 2.10)	
INFANT	6	b	0	160	182	297	275	0.81	(0.62- 1.06)	
JONES	3	b	0	39	43	61	57	0.85	(0.48- 1.49)	
LAM1	19	b	4	-	-	35	-	0.82	(0.47- 1.43)	
LAM2	12	b	4	-	-	-	-	0.69	(0.39- 1.22)	
MOUSSA	2	b	0	39	38	164	165	1.03	(0.63- 1.70)	
MUMCUO	1	b	0	119	41	181	59	0.95	(0.60- 1.50)	
SHOHAT	3	b	12	304	-	371	-	1.05	(0.84- 1.30)	
SOTOQU	2	b	0	202	592	355	1233	1.19	(0.97- 1.45)	
STERN1	2	b	0	26	551	24	716	1.41	(0.80- 2.48)	
STODDA	11	b	9	-	-	-	-	0.83	(0.67- 1.02)	
STRACH	12	b	4	86	-	398	-	0.86	(0.60- 1.23)	
TARIQ	2	b	8	-	-	-	-	0.91	(0.40- 1.86)	
TOMINA	1	b	0	59	5807	24	1995	0.84	(0.52- 1.36)	
WILLE1	15	b	1	20	-	29	-	0.72	(0.34- 1.54)	
Partial Totals				2775	7328	2685	4672			

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	46	b	11	0.11	167.16	1.21	0.1429
AGABI2	46	b	12	0.14	199.35	2.48	0.0485
CHEN2	43	b	1	-0.16	14.86	0.54	0.5310
DAIGLE	2	b	0	-0.34	16.64	2.32	0.1596
GILLIL	37	b	8	0.10	17.23	0.08	0.6924
HJERN2	13	b	9	-0.06	22.00	0.18	0.7716
HU2	4	b	0	0.34	27.91	2.65	0.0755
INFANT	6	b	0	-0.21	53.34	2.92	0.1328
JONES	3	b	0	-0.17	12.07	0.45	0.5654
LAM1	19	b	4	-0.20	12.41	0.64	0.4845
LAM2	12	b	4	-0.37	11.81	1.88	0.2022
MOUSSA	2	b	0	0.03	15.60	0.00	0.8993
MUMCUO	1	b	0	-0.06	18.09	0.13	0.8137
SHOHAT	3	b	12	0.05	80.57	0.03	0.6614
SOTOQU	2	b	0	0.17	97.39	1.95	0.0937
STERN1	2	b	0	0.34	12.00	1.18	0.2362
STODDA	11	b	9	-0.19	86.99	4.01	0.0822
STRACH	12	b	4	-0.15	29.82	0.96	0.4102
TARIQ	2	b	8	-0.09	6.51	0.10	0.8099
TOMINA	1	b	0	-0.17	16.87	0.66	0.4878
WILLE1	15	b	1	-0.33	6.73	0.86	0.3940

RR data

N	21
NS	21
Wt	925.35
Het Chi	25.22
Het df	20
Het P	N.S.
Fixed RR	1.03
RRl	0.96
RRu	1.10
P	N.S.
Random RR	1.00
RRl	0.93
RRu	1.09
P	N.S.
Asymm P	*

Appendix Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Current Asthma
Adjusted

	UK	Italy	<u>Country in Europe</u>		Total
			Germany	Scand	othWest East/Bal
RR data					
	N	3	2	2	7
	NS	3	2	2	7
	Wt	48.40	366.51	28.73	443.64
Het	Chi	0.02	0.06	0.37	4.98
Het	df	2	1	1	6
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	0.86	1.14	0.88	1.08
	RRl	0.65	1.03	0.61	0.99
	RRu	1.14	1.26	1.27	1.19
	P	N.S.	+	N.S.	(+)
Random	RR	0.86	1.14	0.88	1.08
	RRl	0.65	1.03	0.61	0.99
	RRu	1.14	1.26	1.27	1.19
	P	N.S.	+	N.S.	(+)
Between	Chi				4.52
Between	df				2
Between	P				N.S.

Country in Asia

	FarEast	Cent/SE	MidlEast	Total
	N	3	3	6
	NS	3	3	6
	Wt	41.09	114.26	155.35
Het	Chi	0.31	0.16	2.61
Het	df	2	2	5
Het	P	N.S.	N.S.	N.S.
Fixed	RR	0.79	1.03	0.96
	RRl	0.58	0.86	0.82
	RRu	1.07	1.24	1.12
	P	N.S.	N.S.	N.S.
Random	RR	0.79	1.03	0.96
	RRl	0.58	0.86	0.82
	RRu	1.07	1.24	1.12
	P	N.S.	N.S.	N.S.
Between	Chi			2.14
Between	df			1
Between	P			N.S.

Start year of study

	<1970	1970-79	1980-89	1990+	unknown	Total
	N	1	9	11		21
	NS	1	9	11		21
	Wt	16.87	325.61	582.88		925.35
Het	Chi	0.00	15.33	7.81		25.22
Het	df	0	8	10		20
Het	P	N.S.	(*)	N.S.		N.S.
Fixed	RR	0.84	0.98	1.06		1.03
	RRl	0.52	0.88	0.98		0.96
	RRu	1.36	1.09	1.15		1.10
	P	N.S.	N.S.	N.S.		N.S.
Random	RR	0.84	0.98	1.06		1.00
	RRl	0.52	0.82	0.98		0.93
	RRu	1.36	1.16	1.15		1.09
	P	N.S.	N.S.	N.S.		N.S.
Between	Chi					2.07
Between	df					2
Between	P					N.S.

Appendix Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure

Current Asthma
Adjusted

Publication year

	<1990	1990-94	1995-99	2000+	Total
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RR data

N	2	5	10	4	21
NS	2	5	10	4	21
Wt	28.87	192.20	577.99	126.30	925.35
Het Chi	1.83	7.77	14.70	0.39	25.22
Het df	1	4	9	3	20
Het P	N.S.	N.S.	(*)	N.S.	N.S.
Fixed RR	1.04	0.98	1.04	1.03	1.03
RRl	0.73	0.85	0.96	0.86	0.96
RRu	1.50	1.13	1.13	1.22	1.10
P	N.S.	N.S.	N.S.	N.S.	N.S.
Random RR	1.07	0.92	1.00	1.03	1.00
RRl	0.65	0.73	0.89	0.86	0.93
RRu	1.75	1.15	1.13	1.22	1.09
P	N.S.	N.S.	N.S.	N.S.	N.S.
Between Chi					0.53
Between df					3
Between P					N.S.

Study type

	CC	Pr	CS	Total
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N	9	2	10	21
NS	9	2	10	21
Wt	518.81	34.42	372.13	925.35
Het Chi	11.24	0.98	10.62	25.22
Het df	8	1	9	20
Het P	N.S.	N.S.	N.S.	N.S.
Fixed RR	1.04	1.29	0.99	1.03
RRl	0.96	0.92	0.90	0.96
RRu	1.13	1.80	1.10	1.10
P	N.S.	N.S.	N.S.	N.S.
Random RR	0.99	1.29	0.98	1.00
RRl	0.88	0.92	0.87	0.93
RRu	1.12	1.80	1.11	1.09
P	N.S.	N.S.	N.S.	N.S.
Between Chi				2.37
Between df				2
Between P				N.S.

Highest age in RR

	0-9	10-14	15+	unknown	Total
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N	4	4	12	1	21
NS	4	4	12	1	21
Wt	243.87	303.73	361.11	16.64	925.35
Het Chi	4.86	3.85	11.87	0.00	25.22
Het df	3	3	11	0	20
Het P	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed RR	1.02	1.11	0.99	0.71	1.03
RRl	0.90	0.99	0.89	0.44	0.96
RRu	1.15	1.24	1.10	1.15	1.10
P	N.S.	(+)	N.S.	N.S.	N.S.
Random RR	0.96	1.09	0.99	0.71	1.00
RRl	0.79	0.94	0.88	0.44	0.93
RRu	1.18	1.27	1.10	1.15	1.09
P	N.S.	N.S.	N.S.	N.S.	N.S.
Between Chi					4.64
Between df					3
Between P					N.S.

Appendix Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Adjusted

Population setting
 general school medical allergy other Total

RR data

N		4	11	6		21
NS		4	11	6		21
Wt	130.36	671.25	123.74			925.35
Het Chi	0.30	8.94	0.87			25.22
Het df	3	10	5			20
Het P	N.S.	N.S.	N.S.			N.S.
Fixed RR	0.85	1.11	0.82			1.03
RRl	0.72	1.03	0.69			0.96
RRu	1.01	1.20	0.98			1.10
P	(-)	++	-			N.S.
Random RR	0.85	1.11	0.82			1.00
RRl	0.72	1.03	0.69			0.93
RRu	1.01	1.20	0.98			1.09
P	(-)	++	-			N.S.
Between Chi						15.11
Between df						2
Between P						***

Respondent for smoking
 child parent med rec mix/oth Total

N		3	11	7	21
NS		3	11	7	21
Wt	104.79	627.81		192.75	925.35
Het Chi	2.23	14.07		6.60	25.22
Het df	2	10		6	20
Het P	N.S.	N.S.		N.S.	N.S.
Fixed RR	0.97	1.06		0.95	1.03
RRl	0.80	0.98		0.82	0.96
RRu	1.18	1.15		1.09	1.10
P	N.S.	N.S.		N.S.	N.S.
Random RR	0.95	1.03		0.96	1.00
RRl	0.76	0.92		0.82	0.93
RRu	1.19	1.14		1.12	1.09
P	N.S.	N.S.		N.S.	N.S.
Between Chi					2.32
Between df					2
Between P					N.S.

Child smokers
 exc/none included ignored Total

N		4	4	13	21
NS		4	4	13	21
Wt	208.61	257.72	459.02		925.35
Het Chi	3.51	2.62	12.94		25.22
Het df	3	3	12		20
Het P	N.S.	N.S.	N.S.		N.S.
Fixed RR	1.07	1.15	0.95		1.03
RRl	0.93	1.02	0.87		0.96
RRu	1.22	1.30	1.04		1.10
P	N.S.	+	N.S.		N.S.
Random RR	1.03	1.15	0.95		1.00
RRl	0.86	1.02	0.86		0.93
RRu	1.24	1.30	1.04		1.09
P	N.S.	+	N.S.		N.S.
Between Chi					6.15
Between df					2
Between P					*

Appendix Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Current Asthma
Adjusted

Physician diagnosis (current)
yes no/mix Total

RR data

N	9	12	21
NS	9	12	21
Wt	176.20	749.15	925.35
Het Chi	1.86	15.71	25.22
Het df	8	11	20
Het P	N.S.	N.S.	N.S.
Fixed RR	0.85	1.08	1.03
RRl	0.74	1.00	0.96
RRu	0.99	1.15	1.10
P	-	+	N.S.
Random RR	0.85	1.06	1.00
RRl	0.74	0.96	0.93
RRu	0.99	1.17	1.09
P	-	N.S.	N.S.
Between Chi			7.65
Between df			1
Between P			**

Respondent for diagnosis (current)

	medrec	parent	child	mixed	Total
N	7	9	5		21
NS	7	9	5		21
Wt	139.34	631.31	154.71		925.35
Het Chi	1.62	11.30	5.38		25.22
Het df	6	8	4		20
Het P	N.S.	N.S.	N.S.		N.S.
Fixed RR	0.84	1.07	1.03		1.03
RRl	0.71	0.99	0.88		0.96
RRu	0.99	1.16	1.21		1.10
P	-	(+)	N.S.		N.S.
Random RR	0.84	1.06	1.02		1.00
RRl	0.71	0.95	0.83		0.93
RRu	0.99	1.17	1.24		1.09
P	-	N.S.	N.S.		N.S.
Between Chi					6.92
Between df					2
Between P					*

Questionnaire for symptoms

	ISAAC	ATS	other	Total
N	4	1	16	21
NS	4	1	16	21
Wt	476.90	12.00	436.46	925.35
Het Chi	2.43	0.00	16.31	25.22
Het df	3	0	15	20
Het P	N.S.	N.S.	N.S.	N.S.
Fixed RR	1.10	1.41	0.95	1.03
RRl	1.01	0.80	0.86	0.96
RRu	1.21	2.48	1.04	1.10
P	+	N.S.	N.S.	N.S.
Random RR	1.10	1.41	0.94	1.00
RRl	1.01	0.80	0.85	0.93
RRu	1.21	2.48	1.04	1.09
P	+	N.S.	N.S.	N.S.
Between Chi				6.48
Between df				2
Between P				*

Appendix Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Adjusted
 Number of cases (current asthma)

	1-50	51-100	101-200	201+	unknown	Total
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RR data

N	2	6	3	10		21
NS	2	6	3	10		21
Wt	18.73	90.02	51.06	765.54		925.35
Het Chi	1.94	0.75	5.01	13.47		25.22
Het df	1	5	2	9		20
Het P	N.S.	N.S.	(*)	N.S.		N.S.
Fixed RR	1.11	0.84	1.06	1.05		1.03
RRl	0.70	0.68	0.81	0.98		0.96
RRu	1.74	1.04	1.40	1.13		1.10
P	N.S.	N.S.	N.S.	N.S.		N.S.
Random RR	1.06	0.84	1.00	1.03		1.00
RRl	0.55	0.68	0.62	0.94		0.93
RRu	2.02	1.04	1.60	1.13		1.09
P	N.S.	N.S.	N.S.	N.S.		N.S.
Between Chi						4.05
Between df						3
Between P						N.S.

Study adjusts for or is matched on sex

	Yes	No	Total
--	-----	----	-------

N	17	4	21
NS	17	4	21
Wt	792.36	132.99	925.35
Het Chi	20.39	3.59	25.22
Het df	16	3	20
Het P	N.S.	N.S.	N.S.
Fixed RR	1.01	1.12	1.03
RRl	0.95	0.95	0.96
RRu	1.09	1.33	1.10
P	N.S.	N.S.	N.S.
Random RR	0.99	1.10	1.00
RRl	0.90	0.88	0.93
RRu	1.08	1.37	1.09
P	N.S.	N.S.	N.S.
Between Chi			1.23
Between df			1
Between P			N.S.

Study adjusts for or is matched on age

N	14	7	21
NS	14	7	21
Wt	677.37	247.98	925.35
Het Chi	17.12	5.60	25.22
Het df	13	6	20
Het P	N.S.	N.S.	N.S.
Fixed RR	1.00	1.12	1.03
RRl	0.92	0.99	0.96
RRu	1.07	1.27	1.10
P	N.S.	(+)	N.S.
Random RR	0.96	1.12	1.00
RRl	0.87	0.99	0.93
RRu	1.06	1.27	1.09
P	N.S.	(+)	N.S.
Between Chi			2.49
Between df			1
Between P			N.S.

Appendix Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Adjusted

Study adjusts for or is matched on race

Yes No Total

RR data

N	4	17	21
NS	4	17	21
Wt	212.70	712.66	925.35
Het Chi	6.52	18.37	25.22
Het df	3	16	20
Het P	(*)	N.S.	N.S.
Fixed RR	0.99	1.04	1.03
RRl	0.87	0.97	0.96
RRu	1.14	1.12	1.10
P	N.S.	N.S.	N.S.
Random RR	1.04	1.01	1.00
RRl	0.83	0.93	0.93
RRu	1.28	1.10	1.09
P	N.S.	N.S.	N.S.
Between Chi			0.32
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	11	10	21
NS	11	10	21
Wt	698.78	226.58	925.35
Het Chi	14.41	10.40	25.22
Het df	10	9	20
Het P	N.S.	N.S.	N.S.
Fixed RR	1.02	1.07	1.03
RRl	0.94	0.94	0.96
RRu	1.09	1.22	1.10
P	N.S.	N.S.	N.S.
Random RR	0.98	1.04	1.00
RRl	0.89	0.90	0.93
RRu	1.09	1.21	1.09
P	N.S.	N.S.	N.S.
Between Chi			0.40
Between df			1
Between P			N.S.

Study adjusts for or is matched on SES

N	9	12	21
NS	9	12	21
Wt	656.24	269.11	925.35
Het Chi	14.06	10.64	25.22
Het df	8	11	20
Het P	(*)	N.S.	N.S.
Fixed RR	1.04	0.99	1.03
RRl	0.97	0.88	0.96
RRu	1.13	1.12	1.10
P	N.S.	N.S.	N.S.
Random RR	1.02	0.99	1.00
RRl	0.91	0.88	0.93
RRu	1.14	1.12	1.09
P	N.S.	N.S.	N.S.
Between Chi			0.52
Between df			1
Between P			N.S.

Appendix Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Adjusted

Study adjusts for family medical history

RR data

	Yes	No	Total
N	8	13	21
NS	8	13	21
Wt	555.65	369.71	925.35
Het Chi	9.16	14.77	25.22
Het df	7	12	20
Het P	N.S.	N.S.	N.S.
Fixed RR	1.06	0.98	1.03
RRl	0.98	0.89	0.96
RRu	1.15	1.09	1.10
P	N.S.	N.S.	N.S.
Random RR	1.03	0.97	1.00
RRl	0.93	0.86	0.93
RRu	1.15	1.10	1.09
P	N.S.	N.S.	N.S.
Between Chi			1.29
Between df			1
Between P			N.S.

Study adjusts for family composition

	Yes	No	Total
N	4	17	21
NS	4	17	21
Wt	204.42	720.94	925.35
Het Chi	2.43	19.79	25.22
Het df	3	16	20
Het P	N.S.	N.S.	N.S.
Fixed RR	0.92	1.06	1.03
RRl	0.81	0.99	0.96
RRu	1.06	1.14	1.10
P	N.S.	N.S.	N.S.
Random RR	0.92	1.03	1.00
RRl	0.81	0.94	0.93
RRu	1.06	1.13	1.09
P	N.S.	N.S.	N.S.
Between Chi			3.00
Between df			1
Between P			(*)

Study adjusts for cooking, heating, air conditioning

	Yes	No	Total
N	5	16	21
NS	5	16	21
Wt	466.31	459.04	925.35
Het Chi	9.55	15.00	25.22
Het df	4	15	20
Het P	*	N.S.	N.S.
Fixed RR	1.06	1.00	1.03
RRl	0.96	0.91	0.96
RRu	1.16	1.10	1.10
P	N.S.	N.S.	N.S.
Random RR	0.99	1.00	1.00
RRl	0.84	0.91	0.93
RRu	1.16	1.10	1.09
P	N.S.	N.S.	N.S.
Between Chi			0.66
Between df			1
Between P			N.S.

Appendix Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Adjusted

Study adjusts for housing quality, crowding, damp, mould
 Yes No Total

RR data

	N	6	15	21
	NS	6	15	21
	Wt	545.10	380.26	925.35
Het	Chi	7.58	16.28	25.22
Het	df	5	14	20
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.06	0.98	1.03
	RRl	0.98	0.89	0.96
	RRu	1.16	1.09	1.10
	P	N.S.	N.S.	N.S.
Random	RR	1.03	0.97	1.00
	RRl	0.92	0.87	0.93
	RRu	1.16	1.09	1.09
	P	N.S.	N.S.	N.S.
Between	Chi			1.35
Between	df			1
Between	P			N.S.

Study adjusts for pets, animal contact, farming

	N	4	17	21
	NS	4	17	21
	Wt	157.05	768.30	925.35
Het	Chi	3.34	19.43	25.22
Het	df	3	16	20
Het	P	N.S.	N.S.	N.S.
Fixed	RR	0.92	1.05	1.03
	RRl	0.79	0.98	0.96
	RRu	1.07	1.13	1.10
	P	N.S.	N.S.	N.S.
Random	RR	0.91	1.03	1.00
	RRl	0.77	0.95	0.93
	RRu	1.08	1.13	1.09
	P	N.S.	N.S.	N.S.
Between	Chi			2.44
Between	df			1
Between	P			N.S.

Study adjusts for child's medical history

	N	5	16	21
	NS	5	16	21
	Wt	108.57	816.79	925.35
Het	Chi	1.83	18.71	25.22
Het	df	4	15	20
Het	P	N.S.	N.S.	N.S.
Fixed	RR	0.85	1.06	1.03
	RRl	0.70	0.99	0.96
	RRu	1.02	1.13	1.10
	P	(-)	N.S.	N.S.
Random	RR	0.85	1.04	1.00
	RRl	0.70	0.95	0.93
	RRu	1.02	1.13	1.09
	P	(-)	N.S.	N.S.
Between	Chi			4.68
Between	df			1
Between	P			*

Appendix Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Adjusted

Study adjusts for in utero exposure

Yes No Total

RR data

	N	4	17	21
	NS	4	17	21
	Wt	390.24	535.11	925.35
Het	Chi	0.39	18.83	25.22
Het	df	3	16	20
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.13	0.96	1.03
	RRl	1.02	0.88	0.96
	RRu	1.25	1.05	1.10
	P	+	N.S.	N.S.
Random	RR	1.13	0.95	1.00
	RRl	1.02	0.86	0.93
	RRu	1.25	1.05	1.09
	P	+	N.S.	N.S.
Between	Chi			6.00
Between	df			1
Between	P			*

Study adjusts for in life exposure

	N	9	12	21
	NS	9	12	21
	Wt	634.51	290.84	925.35
Het	Chi	14.00	11.21	25.22
Het	df	8	11	20
Het	P	(*)	N.S.	N.S.
Fixed	RR	1.03	1.03	1.03
	RRl	0.95	0.92	0.96
	RRu	1.11	1.16	1.10
	P	N.S.	N.S.	N.S.
Random	RR	0.98	1.03	1.00
	RRl	0.87	0.92	0.93
	RRu	1.11	1.16	1.09
	P	N.S.	N.S.	N.S.
Between	Chi			0.01
Between	df			1
Between	P			N.S.

Exposed group : Who is smoker

Father FathOnly Total

	N	20	1	21
	NS	20	1	21
	Wt	908.13	17.23	925.35
Het	Chi	25.14	0.00	25.22
Het	df	19	0	20
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.03	1.10	1.03
	RRl	0.96	0.69	0.96
	RRu	1.10	1.76	1.10
	P	N.S.	N.S.	N.S.
Random	RR	1.00	1.10	1.00
	RRl	0.92	0.69	0.93
	RRu	1.09	1.76	1.09
	P	N.S.	N.S.	N.S.
Between	Chi			0.08
Between	df			1
Between	P			N.S.

Appendix Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Adjusted

Exposed group : when Exposed
 lif/ev age<7y current unspec other Total

RR data

	N	5	6	9	1	21
	NS	5	6	9	1	21
	Wt	456.71	249.98	190.75	27.91	925.35
Het	Chi	6.53	8.69	4.81	0.00	25.22
Het	df	4	5	8	0	20
Het	P	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.07	0.96	0.97	1.40	1.03
	RR1	0.98	0.85	0.84	0.97	0.96
	RRu	1.18	1.09	1.12	2.03	1.10
	P	N.S.	N.S.	N.S.	(+)	N.S.
Random	RR	1.04	0.94	0.97	1.40	1.00
	RR1	0.91	0.78	0.84	0.97	0.93
	RRu	1.18	1.13	1.12	2.03	1.09
	P	N.S.	N.S.	N.S.	(+)	N.S.
Between	Chi					5.20
Between	df					3
Between	P					N.S.

Unexposed group : who is smoker
 NoHhMemb NoParent NotSpPar Total

	N	4	17	21
	NS	4	17	21
	Wt	58.32	867.04	925.35
Het	Chi	1.64	21.85	25.22
Het	df	3	16	20
Het	P	N.S.	N.S.	N.S.
Fixed	RR	0.87	1.04	1.03
	RR1	0.67	0.97	0.96
	RRu	1.13	1.11	1.10
	P	N.S.	N.S.	N.S.
Random	RR	0.87	1.02	1.00
	RR1	0.67	0.93	0.93
	RRu	1.13	1.11	1.09
	P	N.S.	N.S.	N.S.
Between	Chi			1.72
Between	df			1
Between	P			N.S.

Unexposed group : time
 non never non+othr Total

	N	17	4	21
	NS	17	4	21
	Wt	521.98	403.37	925.35
Het	Chi	18.90	1.93	25.22
Het	df	16	3	20
Het	P	N.S.	N.S.	N.S.
Fixed	RR	0.97	1.11	1.03
	RR1	0.89	1.01	0.96
	RRu	1.06	1.23	1.10
	P	N.S.	+	N.S.
Random	RR	0.96	1.11	1.00
	RR1	0.87	1.01	0.93
	RRu	1.06	1.23	1.09
	P	N.S.	+	N.S.
Between	Chi			4.39
Between	df			1
Between	P			*

Appendix Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Current Asthma
Adjusted

		<u>Number of adjustment variables</u>						
		0	1	2	3-5	6-9	10+	Total
RR data	N	9	2		3	4	3	21
	NS	9	2		3	4	3	21
	Wt	269.91	21.59		54.04	132.72	447.08	925.35
Het	Chi	12.26	0.13		0.41	1.26	0.47	25.22
Het	df	8	1		2	3	2	20
Het	P	N.S.	N.S.		N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.03	0.81		0.81	0.88	1.12	1.03
	RRl	0.91	0.53		0.62	0.74	1.02	0.96
	RRu	1.16	1.23		1.06	1.05	1.23	1.10
	P	N.S.	N.S.		N.S.	N.S.	+	N.S.
Random	RR	1.01	0.81		0.81	0.88	1.12	1.00
	RRl	0.86	0.53		0.62	0.74	1.02	0.93
	RRu	1.19	1.23		1.06	1.05	1.23	1.09
	P	N.S.	N.S.		N.S.	N.S.	+	N.S.
Between	Chi							10.69
Between	df							4
Between	P							*

RR adjusted for sex

		Yes	No	Total
	N	10	11	21
	NS	10	11	21
	Wt	633.85	291.51	925.35
Het	Chi	11.52	13.57	25.22
Het	df	9	10	20
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.04	1.01	1.03
	RRl	0.96	0.90	0.96
	RRu	1.12	1.13	1.10
	P	N.S.	N.S.	N.S.
Random	RR	1.01	0.99	1.00
	RRl	0.92	0.85	0.93
	RRu	1.12	1.14	1.09
	P	N.S.	N.S.	N.S.
Between	Chi			0.12
Between	df			1
Between	P			N.S.

RR adjusted for age

	N	8	13	21
	NS	8	13	21
	Wt	546.78	378.58	925.35
Het	Chi	11.40	13.75	25.22
Het	df	7	12	20
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.04	1.02	1.03
	RRl	0.95	0.92	0.96
	RRu	1.13	1.13	1.10
	P	N.S.	N.S.	N.S.
Random	RR	0.99	1.01	1.00
	RRl	0.87	0.90	0.93
	RRu	1.12	1.13	1.09
	P	N.S.	N.S.	N.S.
Between	Chi			0.07
Between	df			1
Between	P			N.S.

Appendix Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Current Asthma
Adjusted

RR adjusted for other ETS
Yes No Total

RR data

	N	6	15	21
	NS	6	15	21
	Wt	547.31	378.04	925.35
Het	Chi	8.20	15.84	25.22
Het	df	5	14	20
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.06	0.99	1.03
	RRl	0.97	0.89	0.96
	RRu	1.15	1.09	1.10
	P	N.S.	N.S.	N.S.
Random	RR	1.03	0.97	1.00
	RRl	0.92	0.87	0.93
	RRu	1.17	1.09	1.09
	P	N.S.	N.S.	N.S.
Between	Chi			1.17
Between	df			1
Between	P			N.S.

RR adjusted for factor other than sex, age, other ETS

	N	11	10	21
	NS	11	10	21
	Wt	648.71	276.65	925.35
Het	Chi	12.09	13.10	25.22
Het	df	10	9	20
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.03	1.02	1.03
	RRl	0.96	0.91	0.96
	RRu	1.11	1.15	1.10
	P	N.S.	N.S.	N.S.
Random	RR	1.01	1.00	1.00
	RRl	0.92	0.85	0.93
	RRu	1.11	1.16	1.09
	P	N.S.	N.S.	N.S.
Between	Chi			0.02
Between	df			1
Between	P			N.S.

Derivation of RR/CI

	Original	Numbers	SumNumbs	Other	Total	
	N	7	7	2	5	21
	NS	7	7	2	5	21
	Wt	243.43	178.53	68.20	435.20	925.35
Het	Chi	8.39	6.74	0.02	3.95	25.22
Het	df	6	6	1	4	20
Het	P	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed	RR	0.96	1.06	0.82	1.09	1.03
	RRl	0.85	0.91	0.65	0.99	0.96
	RRu	1.09	1.23	1.04	1.20	1.10
	P	N.S.	N.S.	N.S.	(+)	N.S.
Random	RR	0.97	1.03	0.82	1.09	1.00
	RRl	0.82	0.87	0.65	0.99	0.93
	RRu	1.15	1.22	1.04	1.20	1.09
	P	N.S.	N.S.	N.S.	(+)	N.S.
Between	Chi					6.12
Between	df					3
Between	P					N.S.

Appendix Table A55 - 4

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Unadjusted

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	36	x	b	6	7	all	Eu:Ita	1994	1999	CC	0	Father	NotFathr	ever	never
AGABI2	36	x	b	13	14	all	Eu:Ita	1994	1999	CC	0	Father	NotFathr	ever	never
CHEN2	17	x	b	6	17	all	NAmer	1993	1996	CS	0	Father	NotFathr	ever	never
DAIGLE	2	b	b	0	*	all	NAmer	1986	1991	CC	0	Father	NotFathr	unspec	non
GILLIL	37	b	b	7	19	all	NAmer	1993	2001	CS	8	FathOnly	NoHhMemb	current	non
HJERN2	5	x	b	3	15	all	Eu:Sca	1996	2001	CS	0	Father	NotFathr	ever	never
HU2	4	b	b	20	22	all	NAmer	1986	1997	Pr	0	Father	NotFathr	13-15y	non
INFANT	6	b	b	3	4	all	NAmer	1988	1993	CC	0	Father	NotFathr	in life	non
JONES	3	b	b	4	16	all	Eu:UK	1996	1999	CC	0	Father	NotFathr	unspec	non
LAM1	19	b	b	12	15	all	As:FE	1994	1998	CS	4	Father	NoHhMemb	unspec	non
LAM2	12	b	b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
MOUSSA	2	b	b	6	18	all	As:ME	1992	1996	CC	0	Father	NotFathr	unspec	non
MUMCUO	1	b	b	3	15	all	As:ME	1986	1994	CC	0	Father	NotFathr	unspec	non
SHOHAT	1	x	b	13	14	all	As:ME	1997	2002	CS	0	Father	NotFathr	unspec	non
SOTOQU	2	b	b	5	17	all	SCAmer	1987	1994	CS	0	Father	NotFathr	current	non
STERN1	2	b	b	7	12	all	NAmer	1983	1989	CS	0	Father	NotFathr	unspec	non
STODDA	11	b	b	0	17	all	NAmer	1986	1995	CS	9	Father	NotFathr	current	non
STRACH	6	x	b	13	18	all	Eu:UK	1993	1995	CC	0	Father	NotFathr	current	non
TARIQ	2	b	b	1	1	all	Eu:UK	1989	2000	Pr	8	Father	NotFathr	unspec	non
TOMINA	1	b	b	3	3	all	As:FE	1978	1985	CS	0	Father	NoHhMemb	unspec	non
WILLE1	9	x	b	3	15	all	Eu:Sca	1988	1991	CC	0	Father	NotFathr	current	non

Appendix Table A55 - 5

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	36	b	0	662	10018	258	4347	1.11	(0.96- 1.29)
AGABI2	36	b	0	941	10419	317	4144	1.18	(1.03- 1.35)
CHEN2	17	b	0	42	489	32	329	0.88	(0.55- 1.43)
DAIGLE	2	b	0	32	74	105	172	0.71	(0.44- 1.15)
GILLIL	37	b	8	-	-	-	-	1.10	(0.70- 1.80)
HJERN2	5	b	0	44	977	34	884	1.17	(0.74- 1.85)
HU2	4	b	0	-	-	-	-	1.40	(1.00- 2.10)
INFANT	6	b	0	160	182	297	275	0.81	(0.62- 1.06)
JONES	3	b	0	39	43	61	57	0.85	(0.48- 1.49)
LAM1	19	b	4	-	-	35	-	0.82	(0.47- 1.43)
LAM2	12	b	4	-	-	-	-	0.69	(0.39- 1.22)
MOUSSA	2	b	0	39	38	164	165	1.03	(0.63- 1.70)
MUMCUO	1	b	0	119	41	181	59	0.95	(0.60- 1.50)
SHOHAT	1	b	0	304	3809	371	5165	1.11	(0.95- 1.30)
SOTOQU	2	b	0	202	592	355	1233	1.19	(0.97- 1.45)
STERN1	2	b	0	26	551	24	716	1.41	(0.80- 2.48)
STODDA	11	b	9	-	-	-	-	0.83	(0.67- 1.02)
STRACH	6	b	0	86	87	398	387	0.96	(0.69- 1.34)
TARIQ	2	b	8	-	-	-	-	0.91	(0.40- 1.86)
TOMINA	1	b	0	59	5807	24	1995	0.84	(0.52- 1.36)
WILLE1	9	b	0	20	34	29	43	0.87	(0.42- 1.80)
Partial Totals				2775	33161	2685	19971		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	36	b	0	0.11	174.94	0.49	0.1554
AGABI2	36	b	0	0.17	219.56	2.75	0.0139
CHEN2	17	b	0	-0.12	16.63	0.53	0.6121
DAIGLE	2	b	0	-0.34	16.64	2.65	0.1596
GILLIL	37	b	8	0.10	17.23	0.03	0.6924
HJERN2	5	b	0	0.16	18.42	0.20	0.4983
HU2	4	b	0	0.34	27.91	2.22	0.0755
INFANT	6	b	0	-0.21	53.34	3.61	0.1328
JONES	3	b	0	-0.17	12.07	0.58	0.5654
LAM1	19	b	4	-0.20	12.41	0.79	0.4845
LAM2	12	b	4	-0.37	11.81	2.14	0.2022
MOUSSA	2	b	0	0.03	15.60	0.01	0.8993
MUMCUO	1	b	0	-0.06	18.09	0.22	0.8137
SHOHAT	1	b	0	0.11	155.25	0.41	0.1892
SOTOQU	2	b	0	0.17	97.39	1.30	0.0937
STERN1	2	b	0	0.34	12.00	0.99	0.2362
STODDA	11	b	9	-0.19	86.99	5.03	0.0822
STRACH	6	b	0	-0.04	35.44	0.31	0.8137
TARIQ	2	b	8	-0.09	6.51	0.14	0.8099
TOMINA	1	b	0	-0.17	16.87	0.84	0.4878
WILLE1	9	b	0	-0.14	7.29	0.27	0.7120

RR data

N	21
NS	21
Wt	1032.39
Het Chi	25.51
Het df	20
Het P	N.S.
Fixed RR	1.06
RRl	0.99
RRu	1.12
P	(+)
Random RR	1.03
RRl	0.95
RRu	1.11
P	N.S.
Asymm P	*

Appendix Table A55 - 6

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Unadjusted

Start year of study
 <1970 1970-79 1980-89 1990+ unknown Total

RR data

	N	1	9	11		21
	NS	1	9	11		21
	Wt	16.87	326.17	689.35		1032.39
	Het Chi	0.00	14.79	7.18		25.51
	Het df	0	8	10		20
	Het P	N.S.	(*)	N.S.		N.S.
Fixed	RR	0.84	0.98	1.10		1.06
	RRl	0.52	0.88	1.02		0.99
	RRu	1.36	1.10	1.18		1.12
	P	N.S.	N.S.	+		(+)
Random	RR	0.84	0.98	1.10		1.03
	RRl	0.52	0.83	1.02		0.95
	RRu	1.36	1.16	1.18		1.11
	P	N.S.	N.S.	+		N.S.
Between	Chi					3.54
Between	df					2
Between	P					N.S.

Study type
 CC Pr CS Total

	N	9	2	10	21
	NS	9	2	10	21
	Wt	552.96	34.42	445.00	1032.39
	Het Chi	10.86	0.98	12.01	25.51
	Het df	8	1	9	20
	Het P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.06	1.29	1.03	1.06
	RRl	0.98	0.92	0.94	0.99
	RRu	1.16	1.80	1.13	1.12
	P	N.S.	N.S.	N.S.	(+)
Random	RR	1.02	1.29	1.01	1.03
	RRl	0.91	0.92	0.90	0.95
	RRu	1.14	1.80	1.15	1.11
	P	N.S.	N.S.	N.S.	N.S.
Between	Chi				1.66
Between	df				2
Between	P				N.S.

Appendix Table A55 - 7

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	DEKKER	DEKOK	DIJKST	DOTTER	EHRLI1	FAGBUL	FIELDE	FORSB1
	FORSB2	FORSB3	FUJI	GOLD	GUPTA	HABY	HJERN1	HOST	HU1	HUGHES	JAAKKO	KALYO1	KALYO2	KARUNA	KNIGHT	LAU
	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	NHANE3	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR
	RONMAR	SARRAZ	SCHMIT	SELCUK	SOMERV	STANHO	STERN2	WANG	WEITZ1	WEITZ2	WILLE2	WOLFO1	WOLFO2	WOLFO3	YANG	ZHENG
5	ARSHAD	AZIZI	CUNNI1	MCCON2	MOHAME											

Appendix Table A55 - 8

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL
HJERN2	HJERN2	1	HJERN1/HJERN2
STERN1	STERN1	1	STERN1/STERN2

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ARSHAD	6	b	2	2	all	Eu:UK	1990	1992	Pr	8	Father	NotFathr	unspec	non	*	n
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	*	n
CUNNI1	12	b	8	11	all	NAmer	1988	1996	CS	9	Father	NotFathr	current	non	1.13	?
DAIGLE	4	b	0	*	all	NAmer	1986	1991	CC	8	Father	NotFathr	unspec	non	*	n
INFANT	13	b	3	4	all	NAmer	1988	1993	CC	19	Father	NotFathr	in life	non	*	n
MCCON2	6	b	5	9	all	NAmer	1980	1986	CS	0	Father	NotFathr	in life	non	*	n
MOHAME	3	b	9	11	all	Africa	1990	1995	CC	0	Father	NotFathr	unspec	non	*	n
TARIQ	17	b	4	4	all	Eu:UK	1989	2000	Pr	0	Father	NotFathr	unspec	non	*	n

Appendix Table A56 -

IESAST - Meta-analysis of Lifetime Paternal Exposure
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Paternal exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOPAR : father regardless of mother, father only
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : none in household, neither parent, not father
- 9) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group
and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3
(and those which actually differ from the adjusted results in Appendix Table A55 - 1 are marked 'x' in Section -1)
(Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A56 - 1

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Adjusted

REF	NRR	CompA55	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	46		b	6	7	all	Eu:Ita	1994	1999	CC	11	Father	NotFathr	ever	never
AGABI2	46		b	13	14	all	Eu:Ita	1994	1999	CC	12	Father	NotFathr	ever	never
CHEN2	43		b	6	17	all	NAmer	1993	1996	CS	1	Father	NotFathr	ever	never
DAIGLE	2		b	0	*	all	NAmer	1986	1991	CC	0	Father	NotFathr	unspec	non
GILLIL	37		b	7	19	all	NAmer	1993	2001	CS	8	FathOnly	NoHhMemb	current	non
HJERN2	13		b	3	15	all	Eu:Sca	1996	2001	CS	9	Father	NotFathr	ever	never
HU2	4		b	20	22	all	NAmer	1986	1997	Pr	0	Father	NotFathr	13-15y	non
INFANT	6		b	3	4	all	NAmer	1988	1993	CC	0	Father	NotFathr	in life	non
JONES	3		b	4	16	all	Eu:UK	1996	1999	CC	0	Father	NotFathr	unspec	non
LAM1	19		b	12	15	all	As:FE	1994	1998	CS	4	Father	NoHhMemb	unspec	non
LAM2	12		b	8	13	all	As:FE	1995	1999	CS	4	Father	NoHhMemb	current	non
MOUSSA	2		b	6	18	all	As:ME	1992	1996	CC	0	Father	NotFathr	unspec	non
MUMCUO	1		b	3	15	all	As:ME	1986	1994	CC	0	Father	NotFathr	unspec	non
SHOHAT	3		b	13	14	all	As:ME	1997	2002	CS	12	Father	NotFathr	unspec	non
SOTOQU	2		b	5	17	all	SCAmer	1987	1994	CS	0	Father	NotFathr	current	non
STERN1	2		b	7	12	all	NAmer	1983	1989	CS	0	Father	NotFathr	unspec	non
STODDA	11		b	0	17	all	NAmer	1986	1995	CS	9	Father	NotFathr	current	non
STRACH	12		b	13	18	all	Eu:UK	1993	1995	CC	4	Father	NotFathr	current	non
TARIQ	2		b	1	1	all	Eu:UK	1989	2000	Pr	8	Father	NotFathr	unspec	non
TOMINA	1		b	3	3	all	As:FE	1978	1985	CS	0	Father	NoHhMemb	unspec	non
WILLE1	5	x	b	3	15	all	Eu:Sca	1988	1991	CC	0	Father	NoParent	current	non

Appendix Table A56 - 2

IESAST - Meta-analysis of Lifetime Paternal Exposure
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	46	b	11	662	-	258	-	1.12	(0.96- 1.30)
AGABI2	46	b	12	941	-	317	-	1.15	(1.00- 1.32)
CHEN2	43	b	1	42	-	32	-	0.85	(0.51- 1.41)
DAIGLE	2	b	0	32	74	105	172	0.71	(0.44- 1.15)
GILLIL	37	b	8	-	-	-	-	1.10	(0.70- 1.80)
HJERN2	13	b	9	44	-	34	-	0.94	(0.62- 1.43)
HU2	4	b	0	-	-	-	-	1.40	(1.00- 2.10)
INFANT	6	b	0	160	182	297	275	0.81	(0.62- 1.06)
JONES	3	b	0	39	43	61	57	0.85	(0.48- 1.49)
LAM1	19	b	4	-	-	35	-	0.82	(0.47- 1.43)
LAM2	12	b	4	-	-	-	-	0.69	(0.39- 1.22)
MOUSSA	2	b	0	39	38	164	165	1.03	(0.63- 1.70)
MUMCUO	1	b	0	119	41	181	59	0.95	(0.60- 1.50)
SHOHAT	3	b	12	304	-	371	-	1.05	(0.84- 1.30)
SOTOQU	2	b	0	202	592	355	1233	1.19	(0.97- 1.45)
STERN1	2	b	0	26	551	24	716	1.41	(0.80- 2.48)
STODDA	11	b	9	-	-	-	-	0.83	(0.67- 1.02)
STRACH	12	b	4	86	-	398	-	0.86	(0.60- 1.23)
TARIQ	2	b	8	-	-	-	-	0.91	(0.40- 1.86)
TOMINA	1	b	0	59	5807	24	1995	0.84	(0.52- 1.36)
WILLE1	5	b	0	20	34	12	30	1.47	(0.62- 3.50)
Partial Totals				2775	7362	2668	4702		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	46	b	11	0.11	167.16	1.08	0.1429
AGABI2	46	b	12	0.14	199.35	2.28	0.0485
CHEN2	43	b	1	-0.16	14.86	0.57	0.5310
DAIGLE	2	b	0	-0.34	16.64	2.37	0.1596
GILLIL	37	b	8	0.10	17.23	0.07	0.6924
HJERN2	13	b	9	-0.06	22.00	0.20	0.7716
HU2	4	b	0	0.34	27.91	2.57	0.0755
INFANT	6	b	0	-0.21	53.34	3.04	0.1328
JONES	3	b	0	-0.17	12.07	0.47	0.5654
LAM1	19	b	4	-0.20	12.41	0.66	0.4845
LAM2	12	b	4	-0.37	11.81	1.93	0.2022
MOUSSA	2	b	0	0.03	15.60	0.00	0.8993
MUMCUO	1	b	0	-0.06	18.09	0.14	0.8137
SHOHAT	3	b	12	0.05	80.57	0.02	0.6614
SOTOQU	2	b	0	0.17	97.39	1.83	0.0937
STERN1	2	b	0	0.34	12.00	1.15	0.2362
STODDA	11	b	9	-0.19	86.99	4.18	0.0822
STRACH	12	b	4	-0.15	29.82	1.01	0.4102
TARIQ	2	b	8	-0.09	6.51	0.11	0.8099
TOMINA	1	b	0	-0.17	16.87	0.69	0.4878
WILLE1	5	b	0	0.39	5.10	0.63	0.3838

RR data

N	21
NS	21
Wt	923.72
Het Chi	24.99
Het df	20
Het P	N.S.
Fixed RR	1.03
RRl	0.97
RRu	1.10
P	N.S.
Random RR	1.01
RRl	0.93
RRu	1.10
P	N.S.
Asymm P	(*)

Appendix Table A56 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Adjusted

RR data

	N	21			
	NS	21			
	Wt	923.72			
Het	Chi	24.99			
Het	df	20			
Het	P	N.S.			
Fixed	RR	1.03			
	RRl	0.97			
	RRu	1.10			
	P	N.S.			
Random	RR	1.01			
	RRl	0.93			
	RRu	1.10			
	P	N.S.			
Asymm	P	(*)			
			<u>Sex</u>		
			both	male	female
					Total
	N	21			21
	NS	21			21
	Wt	923.72			923.72
Het	Chi	24.99			24.99
Het	df	20			20
Het	P	N.S.			N.S.
Fixed	RR	1.03			1.03
	RRl	0.97			0.97
	RRu	1.10			1.10
	P	N.S.			N.S.
Random	RR	1.01			1.01
	RRl	0.93			0.93
	RRu	1.10			1.10
	P	N.S.			N.S.
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table A56 - 7

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	DEKKER	DEKOK	DIJKST	DOTTER	EHRLI1	FAGBUL	FIELDE	FORSB1
	FORSB2	FORSB3	FUJI	GOLD	GUPTA	HABY	HJERN1	HOST	HU1	HUGHES	JAAKKO	KALYO1	KALYO2	KARUNA	KNIGHT	LAU
	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	NHANE3	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR
	RONMAR	SARRAZ	SCHMIT	SELCUK	SOMERV	STANHO	STERN2	WANG	WEITZ1	WEITZ2	WILLE2	WOLFO1	WOLFO2	WOLFO3	YANG	ZHENG
5	ARSHAD	AZIZI	CUNNI1	MCCON2	MOHAME											

Appendix Table A56 - 8

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL
HJERN2	HJERN2	1	HJERN1/HJERN2
STERN1	STERN1	1	STERN1/STERN2

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
ARSHAD	6	b	2	2	all	Eu:UK	1990	1992	Pr	8	Father	NotFathr	unspec	non	*	n
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non	*	n
CUNNI1	12	b	8	11	all	NAmer	1988	1996	CS	9	Father	NotFathr	current	non	1.13	?
DAIGLE	4	b	0	*	all	NAmer	1986	1991	CC	8	Father	NotFathr	unspec	non	*	n
INFANT	13	b	3	4	all	NAmer	1988	1993	CC	19	Father	NotFathr	in life	non	*	n
MCCON2	6	b	5	9	all	NAmer	1980	1986	CS	0	Father	NotFathr	in life	non	*	n
MOHAME	3	b	9	11	all	Africa	1990	1995	CC	0	Father	NotFathr	unspec	non	*	n
TARIQ	17	b	4	4	all	Eu:UK	1989	2000	Pr	0	Father	NotFathr	unspec	non	*	n

Appendix Table A57 -

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Paternal only exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 7) UNEXSO : not father, neither parent, none in household
- 8) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 9) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 10) RACE : all in study or nearest available, otherwise by race
- 11) ONSET : yes, no (prevalence)
- 12) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A53 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A57 - 1

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	CompA53	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
DOLD	9	x	b	9	11	all	Eu:Ger	1989	1992	CS	0	FathOnly	NotFathr	unspec	non
FERGUS	9	x	b	0	6	all	Auslia	1977	1985	Pr	0	FathOnly	NotFathr	in life	non
FORAST	22	x	b	7	11	all	Eu:Ita	1987	1992	CS	9	FathOnly	NotFathr	unspec	non
KAY	22	x	b	3	11	all	Eu:UK	*	1995	CS	1	FathOnly	NotFathr	unspec	non
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	FathOnly	NoParent	current	never
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	FathOnly	NoParent	current	never

Appendix Table A57 - 2

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
DOLD	9	b	0	55	602	301	3535	1.07	(0.79- 1.45)
*FERGUS	9	b	0	29	179	69	601	1.41	(0.95- 2.11)
FORAST	22	b	9	58	-	85	-	0.86	(0.61- 1.21)
KAY	22	b	1	38	-	135	-	1.25	(0.81- 1.92)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
Partial Totals				611	1724	688	4382		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
DOLD	9	b	0	0.07	42.65	0.05	0.6455
*FERGUS	9	b	0	0.34	23.97	1.36	0.0918
FORAST	22	b	9	-0.15	32.76	2.16	0.3880
KAY	22	b	1	0.22	20.63	0.28	0.3108
VENNER	6	m	0	0.09	27.66	0.00	0.6182
VENNER	3	f	0	0.18	28.98	0.15	0.3399
Subtotal VENNER				0.06	56.63	0.15	

RR data

	N	6
	NS	5
	Wt	176.63
Het	Chi	4.01
Het	df	5
Het	P	N.S.
Fixed	RR	1.11
	RRl	0.96
	RRu	1.29
	P	N.S.
Random	RR	1.11
	RRl	0.96
	RRu	1.29
	P	N.S.
Asymm	P	N.S.

Appendix Table A57 - 3

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
 Lifetime Asthma
 Adjusted

RR data

	N	6			
	NS	5			
	Wt	176.63			
Het	Chi	4.01			
Het	df	5			
Het	P	N.S.			
Fixed	RR	1.11			
	RRl	0.96			
	RRu	1.29			
	P	N.S.			
Random	RR	1.11			
	RRl	0.96			
	RRu	1.29			
	P	N.S.			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	4	1	1	6
	NS	4	1	1	5
	Wt	120.00	27.66	28.98	176.63
Het	Chi	3.83	0.00	0.00	4.01
Het	df	3	0	0	5
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.10	1.10	1.19	1.11
	RRl	0.92	0.76	0.83	0.96
	RRu	1.31	1.60	1.72	1.29
	P	N.S.	N.S.	N.S.	N.S.
Random	RR	1.10	1.10	1.19	1.11
	RRl	0.90	0.76	0.83	0.96
	RRu	1.35	1.60	1.72	1.29
	P	N.S.	N.S.	N.S.	N.S.
Between	Chi				0.18
Between	df				2
Between	P				N.S.

Appendix Table A57 - 7

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
Lifetime Asthma
Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURR	BUTZ	CHEN1	CHEN2	CUNNI2
	DEBENE	DELL	DODGE	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FIELDE	FLYNN1	FLYNN2	GILLIL	GOLD	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	HU1	HU2	JENKIN	KALYO1	KAPLAN	KEARNE	KELLY	KENDIR
	KERSHA	KIVITY	KUEHR	KUHR	LAM1	LAM2	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MONTEF
	MOYES1	MOYES2	MURRAY	NHANE3	NILSSO	NYSTAD	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3
	RONMAR	ROSASV	RUDNIK	SANZOR	SCHENK	SELCUK	SENNHA	SHAMSS	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN2
	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VERHOE	VOLKME	VONMAF	WEITZ1	WITHER	WOLFO1	WOLFO2	WOLFO3	XU	ZEIGER
	ZEJDA															
5	BURCHF															

Appendix Table A57 - 8

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
BURCHF	10	m	0	19	all	NAmer	1962	1986	CS	3	FathOnly	NoParent	current	never	0.84	?
BURCHF	13	f	0	19	all	NAmer	1962	1986	CS	3	FathOnly	NoParent	current	never	0.65	?

Appendix Table A58 -

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Paternal only exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 7) UNEXSO : none in household, neither parent, not father
- 8) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 9) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 10) RACE : all in study or nearest available, otherwise by race
- 11) ONSET : yes, no (prevalence)
- 12) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A54 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A58 - 1

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	CompA54	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	
DOLD	2		x	b	9	11	all	Eu:Ger	1989	1992	CS	0	FathOnly	NoParent	unspec	non
FERGUS	2		x	b	0	6	all	Auslia	1977	1985	Pr	0	FathOnly	NoParent	in life	non
FORAST	15		x	b	7	11	all	Eu:Ita	1987	1992	CS	9	FathOnly	NoParent	unspec	non
KAY	15		x	b	3	11	all	Eu:UK	*	1995	CS	1	FathOnly	NoParent	unspec	non
VENNER	6			m	8	15	all	As:FE	1995	2001	CS	0	FathOnly	NoParent	current	never
VENNER	3			f	8	15	all	As:FE	1995	2001	CS	0	FathOnly	NoParent	current	never

Appendix Table A58 - 2

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
DOLD	2	b	0	55	602	235	2931	1.14	(0.84- 1.55)
*FERGUS	2	b	0	29	179	58	460	1.28	(0.85- 1.94)
FORAST	15	b	9	58	-	52	-	1.00	(0.70- 1.50)
KAY	15	b	1	38	-	108	-	1.29	(0.83- 2.01)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
Partial Totals				611	1724	551	3637		
*prospective study									

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
DOLD	2	b	0	0.13	40.92	0.01	0.4035
*FERGUS	2	b	0	0.25	22.75	0.26	0.2318
FORAST	15	b	9	0.00	26.45	0.54	1.0000
KAY	15	b	1	0.25	19.64	0.24	0.2591
VENNER	6	m	0	0.09	27.66	0.06	0.6182
VENNER	3	f	0	0.18	28.98	0.03	0.3399
Subtotal VENNER				-0.01	56.63	0.10	

RR data

	N	6
	NS	5
	Wt	166.39
Het	Chi	1.15
Het	df	5
Het	P	N.S.
Fixed	RR	1.15
	RR1	0.99
	RRu	1.34
	P	(+)
Random	RR	1.15
	RR1	0.99
	RRu	1.34
	P	(+)
Asymm	P	N.S.

Appendix Table A58 - 3

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
 Lifetime Asthma
 Adjusted

RR data

	N	6			
	NS	5			
	Wt	166.39			
Het	Chi	1.15			
Het	df	5			
Het	P	N.S.			
Fixed	RR	1.15			
	RRl	0.99			
	RRu	1.34			
	P	(+)			
Random	RR	1.15			
	RRl	0.99			
	RRu	1.34			
	P	(+)			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	4	1	1	6
	NS	4	1	1	5
	Wt	109.76	27.66	28.98	166.39
Het	Chi	1.05	0.00	0.00	1.15
Het	df	3	0	0	5
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.16	1.10	1.19	1.15
	RRl	0.96	0.76	0.83	0.99
	RRu	1.40	1.60	1.72	1.34
	P	N.S.	N.S.	N.S.	(+)
Random	RR	1.16	1.10	1.19	1.15
	RRl	0.96	0.76	0.83	0.99
	RRu	1.40	1.60	1.72	1.34
	P	N.S.	N.S.	N.S.	(+)
Between	Chi				0.10
Between	df				2
Between	P				N.S.

Appendix Table A58 - 7

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
Lifetime Asthma
Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURR	BUTZ	CHEN1	CHEN2	CUNNI2
	DEBENE	DELL	DODGE	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FIELDE	FLYNN1	FLYNN2	GILLIL	GOLD	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	HU1	HU2	JENKIN	KALYO1	KAPLAN	KEARNE	KELLY	KENDIR
	KERSHA	KIVITY	KUEHR	KUHR	LAM1	LAM2	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MONTEF
	MOYES1	MOYES2	MURRAY	NHANE3	NILSSO	NYSTAD	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3
	RONMAR	ROSASV	RUDNIK	SANZOR	SCHENK	SELCUK	SENNHA	SHAMSS	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN2
	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VERHOE	VOLKME	VONMAF	WEITZ1	WITHER	WOLFO1	WOLFO2	WOLFO3	XU	ZEIGER
	ZEJDA															
5	BURCHF															

Appendix Table A58 - 8

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
BURCHF	10	m	0	19	all	NAmer	1962	1986	CS	3	FathOnly	NoParent	current	never	0.84	?
BURCHF	13	f	0	19	all	NAmer	1962	1986	CS	3	FathOnly	NoParent	current	never	0.65	?

Appendix Table A59 -

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Paternal only exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 7) UNEXSO : not father, neither parent, none in household
- 8) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 9) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 10) RACE : all in study or nearest available, otherwise by race
- 11) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A55 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A59 - 1

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
 Current Asthma
 Adjusted

REF	NRR	CompA55	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	9	x	b	6	7	all	Eu:Ita	1994	1999	CC	11	FathOnly	NoParent	current	never
AGABI2	9	x	b	13	14	all	Eu:Ita	1994	1999	CC	12	FathOnly	NoParent	current	never
GILLIL	37		b	7	19	all	NAmer	1993	2001	CS	8	FathOnly	NoHhMemb	current	non
WILLE1	8	x	b	3	15	all	Eu:Sca	1988	1991	CC	0	FathOnly	NotFathr	current	non

Appendix Table A59 - 2

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	9	b	11	212	-	148	-	1.26	(1.01- 1.58)
AGABI2	9	b	12	255	-	203	-	1.04	(0.86- 1.27)
GILLIL	37	b	8	-	-	-	-	1.10	(0.70- 1.80)
WILLE1	8	b	0	6	16	29	43	0.56	(0.19- 1.59)
Partial Totals				473	16	380	43		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	9	b	11	0.23	76.74	1.18	0.0429
AGABI2	9	b	12	0.04	101.11	0.47	0.6933
GILLIL	37	b	8	0.10	17.23	0.00	0.6924
WILLE1	8	b	0	-0.59	3.49	1.68	0.2732

RR data

	N	4
	NS	4
	Wt	198.56
Het	Chi	3.33
Het	df	3
Het	P	N.S.
Fixed	RR	1.11
	RRl	0.97
	RRu	1.28
	P	N.S.
Random	RR	1.11
	RRl	0.95
	RRu	1.30
	P	N.S.
Asymm	P	N.S.

Appendix Table A59 - 3

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
 Current Asthma
 Adjusted

RR data

	N	4			
	NS	4			
	Wt	198.56			
	Het Chi	3.33			
	Het df	3			
	Het P	N.S.			
Fixed	RR	1.11			
	RRl	0.97			
	RRu	1.28			
	P	N.S.			
Random	RR	1.11			
	RRl	0.95			
	RRu	1.30			
	P	N.S.			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	4		4	
	NS	4		4	
	Wt	198.56		198.56	
	Het Chi	3.33		3.33	
	Het df	3		3	
	Het P	N.S.		N.S.	
Fixed	RR	1.11		1.11	
	RRl	0.97		0.97	
	RRu	1.28		1.28	
	P	N.S.		N.S.	
Random	RR	1.11		1.11	
	RRl	0.95		0.95	
	RRu	1.30		1.30	
	P	N.S.		N.S.	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A59 - 7

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	ARSHAD	BALL	BERGMA	CALL	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK	DIJKST	DOTTER
	EHRLI1	FAGBUL	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GUPTA	HABY	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES
	INFANT	JAAKKO	JONES	KALYO1	KALYO2	KARUNA	KNIGHT	LAM1	LAM2	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC
	MCCON2	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO	NHANE3	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	RONMAR	SARRAZ
	SCHMIT	SELCUK	SHOHAT	SOMERV	SOTOQU	STANHO	STERN1	STERN2	STODDA	STRACH	TARIQ	TOMINA	WANG	WEITZ1	WEITZ2	WILLE2
	WOLFO1	WOLFO2	WOLFO3	YANG	ZHENG											
5	AZIZI															

Appendix Table A59 - 8

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP													
GILLIL	GILLIL	1	MCCON1/GILLIL													
Adjusted - insufficient data for metaanalysis																
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
AZIZI	2	b	0	5	all As:cen	1989	1995	CC	0	FathOnly	NoParent	unspec	non		*	n

Appendix Table A60 -

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Paternal only exposure
- 3) Exposure during child's lifetime (also including parent ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 7) UNEXSO : none in household, neither parent, not father
- 8) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 9) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 10) RACE : all in study or nearest available, otherwise by race
- 11) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A56 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A60 - 1

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
 Current Asthma
 Adjusted

REF	NRR	CompA56	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	9	x	b	6	7	all	Eu:Ita	1994	1999	CC	11	FathOnly	NoParent	current	never
AGABI2	9	x	b	13	14	all	Eu:Ita	1994	1999	CC	12	FathOnly	NoParent	current	never
GILLIL	37		b	7	19	all	NAmer	1993	2001	CS	8	FathOnly	NoHhMemb	current	non
WILLE1	2	x	b	3	15	all	Eu:Sca	1988	1991	CC	0	FathOnly	NoParent	current	non

Appendix Table A60 - 2

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	9	b	11	212	-	148	-	1.26	(1.01- 1.58)
AGABI2	9	b	12	255	-	203	-	1.04	(0.86- 1.27)
GILLIL	37	b	8	-	-	-	-	1.10	(0.70- 1.80)
WILLE1	2	b	0	6	16	12	30	0.94	(0.30- 2.97)
Partial Totals				473	16	363	30		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	9	b	11	0.23	76.74	1.00	0.0429
AGABI2	9	b	12	0.04	101.11	0.61	0.6933
GILLIL	37	b	8	0.10	17.23	0.01	0.6924
WILLE1	2	b	0	-0.06	2.89	0.10	0.9126

RR data

	N	4
	NS	4
	Wt	197.96
Het	Chi	1.71
Het	df	3
Het	P	N.S.
Fixed	RR	1.12
	RRl	0.98
	RRu	1.29
	P	(+)
Random	RR	1.12
	RRl	0.98
	RRu	1.29
	P	(+)
Asymm	P	N.S.

Appendix Table A60 - 3

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
 Current Asthma
 Adjusted

RR data

	N	4			
	NS	4			
	Wt	197.96			
Het	Chi	1.71			
Het	df	3			
Het	P	N.S.			
Fixed	RR	1.12			
	RRl	0.98			
	RRu	1.29			
	P	(+)			
Random	RR	1.12			
	RRl	0.98			
	RRu	1.29			
	P	(+)			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	4		4	
	NS	4		4	
	Wt	197.96		197.96	
Het	Chi	1.71		1.71	
Het	df	3		3	
Het	P	N.S.		N.S.	
Fixed	RR	1.12		1.12	
	RRl	0.98		0.98	
	RRu	1.29		1.29	
	P	(+)		(+)	
Random	RR	1.12		1.12	
	RRl	0.98		0.98	
	RRu	1.29		1.29	
	P	(+)		(+)	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A60 - 7

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	ARSHAD	BALL	BERGMA	CALL	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK	DIJKST	DOTTER
	EHRLI1	FAGBUL	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GUPTA	HABY	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES
	INFANT	JAAKKO	JONES	KALYO1	KALYO2	KARUNA	KNIGHT	LAM1	LAM2	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC
	MCCON2	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO	NHANE3	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	RONMAR	SARRAZ
	SCHMIT	SELCUK	SHOHAT	SOMERV	SOTOQU	STANHO	STERN1	STERN2	STODDA	STRACH	TARIQ	TOMINA	WANG	WEITZ1	WEITZ2	WILLE2
	WOLFO1	WOLFO2	WOLFO3	YANG	ZHENG											
5	AZIZI															

Appendix Table A60 - 8

IESAST - Meta-analysis of Lifetime Paternal Only Exposure
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP													
GILLIL	GILLIL	1	MCCON1/GILLIL													
Adjusted - insufficient data for metaanalysis																
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
AZIZI	2	b	0	5	all As:cen	1989	1995	CC	0	FathOnly	NoParent	unspec	non		*	n

Appendix Table A61 -

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Household exposure other than parents
- 3) Exposure during child's lifetime (also including household member ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOHOU : any (regardless of parents), grandparents, any (without parents), siblings
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : not specified household member, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3
(Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A61 - 1

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALDAWO	1	m	6	15	all	As:ME	*	2000	CS	0	Other	NotSpHhM	ever	never
LAM2	10	b	8	13	all	As:FE	1995	1999	CS	4	Grandpar	NoHhMemb	current	non
RATAGE	4	b	5	15	all	As:cen	1996	2000	CC	0	Grandpar	NotSpHhM	unspec	non

Appendix Table A61 - 2

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Cont	Case	Cont		(-
ALDAWO	1	m	0	52	415	89	926	1.30	(0.91- 1.87)
LAM2	10	b	4	-	-	-	-	1.14	(0.60- 2.19)
RATAGE	4	b	0	11	1	109	59	5.95	(0.75- 47.26)
Partial Totals				63	416	198	985			

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALDAWO	1	m	0	0.27	29.45	0.00	0.1501
LAM2	10	b	4	0.13	9.17	0.17	0.6916
RATAGE	4	b	0	1.78	0.90	2.06	0.0914

RR data

	N	3
	NS	3
	Wt	39.51
Het	Chi	2.23
Het	df	2
Het	P	N.S.
Fixed	RR	1.31
	RRl	0.96
	RRu	1.79
	P	(+)
Random	RR	1.32
	RRl	0.92
	RRu	1.89
	P	N.S.
Asymm	P	N.S.

Appendix Table A61 - 3

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Lifetime Asthma
 Adjusted

RR data

	N	3			
	NS	3			
	Wt	39.51			
Het	Chi	2.23			
Het	df	2			
Het	P	N.S.			
Fixed	RR	1.31			
	RRl	0.96			
	RRu	1.79			
	P	(+)			
Random	RR	1.32			
	RRl	0.92			
	RRu	1.89			
	P	N.S.			
Asymm	P	N.S.			
			<u>Sex</u>		
		both	male	female	Total
	N	2	1		3
	NS	2	1		3
	Wt	10.06	29.45		39.51
Het	Chi	2.23	0.00		2.23
Het	df	1	0		2
Het	P	N.S.	N.S.		N.S.
Fixed	RR	1.32	1.30		1.31
	RRl	0.71	0.91		0.96
	RRu	2.45	1.87		1.79
	P	N.S.	N.S.		(+)
Random	RR	1.92	1.30		1.32
	RRl	0.43	0.91		0.92
	RRu	8.66	1.87		1.89
	P	N.S.	N.S.		N.S.
Between	Chi				0.00
Between	df				1
Between	P				N.S.

Appendix Table A61 - 7

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ALBA	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CHEN2	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2	FORAST	GILLIL
	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	HU1	HU2	JENKIN	KALYO1	KAPLAN
	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KUEHR	KUHR	LAM1	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1
	MCCON2	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NHANE3	NILSSO	NYSTAD	OCONNE	ODDY	POKHAR	PONSON	RASANE	RENNIE	RONCH1
	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK	SANZOR	SCHENK	SELCUK	SENNHA	SHAMSS	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STANHO
	STAZI	STERN2	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WEITZ1	WITHER	WOLFO1	WOLFO2
	WOLFO3	XU	ZEIGER	ZEJDA												

Appendix Table A62 -

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Household exposure other than parents
- 3) Exposure during child's lifetime (also including household member ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOHOU : any (regardless of parents), grandparents, any (without parents), siblings
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : none in household, not specified household member
- 9) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A61 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A62 - 1

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Lifetime Asthma
 Adjusted

REF	NRR	CompA61	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALDAWO	1		m	6	15	all	As:ME	*	2000	CS	0	Other	NotSpHhM	ever	never
LAM2	10		b	8	13	all	As:FE	1995	1999	CS	4	Grandpar	NoHhMemb	current	non
RATAGE	5	x	b	5	15	all	As:cen	1996	2000	CC	0	Grandpar	NoHhMemb	unspec	non

Appendix Table A62 - 2

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Cont	Case	Cont			
ALDAWO	1	m	0	52	415	89	926	1.30	(0.91-	1.87)
LAM2	10	b	4	-	-	-	-	1.14	(0.60-	2.19)
RATAGE	5	b	0	11	1	58	30	5.69	(0.70-	46.19)
Partial Totals				63	416	147	956			

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALDAWO	1	m	0	0.27	29.45	0.00	0.1501
LAM2	10	b	4	0.13	9.17	0.17	0.6916
RATAGE	5	b	0	1.74	0.88	1.90	0.1037

RR data

	N	3
	NS	3
	Wt	39.49
Het	Chi	2.07
Het	df	2
Het	P	N.S.
Fixed	RR	1.31
	RRl	0.96
	RRu	1.78
	P	(+)
Random	RR	1.31
	RRl	0.94
	RRu	1.81
	P	N.S.
Asymm	P	N.S.

Appendix Table A62 - 3

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Lifetime Asthma
 Adjusted

RR data

	N	3			
	NS	3			
	Wt	39.49			
Het	Chi	2.07			
Het	df	2			
Het	P	N.S.			
Fixed	RR	1.31			
	RRl	0.96			
	RRu	1.78			
	P	(+)			
Random	RR	1.31			
	RRl	0.94			
	RRu	1.81			
	P	N.S.			
Asymm	P	N.S.			
			<u>Sex</u>		
		both	male	female	Total
	N	2	1		3
	NS	2	1		3
	Wt	10.04	29.45		39.49
Het	Chi	2.07	0.00		2.07
Het	df	1	0		2
Het	P	N.S.	N.S.		N.S.
Fixed	RR	1.31	1.30		1.31
	RRl	0.71	0.91		0.96
	RRu	2.43	1.87		1.78
	P	N.S.	N.S.		(+)
Random	RR	1.85	1.30		1.31
	RRl	0.44	0.91		0.94
	RRu	7.83	1.87		1.81
	P	N.S.	N.S.		N.S.
Between	Chi				0.00
Between	df				1
Between	P				N.S.

Appendix Table A62 - 7

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ALBA	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CHEN2	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2	FORAST	GILLIL
	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	HU1	HU2	JENKIN	KALYO1	KAPLAN
	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KUEHR	KUHR	LAM1	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1
	MCCON2	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NHANE3	NILSSO	NYSTAD	OCONNE	ODDY	POKHAR	PONSON	RASANE	RENNIE	RONCH1
	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK	SANZOR	SCHENK	SELCUK	SENNHA	SHAMSS	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STANHO
	STAZI	STERN2	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WEITZ1	WITHER	WOLFO1	WOLFO2
	WOLFO3	XU	ZEIGER	ZEJDA												

Appendix Table A63 -

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Household exposure other than parents
- 3) Exposure during child's lifetime (also including household member ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOHOU : any (regardless of parents), grandparents, any (without parents), siblings
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : not specified household member, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group
and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3
(Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A63 - 1

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Current Asthma
 Adjusted

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI2	79	b	13	14	all	Eu:Ita	1994	1999	CC	11	Other	NotSpHhM	unspec	non
GILLIL	39	b	7	19	all	NAmer	1993	2001	CS	8	OthrOnly	NoHhMemb	current	non
INFANT	14	b	3	4	all	NAmer	1988	1993	CC	19	Other	NotSpHhM	in life	non
LAM2	13	b	8	13	all	As:FE	1995	1999	CS	4	Grandpar	NoHhMemb	current	non
MUMCUO	3	b	3	15	all	As:ME	1986	1994	CC	0	Other	NoHhMemb	unspec	non
SOTOQU	3	b	5	17	all	SCAmer	1987	1994	CS	0	Other	NotSpHhM	current	non

Appendix Table A63 - 2

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI2	79	b	11	-	-	-	-	1.35	(1.08- 1.67)
GILLIL	39	b	8	-	-	-	-	1.00	(0.60- 1.90)
INFANT	14	b	19	65	-	392	-	1.82	(0.98- 3.38)
LAM2	13	b	4	-	-	-	-	1.93	(0.75- 5.01)
MUMCUO	3	b	0	35	9	265	91	1.34	(0.62- 2.88)
SOTOQU	3	b	0	186	423	369	1395	1.66	(1.35- 2.04)
Partial Totals				286	432	1026	1486		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI2	79	b	11	0.30	80.88	0.76	0.0070
GILLIL	39	b	8	0.00	11.56	1.82	1.0000
INFANT	14	b	19	0.60	10.02	0.41	0.0580
LAM2	13	b	4	0.66	4.26	0.29	0.1747
MUMCUO	3	b	0	0.29	6.47	0.07	0.4617
SOTOQU	3	b	0	0.51	89.55	1.11	0.0000

RR data

	N	6
	NS	6
	Wt	202.75
	Het Chi	4.46
	Het df	5
	Het P	N.S.
Fixed	RR	1.49
	RRl	1.30
	RRu	1.71
	P	+++
Random	RR	1.49
	RRl	1.30
	RRu	1.71
	P	+++
Asymm	P	N.S.

Appendix Table A63 - 3

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
Current Asthma
Adjusted

RR data

	N	6			
	NS	6			
	Wt	202.75			
Het	Chi	4.46			
Het	df	5			
Het	P	N.S.			
Fixed	RR	1.49			
	RRl	1.30			
	RRu	1.71			
	P	+++			
Random	RR	1.49			
	RRl	1.30			
	RRu	1.71			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	6		6	
	NS	6		6	
	Wt	202.75		202.75	
Het	Chi	4.46		4.46	
Het	df	5		5	
Het	P	N.S.		N.S.	
Fixed	RR	1.49		1.49	
	RRl	1.30		1.30	
	RRu	1.71		1.71	
	P	+++		+++	
Random	RR	1.49		1.49	
	RRl	1.30		1.30	
	RRu	1.71		1.71	
	P	+++		+++	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A63 - 7

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHEN2	CHHABR	CHINN	CLARK	CONKA	DAIGLE	DEKKER	DEKOK	DIJKST	DOTTER
	EHRLI1	FAGBUL	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GUPTA	HABY	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES
	JAAKKO	JONES	KALYO1	KALYO2	KARUNA	KNIGHT	LAM1	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MCCON2	MELIA
	MELSOM	MOUSSA	NHANE3	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	RONMAR	SARRAZ	SCHMIT	SELCUK	SHOHAT	SOMERV
	STANHO	STERN1	STERN2	STODDA	STRACH	TARIQ	TOMINA	WANG	WEITZ1	WEITZ2	WILLE1	WILLE2	WOLFO1	WOLFO2	WOLFO3	YANG
	ZHENG															
5	AGABI1	CUNNI1	MOHAME													

Appendix Table A63 - 8

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP													
GILLIL	GILLIL	1	MCCON1/GILLIL													
Adjusted - insufficient data for metaanalysis																
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
AGABI1	79	b	6	7	all	Eu:Ita	1994	1999	CC	10	Other	NotSpHhM	unspec	non	*	n
CUNNI1	13	b	8	11	all	NAmer	1988	1996	CS	9	Other	NotSpHhM	current	non	1.13	?
MOHAME	4	b	9	11	all	Africa	1990	1995	CC	0	Other	NotSpHhM	unspec	non	*	n

Appendix Table A64 -

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Household exposure other than parents
- 3) Exposure during child's lifetime (also including household member ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOHOU : any (regardless of parents), grandparents, any (without parents), siblings
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : none in household, not specified household member
- 9) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A63 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A64 - 1

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Current Asthma
 Adjusted

REF	NRR	CompA63	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI2	79		b	13	14	all	Eu:Ita	1994	1999	CC	11	Other	NotSpHhM	unspec	non
GILLIL	39		b	7	19	all	NAmer	1993	2001	CS	8	OthrOnly	NoHhMemb	current	non
INFANT	14		b	3	4	all	NAmer	1988	1993	CC	19	Other	NotSpHhM	in life	non
LAM2	13		b	8	13	all	As:FE	1995	1999	CS	4	Grandpar	NoHhMemb	current	non
MUMCUO	3		b	3	15	all	As:ME	1986	1994	CC	0	Other	NoHhMemb	unspec	non
SOTOQU	3		b	5	17	all	SCAmer	1987	1994	CS	0	Other	NotSpHhM	current	non

Appendix Table A64 - 2

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI2	79	b	11	-	-	-	-	1.35	(1.08- 1.67)
GILLIL	39	b	8	-	-	-	-	1.00	(0.60- 1.90)
INFANT	14	b	19	65	-	392	-	1.82	(0.98- 3.38)
LAM2	13	b	4	-	-	-	-	1.93	(0.75- 5.01)
MUMCUO	3	b	0	35	9	265	91	1.34	(0.62- 2.88)
SOTOQU	3	b	0	186	423	369	1395	1.66	(1.35- 2.04)
Partial Totals				286	432	1026	1486		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI2	79	b	11	0.30	80.88	0.76	0.0070
GILLIL	39	b	8	0.00	11.56	1.82	1.0000
INFANT	14	b	19	0.60	10.02	0.41	0.0580
LAM2	13	b	4	0.66	4.26	0.29	0.1747
MUMCUO	3	b	0	0.29	6.47	0.07	0.4617
SOTOQU	3	b	0	0.51	89.55	1.11	0.0000

RR data

	N	6
	NS	6
	Wt	202.75
	Het Chi	4.46
	Het df	5
	Het P	N.S.
Fixed	RR	1.49
	RRl	1.30
	RRu	1.71
	P	+++
Random	RR	1.49
	RRl	1.30
	RRu	1.71
	P	+++
Asymm	P	N.S.

Appendix Table A64 - 3

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Current Asthma
 Adjusted

RR data

	N	6			
	NS	6			
	Wt	202.75			
Het	Chi	4.46			
Het	df	5			
Het	P	N.S.			
Fixed	RR	1.49			
	RRl	1.30			
	RRu	1.71			
	P	+++			
Random	RR	1.49			
	RRl	1.30			
	RRu	1.71			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	6		6	
	NS	6		6	
	Wt	202.75		202.75	
Het	Chi	4.46		4.46	
Het	df	5		5	
Het	P	N.S.		N.S.	
Fixed	RR	1.49		1.49	
	RRl	1.30		1.30	
	RRu	1.71		1.71	
	P	+++		+++	
Random	RR	1.49		1.49	
	RRl	1.30		1.30	
	RRu	1.71		1.71	
	P	+++		+++	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A64 - 7

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHEN2	CHHABR	CHINN	CLARK	CONKA	DAIGLE	DEKKER	DEKOK	DIJKST	DOTTER
	EHRLI1	FAGBUL	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GUPTA	HABY	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES
	JAAKKO	JONES	KALYO1	KALYO2	KARUNA	KNIGHT	LAM1	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MCCON2	MELIA
	MELSOM	MOUSSA	NHANE3	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	RONMAR	SARRAZ	SCHMIT	SELCUK	SHOHAT	SOMERV
	STANHO	STERN1	STERN2	STODDA	STRACH	TARIQ	TOMINA	WANG	WEITZ1	WEITZ2	WILLE1	WILLE2	WOLFO1	WOLFO2	WOLFO3	YANG
	ZHENG															
5	AGABI1	CUNNI1	MOHAME													

Appendix Table A64 - 8

IESAST - Meta-analysis of Lifetime Household Exposure other than Parents
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP												RR	SIG
GILLIL	GILLIL	1	MCCON1/GILLIL													
Adjusted - insufficient data for metaanalysis																
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
AGABI1	79	b	6	7	all	Eu:Ita	1994	1999	CC	10	Other	NotSpHhM	unspec	non	*	n
CUNNI1	13	b	8	11	all	NAmer	1988	1996	CS	9	Other	NotSpHhM	current	non	1.13	?
MOHAME	4	b	9	11	all	Africa	1990	1995	CC	0	Other	NotSpHhM	unspec	non	*	n

Appendix Table A65 -

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Paternal or household exposure without maternal exposure
- 3) Exposure during child's lifetime (also including household member ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOSMO : father only, household member (but not mother)
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : not specified household member, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A65 - 1

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
CHEN1	2	b	1	1	all	As:FE	1985	1988	CS	0	HhNotMoth	NoHhMemb	in life	non
DOLD	9	b	9	11	all	Eu:Ger	1989	1992	CS	0	FathOnly	NotFathr	unspec	non
FERGUS	9	b	0	6	all	Auslia	1977	1985	Pr	0	FathOnly	NotFathr	in life	non
FORAST	22	b	7	11	all	Eu:Ita	1987	1992	CS	9	FathOnly	NotFathr	unspec	non
GOREN1	2	b	7	11	all	As:ME	1980	1986	CS	0	HhNotMoth	NoHhMemb	current	non
HAJNAL	2	b	6	14	all	Eu:wst	1992	1999	CS	13	HhNotMoth	NotSpHhM	current	non
KAY	22	b	3	11	all	Eu:UK	*	1995	CS	1	FathOnly	NotFathr	unspec	non
KERSHA	8	b	0	5	all	Eu:UK	1983	1987	CC	1	HhNotMoth	LowHh	<3y	non
VENNER	6	m	8	15	all	As:FE	1995	2001	CS	0	FathOnly	NoParent	current	never
VENNER	3	f	8	15	all	As:FE	1995	2001	CS	0	FathOnly	NoParent	current	never

Appendix Table A65 - 2

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
CHEN1	2	b	0	64	1668	14	467	1.28	(0.71- 2.30)
DOLD	9	b	0	55	602	301	3535	1.07	(0.79- 1.45)
*FERGUS	9	b	0	29	179	69	601	1.41	(0.95- 2.11)
FORAST	22	b	9	58	-	85	-	0.86	(0.61- 1.21)
GOREN1	2	b	0	43	487	50	514	0.91	(0.59- 1.39)
HAJNAL	2	b	13	-	-	-	-	1.20	(0.87- 1.65)
KAY	22	b	1	38	-	135	-	1.25	(0.81- 1.92)
KERSHA	8	b	1	20	-	15	-	2.41	(1.20- 4.87)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
Partial Totals				738	3879	767	5363		
*prospective study									

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
CHEN1	2	b	0	0.25	11.14	0.15	0.4102
DOLD	9	b	0	0.07	42.65	0.15	0.6455
*FERGUS	9	b	0	0.34	23.97	1.10	0.0918
FORAST	22	b	9	-0.15	32.76	2.59	0.3880
GOREN1	2	b	0	-0.10	21.16	1.09	0.6559
HAJNAL	2	b	13	0.18	37.51	0.10	0.2642
KAY	22	b	1	0.22	20.63	0.18	0.3108
KERSHA	8	b	1	0.88	7.83	4.40	0.0138
VENNER	6	m	0	0.09	27.66	0.03	0.6182
VENNER	3	f	0	0.18	28.98	0.06	0.3399
Subtotal VENNER				0.01	56.63	0.10	

RR data

	N	10
	NS	9
	Wt	254.27
Het	Chi	9.86
Het	df	9
Het	P	N.S.
Fixed	RR	1.14
	RR1	1.01
	RRu	1.29
	P	+
Random	RR	1.14
	RR1	1.00
	RRu	1.30
	P	+
Asymm	P	(*)

Appendix Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Adjusted

RR data

	N	10						
	NS	9						
	Wt	254.27						
	Het Chi	9.86						
	Het df	9						
	Het P	N.S.						
Fixed	RR	1.14						
	RRl	1.01						
	RRu	1.29						
	P	+						
Random	RR	1.14						
	RRl	1.00						
	RRu	1.30						
	P	+						
Asymm	P	(*)						
			<u>Sex</u>					
		both	male	female		Total		
	N	8	1	1		10		
	NS	8	1	1		9		
	Wt	197.64	27.66	28.98		254.27		
	Het Chi	9.76	0.00	0.00		9.86		
	Het df	7	0	0		9		
	Het P	N.S.	N.S.	N.S.		N.S.		
Fixed	RR	1.14	1.10	1.19		1.14		
	RRl	0.99	0.76	0.83		1.01		
	RRu	1.31	1.60	1.72		1.29		
	P	(+)	N.S.	N.S.		+		
Random	RR	1.15	1.10	1.19		1.14		
	RRl	0.97	0.76	0.83		1.00		
	RRu	1.36	1.60	1.72		1.30		
	P	N.S.	N.S.	N.S.		+		
Between	Chi					0.10		
Between	df					2		
Between	P					N.S.		
			<u>Continent</u>					
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N			5	4	1		10
	NS			5	3	1		9
	Wt			141.37	88.93	23.97		254.27
	Het Chi			7.39	1.23	0.00		9.86
	Het df			4	3	0		9
	Het P			N.S.	N.S.	N.S.		N.S.
Fixed	RR			1.12	1.10	1.41		1.14
	RRl			0.95	0.89	0.95		1.01
	RRu			1.32	1.35	2.11		1.29
	P			N.S.	N.S.	(+)		+
Random	RR			1.16	1.10	1.41		1.14
	RRl			0.92	0.89	0.95		1.00
	RRu			1.46	1.35	2.11		1.30
	P			N.S.	N.S.	(+)		+
Between	Chi							1.24
Between	df							2
Between	P							N.S.

Appendix Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure

		Lifetime Asthma						
		Adjusted						
		Country in Europe						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
RR data	N	2	1	1		1		5
	NS	2	1	1		1		5
	Wt	28.46	32.76	42.65		37.51		141.37
	Het Chi	2.45	0.00	0.00		0.00		7.39
	Het df	1	0	0		0		4
	Het P	N.S.	N.S.	N.S.		N.S.		N.S.
	Fixed RR	1.50	0.86	1.07		1.20		1.12
	RR1	1.04	0.61	0.79		0.87		0.95
	RRu	2.16	1.21	1.45		1.65		1.32
	P	+	N.S.	N.S.		N.S.		N.S.
	Random RR	1.63	0.86	1.07		1.20		1.16
	RR1	0.87	0.61	0.79		0.87		0.92
	RRu	3.08	1.21	1.45		1.65		1.46
	P	N.S.	N.S.	N.S.		N.S.		N.S.
	Between Chi							4.94
	Between df							3
	Between P							N.S.
		Country in Asia						
		FarEast	Cent/SE	MidlEast			Total	
	N	3		1			4	
	NS	2		1			3	
	Wt	67.77		21.16			88.93	
	Het Chi	0.21		0.00			1.23	
	Het df	2		0			3	
	Het P	N.S.		N.S.			N.S.	
	Fixed RR	1.17		0.91			1.10	
	RR1	0.92		0.59			0.89	
	RRu	1.48		1.39			1.35	
	P	N.S.		N.S.			N.S.	
	Random RR	1.17		0.91			1.10	
	RR1	0.92		0.59			0.89	
	RRu	1.48		1.39			1.35	
	P	N.S.		N.S.			N.S.	
	Between Chi						1.02	
	Between df						1	
	Between P						N.S.	
		Start year of study						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N		1	5	3	1	10	
	NS		1	5	2	1	9	
	Wt		23.97	115.53	94.14	20.63	254.27	
	Het Chi		0.00	7.62	0.14	0.00	9.86	
	Het df		0	4	2	0	9	
	Het P		N.S.	N.S.	N.S.	N.S.	N.S.	
	Fixed RR		1.41	1.05	1.17	1.25	1.14	
	RR1		0.95	0.88	0.95	0.81	1.01	
	RRu		2.11	1.26	1.43	1.92	1.29	
	P		(+)	N.S.	N.S.	N.S.	+	
	Random RR		1.41	1.10	1.17	1.25	1.14	
	RR1		0.95	0.84	0.95	0.81	1.00	
	RRu		2.11	1.43	1.43	1.92	1.30	
	P		(+)	N.S.	N.S.	N.S.	+	
	Between Chi						2.10	
	Between df						3	
	Between P						N.S.	

Appendix Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure

		Lifetime Asthma Adjusted				
		Publication year				Total
		<1990	1990-94	1995-99	2000+	
RR data	N	4	2	2	2	10
	NS	4	2	2	1	9
	Wt	64.10	75.40	58.14	56.63	254.27
	Het Chi	5.86	0.91	0.02	0.10	9.86
	Het df	3	1	1	1	9
	Het P	N.S.	N.S.	N.S.	N.S.	N.S.
	Fixed RR	1.28	0.97	1.22	1.15	1.14
	RRl	1.00	0.78	0.94	0.88	1.01
	RRu	1.64	1.22	1.57	1.49	1.29
	P	+	N.S.	N.S.	N.S.	+
	Random RR	1.33	0.97	1.22	1.15	1.14
	RRl	0.93	0.78	0.94	0.88	1.00
	RRu	1.90	1.22	1.57	1.49	1.30
	P	N.S.	N.S.	N.S.	N.S.	+
	Between Chi					2.97
	Between df					3
	Between P					N.S.
		Study type				
		CC	Pr	CS	Total	
	N	1	1	8	10	
	NS	1	1	7	9	
	Wt	7.83	23.97	222.47	254.27	
	Het Chi	0.00	0.00	3.82	9.86	
	Het df	0	0	7	9	
	Het P	N.S.	N.S.	N.S.	N.S.	
	Fixed RR	2.41	1.41	1.08	1.14	
	RRl	1.20	0.95	0.95	1.01	
	RRu	4.86	2.11	1.24	1.29	
	P	+	(+)	N.S.	+	
	Random RR	2.41	1.41	1.08	1.14	
	RRl	1.20	0.95	0.95	1.00	
	RRu	4.86	2.11	1.24	1.30	
	P	+	(+)	N.S.	+	
	Between Chi				6.04	
	Between df				2	
	Between P				*	
		Highest age in RR				
		0-9	10-14	15+	unknown	Total
	N	3	5	2		10
	NS	3	5	1		9
	Wt	42.93	154.70	56.63		254.27
	Het Chi	2.13	3.07	0.10		9.86
	Het df	2	4	1		9
	Het P	N.S.	N.S.	N.S.		N.S.
	Fixed RR	1.52	1.05	1.15		1.14
	RRl	1.12	0.90	0.88		1.01
	RRu	2.05	1.23	1.49		1.29
	P	++	N.S.	N.S.		+
	Random RR	1.52	1.05	1.15		1.14
	RRl	1.11	0.90	0.88		1.00
	RRu	2.08	1.23	1.49		1.30
	P	++	N.S.	N.S.		+
	Between Chi					4.57
	Between df					2
	Between P					N.S.

Appendix Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Adjusted

Population setting
 general school medical allergy other Total

RR data

	N	1	4	3	2	10
	NS	1	4	3	1	9
	Wt	11.14	134.07	52.43	56.63	254.27
Het	Chi	0.00	2.34	2.49	0.10	9.86
Het	df	0	3	2	1	9
Het	P	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.28	1.02	1.46	1.15	1.14
	RRl	0.71	0.86	1.11	0.88	1.01
	RRu	2.30	1.21	1.91	1.49	1.29
	P	N.S.	N.S.	++	N.S.	+
Random	RR	1.28	1.02	1.48	1.15	1.14
	RRl	0.71	0.86	1.08	0.88	1.00
	RRu	2.30	1.21	2.01	1.49	1.30
	P	N.S.	N.S.	+	N.S.	+
Between	Chi					4.93
Between	df					3
Between	P					N.S.

Respondent for smoking
 child parent med rec mix/oth Total

	N	8	2	10
	NS	8	1	9
	Wt	197.64	56.63	254.27
Het	Chi	9.76	0.10	9.86
Het	df	7	1	9
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.14	1.15	1.14
	RRl	0.99	0.88	1.01
	RRu	1.31	1.49	1.29
	P	(+)	N.S.	+
Random	RR	1.15	1.15	1.14
	RRl	0.97	0.88	1.00
	RRu	1.36	1.49	1.30
	P	N.S.	N.S.	+
Between	Chi			0.00
Between	df			1
Between	P			N.S.

Child smokers
 exc/none included ignored Total

	N	3	7	10
	NS	2	7	9
	Wt	94.14	160.13	254.27
Het	Chi	0.14	9.62	9.86
Het	df	2	6	9
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.17	1.12	1.14
	RRl	0.95	0.96	1.01
	RRu	1.43	1.31	1.29
	P	N.S.	N.S.	+
Random	RR	1.17	1.15	1.14
	RRl	0.95	0.94	1.00
	RRu	1.43	1.41	1.30
	P	N.S.	N.S.	+
Between	Chi			0.09
Between	df			1
Between	P			N.S.

Appendix Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Adjusted

Physician diagnosis (lifetime)
 yes no/mixed Total

RR data

	N	6	4	10
NS	5		4	9
Wt	142.21	112.06		254.27
Het Chi	5.18	3.04		9.86
Het df	5	3		9
Het P	N.S.	N.S.		N.S.
Fixed RR	1.22	1.04		1.14
RRl	1.04	0.86		1.01
RRu	1.44	1.25		1.29
P	+	N.S.		+
Random RR	1.23	1.04		1.14
RRl	1.04	0.86		1.00
RRu	1.45	1.25		1.30
P	+	N.S.		+
Between Chi				1.64
Between df				1
Between P				N.S.

Respondent for diagnosis (lifetime)
 medrec parent child mixed Total

	N	4	6		10
NS	3		6		9
Wt	88.43	165.84			254.27
Het Chi	4.13	3.48			9.86
Het df	3	5			9
Het P	N.S.	N.S.			N.S.
Fixed RR	1.30	1.06			1.14
RRl	1.05	0.91			1.01
RRu	1.60	1.24			1.29
P	+	N.S.			+
Random RR	1.32	1.06			1.14
RRl	1.03	0.91			1.00
RRu	1.69	1.24			1.30
P	+	N.S.			+
Between Chi					2.25
Between df					1
Between P					N.S.

Questionnaire for symptoms
 ISAAC ATS other Total

	N	1	4	5	10
NS	1		3	5	9
Wt	37.51	110.55	106.21		254.27
Het Chi	0.00	2.10	4.70		9.86
Het df	0	3	4		9
Het P	N.S.	N.S.	N.S.		N.S.
Fixed RR	1.20	1.01	1.27		1.14
RRl	0.87	0.84	1.05		1.01
RRu	1.65	1.21	1.54		1.29
P	N.S.	N.S.	+		+
Random RR	1.20	1.01	1.29		1.14
RRl	0.87	0.84	1.04		1.00
RRu	1.65	1.21	1.60		1.30
P	N.S.	N.S.	+		+
Between Chi					3.06
Between df					2
Between P					N.S.

Appendix Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Adjusted

Analysis type
 prevlence onset Total

RR data

	N	9	1	10
	NS	8	1	9
	Wt	230.30	23.97	254.27
Het	Chi	8.64	0.00	9.86
Het	df	8	0	9
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.11	1.41	1.14
	RRl	0.98	0.95	1.01
	RRu	1.27	2.11	1.29
	P	N.S.	(+)	+
Random	RR	1.12	1.41	1.14
	RRl	0.98	0.95	1.00
	RRu	1.28	2.11	1.30
	P	N.S.	(+)	+
Between	Chi			1.21
Between	df			1
Between	P			N.S.

Number of cases (lifetime asthma)
 1-50 51-100 101-200 201+ unknown Total

	N		2	2	6	10
	NS		2	2	5	9
	Wt		18.97	45.13	190.17	254.27
Het	Chi		1.84	2.19	2.82	9.86
Het	df		1	1	5	9
Het	P		N.S.	N.S.	N.S.	N.S.
Fixed	RR		1.66	1.15	1.10	1.14
	RRl		1.06	0.86	0.95	1.01
	RRu		2.61	1.54	1.26	1.29
	P		+	N.S.	N.S.	+
Random	RR		1.70	1.14	1.10	1.14
	RRl		0.92	0.74	0.95	1.00
	RRu		3.16	1.75	1.26	1.30
	P		(+)	N.S.	N.S.	+
Between	Chi					3.01
Between	df					2
Between	P					N.S.

Study adjusts for or is matched on sex
 Yes No Total

	N	3	7	10
	NS	3	6	9
	Wt	94.23	160.04	254.27
Het	Chi	3.74	6.04	9.86
Het	df	2	6	9
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.11	1.15	1.14
	RRl	0.91	0.99	1.01
	RRu	1.36	1.35	1.29
	P	N.S.	(+)	+
Random	RR	1.12	1.15	1.14
	RRl	0.85	0.99	1.00
	RRu	1.48	1.35	1.30
	P	N.S.	(+)	+
Between	Chi			0.08
Between	df			1
Between	P			N.S.

Appendix Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Adjusted

Study adjusts for or is matched on age

Yes No Total

RR data

N	2	8	10
NS	2	7	9
Wt	70.27	184.00	254.27
Het Chi	1.94	6.88	9.86
Het df	1	7	9
Het P	N.S.	N.S.	N.S.
Fixed RR	1.03	1.18	1.14
RRl	0.81	1.03	1.01
RRu	1.30	1.37	1.29
P	N.S.	+	+
Random RR	1.02	1.18	1.14
RRl	0.74	1.03	1.00
RRu	1.42	1.37	1.30
P	N.S.	+	+
Between Chi			1.03
Between df			1
Between P			N.S.

Study adjusts for or is matched on race

N		10	10
NS		9	9
Wt		254.27	254.27
Het Chi		9.86	9.86
Het df		9	9
Het P		N.S.	N.S.
Fixed RR		1.14	1.14
RRl		1.01	1.01
RRu		1.29	1.29
P		+	+
Random RR		1.14	1.14
RRl		1.00	1.00
RRu		1.30	1.30
P		+	+
Between Chi			
Between df			
Between P			N.S.

Study adjusts for or is matched on location

N	2	8	10
NS	2	7	9
Wt	70.27	184.00	254.27
Het Chi	1.94	6.88	9.86
Het df	1	7	9
Het P	N.S.	N.S.	N.S.
Fixed RR	1.03	1.18	1.14
RRl	0.81	1.03	1.01
RRu	1.30	1.37	1.29
P	N.S.	+	+
Random RR	1.02	1.18	1.14
RRl	0.74	1.03	1.00
RRu	1.42	1.37	1.30
P	N.S.	+	+
Between Chi			1.03
Between df			1
Between P			N.S.

Appendix Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
Lifetime Asthma
Adjusted

Study adjusts for or is matched on SES

Yes No Total

RR data

N	4	6	10
NS	4	5	9
Wt	102.06	152.21	254.27
Het Chi	8.05	1.58	9.86
Het df	3	5	9
Het P	*	N.S.	N.S.
Fixed RR	1.18	1.11	1.14
RRl	0.97	0.95	1.01
RRu	1.43	1.30	1.29
P	(+)	N.S.	+
Random RR	1.26	1.11	1.14
RRl	0.90	0.95	1.00
RRu	1.76	1.30	1.30
P	N.S.	N.S.	+
Between Chi			0.23
Between df			1
Between P			N.S.

Study adjusts for family medical history

N	2	8	10
NS	2	7	9
Wt	61.48	192.79	254.27
Het Chi	0.38	8.40	9.86
Het df	1	7	9
Het P	N.S.	N.S.	N.S.
Fixed RR	1.28	1.10	1.14
RRl	1.00	0.95	1.01
RRu	1.64	1.26	1.29
P	(+)	N.S.	+
Random RR	1.28	1.11	1.14
RRl	1.00	0.95	1.00
RRu	1.64	1.29	1.30
P	(+)	N.S.	+
Between Chi			1.08
Between df			1
Between P			N.S.

Study adjusts for family composition

N	3	7	10
NS	3	6	9
Wt	94.23	160.04	254.27
Het Chi	3.74	6.04	9.86
Het df	2	6	9
Het P	N.S.	N.S.	N.S.
Fixed RR	1.11	1.15	1.14
RRl	0.91	0.99	1.01
RRu	1.36	1.35	1.29
P	N.S.	(+)	+
Random RR	1.12	1.15	1.14
RRl	0.85	0.99	1.00
RRu	1.48	1.35	1.30
P	N.S.	(+)	+
Between Chi			0.08
Between df			1
Between P			N.S.

Appendix Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
Lifetime Asthma
Adjusted

Study adjusts for cooking, heating, air conditioning
 Yes No Total

RR data

N	2	8	10
NS	2	7	9
Wt	70.27	184.00	254.27
Het Chi	1.94	6.88	9.86
Het df	1	7	9
Het P	N.S.	N.S.	N.S.
Fixed RR	1.03	1.18	1.14
RRl	0.81	1.03	1.01
RRu	1.30	1.37	1.29
P	N.S.	+	+
Random RR	1.02	1.18	1.14
RRl	0.74	1.03	1.00
RRu	1.42	1.37	1.30
P	N.S.	+	+
Between Chi			1.03
Between df			1
Between P			N.S.

Study adjusts for housing quality, crowding, damp, mould

N	2	8	10
NS	2	7	9
Wt	70.27	184.00	254.27
Het Chi	1.94	6.88	9.86
Het df	1	7	9
Het P	N.S.	N.S.	N.S.
Fixed RR	1.03	1.18	1.14
RRl	0.81	1.03	1.01
RRu	1.30	1.37	1.29
P	N.S.	+	+
Random RR	1.02	1.18	1.14
RRl	0.74	1.03	1.00
RRu	1.42	1.37	1.30
P	N.S.	+	+
Between Chi			1.03
Between df			1
Between P			N.S.

Study adjusts for pets, animal contact, farming

N	2	8	10
NS	2	7	9
Wt	61.48	192.79	254.27
Het Chi	0.38	8.40	9.86
Het df	1	7	9
Het P	N.S.	N.S.	N.S.
Fixed RR	1.28	1.10	1.14
RRl	1.00	0.95	1.01
RRu	1.64	1.26	1.29
P	(+)	N.S.	+
Random RR	1.28	1.11	1.14
RRl	1.00	0.95	1.00
RRu	1.64	1.29	1.30
P	(+)	N.S.	+
Between Chi			1.08
Between df			1
Between P			N.S.

Appendix Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure

Lifetime Asthma

Adjusted

Study adjusts for child's medical history

Yes No Total

RR data

N	3	7	10
NS	3	6	9
Wt	87.24	167.03	254.27
Het Chi	1.20	8.31	9.86
Het df	2	6	9
Het P	N.S.	N.S.	N.S.
Fixed RR	1.20	1.11	1.14
RRl	0.97	0.95	1.01
RRu	1.48	1.29	1.29
P	(+)	N.S.	+
Random RR	1.20	1.12	1.14
RRl	0.97	0.93	1.00
RRu	1.48	1.35	1.30
P	(+)	N.S.	+
Between Chi			0.35
Between df			1
Between P			N.S.

Study adjusts for in utero exposure

N		10	10
NS		9	9
Wt		254.27	254.27
Het Chi		9.86	9.86
Het df		9	9
Het P		N.S.	N.S.
Fixed RR		1.14	1.14
RRl		1.01	1.01
RRu		1.29	1.29
P		+	+
Random RR		1.14	1.14
RRl		1.00	1.00
RRu		1.30	1.30
P		+	+
Between Chi			
Between df			
Between P			N.S.

Study adjusts for in life exposure

N	4	6	10
NS	4	5	9
Wt	120.00	134.27	254.27
Het Chi	3.83	5.68	9.86
Het df	3	5	9
Het P	N.S.	N.S.	N.S.
Fixed RR	1.10	1.18	1.14
RRl	0.92	1.00	1.01
RRu	1.31	1.40	1.29
P	N.S.	(+)	+
Random RR	1.10	1.18	1.14
RRl	0.90	0.99	1.00
RRu	1.35	1.42	1.30
P	N.S.	(+)	+
Between Chi			0.35
Between df			1
Between P			N.S.

Appendix Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Adjusted

Exposure source
 FathOnly HhNotMot Total

RR data

N	6	4	10
NS	5	4	9
Wt	176.63	77.64	254.27
Het Chi	4.01	5.50	9.86
Het df	5	3	9
Het P	N.S.	N.S.	N.S.
Fixed RR	1.11	1.20	1.14
RR1	0.96	0.96	1.01
RRu	1.29	1.50	1.29
P	N.S.	N.S.	+
Random RR	1.11	1.25	1.14
RR1	0.96	0.90	1.00
RRu	1.29	1.73	1.30
P	N.S.	N.S.	+
Between Chi			0.35
Between df			1
Between P			N.S.

Exposed group : when Exposed
 lif/ev age<7y current unspec other Total

N	2	1	4	3	10
NS	2	1	3	3	9
Wt	35.10	7.83	115.30	96.03	254.27
Het Chi	0.07	0.00	1.24	1.91	9.86
Het df	1	0	3	2	9
Het P	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed RR	1.37	2.41	1.11	1.03	1.14
RR1	0.98	1.20	0.93	0.84	1.01
RRu	1.90	4.86	1.34	1.26	1.29
P	(+)	+	N.S.	N.S.	+
Random RR	1.37	2.41	1.11	1.03	1.14
RR1	0.98	1.20	0.93	0.84	1.00
RRu	1.90	4.86	1.34	1.26	1.30
P	(+)	+	N.S.	N.S.	+
Between Chi					6.64
Between df					3
Between P					(*)

Unexposed group : who is smoker
 NoHhMemb NoParent NotSpPar Total

N	4	2	4	10
NS	4	1	4	9
Wt	77.64	56.63	120.00	254.27
Het Chi	5.50	0.10	3.83	9.86
Het df	3	1	3	9
Het P	N.S.	N.S.	N.S.	N.S.
Fixed RR	1.20	1.15	1.10	1.14
RR1	0.96	0.88	0.92	1.01
RRu	1.50	1.49	1.31	1.29
P	N.S.	N.S.	N.S.	+
Random RR	1.25	1.15	1.10	1.14
RR1	0.90	0.88	0.90	1.00
RRu	1.73	1.49	1.35	1.30
P	N.S.	N.S.	N.S.	+
Between Chi				0.43
Between df				2
Between P				N.S.

Appendix Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Adjusted

Unexposed group : time
 non never non+othr Total

RR data

	N	8	2				10	
	NS	8	1				9	
	Wt	197.64	56.63				254.27	
Het	Chi	9.76	0.10				9.86	
Het	df	7	1				9	
Het	P	N.S.	N.S.				N.S.	
Fixed	RR	1.14	1.15				1.14	
	RRl	0.99	0.88				1.01	
	RRu	1.31	1.49				1.29	
	P	(+)	N.S.				+	
Random	RR	1.15	1.15				1.14	
	RRl	0.97	0.88				1.00	
	RRu	1.36	1.49				1.30	
	P	N.S.	N.S.				+	
Between	Chi						0.00	
Between	df						1	
Between	P						N.S.	
		<u>Number of adjustment variables</u>						
		0	1	2	3-5	6-9	10+	Total
	N	6	2			1	1	10
	NS	5	2			1	1	9
	Wt	155.54	28.46			32.76	37.51	254.27
Het	Chi	2.59	2.45			0.00	0.00	9.86
Het	df	5	1			0	0	9
Het	P	N.S.	N.S.			N.S.	N.S.	N.S.
Fixed	RR	1.14	1.50			0.86	1.20	1.14
	RRl	0.97	1.04			0.61	0.87	1.01
	RRu	1.33	2.16			1.21	1.65	1.29
	P	N.S.	+			N.S.	N.S.	+
Random	RR	1.14	1.63			0.86	1.20	1.14
	RRl	0.97	0.87			0.61	0.87	1.00
	RRu	1.33	3.08			1.21	1.65	1.30
	P	N.S.	N.S.			N.S.	N.S.	+
Between	Chi							4.82
Between	df							3
Between	P							N.S.

RR adjusted for sex

		Yes	No	Total
	N	2	8	10
	NS	2	7	9
	Wt	70.27	184.00	254.27
Het	Chi	1.94	6.88	9.86
Het	df	1	7	9
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.03	1.18	1.14
	RRl	0.81	1.03	1.01
	RRu	1.30	1.37	1.29
	P	N.S.	+	+
Random	RR	1.02	1.18	1.14
	RRl	0.74	1.03	1.00
	RRu	1.42	1.37	1.30
	P	N.S.	+	+
Between	Chi			1.03
Between	df			1
Between	P			N.S.

Appendix Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Adjusted

RR adjusted for age
 Yes No Total

RR data

	N	2	8	10
	NS	2	7	9
	Wt	70.27	184.00	254.27
Het	Chi	1.94	6.88	9.86
Het	df	1	7	9
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.03	1.18	1.14
	RRl	0.81	1.03	1.01
	RRu	1.30	1.37	1.29
	P	N.S.	+	+
Random	RR	1.02	1.18	1.14
	RRl	0.74	1.03	1.00
	RRu	1.42	1.37	1.30
	P	N.S.	+	+
Between	Chi			1.03
Between	df			1
Between	P			N.S.

RR adjusted for other ETS

	N		10	10
	NS		9	9
	Wt		254.27	254.27
Het	Chi		9.86	9.86
Het	df		9	9
Het	P		N.S.	N.S.
Fixed	RR		1.14	1.14
	RRl		1.01	1.01
	RRu		1.29	1.29
	P		+	+
Random	RR		1.14	1.14
	RRl		1.00	1.00
	RRu		1.30	1.30
	P		+	+
Between	Chi			
Between	df			
Between	P			N.S.

RR adjusted for factor other than sex, age, other ETS

	N	4	6	10
	NS	4	5	9
	Wt	98.73	155.54	254.27
Het	Chi	7.26	2.59	9.86
Het	df	3	5	9
Het	P	(*)	N.S.	N.S.
Fixed	RR	1.15	1.14	1.14
	RRl	0.94	0.97	1.01
	RRu	1.39	1.33	1.29
	P	N.S.	N.S.	+
Random	RR	1.21	1.14	1.14
	RRl	0.88	0.97	1.00
	RRu	1.68	1.33	1.30
	P	N.S.	N.S.	+
Between	Chi			0.00
Between	df			1
Between	P			N.S.

Appendix Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Adjusted

	Original	<u>Derivation of RR/CI</u>		Other	Total
		Numbers	SumNumbs		

RR data

	N	1	2	6	1	10
	NS	1	2	5	1	9
	Wt	37.51	32.30	151.71	32.76	254.27
Het	Chi	0.00	0.86	5.16	0.00	9.86
Het	df	0	1	5	0	9
Het	P	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.20	1.02	1.22	0.86	1.14
	RRl	0.87	0.72	1.04	0.61	1.01
	RRu	1.65	1.44	1.43	1.21	1.29
	P	N.S.	N.S.	+	N.S.	+
Random	RR	1.20	1.02	1.22	0.86	1.14
	RRl	0.87	0.72	1.04	0.61	1.00
	RRu	1.65	1.44	1.44	1.21	1.30
	P	N.S.	N.S.	+	N.S.	+
Between	Chi					3.83
Between	df					3
Between	P					N.S.

Appendix Table A65 - 4

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Unadjusted

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
CHEN1	2		b	1	1	all	As:FE	1985	1988	CS	0	HhNotMoth	NoHhMemb	in life	non
DOLD	9		b	9	11	all	Eu:Ger	1989	1992	CS	0	FathOnly	NotFathr	unspec	non
FERGUS	9		b	0	6	all	Auslia	1977	1985	Pr	0	FathOnly	NotFathr	in life	non
FORAST	9	x	b	7	11	all	Eu:Ita	1987	1992	CS	0	FathOnly	NotFathr	unspec	non
GOREN1	2		b	7	11	all	As:ME	1980	1986	CS	0	HhNotMoth	NoHhMemb	current	non
HAJNAL	2		b	6	14	all	Eu:wst	1992	1999	CS	13	HhNotMoth	NotSpHhM	current	non
KAY	9	x	b	3	11	all	Eu:UK	*	1995	CS	0	FathOnly	NotFathr	unspec	non
KERSHA	4	x	b	0	5	all	Eu:UK	1983	1987	CC	0	HhNotMoth	LowHh	<3y	non
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	FathOnly	NoParent	current	never
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	FathOnly	NoParent	current	never

Appendix Table A65 - 5

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
CHEN1	2	b	0	64	1668	14	467	1.28	(0.71- 2.30)
DOLD	9	b	0	55	602	301	3535	1.07	(0.79- 1.45)
*FERGUS	9	b	0	29	179	69	601	1.41	(0.95- 2.11)
FORAST	9	b	0	58	827	85	1070	0.88	(0.62- 1.25)
GOREN1	2	b	0	43	487	50	514	0.91	(0.59- 1.39)
HAJNAL	2	b	13	-	-	-	-	1.20	(0.87- 1.65)
KAY	9	b	0	38	140	135	633	1.27	(0.85- 1.91)
KERSHA	4	b	0	20	264	15	485	2.45	(1.23- 4.86)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
Partial Totals				738	5110	767	7551		
*prospective study									

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
CHEN1	2	b	0	0.25	11.14	0.13	0.4102
DOLD	9	b	0	0.07	42.65	0.20	0.6455
*FERGUS	9	b	0	0.34	23.97	1.02	0.0918
FORAST	9	b	0	-0.12	32.10	2.22	0.4802
GOREN1	2	b	0	-0.10	21.16	1.17	0.6559
HAJNAL	2	b	13	0.18	37.51	0.07	0.2642
KAY	9	b	0	0.24	23.56	0.25	0.2418
KERSHA	4	b	0	0.90	8.16	4.68	0.0105
VENNER	6	m	0	0.09	27.66	0.05	0.6182
VENNER	3	f	0	0.18	28.98	0.04	0.3399
Subtotal VENNER				-0.00	56.63	0.10	

RR data

	N	10
	NS	9
	Wt	256.88
Het	Chi	9.84
Het	df	9
Het	P	N.S.
Fixed	RR	1.15
	RR1	1.02
	RRu	1.30
	P	+
Random	RR	1.15
	RR1	1.01
	RRu	1.31
	P	+
Asymm	P	(*)

Appendix Table A65 - 6

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Unadjusted

RR data

	N	10						
	NS	9						
	Wt	256.88						
	Het Chi	9.84						
	Het df	9						
	Het P	N.S.						
Fixed	RR	1.15						
	RRl	1.02						
	RRu	1.30						
	P	+						
Random	RR	1.15						
	RRl	1.01						
	RRu	1.31						
	P	+						
Asymm	P	(*)						
			<u>Sex</u>					
		both	male	female		Total		
	N	8	1	1		10		
	NS	8	1	1		9		
	Wt	200.25	27.66	28.98		256.88		
	Het Chi	9.74	0.00	0.00		9.84		
	Het df	7	0	0		9		
	Het P	N.S.	N.S.	N.S.		N.S.		
Fixed	RR	1.15	1.10	1.19		1.15		
	RRl	1.00	0.76	0.83		1.02		
	RRu	1.32	1.60	1.72		1.30		
	P	+	N.S.	N.S.		+		
Random	RR	1.16	1.10	1.19		1.15		
	RRl	0.98	0.76	0.83		1.01		
	RRu	1.38	1.60	1.72		1.31		
	P	(+)	N.S.	N.S.		+		
Between	Chi					0.10		
Between	df					2		
Between	P					N.S.		
			<u>Continent</u>					
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N			5	4	1		10
	NS			5	3	1		9
	Wt			143.98	88.93	23.97		256.88
	Het Chi			7.41	1.23	0.00		9.84
	Het df			4	3	0		9
	Het P			N.S.	N.S.	N.S.		N.S.
Fixed	RR			1.14	1.10	1.41		1.15
	RRl			0.97	0.89	0.95		1.02
	RRu			1.34	1.35	2.11		1.30
	P			N.S.	N.S.	(+)		+
Random	RR			1.17	1.10	1.41		1.15
	RRl			0.93	0.89	0.95		1.01
	RRu			1.48	1.35	2.11		1.31
	P			N.S.	N.S.	(+)		+
Between	Chi							1.19
Between	df							2
Between	P							N.S.

Appendix Table A65 - 6

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure

Lifetime Asthma

Unadjusted

	Start year of study					Total
	<1970	1970-79	1980-89	1990+	unknown	

RR data

N		1	5	3	1	10
NS		1	5	2	1	9
Wt		23.97	115.21	94.14	23.56	256.88
Het Chi		0.00	7.71	0.14	0.00	9.84
Het df		0	4	2	0	9
Het P		N.S.	N.S.	N.S.	N.S.	N.S.
Fixed RR		1.41	1.06	1.17	1.27	1.15
RRl		0.95	0.89	0.95	0.85	1.02
RRu		2.11	1.28	1.43	1.91	1.30
P		(+)	N.S.	N.S.	N.S.	+
Random RR		1.41	1.11	1.17	1.27	1.15
RRl		0.95	0.85	0.95	0.85	1.01
RRu		2.11	1.46	1.43	1.91	1.31
P		(+)	N.S.	N.S.	N.S.	+
Between Chi						1.98
Between df						3
Between P						N.S.

	Study type			Total
	CC	Pr	CS	

N	1	1	8	10
NS	1	1	7	9
Wt	8.16	23.97	224.75	256.88
Het Chi	0.00	0.00	3.59	9.84
Het df	0	0	7	9
Het P	N.S.	N.S.	N.S.	N.S.
Fixed RR	2.45	1.41	1.09	1.15
RRl	1.23	0.95	0.96	1.02
RRu	4.86	2.11	1.25	1.30
P	+	(+)	N.S.	+
Random RR	2.45	1.41	1.09	1.15
RRl	1.23	0.95	0.96	1.01
RRu	4.86	2.11	1.25	1.31
P	+	(+)	N.S.	+
Between Chi				6.25
Between df				2
Between P				*

Appendix Table A65 - 7

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURR	BUTZ	CHEN2	CUNNI2	DEBENE
	DELL	DODGE	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FIELDE	FLYNN1	FLYNN2	GILLIL	GOLD	GOREN2	GOREN3	GOREN4
	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HU1	HU2	JENKIN	KALYO1	KAPLAN	KEARNE	KELLY	KENDIR	KIVITY	KUEHR	KUHR
	LAM1	LAM2	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NHANE3
	NILSSO	NYSTAD	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK	SANZOR
	SCHENK	SELCUK	SENNHA	SHAMSS	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN2	TAYLOR	TIMONE	TSIMOY	ULRIK
	VARELA	VAVILI	VERHOE	VOLKME	VONMAF	WEITZ1	WITHER	WOLFO1	WOLFO2	WOLFO3	XU	ZEIGER	ZEJDA			
5	BURCHF															

Appendix Table A65 - 8

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC														OVERLAP
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6													
Adjusted - insufficient data for metaanalysis																
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
BURCHF	10	m	0	19	all	NAmer	1962	1986	CS	3	FathOnly	NoParent	current	never	0.84	?
BURCHF	13	f	0	19	all	NAmer	1962	1986	CS	3	FathOnly	NoParent	current	never	0.65	?

Appendix Table A66 -

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Paternal or household exposure without maternal exposure
- 3) Exposure during child's lifetime (also including household member ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOSMO : father only, household member (but not mother)
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : none in household, not specified household member
- 9) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3

(and those which actually differ from the adjusted results in Appendix Table A65 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A66 - 1

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	CompA65	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
CHEN1	2		b	1	1	all	As:FE	1985	1988	CS	0	HhNotMoth	NoHhMemb	in life	non
DOLD	2	x	b	9	11	all	Eu:Ger	1989	1992	CS	0	FathOnly	NoParent	unspec	non
FERGUS	2	x	b	0	6	all	Auslia	1977	1985	Pr	0	FathOnly	NoParent	in life	non
FORAST	15	x	b	7	11	all	Eu:Ita	1987	1992	CS	9	FathOnly	NoParent	unspec	non
GOREN1	2		b	7	11	all	As:ME	1980	1986	CS	0	HhNotMoth	NoHhMemb	current	non
HAJNAL	2		b	6	14	all	Eu:wst	1992	1999	CS	13	HhNotMoth	NotSpHhM	current	non
KAY	15	x	b	3	11	all	Eu:UK	*	1995	CS	1	FathOnly	NoParent	unspec	non
KERSHA	8		b	0	5	all	Eu:UK	1983	1987	CC	1	HhNotMoth	LowHh	<3y	non
VENNER	6		m	8	15	all	As:FE	1995	2001	CS	0	FathOnly	NoParent	current	never
VENNER	3		f	8	15	all	As:FE	1995	2001	CS	0	FathOnly	NoParent	current	never

Appendix Table A66 - 2

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
CHEN1	2	b	0	64	1668	14	467	1.28	(0.71- 2.30)
DOLD	2	b	0	55	602	235	2931	1.14	(0.84- 1.55)
*FERGUS	2	b	0	29	179	58	460	1.28	(0.85- 1.94)
FORAST	15	b	9	58	-	52	-	1.00	(0.70- 1.50)
GOREN1	2	b	0	43	487	50	514	0.91	(0.59- 1.39)
HAJNAL	2	b	13	-	-	-	-	1.20	(0.87- 1.65)
KAY	15	b	1	38	-	108	-	1.29	(0.83- 2.01)
KERSHA	8	b	1	20	-	15	-	2.41	(1.20- 4.87)
VENNER	6	m	0	217	477	48	116	1.10	(0.76- 1.60)
VENNER	3	f	0	214	466	50	130	1.19	(0.83- 1.72)
Subtotal VENNER								1.15	(0.88- 1.49)
Partial Totals				738	3879	630	4618		
*prospective study									

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
CHEN1	2	b	0	0.25	11.14	0.09	0.4102
DOLD	2	b	0	0.13	40.92	0.03	0.4035
*FERGUS	2	b	0	0.25	22.75	0.20	0.2318
FORAST	15	b	9	0.00	26.45	0.65	1.0000
GOREN1	2	b	0	-0.10	21.16	1.36	0.6559
HAJNAL	2	b	13	0.18	37.51	0.02	0.2642
KAY	15	b	1	0.25	19.64	0.19	0.2591
KERSHA	8	b	1	0.88	7.83	4.09	0.0138
VENNER	6	m	0	0.09	27.66	0.11	0.6182
VENNER	3	f	0	0.18	28.98	0.01	0.3399
Subtotal VENNER				-0.04	56.63	0.12	

RR data

	N	10
	NS	9
	Wt	244.03
Het	Chi	6.75
Het	df	9
Het	P	N.S.
Fixed	RR	1.17
	RR1	1.03
	RRu	1.33
	P	+
Random	RR	1.17
	RR1	1.03
	RRu	1.33
	P	+
Asymm	P	(*)

Appendix Table A66 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Adjusted

RR data

	N	10			
	NS	9			
	Wt	244.03			
Het	Chi	6.75			
Het	df	9			
Het	P	N.S.			
Fixed	RR	1.17			
	RRl	1.03			
	RRu	1.33			
	P	+			
Random	RR	1.17			
	RRl	1.03			
	RRu	1.33			
	P	+			
Asymm	P	(*)			
			<u>Sex</u>		
	both	male	female	Total	
	N	8	1	1	10
	NS	8	1	1	9
	Wt	187.40	27.66	28.98	244.03
Het	Chi	6.63	0.00	0.00	6.75
Het	df	7	0	0	9
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.18	1.10	1.19	1.17
	RRl	1.02	0.76	0.83	1.03
	RRu	1.36	1.60	1.72	1.33
	P	+	N.S.	N.S.	+
Random	RR	1.18	1.10	1.19	1.17
	RRl	1.02	0.76	0.83	1.03
	RRu	1.36	1.60	1.72	1.33
	P	+	N.S.	N.S.	+
Between	Chi				0.12
Between	df				2
Between	P				N.S.

Appendix Table A66 - 7

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURR	BUTZ	CHEN2	CUNNI2	DEBENE
	DELL	DODGE	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FIELDE	FLYNN1	FLYNN2	GILLIL	GOLD	GOREN2	GOREN3	GOREN4
	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HU1	HU2	JENKIN	KALYO1	KAPLAN	KEARNE	KELLY	KENDIR	KIVITY	KUEHR	KUHR
	LAM1	LAM2	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NHANE3
	NILSSO	NYSTAD	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK	SANZOR
	SCHENK	SELCUK	SENNHA	SHAMSS	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN2	TAYLOR	TIMONE	TSIMOY	ULRIK
	VARELA	VAVILI	VERHOE	VOLKME	VONMAF	WEITZ1	WITHER	WOLFO1	WOLFO2	WOLFO3	XU	ZEIGER	ZEJDA			
5	BURCHF															

Appendix Table A66 - 8

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Potentially overlapping studies

REF	REFGP	PRINC		OVERLAP
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6	

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
BURCHF	10	m	0	19	all	NAmer	1962	1986	CS	3	FathOnly	NoParent	current	never	0.84	?
BURCHF	13	f	0	19	all	NAmer	1962	1986	CS	3	FathOnly	NoParent	current	never	0.65	?

Appendix Table A67 -

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Paternal or household exposure without maternal exposure
- 3) Exposure during child's lifetime (also including household member ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOSMO : father only, household member (but not mother)
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : not specified household member, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group
and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3
and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which
actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying
results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary),
and any results which would have been included in preference except that they had data not complete enough
for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A67 - 1

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Adjusted

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	9	b	6	7	all	Eu:Ita	1994	1999	CC	11	FathOnly	NoParent	current	never
AGABI2	9	b	13	14	all	Eu:Ita	1994	1999	CC	12	FathOnly	NoParent	current	never
GILLIL	37	b	7	19	all	NAmer	1993	2001	CS	8	FathOnly	NoHhMemb	current	non
WILLE1	8	b	3	15	all	Eu:Sca	1988	1991	CC	0	FathOnly	NotFathr	current	non

Appendix Table A67 - 2

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	9	b	11	212	-	148	-	1.26	(1.01- 1.58)
AGABI2	9	b	12	255	-	203	-	1.04	(0.86- 1.27)
GILLIL	37	b	8	-	-	-	-	1.10	(0.70- 1.80)
WILLE1	8	b	0	6	16	29	43	0.56	(0.19- 1.59)
Partial Totals				473	16	380	43		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	9	b	11	0.23	76.74	1.18	0.0429
AGABI2	9	b	12	0.04	101.11	0.47	0.6933
GILLIL	37	b	8	0.10	17.23	0.00	0.6924
WILLE1	8	b	0	-0.59	3.49	1.68	0.2732

RR data

	N	4
	NS	4
	Wt	198.56
Het	Chi	3.33
Het	df	3
Het	P	N.S.
Fixed	RR	1.11
	RRl	0.97
	RRu	1.28
	P	N.S.
Random	RR	1.11
	RRl	0.95
	RRu	1.30
	P	N.S.
Asymm	P	N.S.

Appendix Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Adjusted

RR data

	N	4							
	NS	4							
	Wt	198.56							
	Het Chi	3.33							
	Het df	3							
	Het P	N.S.							
Fixed	RR	1.11							
	RRl	0.97							
	RRu	1.28							
	P	N.S.							
Random	RR	1.11							
	RRl	0.95							
	RRu	1.30							
	P	N.S.							
Asymm	P	N.S.							
			<u>Sex</u>						
			both	male	female		Total		
	N	4					4		
	NS	4					4		
	Wt	198.56					198.56		
	Het Chi	3.33					3.33		
	Het df	3					3		
	Het P	N.S.					N.S.		
Fixed	RR	1.11					1.11		
	RRl	0.97					0.97		
	RRu	1.28					1.28		
	P	N.S.					N.S.		
Random	RR	1.11					1.11		
	RRl	0.95					0.95		
	RRu	1.30					1.30		
	P	N.S.					N.S.		
Between	Chi								
Between	df								
Between	P						N.S.		
			<u>Continent</u>						
			NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	1			3				4
	NS	1			3				4
	Wt	17.23			181.33				198.56
	Het Chi	0.00			3.32				3.33
	Het df	0			2				3
	Het P	N.S.			N.S.				N.S.
Fixed	RR	1.10			1.11				1.11
	RRl	0.69			0.96				0.97
	RRu	1.76			1.29				1.28
	P	N.S.			N.S.				N.S.
Random	RR	1.10			1.11				1.11
	RRl	0.69			0.89				0.95
	RRu	1.76			1.37				1.30
	P	N.S.			N.S.				N.S.
Between	Chi								0.00
Between	df								1
Between	P								N.S.

Appendix Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure

		Current Asthma					
		Adjusted					
		Country in Europe					
		UK	Italy	Germany	Scand	othWest East/Bal	Total
RR data	N		2		1		3
	NS		2		1		3
	Wt		177.85		3.49		181.33
	Het Chi		1.61		0.00		3.32
	Het df		1		0		2
	Het P		N.S.		N.S.		N.S.
Fixed	RR		1.13		0.56		1.11
	RRl		0.98		0.19		0.96
	RRu		1.31		1.59		1.29
	P		N.S.		N.S.		N.S.
Random	RR		1.14		0.56		1.11
	RRl		0.94		0.19		0.89
	RRu		1.37		1.59		1.37
	P		N.S.		N.S.		N.S.
Between	Chi						1.72
Between	df						1
Between	P						N.S.

		Country in Asia			
		FarEast	Cent/SE	MidlEast	Total

	N				
	NS				
	Wt				
	Het Chi				
	Het df				
	Het P				N.S.
Fixed	RR				
	RRl				
	RRu				
	P				N.S.
Random	RR				
	RRl				
	RRu				
	P				N.S.
Between	Chi				
Between	df				
Between	P				N.S.

		Start year of study					
		<1970	1970-79	1980-89	1990+	unknown	Total

	N			1	3		4
	NS			1	3		4
	Wt			3.49	195.07		198.56
	Het Chi			0.00	1.62		3.33
	Het df			0	2		3
	Het P			N.S.	N.S.		N.S.
Fixed	RR			0.56	1.13		1.11
	RRl			0.19	0.98		0.97
	RRu			1.59	1.30		1.28
	P			N.S.	(+)		N.S.
Random	RR			0.56	1.13		1.11
	RRl			0.19	0.98		0.95
	RRu			1.59	1.30		1.30
	P			N.S.	(+)		N.S.
Between	Chi						1.71
Between	df						1
Between	P						N.S.

Appendix Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure

		Current Asthma Adjusted				
		Publication year			2000+	Total
		<1990	1990-94	1995-99		
RR data	N		1	2	1	4
	NS		1	2	1	4
	Wt		3.49	177.85	17.23	198.56
	Het Chi		0.00	1.61	0.00	3.33
	Het df		0	1	0	3
	Het P		N.S.	N.S.	N.S.	N.S.
	Fixed RR		0.56	1.13	1.10	1.11
	RR1		0.19	0.98	0.69	0.97
	RRu		1.59	1.31	1.76	1.28
	P		N.S.	N.S.	N.S.	N.S.
	Random RR		0.56	1.14	1.10	1.11
	RR1		0.19	0.94	0.69	0.95
	RRu		1.59	1.37	1.76	1.30
	P		N.S.	N.S.	N.S.	N.S.
	Between Chi					1.72
	Between df					2
	Between P					N.S.
			Study type			
			CC	Pr	CS	Total
	N		3		1	4
	NS		3		1	4
	Wt	181.33			17.23	198.56
	Het Chi	3.32			0.00	3.33
	Het df	2			0	3
	Het P	N.S.			N.S.	N.S.
	Fixed RR	1.11			1.10	1.11
	RR1	0.96			0.69	0.97
	RRu	1.29			1.76	1.28
	P	N.S.			N.S.	N.S.
	Random RR	1.11			1.10	1.11
	RR1	0.89			0.69	0.95
	RRu	1.37			1.76	1.30
	P	N.S.			N.S.	N.S.
	Between Chi					0.00
	Between df					1
	Between P					N.S.
			Highest age in RR			
		0-9	10-14	15+	unknown	Total
	N	1	1	2		4
	NS	1	1	2		4
	Wt	76.74	101.11	20.71		198.56
	Het Chi	0.00	0.00	1.35		3.33
	Het df	0	0	1		3
	Het P	N.S.	N.S.	N.S.		N.S.
	Fixed RR	1.26	1.04	0.98		1.11
	RR1	1.01	0.86	0.64		0.97
	RRu	1.58	1.26	1.51		1.28
	P	+	N.S.	N.S.		N.S.
	Random RR	1.26	1.04	0.92		1.11
	RR1	1.01	0.86	0.52		0.95
	RRu	1.58	1.26	1.66		1.30
	P	+	N.S.	N.S.		N.S.
	Between Chi					1.98
	Between df					2
	Between P					N.S.

Appendix Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Adjusted

Population setting
 general school medical allergy other Total

RR data

	N	3	1		4
	NS	3	1		4
	Wt	195.07	3.49		198.56
Het	Chi	1.62	0.00		3.33
Het	df	2	0		3
Het	P	N.S.	N.S.		N.S.
Fixed	RR	1.13	0.56		1.11
	RRl	0.98	0.19		0.97
	RRu	1.30	1.59		1.28
	P	(+)	N.S.		N.S.
Random	RR	1.13	0.56		1.11
	RRl	0.98	0.19		0.95
	RRu	1.30	1.59		1.30
	P	(+)	N.S.		N.S.
Between	Chi				1.71
Between	df				1
Between	P				N.S.

Respondent for smoking
 child parent med rec mix/oth Total

	N	3		1	4
	NS	3		1	4
	Wt	181.33		17.23	198.56
Het	Chi	3.32		0.00	3.33
Het	df	2		0	3
Het	P	N.S.		N.S.	N.S.
Fixed	RR	1.11		1.10	1.11
	RRl	0.96		0.69	0.97
	RRu	1.29		1.76	1.28
	P	N.S.		N.S.	N.S.
Random	RR	1.11		1.10	1.11
	RRl	0.89		0.69	0.95
	RRu	1.37		1.76	1.30
	P	N.S.		N.S.	N.S.
Between	Chi				0.00
Between	df				1
Between	P				N.S.

Child smokers
 exc/none included ignored Total

	N	2	1	1	4
	NS	2	1	1	4
	Wt	93.97	101.11	3.49	198.56
Het	Chi	0.26	0.00	0.00	3.33
Het	df	1	0	0	3
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.23	1.04	0.56	1.11
	RRl	1.00	0.86	0.19	0.97
	RRu	1.50	1.26	1.59	1.28
	P	+	N.S.	N.S.	N.S.
Random	RR	1.23	1.04	0.56	1.11
	RRl	1.00	0.86	0.19	0.95
	RRu	1.50	1.26	1.59	1.30
	P	+	N.S.	N.S.	N.S.
Between	Chi				3.07
Between	df				2
Between	P				N.S.

Appendix Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Adjusted

Physician diagnosis (current)
 yes no/mix Total

RR data

	N	1	3	4
NS	1	3	4	
Wt	3.49	195.07	198.56	
Het Chi	0.00	1.62	3.33	
Het df	0	2	3	
Het P	N.S.	N.S.	N.S.	
Fixed RR	0.56	1.13	1.11	
RRl	0.19	0.98	0.97	
RRu	1.59	1.30	1.28	
P	N.S.	(+)	N.S.	
Random RR	0.56	1.13	1.11	
RRl	0.19	0.98	0.95	
RRu	1.59	1.30	1.30	
P	N.S.	(+)	N.S.	
Between Chi			1.71	
Between df			1	
Between P			N.S.	

Respondent for diagnosis (current)
 medrec parent child mixed Total

	N	1	3	4
NS	1	3	4	
Wt	3.49	195.07	198.56	
Het Chi	0.00	1.62	3.33	
Het df	0	2	3	
Het P	N.S.	N.S.	N.S.	
Fixed RR	0.56	1.13	1.11	
RRl	0.19	0.98	0.97	
RRu	1.59	1.30	1.28	
P	N.S.	(+)	N.S.	
Random RR	0.56	1.13	1.11	
RRl	0.19	0.98	0.95	
RRu	1.59	1.30	1.30	
P	N.S.	(+)	N.S.	
Between Chi			1.71	
Between df			1	
Between P			N.S.	

Questionnaire for symptoms
 ISAAC ATS other Total

	N	2	2	4
NS	2	2	4	
Wt	177.85	20.71	198.56	
Het Chi	1.61	1.35	3.33	
Het df	1	1	3	
Het P	N.S.	N.S.	N.S.	
Fixed RR	1.13	0.98	1.11	
RRl	0.98	0.64	0.97	
RRu	1.31	1.51	1.28	
P	N.S.	N.S.	N.S.	
Random RR	1.14	0.92	1.11	
RRl	0.94	0.52	0.95	
RRu	1.37	1.66	1.30	
P	N.S.	N.S.	N.S.	
Between Chi			0.37	
Between df			1	
Between P			N.S.	

Appendix Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure

Current Asthma
Adjusted
Number of cases (current asthma)

	1-50	51-100	101-200	201+	unknown	Total
--	------	--------	---------	------	---------	-------

RR data

N	1			3		4
NS	1			3		4
Wt	3.49			195.07		198.56
Het Chi	0.00			1.62		3.33
Het df	0			2		3
Het P	N.S.			N.S.		N.S.
Fixed RR	0.56			1.13		1.11
RRl	0.19			0.98		0.97
RRu	1.59			1.30		1.28
P	N.S.			(+)		N.S.
Random RR	0.56			1.13		1.11
RRl	0.19			0.98		0.95
RRu	1.59			1.30		1.30
P	N.S.			(+)		N.S.
Between Chi						1.71
Between df						1
Between P						N.S.

Study adjusts for or is matched on sex

	Yes	No	Total
N	3	1	4
NS	3	1	4
Wt	195.07	3.49	198.56
Het Chi	1.62	0.00	3.33
Het df	2	0	3
Het P	N.S.	N.S.	N.S.
Fixed RR	1.13	0.56	1.11
RRl	0.98	0.19	0.97
RRu	1.30	1.59	1.28
P	(+)	N.S.	N.S.
Random RR	1.13	0.56	1.11
RRl	0.98	0.19	0.95
RRu	1.30	1.59	1.30
P	(+)	N.S.	N.S.
Between Chi			1.71
Between df			1
Between P			N.S.

Study adjusts for or is matched on age

N	3	1	4
NS	3	1	4
Wt	195.07	3.49	198.56
Het Chi	1.62	0.00	3.33
Het df	2	0	3
Het P	N.S.	N.S.	N.S.
Fixed RR	1.13	0.56	1.11
RRl	0.98	0.19	0.97
RRu	1.30	1.59	1.28
P	(+)	N.S.	N.S.
Random RR	1.13	0.56	1.11
RRl	0.98	0.19	0.95
RRu	1.30	1.59	1.30
P	(+)	N.S.	N.S.
Between Chi			1.71
Between df			1
Between P			N.S.

Appendix Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
Current Asthma
Adjusted

Study adjusts for or is matched on race

Yes No Total

RR data

	N	1	3	4
	NS	1	3	4
	Wt	17.23	181.33	198.56
	Het Chi	0.00	3.32	3.33
	Het df	0	2	3
	Het P	N.S.	N.S.	N.S.
Fixed	RR	1.10	1.11	1.11
	RRl	0.69	0.96	0.97
	RRu	1.76	1.29	1.28
	P	N.S.	N.S.	N.S.
Random	RR	1.10	1.11	1.11
	RRl	0.69	0.89	0.95
	RRu	1.76	1.37	1.30
	P	N.S.	N.S.	N.S.
Between	Chi			0.00
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on location

	N	3	1	4
	NS	3	1	4
	Wt	195.07	3.49	198.56
	Het Chi	1.62	0.00	3.33
	Het df	2	0	3
	Het P	N.S.	N.S.	N.S.
Fixed	RR	1.13	0.56	1.11
	RRl	0.98	0.19	0.97
	RRu	1.30	1.59	1.28
	P	(+)	N.S.	N.S.
Random	RR	1.13	0.56	1.11
	RRl	0.98	0.19	0.95
	RRu	1.30	1.59	1.30
	P	(+)	N.S.	N.S.
Between	Chi			1.71
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on SES

	N	2	2	4
	NS	2	2	4
	Wt	177.85	20.71	198.56
	Het Chi	1.61	1.35	3.33
	Het df	1	1	3
	Het P	N.S.	N.S.	N.S.
Fixed	RR	1.13	0.98	1.11
	RRl	0.98	0.64	0.97
	RRu	1.31	1.51	1.28
	P	N.S.	N.S.	N.S.
Random	RR	1.14	0.92	1.11
	RRl	0.94	0.52	0.95
	RRu	1.37	1.66	1.30
	P	N.S.	N.S.	N.S.
Between	Chi			0.37
Between	df			1
Between	P			N.S.

Appendix Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
Current Asthma

Adjusted
Study adjusts for family medical history
 Yes No Total

RR data

N	3	1	4
NS	3	1	4
Wt	195.07	3.49	198.56
Het Chi	1.62	0.00	3.33
Het df	2	0	3
Het P	N.S.	N.S.	N.S.
Fixed RR	1.13	0.56	1.11
RRl	0.98	0.19	0.97
RRu	1.30	1.59	1.28
P	(+)	N.S.	N.S.
Random RR	1.13	0.56	1.11
RRl	0.98	0.19	0.95
RRu	1.30	1.59	1.30
P	(+)	N.S.	N.S.
Between Chi			1.71
Between df			1
Between P			N.S.

Study adjusts for family composition

N		4	4
NS		4	4
Wt		198.56	198.56
Het Chi		3.33	3.33
Het df		3	3
Het P		N.S.	N.S.
Fixed RR		1.11	1.11
RRl		0.97	0.97
RRu		1.28	1.28
P		N.S.	N.S.
Random RR		1.11	1.11
RRl		0.95	0.95
RRu		1.30	1.30
P		N.S.	N.S.
Between Chi			
Between df			
Between P			N.S.

Study adjusts for cooking, heating, air conditioning

N	2	2	4
NS	2	2	4
Wt	177.85	20.71	198.56
Het Chi	1.61	1.35	3.33
Het df	1	1	3
Het P	N.S.	N.S.	N.S.
Fixed RR	1.13	0.98	1.11
RRl	0.98	0.64	0.97
RRu	1.31	1.51	1.28
P	N.S.	N.S.	N.S.
Random RR	1.14	0.92	1.11
RRl	0.94	0.52	0.95
RRu	1.37	1.66	1.30
P	N.S.	N.S.	N.S.
Between Chi			0.37
Between df			1
Between P			N.S.

Appendix Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure

Current Asthma

Adjusted

Study adjusts for housing quality, crowding, damp, mould

Yes No Total

RR data

N	2	2	4
NS	2	2	4
Wt	177.85	20.71	198.56
Het Chi	1.61	1.35	3.33
Het df	1	1	3
Het P	N.S.	N.S.	N.S.
Fixed RR	1.13	0.98	1.11
RRl	0.98	0.64	0.97
RRu	1.31	1.51	1.28
P	N.S.	N.S.	N.S.
Random RR	1.14	0.92	1.11
RRl	0.94	0.52	0.95
RRu	1.37	1.66	1.30
P	N.S.	N.S.	N.S.
Between Chi			0.37
Between df			1
Between P			N.S.

Study adjusts for pets, animal contact, farming

N		4	4
NS		4	4
Wt		198.56	198.56
Het Chi		3.33	3.33
Het df		3	3
Het P		N.S.	N.S.
Fixed RR		1.11	1.11
RRl		0.97	0.97
RRu		1.28	1.28
P		N.S.	N.S.
Random RR		1.11	1.11
RRl		0.95	0.95
RRu		1.30	1.30
P		N.S.	N.S.
Between Chi			
Between df			
Between P			N.S.

Study adjusts for child's medical history

N	1	3	4
NS	1	3	4
Wt	17.23	181.33	198.56
Het Chi	0.00	3.32	3.33
Het df	0	2	3
Het P	N.S.	N.S.	N.S.
Fixed RR	1.10	1.11	1.11
RRl	0.69	0.96	0.97
RRu	1.76	1.29	1.28
P	N.S.	N.S.	N.S.
Random RR	1.10	1.11	1.11
RRl	0.69	0.89	0.95
RRu	1.76	1.37	1.30
P	N.S.	N.S.	N.S.
Between Chi			0.00
Between df			1
Between P			N.S.

Appendix Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Adjusted

Study adjusts for in utero exposure
 Yes No Total

RR data

N	3	1	4
NS	3	1	4
Wt	195.07	3.49	198.56
Het Chi	1.62	0.00	3.33
Het df	2	0	3
Het P	N.S.	N.S.	N.S.
Fixed RR	1.13	0.56	1.11
RRl	0.98	0.19	0.97
RRu	1.30	1.59	1.28
P	(+)	N.S.	N.S.
Random RR	1.13	0.56	1.11
RRl	0.98	0.19	0.95
RRu	1.30	1.59	1.30
P	(+)	N.S.	N.S.
Between Chi			1.71
Between df			1
Between P			N.S.

Study adjusts for in life exposure

N	4	4
NS	4	4
Wt	198.56	198.56
Het Chi	3.33	3.33
Het df	3	3
Het P	N.S.	N.S.
Fixed RR	1.11	1.11
RRl	0.97	0.97
RRu	1.28	1.28
P	N.S.	N.S.
Random RR	1.11	1.11
RRl	0.95	0.95
RRu	1.30	1.30
P	N.S.	N.S.
Between Chi		
Between df		
Between P		N.S.

Exposure source

FathOnly HhNotMot Total

N	4	4
NS	4	4
Wt	198.56	198.56
Het Chi	3.33	3.33
Het df	3	3
Het P	N.S.	N.S.
Fixed RR	1.11	1.11
RRl	0.97	0.97
RRu	1.28	1.28
P	N.S.	N.S.
Random RR	1.11	1.11
RRl	0.95	0.95
RRu	1.30	1.30
P	N.S.	N.S.
Between Chi		
Between df		
Between P		N.S.

Appendix Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure

Current Asthma

Adjusted

Exposed group : when Exposed
 lif/ev age<7y current unspec other Total

RR data

	N		4		4
	NS		4		4
	Wt		198.56		198.56
Het	Chi		3.33		3.33
Het	df		3		3
Het	P		N.S.		N.S.
Fixed	RR		1.11		1.11
	RRl		0.97		0.97
	RRu		1.28		1.28
	P		N.S.		N.S.
Random	RR		1.11		1.11
	RRl		0.95		0.95
	RRu		1.30		1.30
	P		N.S.		N.S.
Between	Chi				
Between	df				
Between	P				N.S.

Unexposed group : who is smoker

NoHhMemb NoParent NotSpPar Total

	N	1	2	1	4
	NS	1	2	1	4
	Wt	17.23	177.85	3.49	198.56
Het	Chi	0.00	1.61	0.00	3.33
Het	df	0	1	0	3
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.10	1.13	0.56	1.11
	RRl	0.69	0.98	0.19	0.97
	RRu	1.76	1.31	1.59	1.28
	P	N.S.	N.S.	N.S.	N.S.
Random	RR	1.10	1.14	0.56	1.11
	RRl	0.69	0.94	0.19	0.95
	RRu	1.76	1.37	1.59	1.30
	P	N.S.	N.S.	N.S.	N.S.
Between	Chi				1.72
Between	df				2
Between	P				N.S.

Unexposed group : time

non never non+othr Total

	N	2	2	4
	NS	2	2	4
	Wt	20.71	177.85	198.56
Het	Chi	1.35	1.61	3.33
Het	df	1	1	3
Het	P	N.S.	N.S.	N.S.
Fixed	RR	0.98	1.13	1.11
	RRl	0.64	0.98	0.97
	RRu	1.51	1.31	1.28
	P	N.S.	N.S.	N.S.
Random	RR	0.92	1.14	1.11
	RRl	0.52	0.94	0.95
	RRu	1.66	1.37	1.30
	P	N.S.	N.S.	N.S.
Between	Chi			0.37
Between	df			1
Between	P			N.S.

Appendix Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure

		Current Asthma						
		Adjusted						
		Number of adjustment variables						
		0	1	2	3-5	6-9	10+	Total
RR data	N	1				1	2	4
	NS	1				1	2	4
	Wt	3.49				17.23	177.85	198.56
	Het Chi	0.00				0.00	1.61	3.33
	Het df	0				0	1	3
	Het P	N.S.				N.S.	N.S.	N.S.
	Fixed RR	0.56				1.10	1.13	1.11
	RRl	0.19				0.69	0.98	0.97
	RRu	1.59				1.76	1.31	1.28
	P	N.S.				N.S.	N.S.	N.S.
	Random RR	0.56				1.10	1.14	1.11
	RRl	0.19				0.69	0.94	0.95
	RRu	1.59				1.76	1.37	1.30
	P	N.S.				N.S.	N.S.	N.S.
	Between Chi							1.72
	Between df							2
	Between P							N.S.

RR adjusted for sex

		Yes	No	Total
	N	3	1	4
	NS	3	1	4
	Wt	195.07	3.49	198.56
	Het Chi	1.62	0.00	3.33
	Het df	2	0	3
	Het P	N.S.	N.S.	N.S.
	Fixed RR	1.13	0.56	1.11
	RRl	0.98	0.19	0.97
	RRu	1.30	1.59	1.28
	P	(+)	N.S.	N.S.
	Random RR	1.13	0.56	1.11
	RRl	0.98	0.19	0.95
	RRu	1.30	1.59	1.30
	P	(+)	N.S.	N.S.
	Between Chi			1.71
	Between df			1
	Between P			N.S.

RR adjusted for age

		Yes	No	Total
	N	3	1	4
	NS	3	1	4
	Wt	195.07	3.49	198.56
	Het Chi	1.62	0.00	3.33
	Het df	2	0	3
	Het P	N.S.	N.S.	N.S.
	Fixed RR	1.13	0.56	1.11
	RRl	0.98	0.19	0.97
	RRu	1.30	1.59	1.28
	P	(+)	N.S.	N.S.
	Random RR	1.13	0.56	1.11
	RRl	0.98	0.19	0.95
	RRu	1.30	1.59	1.30
	P	(+)	N.S.	N.S.
	Between Chi			1.71
	Between df			1
	Between P			N.S.

Appendix Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
Current Asthma
Adjusted

RR adjusted for other ETS
 Yes No Total

RR data

N	2	2	4
NS	2	2	4
Wt	177.85	20.71	198.56
Het Chi	1.61	1.35	3.33
Het df	1	1	3
Het P	N.S.	N.S.	N.S.
Fixed RR	1.13	0.98	1.11
RRl	0.98	0.64	0.97
RRu	1.31	1.51	1.28
P	N.S.	N.S.	N.S.
Random RR	1.14	0.92	1.11
RRl	0.94	0.52	0.95
RRu	1.37	1.66	1.30
P	N.S.	N.S.	N.S.
Between Chi			0.37
Between df			1
Between P			N.S.

RR adjusted for factor other than sex, age, other ETS

N	3	1	4
NS	3	1	4
Wt	195.07	3.49	198.56
Het Chi	1.62	0.00	3.33
Het df	2	0	3
Het P	N.S.	N.S.	N.S.
Fixed RR	1.13	0.56	1.11
RRl	0.98	0.19	0.97
RRu	1.30	1.59	1.28
P	(+)	N.S.	N.S.
Random RR	1.13	0.56	1.11
RRl	0.98	0.19	0.95
RRu	1.30	1.59	1.30
P	(+)	N.S.	N.S.
Between Chi			1.71
Between df			1
Between P			N.S.

Derivation of RR/CI

	Original	Numbers	SumNumbs	Other	Total
N	3		1		4
NS	3		1		4
Wt	195.07		3.49		198.56
Het Chi	1.62		0.00		3.33
Het df	2		0		3
Het P	N.S.		N.S.		N.S.
Fixed RR	1.13		0.56		1.11
RRl	0.98		0.19		0.97
RRu	1.30		1.59		1.28
P	(+)		N.S.		N.S.
Random RR	1.13		0.56		1.11
RRl	0.98		0.19		0.95
RRu	1.30		1.59		1.30
P	(+)		N.S.		N.S.
Between Chi					1.71
Between df					1
Between P					N.S.

Appendix Table A67 - 4

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Unadjusted

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	2	x	b	6	7	all	Eu:Ita	1994	1999	CC	0	FathOnly	NoParent	current	never
AGABI2	2	x	b	13	14	all	Eu:Ita	1994	1999	CC	0	FathOnly	NoParent	current	never
GILLIL	37		b	7	19	all	NAmer	1993	2001	CS	8	FathOnly	NoHhMemb	current	non
WILLE1	8		b	3	15	all	Eu:Sca	1988	1991	CC	0	FathOnly	NotFathr	current	non

Appendix Table A67 - 5

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	2	b	0	212	3222	148	2825	1.26	(1.01- 1.56)
AGABI2	2	b	0	255	3210	203	2837	1.11	(0.92- 1.34)
GILLIL	37	b	8	-	-	-	-	1.10	(0.70- 1.80)
WILLE1	8	b	0	6	16	29	43	0.56	(0.19- 1.59)
Partial Totals				473	6448	380	5705		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	2	b	0	0.23	82.39	0.62	0.0386
AGABI2	2	b	0	0.10	105.13	0.14	0.2838
GILLIL	37	b	8	0.10	17.23	0.04	0.6924
WILLE1	8	b	0	-0.59	3.49	1.85	0.2732

RR data

	N	4
	NS	4
	Wt	208.23
Het	Chi	2.64
Het	df	3
Het	P	N.S.
Fixed	RR	1.15
	RRl	1.01
	RRu	1.32
	P	+
Random	RR	1.15
	RRl	1.01
	RRu	1.32
	P	+
Asymm	P	N.S.

Appendix Table A67 - 6

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure

Current Asthma

Unadjusted

	Start year of study			1990+	unknown	Total
	<1970	1970-79	1980-89			

RR data

N			1	3		4
NS			1	3		4
Wt			3.49	204.75		208.23
Het Chi			0.00	0.77		2.64
Het df			0	2		3
Het P			N.S.	N.S.		N.S.
Fixed RR			0.56	1.17		1.15
RRl			0.19	1.02		1.01
RRu			1.59	1.34		1.32
P			N.S.	+		+
Random RR			0.56	1.17		1.15
RRl			0.19	1.02		1.01
RRu			1.59	1.34		1.32
P			N.S.	+		+
Between Chi						1.88
Between df						1
Between P						N.S.

	Study type		CS	Total
	CC	Pr		

N	3		1	4
NS	3		1	4
Wt	191.00		17.23	208.23
Het Chi	2.61		0.00	2.64
Het df	2		0	3
Het P	N.S.		N.S.	N.S.
Fixed RR	1.16		1.10	1.15
RRl	1.00		0.69	1.01
RRu	1.33		1.76	1.32
P	+		N.S.	+
Random RR	1.15		1.10	1.15
RRl	0.96		0.69	1.01
RRu	1.37		1.76	1.32
P	N.S.		N.S.	+
Between Chi				0.04
Between df				1
Between P				N.S.

Appendix Table A67 - 7

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	ARSHAD	BALL	BERGMA	CALL	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK	DIJKST	DOTTER
	EHRLI1	FAGBUL	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GUPTA	HABY	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES
	INFANT	JAAKKO	JONES	KALYO1	KALYO2	KARUNA	KNIGHT	LAM1	LAM2	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC
	MCCON2	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO	NHANE3	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	RONMAR	SARRAZ
	SCHMIT	SELCUK	SHOHAT	SOMERV	SOTOQU	STANHO	STERN1	STERN2	STODDA	STRACH	TARIQ	TOMINA	WANG	WEITZ1	WEITZ2	WILLE2
	WOLFO1	WOLFO2	WOLFO3	YANG	ZHENG											
5	AZIZI															

Appendix Table A67 - 8

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP													
GILLIL	GILLIL	1	MCCON1/GILLIL													
Adjusted - insufficient data for metaanalysis																
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
AZIZI	2	b	0	5	all	As:cen	1989	1995	CC	0	FathOnly	NoParent	unspec	non	*	n

Appendix Table A68 -

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Paternal or household exposure without maternal exposure
- 3) Exposure during child's lifetime (also including household member ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) WHOSMO : father only, household member (but not mother)
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : none in household, not specified household member
- 9) UNEXTI : not at longer time, never (in smoker's lifetime), not at specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 (and those which actually differ from the adjusted results in Appendix Table A67 - 1 are marked 'x' in Section -1) (Sections 4-6 not presented)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A68 - 1

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Adjusted

REF	NRR	CompA67	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGABI1	9		b	6	7	all	Eu:Ita	1994	1999	CC	11	FathOnly	NoParent	current	never
AGABI2	9		b	13	14	all	Eu:Ita	1994	1999	CC	12	FathOnly	NoParent	current	never
GILLIL	37		b	7	19	all	NAmer	1993	2001	CS	8	FathOnly	NoHhMemb	current	non
WILLE1	2	x	b	3	15	all	Eu:Sca	1988	1991	CC	0	FathOnly	NoParent	current	non

Appendix Table A68 - 2

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	9	b	11	212	-	148	-	1.26	(1.01- 1.58)
AGABI2	9	b	12	255	-	203	-	1.04	(0.86- 1.27)
GILLIL	37	b	8	-	-	-	-	1.10	(0.70- 1.80)
WILLE1	2	b	0	6	16	12	30	0.94	(0.30- 2.97)
Partial Totals				473	16	363	30		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	9	b	11	0.23	76.74	1.00	0.0429
AGABI2	9	b	12	0.04	101.11	0.61	0.6933
GILLIL	37	b	8	0.10	17.23	0.01	0.6924
WILLE1	2	b	0	-0.06	2.89	0.10	0.9126

RR data

	N	4
	NS	4
	Wt	197.96
Het	Chi	1.71
Het	df	3
Het	P	N.S.
Fixed	RR	1.12
	RRl	0.98
	RRu	1.29
	P	(+)
Random	RR	1.12
	RRl	0.98
	RRu	1.29
	P	(+)
Asymm	P	N.S.

Appendix Table A68 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Adjusted

RR data

	N	4			
	NS	4			
	Wt	197.96			
Het	Chi	1.71			
Het	df	3			
Het	P	N.S.			
Fixed	RR	1.12			
	RRl	0.98			
	RRu	1.29			
	P	(+)			
Random	RR	1.12			
	RRl	0.98			
	RRu	1.29			
	P	(+)			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	4		4	
	NS	4		4	
	Wt	197.96		197.96	
Het	Chi	1.71		1.71	
Het	df	3		3	
Het	P	N.S.		N.S.	
Fixed	RR	1.12		1.12	
	RRl	0.98		0.98	
	RRu	1.29		1.29	
	P	(+)		(+)	
Random	RR	1.12		1.12	
	RRl	0.98		0.98	
	RRu	1.29		1.29	
	P	(+)		(+)	
Between	Chi				
Between	df				
Between	P			N.S.	

Appendix Table A68 - 7

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	ADDOYO	ARSHAD	BALL	BERGMA	CALL	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER	DEKOK	DIJKST	DOTTER
	EHRLI1	FAGBUL	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GUPTA	HABY	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES
	INFANT	JAAKKO	JONES	KALYO1	KALYO2	KARUNA	KNIGHT	LAM1	LAM2	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC
	MCCON2	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO	NHANE3	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	RONMAR	SARRAZ
	SCHMIT	SELCUK	SHOHAT	SOMERV	SOTOQU	STANHO	STERN1	STERN2	STODDA	STRACH	TARIQ	TOMINA	WANG	WEITZ1	WEITZ2	WILLE2
	WOLFO1	WOLFO2	WOLFO3	YANG	ZHENG											
5	AZIZI															

Appendix Table A68 - 8

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP													
GILLIL	GILLIL	1	MCCON1/GILLIL													
Adjusted - insufficient data for metaanalysis																
REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
AZIZI	2	b	0	5	all As:cen	1989	1995	CC	0	FathOnly	NoParent	unspec	non		*	n

Appendix Table A69 -

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Household (overall), or parental exposure
- 3) Exposure during child's lifetime but discontinued (also including parent ex smoker, but not specific in utero exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : household, parent
- 7) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 8) WHESMO : during child's lifetime but not current, ex (i.e. during smoker's lifetime)
- 9) UNEXSO : not specific parent, neither parent, none in household, none
- 10) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time (GILLIL: not in utero or since birth, KUHR: not since birth)
- 11) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 12) RACE : all in study or nearest available, otherwise by race
- 13) ONSET : yes, no (prevalence)
- 14) For overlapping studies: principal rather than subsidiary studies

Finally by Age: whole study if available, otherwise by widest available age group

and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A69 - 1

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXP-Time	UNEXTI
BUTZ	1	b	*	*	all	NAmer	1989	1992	CC	0	AnyPar	NotSpPar	Ex	never
CHEN2	31	b	6	17	all	NAmer	1993	1996	CS	6	Mother	NotMothr	Ex	never
GILLIL	52	m	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	LifeNotCur	othr
GILLIL	61	f	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	LifeNotCur	othr
KUHR	5	b	7	16	all	Eu:Ger	1987	1991	CS	6	AnyPar	NoParent	LifeNotCur	othr
MCKEEV	1	b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	Ex	never
VERHOE	4	b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	Ex	never

Appendix Table A69 - 2

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
BUTZ	1	b	0	40	37	47	54	1.24	(0.69- 2.25)
CHEN2	31	b	6	29	-	42	-	1.49	(0.84- 2.63)
GILLIL	52	m	0	38	196	247	1183	0.93	(0.64- 1.35)
GILLIL	61	f	0	33	267	149	1281	1.06	(0.71- 1.58)
Subtotal GILLIL								0.99	(0.75- 1.30)
KUHR	5	b	6	14	-	7	-	1.61	(0.64- 4.07)
*MCKEEV	1	b	0	521	2672	2088	13058	1.22	(1.12- 1.33)
VERHOE	4	b	0	19	36	39	72	0.97	(0.49- 1.92)
Partial Totals				694	3208	2619	15648		
*prospective study									

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
BUTZ	1	b	0	0.22	10.89	0.01	0.4743
CHEN2	31	b	6	0.40	11.80	0.55	0.1708
GILLIL	52	m	0	-0.07	27.54	1.83	0.6973
GILLIL	61	f	0	0.06	24.07	0.36	0.7658
Subtotal GILLIL				-0.38	51.61	2.19	
KUHR	5	b	6	0.48	4.49	0.38	0.3129
*MCKEEV	1	b	0	0.20	513.48	0.11	0.0000
VERHOE	4	b	0	-0.03	8.34	0.37	0.9402

RR data

	N	7
	NS	6
	Wt	600.61
Het	Chi	3.61
Het	df	6
Het	P	N.S.
Fixed	RR	1.20
	RRl	1.11
	RRu	1.30
	P	+++
Random	RR	1.20
	RRl	1.11
	RRu	1.30
	P	+++
Asymm	P	N.S.

Appendix Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Adjusted

RR data

	N	7						
	NS	6						
	Wt	600.61						
	Het Chi	3.61						
	Het df	6						
	Het P	N.S.						
Fixed	RR	1.20						
	RRl	1.11						
	RRu	1.30						
	P	+++						
Random	RR	1.20						
	RRl	1.11						
	RRu	1.30						
	P	+++						
Asymm	P	N.S.						
			<u>Sex</u>					
		both	male	female			Total	
	N	5	1	1			7	
	NS	5	1	1			6	
	Wt	549.00	27.54	24.07			600.61	
	Het Chi	1.24	0.00	0.00			3.61	
	Het df	4	0	0			6	
	Het P	N.S.	N.S.	N.S.			N.S.	
Fixed	RR	1.22	0.93	1.06			1.20	
	RRl	1.13	0.64	0.71			1.11	
	RRu	1.33	1.35	1.58			1.30	
	P	+++	N.S.	N.S.			+++	
Random	RR	1.22	0.93	1.06			1.20	
	RRl	1.13	0.64	0.71			1.11	
	RRu	1.33	1.35	1.58			1.30	
	P	+++	N.S.	N.S.			+++	
Between	Chi						2.38	
Between	df						2	
Between	P						N.S.	
			<u>Continent</u>					
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	4		3				7
	NS	3		3				6
	Wt	74.30		526.31				600.61
	Het Chi	2.06		0.77				3.61
	Het df	3		2				6
	Het P	N.S.		N.S.				N.S.
Fixed	RR	1.09		1.22				1.20
	RRl	0.87		1.12				1.11
	RRu	1.37		1.33				1.30
	P	N.S.		+++				+++
Random	RR	1.09		1.22				1.20
	RRl	0.87		1.12				1.11
	RRu	1.37		1.33				1.30
	P	N.S.		+++				+++
Between	Chi							0.79
Between	df							1
Between	P							N.S.

Appendix Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Adjusted

		<u>Country in Europe</u>						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
RR data	N	1		1		1		3
	NS	1		1		1		3
	Wt	513.48		4.49		8.34		526.31
Het	Chi	0.00		0.00		0.00		0.77
Het	df	0		0		0		2
Het	P	N.S.		N.S.		N.S.		N.S.
Fixed	RR	1.22		1.61		0.97		1.22
	RRl	1.12		0.64		0.49		1.12
	RRu	1.33		4.06		1.92		1.33
	P	+++		N.S.		N.S.		+++
Random	RR	1.22		1.61		0.97		1.22
	RRl	1.12		0.64		0.49		1.12
	RRu	1.33		4.06		1.92		1.33
	P	+++		N.S.		N.S.		+++
Between	Chi							0.77
Between	df							2
Between	P							N.S.

Country in Asia
FarEast Cent/SE MidlEast Total

	N				
	NS				
	Wt				
Het	Chi				
Het	df				
Het	P				
Fixed	RR				
	RRl				
	RRu				
	P				
Random	RR				
	RRl				
	RRu				
	P				
Between	Chi				
Between	df				
Between	P				N.S.

Start year of study
<1970 1970-79 1980-89 1990+ unknown Total

	N		2	3	2	7
	NS		2	2	2	6
	Wt		15.38	63.41	521.82	600.61
Het	Chi		0.21	1.85	0.41	3.61
Het	df		1	2	1	6
Het	P		N.S.	N.S.	N.S.	N.S.
Fixed	RR		1.34	1.07	1.22	1.20
	RRl		0.81	0.83	1.12	1.11
	RRu		2.21	1.37	1.32	1.30
	P		N.S.	N.S.	+++	+++
Random	RR		1.34	1.07	1.22	1.20
	RRl		0.81	0.83	1.12	1.11
	RRu		2.21	1.37	1.32	1.30
	P		N.S.	N.S.	+++	+++
Between	Chi					1.14
Between	df					2
Between	P					N.S.

Appendix Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent

		Lifetime Asthma Adjusted				
		Publication year				Total
		<1990	1990-94	1995-99	2000+	
RR data	N		3	1	3	7
	NS		3	1	2	6
	Wt		23.72	11.80	565.10	600.61
	Het Chi		0.76	0.00	2.29	3.61
	Het df		2	0	2	6
	Het P		N.S.	N.S.	N.S.	N.S.
	Fixed RR		1.20	1.49	1.20	1.20
	RR1		0.80	0.84	1.10	1.11
	RRu		1.79	2.64	1.30	1.30
	P		N.S.	N.S.	+++	+++
	Random RR		1.20	1.49	1.17	1.20
	RR1		0.80	0.84	1.03	1.11
	RRu		1.79	2.64	1.33	1.30
	P		N.S.	N.S.	+	+++
	Between Chi					0.56
	Between df					2
	Between P					N.S.
			Study type			
			CC	Pr	CS	Total
	N		2	1	4	7
	NS		2	1	3	6
	Wt	19.23	513.48	67.90		600.61
	Het Chi	0.28	0.00	2.56		3.61
	Het df	1	0	3		6
	Het P	N.S.	N.S.	N.S.		N.S.
	Fixed RR	1.12	1.22	1.10		1.20
	RR1	0.72	1.12	0.86		1.11
	RRu	1.75	1.33	1.39		1.30
	P	N.S.	+++	N.S.		+++
	Random RR	1.12	1.22	1.10		1.20
	RR1	0.72	1.12	0.86		1.11
	RRu	1.75	1.33	1.39		1.30
	P	N.S.	+++	N.S.		+++
	Between Chi					0.78
	Between df					2
	Between P					N.S.
			Highest age in RR			
		0-9	10-14	15+	unknown	Total
	N		2	4	1	7
	NS		2	3	1	6
	Wt		521.82	67.90	10.89	600.61
	Het Chi		0.41	2.56	0.00	3.61
	Het df		1	3	0	6
	Het P		N.S.	N.S.	N.S.	N.S.
	Fixed RR		1.22	1.10	1.24	1.20
	RR1		1.12	0.86	0.69	1.11
	RRu		1.32	1.39	2.25	1.30
	P		+++	N.S.	N.S.	+++
	Random RR		1.22	1.10	1.24	1.20
	RR1		1.12	0.86	0.69	1.11
	RRu		1.32	1.39	2.25	1.30
	P		+++	N.S.	N.S.	+++
	Between Chi					0.64
	Between df					2
	Between P					N.S.

Appendix Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Adjusted

Population setting
general school medical allergy other Total

RR data

	N	2	3	2		7
	NS	2	2	2		6
	Wt	16.29	59.95	524.37		600.61
Het	Chi	0.02	0.24	0.00		3.61
Het	df	1	2	1		6
Het	P	N.S.	N.S.	N.S.		N.S.
Fixed	RR	1.52	0.99	1.22		1.20
	RRl	0.94	0.77	1.12		1.11
	RRu	2.47	1.27	1.33		1.30
	P	(+)	N.S.	+++		+++
Random	RR	1.52	0.99	1.22		1.20
	RRl	0.94	0.77	1.12		1.11
	RRu	2.47	1.27	1.33		1.30
	P	(+)	N.S.	+++		+++
Between	Chi					3.36
Between	df					2
Between	P					N.S.

Respondent for smoking
child parent med rec mix/oth Total

	N		3	1	3	7
	NS		3	1	2	6
	Wt		23.72	513.48	63.41	600.61
Het	Chi		0.76	0.00	1.85	3.61
Het	df		2	0	2	6
Het	P		N.S.	N.S.	N.S.	N.S.
Fixed	RR		1.20	1.22	1.07	1.20
	RRl		0.80	1.12	0.83	1.11
	RRu		1.79	1.33	1.37	1.30
	P		N.S.	+++	N.S.	+++
Random	RR		1.20	1.22	1.07	1.20
	RRl		0.80	1.12	0.83	1.11
	RRu		1.79	1.33	1.37	1.30
	P		N.S.	+++	N.S.	+++
Between	Chi					1.00
Between	df					2
Between	P					N.S.

Child smokers
exc/none included ignored Total

	N	3	1	3	7
	NS	2	1	3	6
	Wt	56.10	11.80	532.71	600.61
Het	Chi	1.21	0.00	0.42	3.61
Het	df	2	0	2	6
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.03	1.49	1.22	1.20
	RRl	0.79	0.84	1.12	1.11
	RRu	1.34	2.64	1.32	1.30
	P	N.S.	N.S.	+++	+++
Random	RR	1.03	1.49	1.22	1.20
	RRl	0.79	0.84	1.12	1.11
	RRu	1.34	2.64	1.32	1.30
	P	N.S.	N.S.	+++	+++
Between	Chi				1.98
Between	df				2
Between	P				N.S.

Appendix Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Adjusted

Physician diagnosis (lifetime)
yes no/mixed Total

RR data

N	6	1	7
NS	5	1	6
Wt	592.27	8.34	600.61
Het Chi	3.24	0.00	3.61
Het df	5	0	6
Het P	N.S.	N.S.	N.S.
Fixed RR	1.21	0.97	1.20
RRl	1.11	0.49	1.11
RRu	1.31	1.92	1.30
P	+++	N.S.	+++
Random RR	1.21	0.97	1.20
RRl	1.11	0.49	1.11
RRu	1.31	1.92	1.30
P	+++	N.S.	+++
Between Chi			0.37
Between df			1
Between P			N.S.

Respondent for diagnosis (lifetime)
medrec parent child mixed Total

N	2	4	1	7
NS	2	3	1	6
Wt	524.37	67.90	8.34	600.61
Het Chi	0.00	2.56	0.00	3.61
Het df	1	3	0	6
Het P	N.S.	N.S.	N.S.	N.S.
Fixed RR	1.22	1.10	0.97	1.20
RRl	1.12	0.86	0.49	1.11
RRu	1.33	1.39	1.92	1.30
P	+++	N.S.	N.S.	+++
Random RR	1.22	1.10	0.97	1.20
RRl	1.12	0.86	0.49	1.11
RRu	1.33	1.39	1.92	1.30
P	+++	N.S.	N.S.	+++
Between Chi				1.05
Between df				2
Between P				N.S.

Questionnaire for symptoms
ISAAC ATS other Total

N		7	7
NS		6	6
Wt		600.61	600.61
Het Chi		3.61	3.61
Het df		6	6
Het P		N.S.	N.S.
Fixed RR		1.20	1.20
RRl		1.11	1.11
RRu		1.30	1.30
P		+++	+++
Random RR		1.20	1.20
RRl		1.11	1.11
RRu		1.30	1.30
P		+++	+++
Between Chi			
Between df			
Between P			N.S.

Appendix Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Adjusted

Analysis type
prevalence onset Total

RR data

	N	6	1	7
	NS	5	1	6
	Wt	87.13	513.48	600.61
Het	Chi	2.84	0.00	3.61
Het	df	5	0	6
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.10	1.22	1.20
	RRl	0.89	1.12	1.11
	RRu	1.36	1.33	1.30
	P	N.S.	+++	+++
Random	RR	1.10	1.22	1.20
	RRl	0.89	1.12	1.11
	RRu	1.36	1.33	1.30
	P	N.S.	+++	+++
Between	Chi			0.77
Between	df			1
Between	P			N.S.

Number of cases (lifetime asthma)

		1-50	51-100	101-200	201+	unknown	Total
	N	1	1	2	3		7
	NS	1	1	2	2		6
	Wt	4.49	11.80	19.23	565.10		600.61
Het	Chi	0.00	0.00	0.28	2.29		3.61
Het	df	0	0	1	2		6
Het	P	N.S.	N.S.	N.S.	N.S.		N.S.
Fixed	RR	1.61	1.49	1.12	1.20		1.20
	RRl	0.64	0.84	0.72	1.10		1.11
	RRu	4.06	2.64	1.75	1.30		1.30
	P	N.S.	N.S.	N.S.	+++		+++
Random	RR	1.61	1.49	1.12	1.17		1.20
	RRl	0.64	0.84	0.72	1.03		1.11
	RRu	4.06	2.64	1.75	1.33		1.30
	P	N.S.	N.S.	N.S.	+		+++
Between	Chi						1.04
Between	df						3
Between	P						N.S.

Study adjusts for or is matched on sex

		Yes	No	Total
	N	4	3	7
	NS	3	3	6
	Wt	67.90	532.71	600.61
Het	Chi	2.56	0.42	3.61
Het	df	3	2	6
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.10	1.22	1.20
	RRl	0.86	1.12	1.11
	RRu	1.39	1.32	1.30
	P	N.S.	+++	+++
Random	RR	1.10	1.22	1.20
	RRl	0.86	1.12	1.11
	RRu	1.39	1.32	1.30
	P	N.S.	+++	+++
Between	Chi			0.64
Between	df			1
Between	P			N.S.

Appendix Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Adjusted

Study adjusts for or is matched on age

Yes No Total

RR data

N	3	4	7
NS	2	4	6
Wt	63.41	537.20	600.61
Het Chi	1.85	0.77	3.61
Het df	2	3	6
Het P	N.S.	N.S.	N.S.
Fixed RR	1.07	1.22	1.20
RRl	0.83	1.12	1.11
RRu	1.37	1.33	1.30
P	N.S.	+++	+++
Random RR	1.07	1.22	1.20
RRl	0.83	1.12	1.11
RRu	1.37	1.33	1.30
P	N.S.	+++	+++
Between Chi			1.00
Between df			1
Between P			N.S.

Study adjusts for or is matched on race

N	2	5	7
NS	1	5	6
Wt	51.61	549.00	600.61
Het Chi	0.23	1.24	3.61
Het df	1	4	6
Het P	N.S.	N.S.	N.S.
Fixed RR	0.99	1.22	1.20
RRl	0.75	1.13	1.11
RRu	1.30	1.33	1.30
P	N.S.	+++	+++
Random RR	0.99	1.22	1.20
RRl	0.75	1.13	1.11
RRu	1.30	1.33	1.30
P	N.S.	+++	+++
Between Chi			2.14
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	3	4	7
NS	2	4	6
Wt	56.10	544.51	600.61
Het Chi	1.21	0.90	3.61
Het df	2	3	6
Het P	N.S.	N.S.	N.S.
Fixed RR	1.03	1.22	1.20
RRl	0.79	1.12	1.11
RRu	1.34	1.33	1.30
P	N.S.	+++	+++
Random RR	1.03	1.22	1.20
RRl	0.79	1.12	1.11
RRu	1.34	1.33	1.30
P	N.S.	+++	+++
Between Chi			1.50
Between df			1
Between P			N.S.

Appendix Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Adjusted

Study adjusts for or is matched on SES
Yes No Total

RR data

N	1	6	7
NS	1	5	6
Wt	10.89	589.72	600.61
Het Chi	0.00	3.60	3.61
Het df	0	5	6
Het P	N.S.	N.S.	N.S.
Fixed RR	1.24	1.20	1.20
RRl	0.69	1.11	1.11
RRu	2.25	1.30	1.30
P	N.S.	+++	+++
Random RR	1.24	1.20	1.20
RRl	0.69	1.11	1.11
RRu	2.25	1.30	1.30
P	N.S.	+++	+++
Between Chi			0.01
Between df			1
Between P			N.S.

Study adjusts for family medical history

N	3	4	7
NS	2	4	6
Wt	63.41	537.20	600.61
Het Chi	1.85	0.77	3.61
Het df	2	3	6
Het P	N.S.	N.S.	N.S.
Fixed RR	1.07	1.22	1.20
RRl	0.83	1.12	1.11
RRu	1.37	1.33	1.30
P	N.S.	+++	+++
Random RR	1.07	1.22	1.20
RRl	0.83	1.12	1.11
RRu	1.37	1.33	1.30
P	N.S.	+++	+++
Between Chi			1.00
Between df			1
Between P			N.S.

Study adjusts for family composition

N	1	6	7
NS	1	5	6
Wt	11.80	588.81	600.61
Het Chi	0.00	3.06	3.61
Het df	0	5	6
Het P	N.S.	N.S.	N.S.
Fixed RR	1.49	1.20	1.20
RRl	0.84	1.10	1.11
RRu	2.64	1.30	1.30
P	N.S.	+++	+++
Random RR	1.49	1.20	1.20
RRl	0.84	1.10	1.11
RRu	2.64	1.30	1.30
P	N.S.	+++	+++
Between Chi			0.56
Between df			1
Between P			N.S.

Appendix Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma

Adjusted
Study adjusts for cooking, heating, air conditioning
Yes No Total

RR data

N	1	6	7
NS	1	5	6
Wt	4.49	596.12	600.61
Het Chi	0.00	3.23	3.61
Het df	0	5	6
Het P	N.S.	N.S.	N.S.
Fixed RR	1.61	1.20	1.20
RRl	0.64	1.11	1.11
RRu	4.06	1.30	1.30
P	N.S.	+++	+++
Random RR	1.61	1.20	1.20
RRl	0.64	1.11	1.11
RRu	4.06	1.30	1.30
P	N.S.	+++	+++
Between Chi			0.39
Between df			1
Between P			N.S.

Study adjusts for housing quality, crowding, damp, mould

N	2	5	7
NS	2	4	6
Wt	16.29	584.32	600.61
Het Chi	0.02	2.66	3.61
Het df	1	4	6
Het P	N.S.	N.S.	N.S.
Fixed RR	1.52	1.19	1.20
RRl	0.94	1.10	1.11
RRu	2.47	1.29	1.30
P	(+)	+++	+++
Random RR	1.52	1.19	1.20
RRl	0.94	1.10	1.11
RRu	2.47	1.29	1.30
P	(+)	+++	+++
Between Chi			0.94
Between df			1
Between P			N.S.

Study adjusts for pets, animal contact, farming

N	7	7
NS	6	6
Wt	600.61	600.61
Het Chi	3.61	3.61
Het df	6	6
Het P	N.S.	N.S.
Fixed RR	1.20	1.20
RRl	1.11	1.11
RRu	1.30	1.30
P	+++	+++
Random RR	1.20	1.20
RRl	1.11	1.11
RRu	1.30	1.30
P	+++	+++
Between Chi		
Between df		
Between P		N.S.

Appendix Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma

Adjusted
Study adjusts for child's medical history
Yes No Total

RR data

N	4	3	7
NS	3	3	6
Wt	67.90	532.71	600.61
Het Chi	2.56	0.42	3.61
Het df	3	2	6
Het P	N.S.	N.S.	N.S.
Fixed RR	1.10	1.22	1.20
RRl	0.86	1.12	1.11
RRu	1.39	1.32	1.30
P	N.S.	+++	+++
Random RR	1.10	1.22	1.20
RRl	0.86	1.12	1.11
RRu	1.39	1.32	1.30
P	N.S.	+++	+++
Between Chi			0.64
Between df			1
Between P			N.S.

Study adjusts for in utero exposure

N	2	5	7
NS	1	5	6
Wt	51.61	549.00	600.61
Het Chi	0.23	1.24	3.61
Het df	1	4	6
Het P	N.S.	N.S.	N.S.
Fixed RR	0.99	1.22	1.20
RRl	0.75	1.13	1.11
RRu	1.30	1.33	1.30
P	N.S.	+++	+++
Random RR	0.99	1.22	1.20
RRl	0.75	1.13	1.11
RRu	1.30	1.33	1.30
P	N.S.	+++	+++
Between Chi			2.14
Between df			1
Between P			N.S.

Study adjusts for in life exposure

N	2	5	7
NS	1	5	6
Wt	51.61	549.00	600.61
Het Chi	0.23	1.24	3.61
Het df	1	4	6
Het P	N.S.	N.S.	N.S.
Fixed RR	0.99	1.22	1.20
RRl	0.75	1.13	1.11
RRu	1.30	1.33	1.30
P	N.S.	+++	+++
Random RR	0.99	1.22	1.20
RRl	0.75	1.13	1.11
RRu	1.30	1.33	1.30
P	N.S.	+++	+++
Between Chi			2.14
Between df			1
Between P			N.S.

Appendix Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Adjusted

Exposed group : Who is smoker

	AnyHh	AnyPar	Mother	Father	Total
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RR data

N	2	3	2		7
NS	1	3	2		6
Wt	51.61	23.72	525.28		600.61
Het Chi	0.23	0.76	0.46		3.61
Het df	1	2	1		6
Het P	N.S.	N.S.	N.S.		N.S.
Fixed RR	0.99	1.20	1.22		1.20
RRl	0.75	0.80	1.12		1.11
RRu	1.30	1.79	1.33		1.30
P	N.S.	N.S.	+++		+++
Random RR	0.99	1.20	1.22		1.20
RRl	0.75	0.80	1.12		1.11
RRu	1.30	1.79	1.33		1.30
P	N.S.	N.S.	+++		+++
Between Chi					2.15
Between df					2
Between P					N.S.

Exposed group : when Exposed

	Ex	LifeNotC	Total
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N	4	3	7
NS	4	2	6
Wt	544.51	56.10	600.61
Het Chi	0.90	1.21	3.61
Het df	3	2	6
Het P	N.S.	N.S.	N.S.
Fixed RR	1.22	1.03	1.20
RRl	1.12	0.79	1.11
RRu	1.33	1.34	1.30
P	+++	N.S.	+++
Random RR	1.22	1.03	1.20
RRl	1.12	0.79	1.11
RRu	1.33	1.34	1.30
P	+++	N.S.	+++
Between Chi			1.50
Between df			1
Between P			N.S.

Unexposed group : who is smoker

	NoHhMemb	NoParent	NotSpPar	Total
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N	2	2	3	7
NS	1	2	3	6
Wt	51.61	12.83	536.17	600.61
Het Chi	0.23	0.74	0.47	3.61
Het df	1	1	2	6
Het P	N.S.	N.S.	N.S.	N.S.
Fixed RR	0.99	1.16	1.23	1.20
RRl	0.75	0.67	1.13	1.11
RRu	1.30	2.01	1.33	1.30
P	N.S.	N.S.	+++	+++
Random RR	0.99	1.16	1.23	1.20
RRl	0.75	0.67	1.13	1.11
RRu	1.30	2.01	1.33	1.30
P	N.S.	N.S.	+++	+++
Between Chi				2.18
Between df				2
Between P				N.S.

Appendix Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent

		<u>Lifetime Asthma</u>					
		<u>Adjusted</u>					
		<u>Unexposed group : time</u>					
		<u>non</u>	<u>never</u>	<u>non+othr</u>	<u>NA</u>	<u>Total</u>	
RR data							
	N		4	3		7	
	NS		4	2		6	
	Wt		544.51	56.10		600.61	
	Het Chi		0.90	1.21		3.61	
	Het df		3	2		6	
	Het P		N.S.	N.S.		N.S.	
	Fixed RR		1.22	1.03		1.20	
	RR1		1.12	0.79		1.11	
	RRu		1.33	1.34		1.30	
	P		+++	N.S.		+++	
	Random RR		1.22	1.03		1.20	
	RR1		1.12	0.79		1.11	
	RRu		1.33	1.34		1.30	
	P		+++	N.S.		+++	
	Between Chi					1.50	
	Between df					1	
	Between P					N.S.	
			<u>Number of adjustment variables</u>				
		0	1	2	3-5	6-9	10+ Total
	N	5				2	7
	NS	4				2	6
	Wt	584.32				16.29	600.61
	Het Chi	2.66				0.02	3.61
	Het df	4				1	6
	Het P	N.S.				N.S.	N.S.
	Fixed RR	1.19				1.52	1.20
	RR1	1.10				0.94	1.11
	RRu	1.29				2.47	1.30
	P	+++				(+)	+++
	Random RR	1.19				1.52	1.20
	RR1	1.10				0.94	1.11
	RRu	1.29				2.47	1.30
	P	+++				(+)	+++
	Between Chi						0.94
	Between df						1
	Between P						N.S.
		<u>RR adjusted for sex</u>					
		<u>Yes</u>	<u>No</u>	<u>Total</u>			
	N	2	5	7			
	NS	2	4	6			
	Wt	16.29	584.32	600.61			
	Het Chi	0.02	2.66	3.61			
	Het df	1	4	6			
	Het P	N.S.	N.S.	N.S.			
	Fixed RR	1.52	1.19	1.20			
	RR1	0.94	1.10	1.11			
	RRu	2.47	1.29	1.30			
	P	(+)	+++	+++			
	Random RR	1.52	1.19	1.20			
	RR1	0.94	1.10	1.11			
	RRu	2.47	1.29	1.30			
	P	(+)	+++	+++			
	Between Chi			0.94			
	Between df			1			
	Between P			N.S.			

Appendix Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Adjusted

RR adjusted for age
Yes No Total

RR data

	N	1	6	7
	NS	1	5	6
	Wt	11.80	588.81	600.61
	Het Chi	0.00	3.06	3.61
	Het df	0	5	6
	Het P	N.S.	N.S.	N.S.
Fixed	RR	1.49	1.20	1.20
	RRl	0.84	1.10	1.11
	RRu	2.64	1.30	1.30
	P	N.S.	+++	+++
Random	RR	1.49	1.20	1.20
	RRl	0.84	1.10	1.11
	RRu	2.64	1.30	1.30
	P	N.S.	+++	+++
Between	Chi			0.56
Between	df			1
Between	P			N.S.

RR adjusted for other ETS

	N		7	7
	NS		6	6
	Wt		600.61	600.61
	Het Chi		3.61	3.61
	Het df		6	6
	Het P		N.S.	N.S.
Fixed	RR		1.20	1.20
	RRl		1.11	1.11
	RRu		1.30	1.30
	P		+++	+++
Random	RR		1.20	1.20
	RRl		1.11	1.11
	RRu		1.30	1.30
	P		+++	+++
Between	Chi			
Between	df			
Between	P			N.S.

RR adjusted for factor other than sex, age, other ETS

	N	2	5	7
	NS	2	4	6
	Wt	16.29	584.32	600.61
	Het Chi	0.02	2.66	3.61
	Het df	1	4	6
	Het P	N.S.	N.S.	N.S.
Fixed	RR	1.52	1.19	1.20
	RRl	0.94	1.10	1.11
	RRu	2.47	1.29	1.30
	P	(+)	+++	+++
Random	RR	1.52	1.19	1.20
	RRl	0.94	1.10	1.11
	RRu	2.47	1.29	1.30
	P	(+)	+++	+++
Between	Chi			0.94
Between	df			1
Between	P			N.S.

Appendix Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
 Lifetime Asthma
 Adjusted

	Original	<u>Derivation of RR/CI</u>		Other	Total
		Numbers	SumNumbs		

RR data

	N	1	3	1	2	7
	NS	1	2	1	2	6
	Wt	513.48	62.50	8.34	16.29	600.61
Het	Chi	0.00	0.70	0.00	0.02	3.61
Het	df	0	2	0	1	6
Het	P	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.22	1.03	0.97	1.52	1.20
	RRl	1.12	0.80	0.49	0.94	1.11
	RRu	1.33	1.32	1.92	2.47	1.30
	P	+++	N.S.	N.S.	(+)	+++
Random	RR	1.22	1.03	0.97	1.52	1.20
	RRl	1.12	0.80	0.49	0.94	1.11
	RRu	1.33	1.32	1.92	2.47	1.30
	P	+++	N.S.	N.S.	(+)	+++
Between	Chi					2.89
Between	df					3
Between	P					N.S.

Appendix Table A69 - 4

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
 Lifetime Asthma
 Unadjusted

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXP-Time	UNEXTI
BUTZ	1		b	*	*	all	NAmer	1989	1992	CC	0	AnyPar	NotSpPar	Ex	never
CHEN2	5	x	b	6	17	all	NAmer	1993	1996	CS	0	Mother	NotMothr	Ex	never
GILLIL	52		m	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	LifeNotCur	othr
GILLIL	61		f	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	LifeNotCur	othr
KUHR	1	x	b	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	LifeNotCur	othr
MCKEEV	1		b	0	11	all	Eu:UK	*	2001	Pr	0	Mother	NotMothr	Ex	never
VERHOE	4		b	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	Ex	never

Appendix Table A69 - 5

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
BUTZ	1	b	0	40	37	47	54	1.24	(0.69- 2.25)
CHEN2	5	b	0	29	211	42	421	1.38	(0.83- 2.27)
GILLIL	52	m	0	38	196	247	1183	0.93	(0.64- 1.35)
GILLIL	61	f	0	33	267	149	1281	1.06	(0.71- 1.58)
Subtotal GILLIL								0.99	(0.75- 1.30)
KUHR	1	b	0	14	248	7	194	1.56	(0.62- 3.95)
*MCKEEV	1	b	0	521	2672	2088	13058	1.22	(1.12- 1.33)
VERHOE	4	b	0	19	36	39	72	0.97	(0.49- 1.92)
Totals				694	3667	2619	16263		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
BUTZ	1	b	0	0.22	10.89	0.01	0.4743
CHEN2	5	b	0	0.32	15.29	0.29	0.2103
GILLIL	52	m	0	-0.07	27.54	1.82	0.6973
GILLIL	61	f	0	0.06	24.07	0.36	0.7658
Subtotal GILLIL				-0.38	51.61	2.17	
KUHR	1	b	0	0.45	4.47	0.31	0.3437
*MCKEEV	1	b	0	0.20	513.48	0.13	0.0000
VERHOE	4	b	0	-0.03	8.34	0.36	0.9402

RR data

N	7
NS	6
Wt	604.09
Het Chi	3.28
Het df	6
Het P	N.S.
Fixed RR	1.20
RR1	1.11
RRu	1.30
P	+++
Random RR	1.20
RR1	1.11
RRu	1.30
P	+++
Asymm P	N.S.

Appendix Table A69 - 6

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Unadjusted

RR data

	N	7						
	NS	6						
	Wt	604.09						
	Het Chi	3.28						
	Het df	6						
	Het P	N.S.						
Fixed	RR	1.20						
	RRl	1.11						
	RRu	1.30						
	P	+++						
Random	RR	1.20						
	RRl	1.11						
	RRu	1.30						
	P	+++						
Asymm	P	N.S.						
			<u>Sex</u>					
		both	male	female		Total		
	N	5	1	1		7		
	NS	5	1	1		6		
	Wt	552.48	27.54	24.07		604.09		
	Het Chi	0.93	0.00	0.00		3.28		
	Het df	4	0	0		6		
	Het P	N.S.	N.S.	N.S.		N.S.		
Fixed	RR	1.22	0.93	1.06		1.20		
	RRl	1.12	0.64	0.71		1.11		
	RRu	1.33	1.35	1.58		1.30		
	P	+++	N.S.	N.S.		+++		
Random	RR	1.22	0.93	1.06		1.20		
	RRl	1.12	0.64	0.71		1.11		
	RRu	1.33	1.35	1.58		1.30		
	P	+++	N.S.	N.S.		+++		
Between	Chi					2.35		
Between	df					2		
Between	P					N.S.		
			<u>Continent</u>					
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	4		3				7
	NS	3		3				6
	Wt	77.79		526.30				604.09
	Het Chi	1.75		0.70				3.28
	Het df	3		2				6
	Het P	N.S.		N.S.				N.S.
Fixed	RR	1.09		1.22				1.20
	RRl	0.87		1.12				1.11
	RRu	1.36		1.33				1.30
	P	N.S.		+++				+++
Random	RR	1.09		1.22				1.20
	RRl	0.87		1.12				1.11
	RRu	1.36		1.33				1.30
	P	N.S.		+++				+++
Between	Chi							0.84
Between	df							1
Between	P							N.S.

Appendix Table A69 - 6

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
 Lifetime Asthma
 Unadjusted

Start year of study
 <1970 1970-79 1980-89 1990+ unknown Total

RR data

	N		2	3	2	7
	NS		2	2	2	6
	Wt		15.37	66.90	521.82	604.09
Het	Chi		0.17	1.53	0.41	3.28
Het	df		1	2	1	6
Het	P		N.S.	N.S.	N.S.	N.S.
Fixed	RR		1.33	1.07	1.22	1.20
	RRl		0.81	0.84	1.12	1.11
	RRu		2.19	1.36	1.32	1.30
	P		N.S.	N.S.	+++	+++
Random	RR		1.33	1.07	1.22	1.20
	RRl		0.81	0.84	1.12	1.11
	RRu		2.19	1.36	1.32	1.30
	P		N.S.	N.S.	+++	+++
Between	Chi					1.17
Between	df					2
Between	P					N.S.

Study type
 CC Pr CS Total

	N	2	1	4	7
	NS	2	1	3	6
	Wt	19.23	513.48	71.38	604.09
Het	Chi	0.28	0.00	2.15	3.28
Het	df	1	0	3	6
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.12	1.22	1.09	1.20
	RRl	0.72	1.12	0.87	1.11
	RRu	1.75	1.33	1.38	1.30
	P	N.S.	+++	N.S.	+++
Random	RR	1.12	1.22	1.09	1.20
	RRl	0.72	1.12	0.87	1.11
	RRu	1.75	1.33	1.38	1.30
	P	N.S.	+++	N.S.	+++
Between	Chi				0.86
Between	df				2
Between	P				N.S.

Appendix Table A69 - 7

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	ADDOYO	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CONKA	CUNNI1	DAIGLE	DEKKER	DEKOK
	DIJKST	DOTTER	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO
	JONES	KALYO2	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MELIA	MELSOM	MOHAME	MOUSSA	MUMCUO
	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	SARRAZ	SCHMIT	SHOHAT	SOMERV	SOTOQU	STERN1	STODDA	STRACH	TARIQ
	TOMINA	WANG	WEITZ2	WILLE1	WILLE2	YANG	ZHENG									
2	GURKAN	SPIEKE	TSIMOY													
3	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	CHEN1	CUNNI2	DEBENE
	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2	FORAST	GOLD	GOREN1
	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	HAJNAL	HU1	HU2	JENKIN	KALYO1	KAPLAN	KAY	KEARNE	KELLY
	KENDIR	KERSHA	KIVITY	KUEHR	LAM1	LAM2	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MONTEF	MOYES1
	MOYES2	MURRAY	NHANE3	NILSSO	NYSTAD	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	RONMAR
	ROSASV	RUDNIK	SANZOR	SCHENK	SELCUK	SENNHA	SHAMSS	SHERMA	SIGURS	SOYSET	SQUILL	STANHO	STAZI	STERN2	TAYLOR	TIMONE
	ULRIK	VARELA	VAVILI	VENNER	VOLKME	VONMAF	WEITZ1	WITHER	WOLFO1	WOLFO2	WOLFO3	XU	ZEIGER	ZEJDA		

Appendix Table A69 - 8

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL

Appendix Table A70 -

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Household (overall), or parental exposure
- 3) Exposure during child's lifetime but discontinued (also including parent ex smoker, but not specific in utero exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:

- 6) EXPOS : household, parent
- 7) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 8) WHESMO : during child's lifetime but not current, ex (i.e. during smoker's lifetime)
- 9) UNEXSO : not specific parent, neither parent, none in household, none
- 10) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time (CUNNI1 and GILLIL: not since birth)
- 11) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 12) RACE : all in study or nearest available, otherwise by race
- 13) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age group and then for single sex results (m, f) in preference to results for both sexes combined (b).

Results adjusted for the most potential confounders are then chosen in Sections -1 to -3 and results adjusted for the least confounders in Sections -4 to -6. (Those least adjusted results which actually differ from the most adjusted are marked 'x' in column X in Section -4)

Section -7 shows excluded studies, together with the stage (as above) at which no qualifying results were found.

Section -8 lists the potentially overlapping studies which have been included (1=principal, 2=subsidiary), and any results which would have been included in preference except that they had data not complete enough for use in metaanalysis. It also lists their significance (yes/no), if known.

Appendix Table A70 - 1

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma
Adjusted

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXP-Time	UNEXTI
AGABI1	23	b	6	7	all	Eu:Ita	1994	1999	CC	11	Mother	NotMothr	Ex	never
AGABI2	23	b	13	14	all	Eu:Ita	1994	1999	CC	12	Mother	NotMothr	Ex	never
CHEN2	44	b	6	17	all	NAmer	1993	1996	CS	1	Mother	NotMothr	Ex	never
CUNNI1	19	b	8	11	all	NAmer	1988	1996	CS	10	AnyHh	NoHhMemb	LifeNotCur	othr
GILLIL	32	b	7	19	all	NAmer	1993	2001	CS	8	AnyHh	NoHhMemb	LifeNotCur	othr
GOLD	1	b	6	14	all	NAmer	1974	1993	Pr	11	Mother	NotMothr	Ex	never
HJERN1	9	b	3	15	all	Eu:Sca	1996	2001	CS	9	Mother	NotMothr	Ex	never
HJERN2	9	b	3	15	all	Eu:Sca	1996	2001	CS	9	Father	NotFathr	Ex	never

Appendix Table A70 - 2

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	23	b	11	198	-	375	-	1.27	(1.06- 1.52)
AGABI2	23	b	12	221	-	595	-	0.98	(0.83- 1.16)
CHEN2	44	b	1	22	-	37	-	1.15	(0.64- 2.05)
CUNNI1	19	b	10	-	-	-	-	0.93	(0.74- 1.17)
GILLIL	32	b	8	85	-	298	-	1.20	(0.90- 1.70)
GOLD	1	b	11	-	-	-	-	0.87	(0.68- 1.12)
HJERN1	9	b	9	30	-	58	-	0.70	(0.50- 1.10)
HJERN2	9	b	9	32	-	34	-	1.00	(0.60- 1.50)
Partial Totals				588	0	1397	0		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	23	b	11	0.24	118.27	5.50	0.0093
AGABI2	23	b	12	-0.02	137.12	0.26	0.8130
CHEN2	44	b	1	0.14	11.34	0.15	0.6379
CUNNI1	19	b	10	-0.07	73.22	0.67	0.5346
GILLIL	32	b	8	0.18	37.99	0.96	0.2611
GOLD	1	b	11	-0.14	61.71	1.63	0.2740
HJERN1	9	b	9	-0.36	24.72	3.57	0.0762
HJERN2	9	b	9	0.00	18.30	0.01	1.0000

RR data

	N	8
	NS	8
	Wt	482.67
Het	Chi	12.76
Het	df	7
Het	P	(*)
Fixed	RR	1.02
	RRl	0.94
	RRu	1.12
	P	N.S.
Random	RR	1.01
	RRl	0.88
	RRu	1.15
	P	N.S.
Asymm	P	N.S.

Appendix Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma
Adjusted

RR data

	N	8							
	NS	8							
	Wt	482.67							
	Het Chi	12.76							
	Het df	7							
	Het P	(*)							
Fixed	RR	1.02							
	RRl	0.94							
	RRu	1.12							
	P	N.S.							
Random	RR	1.01							
	RRl	0.88							
	RRu	1.15							
	P	N.S.							
Asymm	P	N.S.							
			<u>Sex</u>						
			both	male	female		Total		
	N	8					8		
	NS	8					8		
	Wt	482.67					482.67		
	Het Chi	12.76					12.76		
	Het df	7					7		
	Het P	(*)					(*)		
Fixed	RR	1.02					1.02		
	RRl	0.94					0.94		
	RRu	1.12					1.12		
	P	N.S.					N.S.		
Random	RR	1.01					1.01		
	RRl	0.88					0.88		
	RRu	1.15					1.15		
	P	N.S.					N.S.		
Between	Chi								
Between	df								
Between	P						N.S.		
			<u>Continent</u>						
			NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	4			4				8
	NS	4			4				8
	Wt	184.26			298.42				482.67
	Het Chi	2.91			9.02				12.76
	Het df	3			3				7
	Het P	N.S.			*				(*)
Fixed	RR	0.97			1.06				1.02
	RRl	0.84			0.94				0.94
	RRu	1.12			1.18				1.12
	P	N.S.			N.S.				N.S.
Random	RR	0.97			1.01				1.01
	RRl	0.84			0.80				0.88
	RRu	1.12			1.26				1.15
	P	N.S.			N.S.				N.S.
Between	Chi								0.83
Between	df								1
Between	P								N.S.

Appendix Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent

		Current Asthma						
		Adjusted						
		Country in Europe						
		UK	Italy	Germany	Scand	othWest East/Bal	Total	
RR data								
	N		2		2		4	
	NS		2		2		4	
	Wt		255.40		43.02		298.42	
	Het Chi		4.27		1.34		9.02	
	Het df		1		1		3	
	Het P		*		N.S.		*	
	Fixed RR		1.10		0.81		1.06	
	RRl		0.98		0.60		0.94	
	RRu		1.25		1.10		1.18	
	P		N.S.		N.S.		N.S.	
	Random RR		1.11		0.82		1.01	
	RRl		0.86		0.58		0.80	
	RRu		1.43		1.16		1.26	
	P		N.S.		N.S.		N.S.	
	Between Chi						3.42	
	Between df						1	
	Between P						(*)	
			Country in Asia					
			FarEast	Cent/SE	MidlEast		Total	
	N							
	NS							
	Wt							
	Het Chi							
	Het df							
	Het P						N.S.	
	Fixed RR							
	RRl							
	RRu							
	P						N.S.	
	Random RR							
	RRl							
	RRu							
	P						N.S.	
	Between Chi							
	Between df							
	Between P						N.S.	
			Start year of study					
			<1970	1970-79	1980-89	1990+	unknown	Total
	N			1	1	6		8
	NS			1	1	6		8
	Wt		61.71	73.22	347.74			482.67
	Het Chi		0.00	0.00	9.62			12.76
	Het df		0	0	5			7
	Het P		N.S.	N.S.	(*)			(*)
	Fixed RR		0.87	0.93	1.08			1.02
	RRl		0.68	0.74	0.97			0.94
	RRu		1.12	1.17	1.19			1.12
	P		N.S.	N.S.	N.S.			N.S.
	Random RR		0.87	0.93	1.05			1.01
	RRl		0.68	0.74	0.89			0.88
	RRu		1.12	1.17	1.25			1.15
	P		N.S.	N.S.	N.S.			N.S.
	Between Chi							3.14
	Between df							2
	Between P							N.S.

Appendix Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent

		Current Asthma Adjusted				
		Publication year				
		<1990	1990-94	1995-99	2000+	Total
RR data	N		1	4	3	8
	NS		1	4	3	8
	Wt	61.71	339.95		81.01	482.67
	Het Chi	0.00	6.03		4.36	12.76
	Het df	0	3		2	7
	Het P	N.S.	N.S.		N.S.	(*)
	Fixed RR	0.87	1.07		0.98	1.02
	RRl	0.68	0.96		0.79	0.94
	RRu	1.12	1.19		1.21	1.12
	P	N.S.	N.S.		N.S.	N.S.
	Random RR	0.87	1.06		0.96	1.01
	RRl	0.68	0.90		0.69	0.88
	RRu	1.12	1.25		1.33	1.15
	P	N.S.	N.S.		N.S.	N.S.
	Between Chi					2.37
	Between df					2
	Between P					N.S.
		Study type				
		CC	Pr	CS	Total	
	N	2	1	5	8	
	NS	2	1	5	8	
	Wt	255.40	61.71	165.56	482.67	
	Het Chi	4.27	0.00	4.82	12.76	
	Het df	1	0	4	7	
	Het P	*	N.S.	N.S.	(*)	
	Fixed RR	1.10	0.87	0.97	1.02	
	RRl	0.98	0.68	0.83	0.94	
	RRu	1.25	1.12	1.13	1.12	
	P	N.S.	N.S.	N.S.	N.S.	
	Random RR	1.11	0.87	0.97	1.01	
	RRl	0.86	0.68	0.81	0.88	
	RRu	1.43	1.12	1.15	1.15	
	P	N.S.	N.S.	N.S.	N.S.	
	Between Chi				3.67	
	Between df				2	
	Between P				N.S.	
		Highest age in RR				
		0-9	10-14	15+	unknown	Total
	N	1	3	4		8
	NS	1	3	4		8
	Wt	118.27	272.05	92.35		482.67
	Het Chi	0.00	0.62	4.63		12.76
	Het df	0	2	3		7
	Het P	N.S.	N.S.	N.S.		(*)
	Fixed RR	1.27	0.94	1.00		1.02
	RRl	1.06	0.84	0.81		0.94
	RRu	1.52	1.06	1.22		1.12
	P	++	N.S.	N.S.		N.S.
	Random RR	1.27	0.94	0.99		1.01
	RRl	1.06	0.84	0.76		0.88
	RRu	1.52	1.06	1.28		1.15
	P	++	N.S.	N.S.		N.S.
	Between Chi					7.52
	Between df					2
	Between P					*

Appendix Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma
Adjusted

general Population setting
 school medical allergy other Total

RR data

	N	3	5		8
	NS	3	5		8
	Wt	54.36	428.32		482.67
Het	Chi	2.40	8.86		12.76
Het	df	2	4		7
Het	P	N.S.	(*)		(*)
Fixed	RR	0.88	1.04		1.02
	RRl	0.67	0.95		0.94
	RRu	1.14	1.15		1.12
	P	N.S.	N.S.		N.S.
Random	RR	0.88	1.04		1.01
	RRl	0.66	0.90		0.88
	RRu	1.19	1.20		1.15
	P	N.S.	N.S.		N.S.
Between	Chi				1.50
Between	df				1
Between	P				N.S.

Respondent for smoking
 child parent med rec mix/oth Total

	N	5	3	8
	NS	5	3	8
	Wt	371.63	111.04	482.67
Het	Chi	10.00	2.68	12.76
Het	df	4	2	7
Het	P	*	N.S.	(*)
Fixed	RR	1.03	1.00	1.02
	RRl	0.93	0.83	0.94
	RRu	1.14	1.20	1.12
	P	N.S.	N.S.	N.S.
Random	RR	0.99	1.02	1.01
	RRl	0.83	0.81	0.88
	RRu	1.19	1.28	1.15
	P	N.S.	N.S.	N.S.
Between	Chi			0.08
Between	df			1
Between	P			N.S.

Child smokers
 exc/none included ignored Total

	N	2	3	3	8
	NS	2	3	3	8
	Wt	156.26	210.18	116.24	482.67
Het	Chi	0.09	1.02	1.81	12.76
Het	df	1	2	2	7
Het	P	N.S.	N.S.	N.S.	(*)
Fixed	RR	1.25	0.95	0.89	1.02
	RRl	1.07	0.83	0.74	0.94
	RRu	1.47	1.09	1.06	1.12
	P	++	N.S.	N.S.	N.S.
Random	RR	1.25	0.95	0.89	1.01
	RRl	1.07	0.83	0.74	0.88
	RRu	1.47	1.09	1.06	1.15
	P	++	N.S.	N.S.	N.S.
Between	Chi				9.84
Between	df				2
Between	P				**

Appendix Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
 Current Asthma
 Adjusted

Physician diagnosis (current)
 yes no/mix Total

RR data

N	3	5	8
NS	3	5	8
Wt	54.36	428.32	482.67
Het Chi	2.40	8.86	12.76
Het df	2	4	7
Het P	N.S.	(*)	(*)
Fixed RR	0.88	1.04	1.02
RRl	0.67	0.95	0.94
RRu	1.14	1.15	1.12
P	N.S.	N.S.	N.S.
Random RR	0.88	1.04	1.01
RRl	0.66	0.90	0.88
RRu	1.19	1.20	1.15
P	N.S.	N.S.	N.S.
Between Chi			1.50
Between df			1
Between P			N.S.

Respondent for diagnosis (current)
 medrec parent child mixed Total

N		6	2	8
NS		6	2	8
Wt		439.66	43.02	482.67
Het Chi		8.96	1.34	12.76
Het df		5	1	7
Het P		N.S.	N.S.	(*)
Fixed RR		1.05	0.81	1.02
RRl		0.95	0.60	0.94
RRu		1.15	1.10	1.12
P		N.S.	N.S.	N.S.
Random RR		1.04	0.82	1.01
RRl		0.91	0.58	0.88
RRu		1.19	1.16	1.15
P		N.S.	N.S.	N.S.
Between Chi				2.46
Between df				1
Between P				N.S.

Questionnaire for symptoms
 ISAAC ATS other Total

N	2	1	5	8
NS	2	1	5	8
Wt	255.40	61.71	165.56	482.67
Het Chi	4.27	0.00	4.82	12.76
Het df	1	0	4	7
Het P	*	N.S.	N.S.	(*)
Fixed RR	1.10	0.87	0.97	1.02
RRl	0.98	0.68	0.83	0.94
RRu	1.25	1.12	1.13	1.12
P	N.S.	N.S.	N.S.	N.S.
Random RR	1.11	0.87	0.97	1.01
RRl	0.86	0.68	0.81	0.88
RRu	1.43	1.12	1.15	1.15
P	N.S.	N.S.	N.S.	N.S.
Between Chi				3.67
Between df				2
Between P				N.S.

Appendix Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent

Current Asthma
Adjusted
Number of cases (current asthma)

	1-50	51-100	101-200	201+	unknown	Total
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RR data

	N	2	1	5		8
	NS	2	1	5		8
	Wt	29.64	24.72	428.32		482.67
Het	Chi	0.14	0.00	8.86		12.76
Het	df	1	0	4		7
Het	P	N.S.	N.S.	(*)		(*)
Fixed	RR	1.05	0.70	1.04		1.02
	RRl	0.74	0.47	0.95		0.94
	RRu	1.51	1.04	1.15		1.12
	P	N.S.	(-)	N.S.		N.S.
Random	RR	1.05	0.70	1.04		1.01
	RRl	0.74	0.47	0.90		0.88
	RRu	1.51	1.04	1.20		1.15
	P	N.S.	(-)	N.S.		N.S.
Between	Chi					3.77
Between	df					2
Between	P					N.S.

Study adjusts for or is matched on sex

	Yes	No	Total
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	N	8		8
	NS	8		8
	Wt	482.67		482.67
Het	Chi	12.76		12.76
Het	df	7		7
Het	P	(*)		(*)
Fixed	RR	1.02		1.02
	RRl	0.94		0.94
	RRu	1.12		1.12
	P	N.S.		N.S.
Random	RR	1.01		1.01
	RRl	0.88		0.88
	RRu	1.15		1.15
	P	N.S.		N.S.
Between	Chi			
Between	df			
Between	P			N.S.

Study adjusts for or is matched on age

	N	7	1	8
	NS	7	1	8
	Wt	409.46	73.22	482.67
Het	Chi	11.97	0.00	12.76
Het	df	6	0	7
Het	P	(*)	N.S.	(*)
Fixed	RR	1.04	0.93	1.02
	RRl	0.95	0.74	0.94
	RRu	1.15	1.17	1.12
	P	N.S.	N.S.	N.S.
Random	RR	1.02	0.93	1.01
	RRl	0.88	0.74	0.88
	RRu	1.19	1.17	1.15
	P	N.S.	N.S.	N.S.
Between	Chi			0.79
Between	df			1
Between	P			N.S.

Appendix Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma
Adjusted

Study adjusts for or is matched on race

Yes No Total

RR data

	N	3	5	8
	NS	3	5	8
	Wt	172.92	309.76	482.67
Het	Chi	2.56	9.10	12.76
Het	df	2	4	7
Het	P	N.S.	(*)	(*)
Fixed	RR	0.96	1.06	1.02
	RRl	0.83	0.95	0.94
	RRu	1.11	1.19	1.12
	P	N.S.	N.S.	N.S.
Random	RR	0.97	1.02	1.01
	RRl	0.81	0.84	0.88
	RRu	1.15	1.25	1.15
	P	N.S.	N.S.	N.S.
Between	Chi			1.10
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on location

	N	7	1	8
	NS	7	1	8
	Wt	471.34	11.34	482.67
Het	Chi	12.60	0.00	12.76
Het	df	6	0	7
Het	P	*	N.S.	(*)
Fixed	RR	1.02	1.15	1.02
	RRl	0.93	0.64	0.94
	RRu	1.12	2.06	1.12
	P	N.S.	N.S.	N.S.
Random	RR	1.00	1.15	1.01
	RRl	0.87	0.64	0.88
	RRu	1.15	2.06	1.15
	P	N.S.	N.S.	N.S.
Between	Chi			0.16
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on SES

	N	6	2	8
	NS	6	2	8
	Wt	433.35	49.33	482.67
Het	Chi	11.52	0.02	12.76
Het	df	5	1	7
Het	P	*	N.S.	(*)
Fixed	RR	1.01	1.19	1.02
	RRl	0.92	0.90	0.94
	RRu	1.11	1.57	1.12
	P	N.S.	N.S.	N.S.
Random	RR	0.97	1.19	1.01
	RRl	0.83	0.90	0.88
	RRu	1.14	1.57	1.15
	P	N.S.	N.S.	N.S.
Between	Chi			1.22
Between	df			1
Between	P			N.S.

Appendix Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma

Adjusted
Study adjusts for family medical history

Yes No Total

RR data

	N	6	2	8
	NS	6	2	8
	Wt	439.66	43.02	482.67
Het	Chi	8.96	1.34	12.76
Het	df	5	1	7
Het	P	N.S.	N.S.	(*)
Fixed	RR	1.05	0.81	1.02
	RRl	0.95	0.60	0.94
	RRu	1.15	1.10	1.12
	P	N.S.	N.S.	N.S.
Random	RR	1.04	0.82	1.01
	RRl	0.91	0.58	0.88
	RRu	1.19	1.16	1.15
	P	N.S.	N.S.	N.S.
Between	Chi			2.46
Between	df			1
Between	P			N.S.

Study adjusts for family composition

	N	4	4	8
	NS	4	4	8
	Wt	116.07	366.60	482.67
Het	Chi	2.41	6.46	12.76
Het	df	3	3	7
Het	P	N.S.	(*)	(*)
Fixed	RR	0.87	1.08	1.02
	RRl	0.73	0.97	0.94
	RRu	1.05	1.19	1.12
	P	N.S.	N.S.	N.S.
Random	RR	0.87	1.08	1.01
	RRl	0.73	0.92	0.88
	RRu	1.05	1.26	1.15
	P	N.S.	N.S.	N.S.
Between	Chi			3.90
Between	df			1
Between	P			*

Study adjusts for cooking, heating, air conditioning

	N	4	4	8
	NS	4	4	8
	Wt	390.33	92.35	482.67
Het	Chi	8.05	4.63	12.76
Het	df	3	3	7
Het	P	*	N.S.	(*)
Fixed	RR	1.03	1.00	1.02
	RRl	0.93	0.81	0.94
	RRu	1.14	1.22	1.12
	P	N.S.	N.S.	N.S.
Random	RR	1.01	0.99	1.01
	RRl	0.86	0.76	0.88
	RRu	1.20	1.28	1.15
	P	N.S.	N.S.	N.S.
Between	Chi			0.08
Between	df			1
Between	P			N.S.

Appendix Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma

Adjusted
Study adjusts for housing quality, crowding, damp, mould
Yes No Total

RR data

N	4	4	8
NS	4	4	8
Wt	339.95	142.72	482.67
Het Chi	6.03	4.83	12.76
Het df	3	3	7
Het P	N.S.	N.S.	(*)
Fixed RR	1.07	0.93	1.02
RRl	0.96	0.79	0.94
RRu	1.19	1.09	1.12
P	N.S.	N.S.	N.S.
Random RR	1.06	0.93	1.01
RRl	0.90	0.75	0.88
RRu	1.25	1.15	1.15
P	N.S.	N.S.	N.S.
Between Chi			1.90
Between df			1
Between P			N.S.

Study adjusts for pets, animal contact, farming

N		8	8
NS		8	8
Wt		482.67	482.67
Het Chi		12.76	12.76
Het df		7	7
Het P		(*)	(*)
Fixed RR		1.02	1.02
RRl		0.94	0.94
RRu		1.12	1.12
P		N.S.	N.S.
Random RR		1.01	1.01
RRl		0.88	0.88
RRu		1.15	1.15
P		N.S.	N.S.
Between Chi			
Between df			
Between P			N.S.

Study adjusts for child's medical history

N	2	6	8
NS	2	6	8
Wt	49.33	433.35	482.67
Het Chi	0.02	11.52	12.76
Het df	1	5	7
Het P	N.S.	*	(*)
Fixed RR	1.19	1.01	1.02
RRl	0.90	0.92	0.94
RRu	1.57	1.11	1.12
P	N.S.	N.S.	N.S.
Random RR	1.19	0.97	1.01
RRl	0.90	0.83	0.88
RRu	1.57	1.14	1.15
P	N.S.	N.S.	N.S.
Between Chi			1.22
Between df			1
Between P			N.S.

Appendix Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma
Adjusted

Study adjusts for in utero exposure

Yes No Total

RR data

N	4	4	8
NS	4	4	8
Wt	366.60	116.07	482.67
Het Chi	6.46	2.41	12.76
Het df	3	3	7
Het P	(*)	N.S.	(*)
Fixed RR	1.08	0.87	1.02
RRl	0.97	0.73	0.94
RRu	1.19	1.05	1.12
P	N.S.	N.S.	N.S.
Random RR	1.08	0.87	1.01
RRl	0.92	0.73	0.88
RRu	1.26	1.05	1.15
P	N.S.	N.S.	N.S.
Between Chi			3.90
Between df			1
Between P			*

Study adjusts for in life exposure

N	4	4	8
NS	4	4	8
Wt	366.60	116.07	482.67
Het Chi	6.46	2.41	12.76
Het df	3	3	7
Het P	(*)	N.S.	(*)
Fixed RR	1.08	0.87	1.02
RRl	0.97	0.73	0.94
RRu	1.19	1.05	1.12
P	N.S.	N.S.	N.S.
Random RR	1.08	0.87	1.01
RRl	0.92	0.73	0.88
RRu	1.26	1.05	1.15
P	N.S.	N.S.	N.S.
Between Chi			3.90
Between df			1
Between P			*

Exposed group : Who is smoker

	AnyHh	AnyPar	Mother	Father	Total
N	2		5	1	8
NS	2		5	1	8
Wt	111.21		353.17	18.30	482.67
Het Chi	1.63		11.11	0.00	12.76
Het df	1		4	0	7
Het P	N.S.		*	N.S.	(*)
Fixed RR	1.01		1.03	1.00	1.02
RRl	0.84		0.93	0.63	0.94
RRu	1.22		1.14	1.58	1.12
P	N.S.		N.S.	N.S.	N.S.
Random RR	1.03		0.99	1.00	1.01
RRl	0.81		0.81	0.63	0.88
RRu	1.32		1.20	1.58	1.15
P	N.S.		N.S.	N.S.	N.S.
Between Chi					0.02
Between df					2
Between P					N.S.

Appendix Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma
Adjusted

Exposed group : when Exposed
 Ex LifeNotC Total

RR data

N	6	2	8
NS	6	2	8
Wt	371.47	111.21	482.67
Het Chi	11.12	1.63	12.76
Het df	5	1	7
Het P	*	N.S.	(*)
Fixed RR	1.03	1.01	1.02
RRl	0.93	0.84	0.94
RRu	1.14	1.22	1.12
P	N.S.	N.S.	N.S.
Random RR	0.99	1.03	1.01
RRl	0.84	0.81	0.88
RRu	1.18	1.32	1.15
P	N.S.	N.S.	N.S.
Between Chi			0.01
Between df			1
Between P			N.S.

Unexposed group : who is smoker
 NoHhMemb NoParent NotSpPar Total

N	2	6	8
NS	2	6	8
Wt	111.21	371.47	482.67
Het Chi	1.63	11.12	12.76
Het df	1	5	7
Het P	N.S.	*	(*)
Fixed RR	1.01	1.03	1.02
RRl	0.84	0.93	0.94
RRu	1.22	1.14	1.12
P	N.S.	N.S.	N.S.
Random RR	1.03	0.99	1.01
RRl	0.81	0.84	0.88
RRu	1.32	1.18	1.15
P	N.S.	N.S.	N.S.
Between Chi			0.01
Between df			1
Between P			N.S.

Unexposed group : time
 non never non+othr NA Total

N	6	2	8
NS	6	2	8
Wt	371.47	111.21	482.67
Het Chi	11.12	1.63	12.76
Het df	5	1	7
Het P	*	N.S.	(*)
Fixed RR	1.03	1.01	1.02
RRl	0.93	0.84	0.94
RRu	1.14	1.22	1.12
P	N.S.	N.S.	N.S.
Random RR	0.99	1.03	1.01
RRl	0.84	0.81	0.88
RRu	1.18	1.32	1.15
P	N.S.	N.S.	N.S.
Between Chi			0.01
Between df			1
Between P			N.S.

Appendix Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent

		Current Asthma					Total	
		Adjusted						
		Number of adjustment variables						
		0	1	2	3-5	6-9	10+	
RR data	N		1			3	4	8
	NS		1			3	4	8
	Wt		11.34			81.01	390.33	482.67
	Het Chi		0.00			4.36	8.05	12.76
	Het df		0			2	3	7
	Het P		N.S.			N.S.	*	(*)
	Fixed RR		1.15			0.98	1.03	1.02
	RR1		0.64			0.79	0.93	0.94
	RRu		2.06			1.21	1.14	1.12
	P		N.S.			N.S.	N.S.	N.S.
	Random RR		1.15			0.96	1.01	1.01
	RR1		0.64			0.69	0.86	0.88
	RRu		2.06			1.33	1.20	1.15
	P		N.S.			N.S.	N.S.	N.S.
	Between Chi							0.35
	Between df							2
	Between P							N.S.

RR adjusted for sex

		Yes	No	Total
	N	7	1	8
	NS	7	1	8
	Wt	471.34	11.34	482.67
	Het Chi	12.60	0.00	12.76
	Het df	6	0	7
	Het P	*	N.S.	(*)
	Fixed RR	1.02	1.15	1.02
	RR1	0.93	0.64	0.94
	RRu	1.12	2.06	1.12
	P	N.S.	N.S.	N.S.
	Random RR	1.00	1.15	1.01
	RR1	0.87	0.64	0.88
	RRu	1.15	2.06	1.15
	P	N.S.	N.S.	N.S.
	Between Chi			0.16
	Between df			1
	Between P			N.S.

RR adjusted for age

		6	2	8
	N	6	2	8
	NS	6	2	8
	Wt	398.12	84.56	482.67
	Het Chi	11.85	0.44	12.76
	Het df	5	1	7
	Het P	*	N.S.	(*)
	Fixed RR	1.04	0.96	1.02
	RR1	0.94	0.77	0.94
	RRu	1.15	1.18	1.12
	P	N.S.	N.S.	N.S.
	Random RR	1.01	0.96	1.01
	RR1	0.86	0.77	0.88
	RRu	1.19	1.18	1.15
	P	N.S.	N.S.	N.S.
	Between Chi			0.47
	Between df			1
	Between P			N.S.

Appendix Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma
Adjusted

RR adjusted for other ETS
 Yes No Total

RR data

N	3	5	8
NS	3	5	8
Wt	328.62	154.06	482.67
Het Chi	5.96	5.31	12.76
Het df	2	4	7
Het P	(*)	N.S.	(*)
Fixed RR	1.06	0.94	1.02
RRl	0.95	0.81	0.94
RRu	1.18	1.11	1.12
P	N.S.	N.S.	N.S.
Random RR	1.06	0.95	1.01
RRl	0.87	0.78	0.88
RRu	1.28	1.15	1.15
P	N.S.	N.S.	N.S.
Between Chi			1.49
Between df			1
Between P			N.S.

RR adjusted for factor other than sex, age, other ETS

N	8	8
NS	8	8
Wt	482.67	482.67
Het Chi	12.76	12.76
Het df	7	7
Het P	(*)	(*)
Fixed RR	1.02	1.02
RRl	0.94	0.94
RRu	1.12	1.12
P	N.S.	N.S.
Random RR	1.01	1.01
RRl	0.88	0.88
RRu	1.15	1.15
P	N.S.	N.S.
Between Chi		
Between df		
Between P		N.S.

Derivation of RR/CI

	Original	Numbers	SumNumbs	Other	Total
N	6	1		1	8
NS	6	1		1	8
Wt	398.12	11.34		73.22	482.67
Het Chi	11.85	0.00		0.00	12.76
Het df	5	0		0	7
Het P	*	N.S.		N.S.	(*)
Fixed RR	1.04	1.15		0.93	1.02
RRl	0.94	0.64		0.74	0.94
RRu	1.15	2.06		1.17	1.12
P	N.S.	N.S.		N.S.	N.S.
Random RR	1.01	1.15		0.93	1.01
RRl	0.86	0.64		0.74	0.88
RRu	1.19	2.06		1.17	1.15
P	N.S.	N.S.		N.S.	N.S.
Between Chi					0.91
Between df					2
Between P					N.S.

Appendix Table A70 - 4

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
 Current Asthma
 Unadjusted

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXP-Time	UNEXTI
AGABI1	15	x	b	6	7	all	Eu:Ita	1994	1999	CC	0	Mother	NotMothr	Ex	never
AGABI2	15	x	b	13	14	all	Eu:Ita	1994	1999	CC	0	Mother	NotMothr	Ex	never
CHEN2	18	x	b	6	17	all	NAmer	1993	1996	CS	0	Mother	NotMothr	Ex	never
CUNNI1	17	x	b	8	11	all	NAmer	1988	1996	CS	9	AnyHh	NoHhMemb	LifeNotCur	othr
GILLIL	50	x	b	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	LifeNotCur	othr
GOLD	1		b	6	14	all	NAmer	1974	1993	Pr	11	Mother	NotMothr	Ex	never
HJERN1	1	x	b	3	15	all	Eu:Sca	1996	2001	CS	0	Mother	NotMothr	Ex	never
HJERN2	1	x	b	3	15	all	Eu:Sca	1996	2001	CS	0	Father	NotFathr	Ex	never

Appendix Table A70 - 5

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Cont	Case	Cont		
AGABI1	15	b	0	198	2759	375	6855	1.31	(1.10- 1.57)
AGABI2	15	b	0	221	2585	595	7581	1.09	(0.93- 1.28)
CHEN2	18	b	0	22	218	37	426	1.16	(0.67- 2.02)
CUNNI1	17	b	9	-	-	-	-	0.97	(0.78- 1.21)
GILLIL	50	b	0	85	828	298	3008	1.04	(0.80- 1.33)
GOLD	1	b	11	-	-	-	-	0.87	(0.68- 1.12)
HJERN1	1	b	0	30	726	58	1078	0.77	(0.49- 1.21)
HJERN2	1	b	0	32	668	34	884	1.25	(0.76- 2.04)
Partial Totals				588	7784	1397	19832		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	15	b	0	0.27	121.57	4.85	0.0028
AGABI2	15	b	0	0.09	148.71	0.03	0.2970
CHEN2	18	b	0	0.15	12.59	0.08	0.5944
CUNNI1	17	b	9	-0.03	79.70	0.83	0.7857
GILLIL	50	b	0	0.04	60.02	0.08	0.7828
GOLD	1	b	11	-0.14	61.71	2.75	0.2740
HJERN1	1	b	0	-0.26	18.91	2.13	0.2511
HJERN2	1	b	0	0.22	15.80	0.35	0.3828

RR data

	N	8
	NS	8
	Wt	519.03
	Het Chi	11.09
	Het df	7
	Het P	N.S.
Fixed	RR	1.07
	RRl	0.99
	RRu	1.17
	P	N.S.
Random	RR	1.06
	RRl	0.94
	RRu	1.19
	P	N.S.
Asymm	P	N.S.

Appendix Table A70 - 6

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
 Current Asthma
 Unadjusted

Start year of study
 <1970 1970-79 1980-89 1990+ unknown Total

RR data

	N	1	1	6	8
	NS	1	1	6	8
	Wt	61.71	79.70	377.61	519.03
Het	Chi	0.00	0.00	6.33	11.09
Het	df	0	0	5	7
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	0.87	0.97	1.14	1.07
	RRl	0.68	0.78	1.03	0.99
	RRu	1.12	1.21	1.26	1.17
	P	N.S.	N.S.	+	N.S.
Random	RR	0.87	0.97	1.13	1.06
	RRl	0.68	0.78	1.00	0.94
	RRu	1.12	1.21	1.27	1.19
	P	N.S.	N.S.	(+)	N.S.
Between	Chi				4.76
Between	df				2
Between	P				(*)

Study type
 CC Pr CS Total

	N	2	1	5	8
	NS	2	1	5	8
	Wt	270.29	61.71	187.03	519.03
Het	Chi	2.31	0.00	2.51	11.09
Het	df	1	0	4	7
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.18	0.87	1.00	1.07
	RRl	1.05	0.68	0.87	0.99
	RRu	1.33	1.12	1.15	1.17
	P	++	N.S.	N.S.	N.S.
Random	RR	1.19	0.87	1.00	1.06
	RRl	0.99	0.68	0.87	0.94
	RRu	1.43	1.12	1.15	1.19
	P	(+)	N.S.	N.S.	N.S.
Between	Chi				6.26
Between	df				2
Between	P				*

Appendix Table A70 - 7

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma
 Excluded studies (and stage at which they were excluded)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	BARRET	BECKET	BENER	BRABIN	BURCHF	BURR	BUTZ	CHEN1	CUNNI2
	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FLYNN1	FLYNN2	FORAST	GOREN1	GOREN2
	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	JENKIN	KAPLAN	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY
	KUEHR	KUHR	LEEDER	LEROUX	LIS	LISTER	MAIER	MARTIN	MCCON1	MCKEEV	MONTEF	MOYES1	MOYES2	MURRAY	NILSSO	NYSTAD
	OCONNE	ODDY	POKHAR	PONSON	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA	SHAMSS
	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STAZI	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
	WITHER	XU	ZEIGER	ZEJDA												
2	KARUNA															
3	ADDOYO	ARSHAD	AZIZI	BALL	BERGMA	CALL	CHHABR	CHINN	CLARK	CSONKA	DAIGLE	DEKKER	DEKOK	DIJKST	DOTTER	EHRLI1
	FAGBUL	FIELDE	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HOST	HU1	HU2	HUGHES	INFANT	JAAKKO	JONES	KALYO1
	KALYO2	KNIGHT	LAM1	LAM2	LAU	LEE1	LEE2	LEEN	LILLJE	LINDFO	LOPEZC	MCCON2	MELIA	MELSOM	MOHAME	MOUSSA
	MUMCUO	NHANE3	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC	RIBEIR	RONMAR	SARRAZ	SCHMIT	SELCUK	SHOHAT	SOMERV	SOTOQU
	STANHO	STERN1	STERN2	STODDA	STRACH	TARIQ	TOMINA	WANG	WEITZ1	WEITZ2	WILLE1	WILLE2	WOLFO1	WOLFO2	WOLFO3	YANG
	ZHENG															

Appendix Table A70 - 8

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL
HJERN1	HJERN1	1	HJERN1/HJERN2
HJERN2	HJERN2	1	HJERN1/HJERN2