

Appendix Table C1 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C1 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
AGUDOT	2	b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
ALBA	1	b	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALDAW0	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	-
ANNES2	4	b	13	14	all	Eu:wst	1993	2004	CS	2	TotETS	None	current	non	-
ANNESI	1	b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
ARIF	2	b	0	16	all	NAMer	2001	2004	CS	10	AnyHh	NoHhMemb	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	-
BENCIV	3	b	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	unspec	non	-
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	-
FREEM1	2	b	7	11	all	NAMer	1998	2003	CS	2	AnyHh	NoHhMemb	current	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	-
LEE3	5	b	6	15	all	As:FE	2001	2003	CS	0	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	-
MAIER	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	-
MCCON1	3	m	9	18	all	NAMer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	non	-
MCCON1	4	f	9	18	all	NAMer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	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	-
MONTEI	1	b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	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
NICOLA	1	b	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	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	-

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REF	NRR	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ODDY	1	b	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-
PIROGO	3	b	0	15	all	Eu:est	*	2004	CS	0	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	-
QIAN	1	b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never	-
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	-
RONMA2	1	b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non	-
RONMA3	2	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	-
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	-
SHAMS2	2	b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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	-
WARKE	1	b	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non	-
WICKMA	2	b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non	-
WIJGA	1	b	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WITHER	1	b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLF01	2	b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	2	b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	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 C1 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	1	b	0	68	70	34	32	0.91 (	0.51-	1.64)
ALDAW0	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)
ANNES2	4	b	2	904	-	699	-	1.10 (	0.90-	1.20)
ANNESI	1	b	0	164	1243	255	2491	1.29 (	1.05-	1.59)
ARIF	2	b	10	46	-	161	-	0.98 (	0.65-	1.47)
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)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
FREEEM1	2	b	2	-	-	-	-	2.10 (	1.72-	2.56)
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)
LEE3	5	b	0	1114	16604	1094	13428	0.82 (	0.76-	0.90)
*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)
*MCCON1	3	m	3	-	-	-	-	1.53 (	1.03-	2.26)
*MCCON1	4	f	3	-	-	-	-	0.84 (	0.59-	1.19)
Subtotal MCCON1								1.10 (	0.84-	1.42)
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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)

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REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
NICOLA 1		b	0	126	1043	192	1710	1.08 (	0.85-	1.36)
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)
PIROGO 3		b	0	13	82	4	37	1.47 (	0.45-	4.80)
POKHAR 2		b	5	27	-	13	-	3.33 (	1.85-	7.65)
*PONSON 8		b	6	185	-	88	-	1.03 (	0.83-	1.26)
QIAN 1		b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
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)
RONMA2 1		b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3 2		b	9	-	-	-	-	1.36 (	0.82-	2.25)
ROSASV 1		b	0	9	6	65	68	1.57 (	0.53-	4.66)
SELCHUK 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)
SHAMS2 2		b	0	-	-	-	-	0.99 (	0.81-	1.18)
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)
WARKE 1		b	0	55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA 2		b	8	64	-	251	-	1.65 (	1.21-	2.25)
WIJGA 1		b	17	-	-	-	-	0.83 (	0.59-	1.19)
WITHER 1		b	0	202	633	296	1107	1.19 (	0.97-	1.46)
WOLF01 2		b	7	-	-	-	-	1.12 (	0.63-	1.98)
WOLF02 2		b	7	-	-	-	-	1.35 (	0.75-	2.43)
WOLF03 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				12537	49612	13150	56209			
*prospective study										

Appendix Table C1 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.30	0.3979
ALBA	1	b	0	-0.09	11.15	0.81	0.7647
ALDAW0	2	m	0	0.76	8.40	2.84	0.0274
ALFRA1	2	b	0	0.41	22.65	1.23	0.0498
ANDRAE	2	b	3	-0.01	54.89	1.97	0.9406
ANNES2	4	b	2	0.10	185.67	1.31	0.1941
ANNESI	1	b	0	0.25	89.09	0.49	0.0166
ARIF	2	b	10	-0.02	23.07	0.92	0.9227
BARRET	1	b	0	0.52	5.17	0.60	0.2373
BECKET	6	b	7	0.27	67.46	0.56	0.0266
BENCIV	3	b	2	0.43	116.67	7.44	0.0000
BENER	1	b	0	0.24	19.32	0.08	0.2839
BRABIN	2	b	1	0.06	58.33	0.85	0.6563
BURCHF	5	m	1	0.22	32.51	0.04	0.2200
BURCHF	8	f	1	0.00	24.97	0.80	1.0000
Subtotal BURCHF				-0.14	57.49	0.84	
BUTZ	7	b	1	0.17	9.31	0.00	0.6135
CHEN1	1	b	0	0.25	11.14	0.05	0.4102
CHEN2	37	b	6	0.51	12.65	1.41	0.0681
DELL	2	b	0	0.42	18.30	1.05	0.0733
DODGE	12	b	1	0.41	7.12	0.36	0.2794
DOLD	21	b	1	0.10	113.12	0.80	0.3107
ECE	3	b	0	0.18	79.23	0.00	0.1041
EHRLI2	3	b	0	0.63	11.17	2.24	0.0363
FARBE2	2	b	3	0.41	57.72	3.13	0.0017
FAROOQ	1	b	0	0.25	72.93	0.41	0.0297
*FERGUS	7	b	0	0.04	37.52	0.74	0.8106
FLYNN1	1	b	0	0.23	47.28	0.13	0.1120
FORAST	20	b	9	0.25	37.10	0.17	0.1327
FREEEM	2	b	2	0.74	97.16	30.76	0.0000
GILLIL	4	m	4	-0.07	76.04	4.82	0.5268
GILLIL	12	f	4	0.05	58.89	1.00	0.7081
Subtotal GILLIL				-0.38	134.93	5.82	
GOLD	11	b	0	0.26	211.41	1.23	0.0002
GOREN1	3	b	0	0.07	27.97	0.33	0.7071
GOREN2	5	b	2	0.22	99.84	0.13	0.0316
GORTM1	3	b	7	0.40	36.85	1.78	0.0155
GORTM2	1	b	0	0.63	6.99	1.40	0.0978
GURKAN	1	b	0	0.63	11.10	2.21	0.0372
HAJNAL	1	b	13	0.18	63.05	0.00	0.1477
HU1	4	b	7	-0.22	12.73	2.06	0.4259
HU2	23	b	3	0.44	31.16	2.09	0.0144
JENKIN	5	b	7	0.23	116.41	0.31	0.0126
KAY	20	b	1	0.35	38.89	1.14	0.0288
KENDIR	1	b	0	0.34	99.03	2.67	0.0006
KERSHA	7	b	1	1.14	11.69	10.74	0.0001
KIVITY	4	b	0	0.59	13.44	2.24	0.0311
KUEHR	6	b	1	-0.39	19.88	6.34	0.0855
KUHR	4	b	0	0.70	5.57	1.50	0.0997
LAM1	8	b	4	-0.08	79.06	5.45	0.4585
LAM2	1	b	4	-0.09	53.37	3.99	0.4908
LEE3	5	b	0	-0.19	513.76	71.64	0.0000
*LEEDER	2	b	1	0.29	8.17	0.09	0.4149
LEROUX	2	b	10	0.58	14.02	2.28	0.0293
LIS	1	b	0	0.31	37.30	0.61	0.0604
LISTER	3	b	8	0.42	64.33	3.69	0.0008
MAIER	5	b	8	0.82	13.60	5.50	0.0026
*MARTIN	5	m	1	0.56	11.93	1.73	0.0533
*MARTIN	6	f	1	0.68	5.55	1.41	0.1075
Subtotal MARTIN				0.88	17.48	3.14	
*MCCON1	3	m	3	0.43	24.88	1.51	0.0339
*MCCON1	4	f	3	-0.17	31.22	3.90	0.3300
Subtotal MCCON1				-0.11	56.10	5.41	
MCCON2	2	b	0	-0.58	1.65	0.96	0.4523
*MCKEEV	4	b	0	0.27	1119.12	9.39	0.0000
MONTEI	1	b	0	0.22	56.12	0.11	0.0946
MOYES1	1	b	0	0.06	120.55	1.84	0.5411
MOYES2	1	b	0	-0.06	115.09	6.46	0.5355
MURRAY	5	m	1	0.34	14.28	0.39	0.1941

Appendix Table C1 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
MURRAY	7	f	1	0.27	8.50	0.07	0.4311
Subtotal	MURRAY			0.26	22.78	0.46	
NHANE3	28	b	6	0.15	22.48	0.02	0.4816
NICOLA	1	b	0	0.07	68.08	0.77	0.5460
NILSSO	1	b	0	0.00	31.98	1.03	1.0000
OCONE	1	b	0	0.25	33.98	0.19	0.1384
*ODDY	1	b	4	0.24	96.50	0.34	0.0189
PIROGO	3	b	0	0.38	2.73	0.11	0.5269
POKHAR	2	b	5	1.20	7.63	7.99	0.0009
*PONSON	8	b	6	0.03	88.18	1.98	0.7813
QIAN	1	b	7	0.75	3.96	1.28	0.1372
RASANE	3	b	3	0.46	27.24	2.20	0.0155
RATAGE	1	b	0	0.07	10.00	0.13	0.8330
RENNIE	1	b	6	0.02	13.41	0.34	0.9422
RONCH1	7	b	2	0.34	39.05	0.97	0.0355
RONCH2	3	b	0	0.29	31.60	0.38	0.1048
RONCH3	3	b	0	-0.02	24.61	0.97	0.9224
RONMA2	1	b	7	0.36	43.54	1.39	0.0183
*RONMA3	2	b	9	0.31	15.08	0.25	0.2324
ROSASV	1	b	0	0.45	3.25	0.24	0.4168
SELCUK	2	b	6	0.30	112.79	1.65	0.0014
SENNHA	1	b	0	0.23	58.71	0.13	0.0833
SHAMS2	2	b	0	-0.01	108.55	3.89	0.9166
SHAMSS	2	b	0	0.33	79.17	1.78	0.0034
*SHERMA	2	b	2	0.17	19.90	0.00	0.4603
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOYSET	14	b	5	1.03	6.43	4.65	0.0090
SQUILL	1	b	0	0.10	18.67	0.11	0.6613
STANHO	2	b	0	-0.92	4.90	5.89	0.0423
*TAYLOR	4	b	0	-0.04	72.55	3.51	0.7281
TIMONE	1	b	0	-0.58	9.03	5.22	0.0808
TSIMOY	1	b	0	0.04	2.59	0.05	0.9464
VARELA	1	b	0	1.09	2.80	2.31	0.0687
VAVILI	1	b	0	-0.50	11.30	5.17	0.0945
VENNER	6	m	0	0.09	27.66	0.20	0.6182
VENNER	3	f	0	0.18	28.98	0.00	0.3399
Subtotal	VENNER			-0.09	56.63	0.20	
VERHOE	3	b	0	-0.25	17.31	3.20	0.2972
VONMAF	1	b	0	0.23	78.55	0.20	0.0417
WARKE	1	b	0	-0.12	12.07	1.05	0.6860
*WICKMA	2	b	8	0.50	39.93	4.13	0.0016
WIJGA	1	b	17	-0.19	31.22	4.17	0.2978
WITHER	1	b	0	0.18	92.49	0.00	0.0890
WOLFO1	2	b	7	0.11	11.72	0.05	0.6981
WOLFO2	2	b	7	0.30	11.12	0.16	0.3170
WOLFO3	2	b	10	0.33	24.30	0.55	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.01	0.4914

RR data

	N	110
	NS	104
	Wt	6026.92
Het	Chi	293.19
Het	df	109
Het	P	***
Fixed	RR	1.20
	RRl	1.17
	RRu	1.23
	P	+++
Random	RR	1.23
	RRl	1.17
	RRu	1.29
	P	+++
Asymm	P	(*)

Appendix Table C1 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

RR data

[illegible]

Appendix Table C1 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

		Lifetime Asthma Adjusted							
		UK	Italy	Country in Europe		Scand	othWest	East/Bal	Total
RR data	N	12	6	7	9	8	7	49	
	NS	12	6	7	9	8	7	49	
	Wt	1763.04	254.21	253.78	231.38	383.85	353.48	3239.73	
	Het Chi	27.93	4.72	8.45	20.12	10.16	9.38	94.04	
	Het df	11	5	6	8	7	6	48	
	Het P	**	N.S.	N.S.	**	N.S.	N.S.	***	
	Fixed RR	1.26	1.39	1.10	1.26	1.11	1.31	1.25	
	RRl	1.21	1.23	0.97	1.11	1.01	1.18	1.20	
	RRu	1.33	1.57	1.25	1.44	1.23	1.46	1.29	
	P	+++	+++	N.S.	+++	+	+++	+++	
Random RR	1.23	1.39	1.11	1.27	1.11	1.30	1.22		
RRl	1.10	1.23	0.94	1.02	0.96	1.12	1.15		
RRu	1.36	1.57	1.31	1.59	1.28	1.50	1.30		
P	+++	+++	N.S.	+	N.S.	+++	+++		
Between Chi								13.27	
Between df								5	
Between P								*	
		Country in Asia							
		FarEast	Cent/SE	MidlEast	Total				
	N	7	2	6	15				
	NS	6	2	6	14				
	Wt	717.92	17.62	191.63	927.16				
	Het Chi	11.09	5.59	5.26	53.37				
	Het df	6	1	5	14				
	Het P	(*)	*	N.S.	***				
	Fixed RR	0.87	1.75	1.31	0.96				
	RRl	0.81	1.10	1.14	0.90				
	RRu	0.94	2.79	1.51	1.03				
	P	---	+	+++	N.S.				
Random RR	0.96	1.86	1.32	1.21					
RRl	0.83	0.61	1.13	1.02					
RRu	1.12	5.67	1.53	1.43					
P	N.S.	N.S.	+++	+					
Between Chi				31.44					
Between df				2					
Between P				***					
		Start year of study							
		<1970	1970-79	1980-89	1990+	unknown	Total		
	N	5	13	27	51	14	110		
	NS	4	12	26	48	14	104		
	Wt	216.04	542.54	847.15	2739.32	1681.86	6026.92		
	Het Chi	1.27	17.62	36.39	187.77	39.16	293.19		
	Het df	4	12	26	50	13	109		
	Het P	N.S.	N.S.	(*)	***	***	***		
	Fixed RR	1.23	1.24	1.27	1.14	1.23	1.20		
	RRl	1.08	1.14	1.19	1.10	1.17	1.17		
	RRu	1.41	1.35	1.36	1.19	1.29	1.23		
	P	++	+++	+++	+++	+++	+++		
Random RR	1.23	1.23	1.31	1.22	1.13	1.23			
RRl	1.08	1.09	1.20	1.12	0.99	1.17			
RRu	1.41	1.39	1.43	1.32	1.29	1.29			
P	++	+++	+++	+++	(+)	+++			
Between Chi							11.00		
Between df							4		
Between P							*		

Appendix Table C1 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

					Lifetime Asthma Adjusted	
		Publication year				
		<1990	1990-94	1995-99	2000+	Total
	N	16	18	33	43	110
	NS	15	16	33	40	104
	Wt	375.49	788.41	1591.08	3271.94	6026.92
Het	Chi	28.16	21.31	58.82	182.13	293.19
Het	df	15	17	32	42	109
Het	P	*	N.S.	**	***	***
Fixed	RR	1.14	1.22	1.23	1.18	1.20
	RRl	1.03	1.14	1.17	1.14	1.17
	RRu	1.27	1.31	1.29	1.22	1.23
	P	++	+++	+++	+++	+++
Random	RR	1.18	1.22	1.24	1.24	1.23
	RRl	1.01	1.12	1.15	1.13	1.17
	RRu	1.38	1.33	1.33	1.35	1.29
	P	+	+++	+++	+++	+++
Between	Chi					2.77
Between	df					3
Between	P					N.S.
		Study type				
		CC	Pr	CS	Total	
	N	13	19	78	110	
	NS	13	17	74	104	
	Wt	168.63	1865.07	3993.22	6026.92	
Het	Chi	33.70	30.78	218.98	293.19	
Het	df	12	18	77	109	
Het	P	***	*	***	***	
Fixed	RR	1.25	1.27	1.16	1.20	
	RRl	1.08	1.21	1.13	1.17	
	RRu	1.46	1.33	1.20	1.23	
	P	++	+++	+++	+++	
Random	RR	1.29	1.22	1.23	1.23	
	RRl	1.00	1.12	1.16	1.17	
	RRu	1.68	1.33	1.30	1.29	
	P	(+)	+++	+++	+++	
Between	Chi				9.73	
Between	df				2	
Between	P				**	
		Highest age in RR				Total
		0-9	10-14	15+	unknown	
	N	23	42	44	1	110
	NS	23	41	39	1	104
	Wt	900.52	3012.08	2105.01	9.31	6026.92
Het	Chi	46.29	101.46	127.80	0.00	293.19
Het	df	22	41	43	0	109
Het	P	**	***	***	N.S.	***
Fixed	RR	1.25	1.24	1.11	1.18	1.20
	RRl	1.17	1.20	1.06	0.62	1.17
	RRu	1.33	1.29	1.16	2.24	1.23
	P	+++	+++	+++	N.S.	+++
Random	RR	1.28	1.21	1.23	1.18	1.23
	RRl	1.15	1.13	1.13	0.62	1.17
	RRu	1.42	1.30	1.34	2.24	1.29
	P	+++	+++	+++	N.S.	+++
Between	Chi					17.64
Between	df					3
Between	P					**

Appendix Table C1 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

		Lifetime Asthma Adjusted					
		general	Population setting			other	Total
			school	medical	allergy		
RR data							
N		24	56	22	3	5	110
NS		22	54	21	2	5	104
Wt		784.93	3256.19	1776.08	67.01	142.71	6026.92
Het	Chi	32.16	209.64	26.13	0.15	8.04	293.19
Het	df	23	55	21	2	4	109
Het	P	(*)	***	N.S.	N.S.	(*)	***
Fixed	RR	1.22	1.15	1.29	1.16	1.07	1.20
	RRl	1.14	1.11	1.23	0.91	0.91	1.17
	RRu	1.31	1.19	1.35	1.47	1.26	1.23
	P	+++	+++	+++	N.S.	N.S.	+++
Random	RR	1.25	1.22	1.27	1.16	1.06	1.23
	RRl	1.14	1.13	1.18	0.91	0.79	1.17
	RRu	1.36	1.32	1.37	1.47	1.41	1.29
	P	+++	+++	+++	N.S.	N.S.	+++
Between	Chi						17.08
Between	df						4
Between	P						**
		Respondent for ETS exposure					
		child	parent	med rec	mix/oth	Total	
N		10	72	3	25	110	
NS		10	71	3	20	104	
Wt		596.86	3215.83	1226.03	988.19	6026.92	
Het	Chi	22.08	182.96	0.03	58.46	293.19	
Het	df	9	71	2	24	109	
Het	P	**	***	N.S.	***	***	
Fixed	RR	1.03	1.17	1.31	1.27	1.20	
	RRl	0.95	1.13	1.24	1.20	1.17	
	RRu	1.11	1.21	1.38	1.35	1.23	
	P	N.S.	+++	+++	+++	+++	
Random	RR	1.05	1.24	1.31	1.26	1.23	
	RRl	0.90	1.17	1.24	1.13	1.17	
	RRu	1.22	1.32	1.38	1.41	1.29	
	P	N.S.	+++	+++	+++	+++	
Between	Chi					29.65	
Between	df					3	
Between	P					***	
		Child smokers					
		exc/none	included	ignored	Total		
N		22	9	79	110		
NS		17	8	79	104		
Wt		751.29	463.68	4811.95	6026.92		
Het	Chi	26.46	12.99	246.33	293.19		
Het	df	21	8	78	109		
Het	P	N.S.	N.S.	***	***		
Fixed	RR	1.10	1.26	1.21	1.20		
	RRl	1.02	1.15	1.17	1.17		
	RRu	1.18	1.38	1.24	1.23		
	P	+	+++	+++	+++		
Random	RR	1.12	1.26	1.25	1.23		
	RRl	1.02	1.10	1.17	1.17		
	RRu	1.22	1.44	1.32	1.29		
	P	+	+++	+++	+++		
Between	Chi				7.40		
Between	df				2		
Between	P				*		

Appendix Table C1 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Lifetime Asthma

Adjusted

Physician diagnosis (lifetime)

yes no/mixed Total

RR data

	N	64	46	110		
	NS	60	44	104		
	Wt	4103.01	1923.90	6026.92		
Het	Chi	211.07	79.23	293.19		
Het	df	63	45	109		
Het	P	***	**	***		
Fixed	RR	1.18	1.24	1.20		
	RRl	1.14	1.18	1.17		
	RRu	1.22	1.29	1.23		
	P	+++	+++	+++		
Random	RR	1.21	1.25	1.23		
	RRl	1.13	1.17	1.17		
	RRu	1.30	1.34	1.29		
	P	+++	+++	+++		
Between	Chi			2.88		
Between	df			1		
Between	P			(*)		
	Respondent for diagnosis (lifetime)					
	medrec	parent	child	mixed	Total	
	N	12	70	15	13	110
	NS	11	67	14	12	104
	Wt	1375.96	3395.00	728.83	527.13	6026.92
Het	Chi	13.88	173.37	33.18	37.99	293.19
Het	df	11	69	14	12	109
Het	P	N.S.	***	**	***	***
Fixed	RR	1.30	1.17	1.04	1.38	1.20
	RRl	1.23	1.13	0.97	1.26	1.17
	RRu	1.37	1.21	1.12	1.50	1.23
	P	+++	+++	N.S.	+++	+++
Random	RR	1.27	1.24	1.07	1.32	1.23
	RRl	1.14	1.17	0.94	1.10	1.17
	RRu	1.41	1.32	1.22	1.59	1.29
	P	+++	+++	N.S.	++	+++
Between	Chi					34.77
Between	df					3
Between	P					***
	Questionnaire for symptoms					
	ISAAC	ATS	other	Total		
	N	22	12	76	110	
	NS	22	11	71	104	
	Wt	1785.40	495.76	3745.76	6026.92	
Het	Chi	75.42	6.16	155.95	293.19	
Het	df	21	11	75	109	
Het	P	***	N.S.	***	***	
Fixed	RR	1.03	1.25	1.28	1.20	
	RRl	0.99	1.15	1.24	1.17	
	RRu	1.08	1.37	1.32	1.23	
	P	N.S.	+++	+++	+++	
Random	RR	1.14	1.25	1.26	1.23	
	RRl	1.03	1.15	1.19	1.17	
	RRu	1.26	1.37	1.34	1.29	
	P	+	+++	+++	+++	
Between	Chi				55.66	
Between	df				2	
Between	P				***	

Appendix Table C1 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma
 Adjusted

Analysis type
 prevlnce onset Total

RR data

	N	95	15	110			
	NS	91	13	104			
	Wt	4442.74	1584.17	6026.92			
Het	Chi	262.30	23.64	293.19			
Het	df	94	14	109			
Het	P	***	(*)	***			
Fixed	RR	1.17	1.27	1.20			
	RRl	1.14	1.21	1.17			
	RRu	1.21	1.33	1.23			
	P	+++	+++	+++			
Random	RR	1.23	1.22	1.23			
	RRl	1.16	1.10	1.17			
	RRu	1.30	1.35	1.29			
	P	+++	+++	+++			
Between	Chi			7.25			
Between	df			1			
Between	P			**			
	Number of cases (lifetime asthma)						
		1-50	51-100	101-200	201+	unknown	Total
	N	13	16	27	52	2	110
	NS	13	15	27	47	2	104
	Wt	64.74	186.67	578.43	5157.06	40.01	6026.92
Het	Chi	18.56	23.80	49.47	191.17	0.11	293.19
Het	df	12	15	26	51	1	109
Het	P	(*)	(*)	**	***	N.S.	***
Fixed	RR	1.53	1.41	1.20	1.18	1.38	1.20
	RRl	1.20	1.22	1.10	1.15	1.01	1.17
	RRu	1.95	1.62	1.30	1.22	1.88	1.23
	P	+++	+++	+++	+++	+	+++
Random	RR	1.50	1.42	1.20	1.20	1.38	1.23
	RRl	1.10	1.18	1.06	1.13	1.01	1.17
	RRu	2.06	1.71	1.34	1.27	1.88	1.29
	P	+	+++	++	+++	+	+++
Between	Chi						10.08
Between	df						4
Between	P						*
	Study adjusts for or is matched on sex						
		Yes	No	Total			
	N	49	61	110			
	NS	46	58	104			
	Wt	2088.43	3938.48	6026.92			
Het	Chi	90.50	200.36	293.19			
Het	df	48	60	109			
Het	P	***	***	***			
Fixed	RR	1.23	1.18	1.20			
	RRl	1.18	1.14	1.17			
	RRu	1.28	1.22	1.23			
	P	+++	+++	+++			
Random	RR	1.25	1.21	1.23			
	RRl	1.17	1.13	1.17			
	RRu	1.33	1.30	1.29			
	P	+++	+++	+++			
Between	Chi			2.33			
Between	df			1			
Between	P			N.S.			

Appendix Table C1 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Lifetime Asthma

Adjusted

Study adjusts for or is matched on age

Yes No Total

RR data

N	28	82	110
NS	25	79	104
Wt	1256.07	4770.84	6026.92
Het Chi	49.01	243.85	293.19
Het df	27	81	109
Het P	**	***	***
Fixed RR	1.18	1.20	1.20
RRl	1.12	1.17	1.17
RRu	1.25	1.24	1.23
P	+++	+++	+++
Random RR	1.19	1.24	1.23
RRl	1.09	1.17	1.17
RRu	1.30	1.32	1.29
P	+++	+++	+++
Between Chi			0.32
Between df			1
Between P			N.S.

Study adjusts for or is matched on race

N	16	94	110
NS	14	90	104
Wt	676.41	5350.50	6026.92
Het Chi	32.71	259.17	293.19
Het df	15	93	109
Het P	**	***	***
Fixed RR	1.25	1.19	1.20
RRl	1.16	1.16	1.17
RRu	1.34	1.22	1.23
P	+++	+++	+++
Random RR	1.27	1.22	1.23
RRl	1.12	1.16	1.17
RRu	1.44	1.29	1.29
P	+++	+++	+++
Between Chi			1.31
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	22	88	110
NS	20	84	104
Wt	1213.01	4813.91	6026.92
Het Chi	37.01	255.34	293.19
Het df	21	87	109
Het P	*	***	***
Fixed RR	1.17	1.20	1.20
RRl	1.10	1.17	1.17
RRu	1.24	1.24	1.23
P	+++	+++	+++
Random RR	1.16	1.25	1.23
RRl	1.07	1.18	1.17
RRu	1.25	1.33	1.29
P	+++	+++	+++
Between Chi			0.84
Between df			1
Between P			N.S.

Appendix Table C1 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Lifetime Asthma

Adjusted

Study adjusts for or is matched on SES

Yes No Total

RR data

	N	30	80	110
	NS	29	75	104
	Wt	1174.99	4851.92	6026.92
Het	Chi	59.83	232.96	293.19
Het	df	29	79	109
Het	P	***	***	***
Fixed	RR	1.22	1.19	1.20
	RRl	1.15	1.16	1.17
	RRu	1.29	1.23	1.23
	P	+++	+++	+++
Random	RR	1.25	1.22	1.23
	RRl	1.14	1.15	1.17
	RRu	1.37	1.29	1.29
	P	+++	+++	+++
Between	Chi			0.40
Between	df			1
Between	P			N.S.

Study adjusts for family medical history

	N	38	72	110
	NS	36	68	104
	Wt	1746.10	4280.82	6026.92
Het	Chi	57.40	233.49	293.19
Het	df	37	71	109
Het	P	*	***	***
Fixed	RR	1.23	1.18	1.20
	RRl	1.18	1.15	1.17
	RRu	1.29	1.22	1.23
	P	+++	+++	+++
Random	RR	1.25	1.20	1.23
	RRl	1.17	1.13	1.17
	RRu	1.33	1.29	1.29
	P	+++	+++	+++
Between	Chi			2.30
Between	df			1
Between	P			N.S.

Study adjusts for family composition

	N	19	91	110
	NS	19	85	104
	Wt	847.03	5179.89	6026.92
Het	Chi	21.01	270.26	293.19
Het	df	18	90	109
Het	P	N.S.	***	***
Fixed	RR	1.25	1.19	1.20
	RRl	1.17	1.16	1.17
	RRu	1.34	1.22	1.23
	P	+++	+++	+++
Random	RR	1.25	1.22	1.23
	RRl	1.16	1.16	1.17
	RRu	1.35	1.29	1.29
	P	+++	+++	+++
Between	Chi			1.92
Between	df			1
Between	P			N.S.

Appendix Table C1 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Lifetime Asthma

Adjusted

Study adjusts for cooking, heating, air conditioning

Yes No Total

RR data

	N	14	96	110
	NS	14	90	104
	Wt	740.31	5286.60	6026.92
Het	Chi	21.79	263.63	293.19
Het	df	13	95	109
Het	P	(*)	***	***
Fixed	RR	1.32	1.18	1.20
	RRl	1.23	1.15	1.17
	RRu	1.42	1.21	1.23
	P	+++	+++	+++
Random	RR	1.34	1.21	1.23
	RRl	1.21	1.15	1.17
	RRu	1.50	1.28	1.29
	P	+++	+++	+++
Between	Chi			7.77
Between	df			1
Between	P			**

Study adjusts for housing quality, crowding, damp, mould

	N	18	92	110
	NS	18	86	104
	Wt	652.14	5374.78	6026.92
Het	Chi	46.06	233.21	293.19
Het	df	17	91	109
Het	P	***	***	***
Fixed	RR	1.37	1.18	1.20
	RRl	1.27	1.15	1.17
	RRu	1.48	1.21	1.23
	P	+++	+++	+++
Random	RR	1.37	1.20	1.23
	RRl	1.20	1.14	1.17
	RRu	1.57	1.26	1.29
	P	+++	+++	+++
Between	Chi			13.92
Between	df			1
Between	P			***

Study adjusts for pets, animal contact, farming

	N	15	95	110
	NS	14	90	104
	Wt	553.09	5473.83	6026.92
Het	Chi	36.63	240.85	293.19
Het	df	14	94	109
Het	P	***	***	***
Fixed	RR	1.40	1.18	1.20
	RRl	1.29	1.15	1.17
	RRu	1.53	1.21	1.23
	P	+++	+++	+++
Random	RR	1.36	1.21	1.23
	RRl	1.17	1.15	1.17
	RRu	1.57	1.27	1.29
	P	+++	+++	+++
Between	Chi			15.70
Between	df			1
Between	P			***

Appendix Table C1 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

		Lifetime Asthma		
		Adjusted		
		Study adjusts for child's medical history		
		Yes	No	Total
RR data	N	36	74	110
	NS	32	72	104
	Wt	1404.21	4622.71	6026.92
	Het Chi	66.94	225.84	293.19
	Het df	35	73	109
	Het P	***	***	***
	Fixed RR	1.21	1.19	1.20
	RRl	1.15	1.16	1.17
	RRu	1.28	1.23	1.23
	P	+++	+++	+++
	Random RR	1.24	1.22	1.23
	RRl	1.15	1.14	1.17
	RRu	1.35	1.30	1.29
	P	+++	+++	+++
	Between Chi			0.41
	Between df			1
	Between P			N.S.

Study adjusts for in utero exposure

	N	5	105	110
	NS	4	100	104
	Wt	176.57	5850.35	6026.92
	Het Chi	8.37	280.51	293.19
	Het df	4	104	109
	Het P	(*)	***	***
Fixed	RR	1.03	1.20	1.20
	RRl	0.88	1.17	1.17
	RRu	1.19	1.23	1.23
	P	N.S.	+++	+++
Random	RR	1.07	1.24	1.23
	RRl	0.84	1.18	1.17
	RRu	1.37	1.30	1.29
	P	N.S.	+++	+++
Between	Chi			4.31
Between	df			1
Between	P			*

Study adjusts for in life exposure

	N	18	92	110
	NS	17	87	104
	Wt	987.13	5039.78	6026.92
	Het Chi	30.39	261.70	293.19
	Het df	17	91	109
	Het P	*	***	***
Fixed	RR	1.23	1.19	1.20
	RRl	1.16	1.16	1.17
	RRu	1.31	1.22	1.23
	P	+++	+++	+++
Random	RR	1.23	1.23	1.23
	RRl	1.13	1.16	1.17
	RRu	1.35	1.30	1.29
	P	+++	+++	+++
Between	Chi			1.09
Between	df			1
Between	P			N.S.

Appendix Table C1 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Lifetime Asthma
Adjusted
Exposed group : Source/who is smoker

	Biochem	TotETS	AnyHh	AnyPar	Mother	Father	Total
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RR data

N	2	5	47	21	32	3	110
NS	2	5	45	20	30	2	104
Wt	33.65	222.27	2643.45	586.76	2480.20	60.59	6026.92
Het Chi	1.71	9.04	164.78	18.62	55.65	1.47	293.19
Het df	1	4	46	20	31	2	109
Het P	N.S.	(*)	***	N.S.	**	N.S.	***
Fixed RR	1.36	1.18	1.09	1.21	1.31	1.19	1.20
RRl	0.97	1.04	1.05	1.12	1.26	0.93	1.17
RRu	1.91	1.35	1.14	1.31	1.36	1.54	1.23
P	(+)	+	+++	+++	+++	N.S.	+++
Random RR	1.41	1.42	1.16	1.21	1.32	1.19	1.23
RRl	0.89	1.00	1.07	1.12	1.23	0.93	1.17
RRu	2.23	2.00	1.26	1.31	1.42	1.54	1.29
P	N.S.	+	+++	+++	+++	N.S.	+++
Between Chi							41.91
Between df							5
Between P							***

Exposed group : when Exposed

	lif/ev	age<7y	current	unspec	other	Total
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N	25	8	33	39	5	110
NS	23	7	32	38	4	104
Wt	1924.42	419.78	1381.54	2180.26	120.91	6026.92
Het Chi	38.28	31.40	66.90	121.20	9.30	293.19
Het df	24	7	32	38	4	109
Het P	*	***	***	***	(*)	***
Fixed RR	1.24	1.23	1.28	1.10	1.27	1.20
RRl	1.19	1.12	1.21	1.05	1.06	1.17
RRu	1.30	1.35	1.35	1.14	1.52	1.23
P	+++	+++	+++	+++	++	+++
Random RR	1.19	1.29	1.27	1.21	1.30	1.23
RRl	1.09	1.01	1.16	1.11	0.99	1.17
RRu	1.29	1.65	1.38	1.32	1.72	1.29
P	+++	+	+++	+++	(+)	+++
Between Chi						26.11
Between df						4
Between P						***

Unexposed group : who is smoker

	NoHhMemb	NoParent	NotSpPar	Total
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N	54	23	33	110
NS	52	21	31	104
Wt	2899.37	643.39	2484.16	6026.92
Het Chi	178.24	18.88	56.55	293.19
Het df	53	22	32	109
Het P	***	N.S.	**	***
Fixed RR	1.10	1.21	1.31	1.20
RRl	1.06	1.12	1.26	1.17
RRu	1.14	1.30	1.36	1.23
P	+++	+++	+++	+++
Random RR	1.18	1.21	1.33	1.23
RRl	1.09	1.12	1.24	1.17
RRu	1.28	1.30	1.42	1.29
P	+++	+++	+++	+++
Between Chi				39.52
Between df				2
Between P				***

Appendix Table C1 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

		Unexposed group : time			Lifetime Asthma Adjusted	
		non	never	non+othr	NA	Total
RR data						
	N	95	13		2	110
	NS	90	12		2	104
	Wt	4419.20	1574.06		33.65	6026.92
Het	Chi	266.29	10.41		1.71	293.19
Het	df	94	12		1	109
Het	P	***	N.S.		N.S.	***
Fixed	RR	1.16	1.30		1.36	1.20
	RRl	1.13	1.23		0.97	1.17
	RRu	1.20	1.36		1.91	1.23
	P	+++	+++		(+)	+++
Random	RR	1.22	1.30		1.41	1.23
	RRl	1.15	1.23		0.89	1.17
	RRu	1.29	1.36		2.23	1.29
	P	+++	+++		N.S.	+++
Between	Chi					14.78
Between	df					2
Between	P					***
		Number of adjustment variables				
		0	1	2	3-5	6-9
						10+
						Total
	N	53	14	6	14	18
	NS	52	11	6	12	18
	Wt	3617.64	364.24	558.28	607.74	723.35
	Wt	3617.64	364.24	558.28	607.74	723.35
Het	Chi	146.38	24.77	29.71	42.04	20.16
Het	df	52	13	5	13	17
Het	P	***	*	***	***	N.S.
Fixed	RR	1.16	1.19	1.38	1.14	1.32
	RRl	1.12	1.08	1.27	1.05	1.22
	RRu	1.20	1.32	1.49	1.24	1.42
	P	+++	+++	+++	++	+++
	P	+++	+++	+++	++	+++
Random	RR	1.17	1.26	1.40	1.22	1.32
	RRl	1.09	1.07	1.13	1.05	1.22
	RRu	1.26	1.48	1.74	1.43	1.44
	P	+++	++	++	+	+++
	P	+++	++	++	+	+++
Between	Chi					
Between	df					
Between	P					
						22.49
						5

		RR adjusted for sex				
		Yes	No	Total		
	N	32	78	110		
	NS	32	72	104		
	Wt	1460.74	4566.18	6026.92		
Het	Chi	59.61	229.38	293.19		
Het	df	31	77	109		
Het	P	**	***	***		
Fixed	RR	1.25	1.18	1.20		
	RRl	1.19	1.14	1.17		
	RRu	1.32	1.21	1.23		
	P	+++	+++	+++		
Random	RR	1.27	1.21	1.23		
	RRl	1.18	1.14	1.17		
	RRu	1.38	1.28	1.29		
	P	+++	+++	+++		
Between	Chi			4.19		
Between	df			1		
Between	P			*		

Appendix Table C1 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma
 Adjusted

RR adjusted for age
 Yes No Total

RR data

	N	25	85	110
	NS	22	82	104
	Wt	1025.88	5001.03	6026.92
Het	Chi	37.77	253.65	293.19
Het	df	24	84	109
Het	P	*	***	***
Fixed	RR	1.15	1.21	1.20
	RRl	1.08	1.17	1.17
	RRu	1.22	1.24	1.23
	P	+++	+++	+++
Random	RR	1.17	1.24	1.23
	RRl	1.07	1.17	1.17
	RRu	1.27	1.32	1.29
	P	+++	+++	+++
Between	Chi			1.77
Between	df			1
Between	P			N.S.

RR adjusted for other ETS

	N	7	103	110
	NS	6	98	104
	Wt	257.98	5768.93	6026.92
Het	Chi	18.29	274.89	293.19
Het	df	6	102	109
Het	P	**	***	***
Fixed	RR	1.19	1.20	1.20
	RRl	1.05	1.17	1.17
	RRu	1.34	1.23	1.23
	P	++	+++	+++
Random	RR	1.24	1.23	1.23
	RRl	0.97	1.17	1.17
	RRu	1.58	1.29	1.29
	P	(+)	+++	+++
Between	Chi			0.02
Between	df			1
Between	P			N.S.

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

	N	52	58	110
	NS	48	56	104
	Wt	2143.51	3883.41	6026.92
Het	Chi	133.03	147.94	293.19
Het	df	51	57	109
Het	P	***	***	***
Fixed	RR	1.27	1.16	1.20
	RRl	1.22	1.12	1.17
	RRu	1.33	1.19	1.23
	P	+++	+++	+++
Random	RR	1.29	1.17	1.23
	RRl	1.20	1.10	1.17
	RRu	1.39	1.25	1.29
	P	+++	+++	+++
Between	Chi			12.22
Between	df			1
Between	P			***

Appendix Table C1 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

		Lifetime Asthma Adjusted			
		Original	Derivation of RR/CI		Total
			Numbers	SumNumbs	
RR data	N	41	35	14	20
	NS	40	33	13	18
		Wt	1948.41	1741.12	338.96
Fixed	Het Chi	96.10	101.72	17.33	45.74
	Het df	40	34	13	19
Fixed	Het P	***	***	N.S.	***
	RR	1.26	1.08	1.10	1.26
Fixed	RRl	1.21	1.03	0.99	1.21
	RRu	1.32	1.13	1.22	1.32
Random	P	+++	++	(+)	+++
	RR	1.28	1.24	1.09	1.21
Random	RRl	1.18	1.11	0.95	1.11
	RRu	1.38	1.37	1.25	1.33
Between	P	+++	+++	N.S.	+++
	Chi				32.30
Between	df				3
	P				***

Appendix Table C1 - 4

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Unadjusted

REF NRR X SEX AGE AGEH RACE	LOC BEGYR PUBYR STTYP ADJ EXP-who UNEXsource	EXPOS-time UNEXTI BIOMEA
AGUDOT 2 b 14 15 all Eu:wst 1997 2000 CS 4 Mother NotMothr ever never -		
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 -		
ANNES2 2 x b 13 14 all Eu:wst 1993 2004 CS 0 TotETS None current non -		
ANNESI 1 b 1 18 all Eu:UK 1991 2001 CS 0 AnyPar NoParent unspec non -		
ARIF 1 x b 0 16 all NAmer 2001 2004 CS 0 AnyHh NoHhMemb 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 -		
BENCIV 1 x b 8 14 all Eu:Ita 2001 2004 CS 0 Mother NotMothr unspec non -		
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 -		
EHRLI2 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 -		
FREEM1 1 x b 7 11 all NAmer 1998 2003 CS 0 AnyHh NoHhMemb current 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 -		
LEE3 5 b 6 15 all As:FE 2001 2003 CS 0 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 -		
MCCON1 3 m 9 18 all NAmer 1993 2002 Pr 3 AnyHh NoHhMemb 9-16y non -		
MCCON1 4 f 9 18 all NAmer 1993 2002 Pr 3 AnyHh NoHhMemb 9-16y 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 -		
MONTEI 1 b 6 7 all SCAMer 2002 2004 CS 0 AnyPar NoParent 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 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		
NICOLA 1 b 5 11 all Eu:Ger 1995 2003 CS 0 AnyHh NoHhMemb current non -		
NILSSO 1 b 13 14 all Eu:Sca * 1999 CS 0 AnyPar NoParent current non -		

Appendix Table C1 - 4

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma
 Unadjusted

REF	NRR	X	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
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	-
PIROGO	3		b	0	15	all	Eu:est	*	2004	CS	0	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	-
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never	-
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	-
RONCH3	3		b	6	14	all	Eu:Ita	1998	2001	CS	0	AnyHh	Low	current	non	-
RONMA2	1		b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non	-
RONMA3	1 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	-
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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	-
WARKE	1		b	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non	-
WICKMA	1 x		b	0	2	all	Eu:Sca	1994	2003	Pr	0	Mother	NotMothr	utero/2m	non	-
WIJGA	1		b	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WITHER	1		b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLF01	2		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	2		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	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 C1 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	1	b	0	68	70	34	32	0.91 (	0.51-	1.64)
ALDAW0	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)
ANNES2	2	b	0	904	6449	699	5172	1.04 (	0.93-	1.15)
ANNESI	1	b	0	164	1243	255	2491	1.29 (	1.05-	1.59)
ARIF	1	b	0	46	-	161	-	1.45 (	1.01-	2.08)
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)
BENCIV	1	b	0	290	1162	413	2535	1.53 (	1.30-	1.81)
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)
FREEM1	1	b	0	-	-	-	-	2.27 (	1.89-	2.74)
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)
LEE3	5	b	0	1114	16604	1094	13428	0.82 (	0.76-	0.90)
*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)
*MCCON1	3	m	3	-	-	-	-	1.53 (	1.03-	2.26)
*MCCON1	4	f	3	-	-	-	-	0.84 (	0.59-	1.19)
Subtotal MCCON1								1.10 (	0.84-	1.42)
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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)

Appendix Table C1 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
NICOLA	1	b	0	126	1043	192	1710	1.08 (	0.85-	1.36)
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)
PIROGO	3	b	0	13	82	4	37	1.47 (	0.45-	4.80)
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)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
RONMA2	1	b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3	1	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)
SHAMS2	2	b	0	-	-	-	-	0.99 (	0.81-	1.18)
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)
WARKE	1	b	0	55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA	1	b	0	64	480	251	3212	1.71 (	1.32-	2.21)
WIJGA	1	b	17	-	-	-	-	0.83 (	0.59-	1.19)
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				12816	89343	13578	108537			
*prospective study										

Appendix Table C1 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.29	0.3979
ALBA	1	b	0	-0.09	11.15	0.86	0.7647
ALDAW0	2	m	0	0.76	8.40	2.75	0.0274
ALFRA1	2	b	0	0.41	22.65	1.13	0.0498
ANDRAE	1	b	0	-0.12	57.05	5.41	0.3670
ANNES2	2	b	0	0.04	346.59	8.02	0.4967
ANNESI	1	b	0	0.25	89.09	0.38	0.0166
ARIF	1	b	0	0.37	29.44	0.99	0.0438
BARRET	1	b	0	0.52	5.17	0.57	0.2373
BECKET	5	b	0	0.39	84.17	3.35	0.0004
BENCIV	1	b	0	0.43	140.36	7.94	0.0000
BENER	1	b	0	0.24	19.32	0.06	0.2839
BRABIN	1	b	0	0.09	60.59	0.61	0.4910
BURCHF	5	m	1	0.22	32.51	0.02	0.2200
BURCHF	8	f	1	0.00	24.97	0.89	1.0000
Subtotal BURCHF				-0.16	57.49	0.91	
BUTZ	6	b	0	0.19	9.83	0.00	0.5487
CHEN1	1	b	0	0.25	11.14	0.04	0.4102
CHEN2	11	b	0	0.13	18.71	0.06	0.5742
DELL	2	b	0	0.42	18.30	0.97	0.0733
DODGE	9	b	0	0.48	7.26	0.60	0.2000
DOLD	17	b	0	0.14	114.83	0.25	0.1294
ECE	3	b	0	0.18	79.23	0.00	0.1041
EHRLI2	3	b	0	0.63	11.17	2.14	0.0363
FARBE2	1	b	0	0.39	49.72	1.98	0.0062
FAROOQ	1	b	0	0.25	72.93	0.32	0.0297
*FERGUS	7	b	0	0.04	37.52	0.84	0.8106
FLYNN1	1	b	0	0.23	47.28	0.09	0.1120
FORAST	7	b	0	0.31	36.81	0.58	0.0570
FREEEM	1	b	0	0.82	111.41	44.38	0.0000
GILLIL	59	m	0	-0.04	79.01	4.26	0.6979
GILLIL	68	f	0	0.22	63.42	0.05	0.0831
Subtotal GILLIL				-0.20	142.43	4.32	
GOLD	11	b	0	0.26	211.41	0.95	0.0002
GOREN1	3	b	0	0.07	27.97	0.39	0.7071
GOREN2	2	b	0	0.18	124.95	0.00	0.0411
GORTM1	1	b	0	0.46	43.97	3.31	0.0021
GORTM2	1	b	0	0.63	6.99	1.34	0.0978
GURKAN	1	b	0	0.63	11.10	2.12	0.0372
HAJNAL	1	b	13	0.18	63.05	0.00	0.1477
HU1	2	b	0	0.20	19.79	0.00	0.3785
HU2	21	b	0	0.84	29.22	12.51	0.0000
JENKIN	1	m	0	0.23	153.77	0.29	0.0040
JENKIN	3	f	0	0.37	112.42	3.77	0.0001
Subtotal JENKIN				0.23	266.19	4.06	
KAY	7	b	0	0.35	42.07	1.10	0.0231
KENDIR	1	b	0	0.34	99.03	2.38	0.0006
KERSHA	3	b	0	1.17	11.87	11.39	0.0001
KIVITY	4	b	0	0.59	13.44	2.14	0.0311
KUEHR	2	b	0	-0.34	20.93	5.93	0.1158
KUHR	4	b	0	0.70	5.57	1.44	0.0997
LAM1	4	b	0	-0.11	82.75	7.35	0.3195
LAM2	1	b	4	-0.09	53.37	4.27	0.4908
LEE3	5	b	0	-0.19	513.76	75.29	0.0000
*LEEDER	1	b	0	0.30	9.19	0.12	0.3569
LEROUX	1	b	0	0.26	21.30	0.11	0.2285
LIS	1	b	0	0.31	37.30	0.53	0.0604
LISTER	1	b	0	0.39	82.96	3.21	0.0004
MAIER	6	b	0	0.74	19.09	5.86	0.0012
*MARTIN	1	m	0	0.49	14.81	1.35	0.0593
*MARTIN	2	f	0	0.58	6.43	0.98	0.1422
Subtotal MARTIN				0.69	21.23	2.33	
*MCCON1	3	m	3	0.43	24.88	1.39	0.0339
*MCCON1	4	f	3	-0.17	31.22	4.11	0.3300
Subtotal MCCON1				-0.13	56.10	5.51	
MCCON2	2	b	0	-0.58	1.65	0.99	0.4523
*MCKEEV	4	b	0	0.27	1119.12	7.56	0.0000
MONTEI	1	b	0	0.22	56.12	0.07	0.0946
MOYES1	1	b	0	0.06	120.55	2.13	0.5411

Appendix Table C1 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
MOYES2	1	b	0	-0.06	115.09	6.99	0.5355
MURRAY	1	m	0	0.36	15.96	0.46	0.1513
MURRAY	3	f	0	0.27	9.66	0.07	0.3967
Subtotal	MURRAY			0.25	25.62	0.53	
NHANE3	37	b	0	0.05	110.40	2.00	0.5693
NICOLA	1	b	0	0.07	68.08	0.91	0.5460
NILSSO	1	b	0	0.00	31.98	1.14	1.0000
OCONNE	1	b	0	0.25	33.98	0.15	0.1384
*ODDY	1	b	4	0.24	96.50	0.25	0.0189
PIROGO	3	b	0	0.38	2.73	0.10	0.5269
POKHAR	1	b	0	0.98	6.07	3.82	0.0155
*PONSON	7	b	0	0.10	86.48	0.70	0.3581
QIAN	1	b	7	0.75	3.96	1.23	0.1372
RASANE	1	b	0	0.40	41.70	1.86	0.0099
RATAGE	1	b	0	0.07	10.00	0.15	0.8330
RENNIE	1	b	6	0.02	13.41	0.38	0.9422
RONCH1	3	m	0	0.48	14.32	1.19	0.0712
RONCH1	6	f	0	0.50	10.74	1.01	0.1042
Subtotal	RONCH1			0.60	25.06	2.20	
RONCH2	3	b	0	0.29	31.60	0.32	0.1048
RONCH3	3	b	0	-0.02	24.61	1.07	0.9224
RONMA2	1	b	7	0.36	43.54	1.24	0.0183
*RONMA3	1	b	0	0.11	20.00	0.11	0.6123
ROSASV	1	b	0	0.45	3.25	0.22	0.4168
SELCUK	1	b	0	0.34	129.52	3.08	0.0001
SENNHA	1	b	0	0.23	58.71	0.08	0.0833
SHAMS2	2	b	0	-0.01	108.55	4.28	0.9166
SHAMSS	2	b	0	0.33	79.17	1.57	0.0034
*SHERMA	2	b	2	0.17	19.90	0.01	0.4603
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOYSET	2	b	0	0.69	10.19	2.54	0.0282
SQUILL	1	b	0	0.10	18.67	0.14	0.6613
STANHO	2	b	0	-0.92	4.90	5.99	0.0423
*TAYLOR	4	b	0	-0.04	72.55	3.82	0.7281
TIMONE	1	b	0	-0.58	9.03	5.35	0.0808
TSIMOY	1	b	0	0.04	2.59	0.06	0.9464
VARELA	1	b	0	1.09	2.80	2.26	0.0687
VAVILI	1	b	0	-0.50	11.30	5.32	0.0945
VENNER	6	m	0	0.09	27.66	0.24	0.6182
VENNER	3	f	0	0.18	28.98	0.00	0.3399
Subtotal	VENNER			-0.11	56.63	0.25	
VERHOE	3	b	0	-0.25	17.31	3.34	0.2972
VONMAF	1	b	0	0.23	78.55	0.13	0.0417
WARKE	1	b	0	-0.12	12.07	1.12	0.6860
*WICKMA	1	b	0	0.53	58.09	6.94	0.0000
WIJGA	1	b	17	-0.19	31.22	4.39	0.2978
WITHER	1	b	0	0.18	92.49	0.01	0.0890
WOLF01	2	b	7	0.11	11.72	0.07	0.6981
WOLF02	2	b	7	0.30	11.12	0.14	0.3170
WOLF03	2	b	10	0.33	24.30	0.48	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.01	0.4914

Appendix Table C1 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma
 Unadjusted

RR data

	N	112
	NS	104
	Wt	6623.91
Het	Chi	330.96
Het	df	111
Het	P	***
Fixed	RR	1.21
	RRl	1.18
	RRu	1.24
	P	+++
Random	RR	1.24
	RRl	1.18
	RRu	1.31
	P	+++
Asymm	P	(*)

Appendix Table C1 - 6

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)	
	Lifetime Asthma
	Unadjusted
1	0.10
2	0.10
3	0.10
4	0.10
5	0.10
6	0.10
7	0.10
8	0.10
9	0.10
10	0.10
11	0.10
12	0.10
13	0.10
14	0.10
15	0.10
16	0.10
17	0.10
18	0.10
19	0.10
20	0.10
21	0.10
22	0.10
23	0.10
24	0.10
25	0.10
26	0.10
27	0.10
28	0.10
29	0.10
30	0.10
31	0.10
32	0.10
33	0.10
34	0.10
35	0.10
36	0.10
37	0.10
38	0.10
39	0.10
40	0.10
41	0.10
42	0.10
43	0.10
44	0.10
45	0.10
46	0.10
47	0.10
48	0.10
49	0.10
50	0.10
51	0.10
52	0.10
53	0.10
54	0.10
55	0.10
56	0.10
57	0.10
58	0.10
59	0.10
60	0.10
61	0.10
62	0.10
63	0.10
64	0.10
65	0.10
66	0.10
67	0.10
68	0.10
69	0.10
70	0.10
71	0.10
72	0.10
73	0.10
74	0.10
75	0.10
76	0.10
77	0.10
78	0.10
79	0.10
80	0.10
81	0.10
82	0.10
83	0.10
84	0.10
85	0.10
86	0.10
87	0.10
88	0.10
89	0.10
90	0.10
91	0.10
92	0.10
93	0.10
94	0.10
95	0.10
96	0.10
97	0.10
98	0.10
99	0.10
100	0.10

RR data

[illegible]

Appendix Table C1 - 6

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

		Lifetime Asthma Unadjusted					
		Start year of study				Total	
		<1970	1970-79	1980-89	1990+		
RR data	N	6	14	27	51	14	112
	NS	4	12	26	48	14	104
		Wt	366.85	539.57	978.06	3054.39	1685.04
		Chi	3.30	19.85	48.40	209.83	39.22
		df	5	13	26	50	13
		P	N.S.	(*)	**	***	***
Fixed	RR	1.30	1.25	1.27	1.16	1.23	1.21
	RRl	1.17	1.15	1.19	1.12	1.17	1.18
	RRu	1.44	1.36	1.35	1.20	1.29	1.24
	P	+++	+++	+++	+++	+++	+++
Random	RR	1.30	1.26	1.33	1.23	1.13	1.24
	RRl	1.17	1.11	1.21	1.13	1.00	1.18
	RRu	1.44	1.42	1.47	1.33	1.29	1.31
	P	+++	+++	+++	+++	(+)	+++
Between	Chi						10.36
Between	df						4
Between	P						*
		Study type					
		CC	Pr	CS	Total		
		N	13	19	80		
		NS	13	17	74		
		Wt	167.78	1889.43	4566.70		
		Chi	30.66	40.06	250.61		
		df	12	18	79		
		P	**	**	***		
Fixed	RR	1.24	1.28	1.18	1.21		
	RRl	1.06	1.22	1.14	1.18		
	RRu	1.44	1.34	1.21	1.24		
	P	++	+++	+++	+++		
Random	RR	1.27	1.25	1.24	1.24		
	RRl	0.99	1.13	1.17	1.18		
	RRu	1.63	1.38	1.32	1.31		
	P	(+)	+++	+++	+++		
Between	Chi				9.62		
Between	df				2		
Between	P				**		

Appendix Table C1 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
3	CUNNI2	JAAKK2	KAPLAN	KELLY	NYSTAD	WEITZ1	XU	YUAN								
4	KASPER															
5	AKCAKA	BURR	DEBENE	FIELDE	FLYNN2	FREEM2	GOREN3	GOREN4	GOREN5	GOREN6	KALY01	KEARNE	LEVES1	LEVES2	LEVES3	MONTEF
	RUDNIK	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	ZEJDA	ZHANG							
15	ALFRA2	FARBE1	FARBE3	SPIEKE												

Appendix Table C1 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP														
GILLIL	GILLIL	1	MCCON1/GILLIL														
MCCON1	MCCON1	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														
NICOLA	NICOLA	1	KABESC/NICOLA														
RONMA2	RONMA1	2	RONMA1/RONMA2/RONMA3														
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3														
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
FREEM2	1	b	4	5	all	Namer	1998	2003	CS	2	AnyHh	NoHhMemb	current	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
LEVES1	1	b	9	9	all	Namer	1999	2004	CS	0	AnyHh	None	unspec	non	-	*	n
LEVES2	1	b	13	13	all	Namer	1999	2004	CS	0	AnyHh	None	unspec	non	-	*	n
LEVES3	1	b	16	16	all	Namer	1999	2004	CS	0	AnyHh	None	unspec	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
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	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
ZHANG	1	b	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	-	1.04	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 C2 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C1 - 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 C2 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma
 Adjusted

REF	NRR	CompC1	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
ALBA	1		b	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALDAW0	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	-
ANNES2	4		b	13	14	all	Eu:wst	1993	2004	CS	2	TotETS	None	current	non	-
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
ARIF	2		b	0	16	all	NAmer	2001	2004	CS	10	AnyHh	NoHhMemb	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	-
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	unspec	non	-
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	-
FREEM1	2		b	7	11	all	NAmer	1998	2003	CS	2	AnyHh	NoHhMemb	current	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	-
LEE3	5		b	6	15	all	As:FE	2001	2003	CS	0	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	-
MAIER	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	-
MCCON1	3		m	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	non	-
MCCON1	4		f	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	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	-
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	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
NICOLA	1		b	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	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	-

Appendix Table C2 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	CompC1	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ODDY	1		b	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-
PIROGO	3		b	0	15	all	Eu:est	*	2004	CS	0	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	-
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never	-
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	-
RONMA2	1		b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non	-
RONMA3	2		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	-
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	-
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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	-
WARKE	1		b	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non	-
WICKMA	2		b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non	-
WIJGA	1		b	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WITHER	1		b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLF01	2		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	2		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	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 C2 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	1	b	0	68	70	34	32	0.91 (	0.51-	1.64)
ALDAW0	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)
ANNES2	4	b	2	904	-	699	-	1.10 (	0.90-	1.20)
ANNESI	1	b	0	164	1243	255	2491	1.29 (	1.05-	1.59)
ARIF	2	b	10	46	-	161	-	0.98 (	0.65-	1.47)
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)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
FREEM1	2	b	2	-	-	-	-	2.10 (	1.72-	2.56)
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)
LEE3	5	b	0	1114	16604	1094	13428	0.82 (	0.76-	0.90)
*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)
*MCCON1	3	m	3	-	-	-	-	1.53 (	1.03-	2.26)
*MCCON1	4	f	3	-	-	-	-	0.84 (	0.59-	1.19)
Subtotal MCCON1								1.10 (	0.84-	1.42)
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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)

Appendix Table C2 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
NICOLA 1		b	0	126	1043	192	1710	1.08 (	0.85-	1.36)
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)
PIROGO 3		b	0	13	82	4	37	1.47 (	0.45-	4.80)
POKHAR 2		b	5	27	-	13	-	3.33 (	1.85-	7.65)
*PONSON 8		b	6	185	-	88	-	1.03 (	0.83-	1.26)
QIAN 1		b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
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)
RONMA2 1		b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3 2		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)
SHAMS2 2		b	0	-	-	-	-	0.99 (	0.81-	1.18)
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)
WARKE 1		b	0	55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA 2		b	8	64	-	251	-	1.65 (	1.21-	2.25)
WIJGA 1		b	17	-	-	-	-	0.83 (	0.59-	1.19)
WITHER 1		b	0	202	633	296	1107	1.19 (	0.97-	1.46)
WOLF01 2		b	7	-	-	-	-	1.12 (	0.63-	1.98)
WOLF02 2		b	7	-	-	-	-	1.35 (	0.75-	2.43)
WOLF03 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				12537	49612	13150	56209			
*prospective study										

Appendix Table C2 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.30	0.3979
ALBA	1	b	0	-0.09	11.15	0.81	0.7647
ALDAW0	2	m	0	0.76	8.40	2.84	0.0274
ALFRA1	2	b	0	0.41	22.65	1.23	0.0498
ANDRAE	2	b	3	-0.01	54.89	1.97	0.9406
ANNES2	4	b	2	0.10	185.67	1.31	0.1941
ANNESI	1	b	0	0.25	89.09	0.49	0.0166
ARIF	2	b	10	-0.02	23.07	0.92	0.9227
BARRET	1	b	0	0.52	5.17	0.60	0.2373
BECKET	6	b	7	0.27	67.46	0.56	0.0266
BENCIV	3	b	2	0.43	116.67	7.44	0.0000
BENER	1	b	0	0.24	19.32	0.08	0.2839
BRABIN	2	b	1	0.06	58.33	0.85	0.6563
BURCHF	5	m	1	0.22	32.51	0.04	0.2200
BURCHF	8	f	1	0.00	24.97	0.80	1.0000
Subtotal BURCHF				-0.14	57.49	0.84	
BUTZ	7	b	1	0.17	9.31	0.00	0.6135
CHEN1	1	b	0	0.25	11.14	0.05	0.4102
CHEN2	37	b	6	0.51	12.65	1.41	0.0681
DELL	2	b	0	0.42	18.30	1.05	0.0733
DODGE	12	b	1	0.41	7.12	0.36	0.2794
DOLD	21	b	1	0.10	113.12	0.80	0.3107
ECE	3	b	0	0.18	79.23	0.00	0.1041
EHRLI2	3	b	0	0.63	11.17	2.24	0.0363
FARBE2	2	b	3	0.41	57.72	3.13	0.0017
FAROOQ	1	b	0	0.25	72.93	0.41	0.0297
*FERGUS	7	b	0	0.04	37.52	0.74	0.8106
FLYNN1	1	b	0	0.23	47.28	0.13	0.1120
FORAST	20	b	9	0.25	37.10	0.17	0.1327
FREEEM	2	b	2	0.74	97.16	30.76	0.0000
GILLIL	4	m	4	-0.07	76.04	4.82	0.5268
GILLIL	12	f	4	0.05	58.89	1.00	0.7081
Subtotal GILLIL				-0.38	134.93	5.82	
GOLD	11	b	0	0.26	211.41	1.23	0.0002
GOREN1	3	b	0	0.07	27.97	0.33	0.7071
GOREN2	5	b	2	0.22	99.84	0.13	0.0316
GORTM1	3	b	7	0.40	36.85	1.78	0.0155
GORTM2	1	b	0	0.63	6.99	1.40	0.0978
GURKAN	1	b	0	0.63	11.10	2.21	0.0372
HAJNAL	1	b	13	0.18	63.05	0.00	0.1477
HU1	4	b	7	-0.22	12.73	2.06	0.4259
HU2	23	b	3	0.44	31.16	2.09	0.0144
JENKIN	5	b	7	0.23	116.41	0.31	0.0126
KAY	20	b	1	0.35	38.89	1.14	0.0288
KENDIR	1	b	0	0.34	99.03	2.67	0.0006
KERSHA	7	b	1	1.14	11.69	10.74	0.0001
KIVITY	4	b	0	0.59	13.44	2.24	0.0311
KUEHR	6	b	1	-0.39	19.88	6.34	0.0855
KUHR	4	b	0	0.70	5.57	1.50	0.0997
LAM1	8	b	4	-0.08	79.06	5.45	0.4585
LAM2	1	b	4	-0.09	53.37	3.99	0.4908
LEE3	5	b	0	-0.19	513.76	71.64	0.0000
*LEEDER	2	b	1	0.29	8.17	0.09	0.4149
LEROUX	2	b	10	0.58	14.02	2.28	0.0293
LIS	1	b	0	0.31	37.30	0.61	0.0604
LISTER	3	b	8	0.42	64.33	3.69	0.0008
MAIER	5	b	8	0.82	13.60	5.50	0.0026
*MARTIN	5	m	1	0.56	11.93	1.73	0.0533
*MARTIN	6	f	1	0.68	5.55	1.41	0.1075
Subtotal MARTIN				0.88	17.48	3.14	
*MCCON1	3	m	3	0.43	24.88	1.51	0.0339
*MCCON1	4	f	3	-0.17	31.22	3.90	0.3300
Subtotal MCCON1				-0.11	56.10	5.41	
MCCON2	2	b	0	-0.58	1.65	0.96	0.4523
*MCKEEV	4	b	0	0.27	1119.12	9.39	0.0000
MONTEI	1	b	0	0.22	56.12	0.11	0.0946
MOYES1	1	b	0	0.06	120.55	1.84	0.5411
MOYES2	1	b	0	-0.06	115.09	6.46	0.5355
MURRAY	5	m	1	0.34	14.28	0.39	0.1941

Appendix Table C2 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
MURRAY	7	f	1	0.27	8.50	0.07	0.4311
Subtotal	MURRAY			0.26	22.78	0.46	
NHANE3	28	b	6	0.15	22.48	0.02	0.4816
NICOLA	1	b	0	0.07	68.08	0.77	0.5460
NILSSO	1	b	0	0.00	31.98	1.03	1.0000
OCONE	1	b	0	0.25	33.98	0.19	0.1384
*ODDY	1	b	4	0.24	96.50	0.34	0.0189
PIROGO	3	b	0	0.38	2.73	0.11	0.5269
POKHAR	2	b	5	1.20	7.63	7.99	0.0009
*PONSON	8	b	6	0.03	88.18	1.98	0.7813
QIAN	1	b	7	0.75	3.96	1.28	0.1372
RASANE	3	b	3	0.46	27.24	2.20	0.0155
RATAGE	1	b	0	0.07	10.00	0.13	0.8330
RENNIE	1	b	6	0.02	13.41	0.34	0.9422
RONCH1	7	b	2	0.34	39.05	0.97	0.0355
RONCH2	3	b	0	0.29	31.60	0.38	0.1048
RONCH3	3	b	0	-0.02	24.61	0.97	0.9224
RONMA2	1	b	7	0.36	43.54	1.39	0.0183
*RONMA3	2	b	9	0.31	15.08	0.25	0.2324
ROSASV	1	b	0	0.45	3.25	0.24	0.4168
SELCUK	2	b	6	0.30	112.79	1.65	0.0014
SENNHA	1	b	0	0.23	58.71	0.13	0.0833
SHAMS2	2	b	0	-0.01	108.55	3.89	0.9166
SHAMSS	2	b	0	0.33	79.17	1.78	0.0034
*SHERMA	2	b	2	0.17	19.90	0.00	0.4603
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOYSET	14	b	5	1.03	6.43	4.65	0.0090
SQUILL	1	b	0	0.10	18.67	0.11	0.6613
STANHO	2	b	0	-0.92	4.90	5.89	0.0423
*TAYLOR	4	b	0	-0.04	72.55	3.51	0.7281
TIMONE	1	b	0	-0.58	9.03	5.22	0.0808
TSIMOY	1	b	0	0.04	2.59	0.05	0.9464
VARELA	1	b	0	1.09	2.80	2.31	0.0687
VAVILI	1	b	0	-0.50	11.30	5.17	0.0945
VENNER	6	m	0	0.09	27.66	0.20	0.6182
VENNER	3	f	0	0.18	28.98	0.00	0.3399
Subtotal	VENNER			-0.09	56.63	0.20	
VERHOE	3	b	0	-0.25	17.31	3.20	0.2972
VONMAF	1	b	0	0.23	78.55	0.20	0.0417
WARKE	1	b	0	-0.12	12.07	1.05	0.6860
*WICKMA	2	b	8	0.50	39.93	4.13	0.0016
WIJGA	1	b	17	-0.19	31.22	4.17	0.2978
WITHER	1	b	0	0.18	92.49	0.00	0.0890
WOLFO1	2	b	7	0.11	11.72	0.05	0.6981
WOLFO2	2	b	7	0.30	11.12	0.16	0.3170
WOLFO3	2	b	10	0.33	24.30	0.55	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.01	0.4914

RR data

	N	110
	NS	104
	Wt	6026.92
Het	Chi	293.19
Het	df	109
Het	P	***
Fixed	RR	1.20
	RRl	1.17
	RRu	1.23
	P	+++
Random	RR	1.23
	RRl	1.17
	RRu	1.29
	P	+++
Asymm	P	(*)

Appendix Table C2 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma
 Adjusted

RR data

	N	110			
	NS	104			
	Wt	6026.92			
Het	Chi	293.19			
Het	df	109			
Het	P	***			
Fixed	RR	1.20			
	RRl	1.17			
	RRu	1.23			
	P	+++			
Random	RR	1.23			
	RRl	1.17			
	RRu	1.29			
	P	+++			
Asymm	P	(*)			
			Sex		
	both	male	female	Total	
	N	97	7	6	110
	NS	97	7	6	110
	Wt	5673.10	195.71	158.10	6026.92
Het	Chi	274.39	11.49	4.74	293.19
Het	df	96	6	5	109
Het	P	***	(*)	N.S.	***
Fixed	RR	1.20	1.18	1.06	1.20
	RRl	1.17	1.03	0.90	1.17
	RRu	1.23	1.36	1.23	1.23
	P	+++	+	N.S.	+++
Random	RR	1.23	1.28	1.06	1.23
	RRl	1.17	1.04	0.90	1.17
	RRu	1.30	1.58	1.23	1.29
	P	+++	+	N.S.	+++
Between	Chi				2.57
Between	df				2
Between	P				N.S.

Appendix Table C2 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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 DEKOK HJERN1 LILLJE RIBEIR WEITZ2	AGABI1 DIJKST HJERN2 LINDFO RONMA1 WILLE1	AGABI2 DOTTER HOST LOPEZC SARRAZ WILLE2	ARSHAD DUHME1 HUGHES MAVALE SCHMIT YANG	AZIZI DUHME2 INFANT MELIA SHIVA ZHENG	BALL DUHME3 JAAKKO MELSOM SHOHAT WEITZ1	BERGMA DUHME4 JANG MILLER SOMERV XU	CALL EHRLI1 JONES MOHAME SOTOQU YUAN	CELEDO FAGBUL KABESC MOUSSA SPENGL ZHANG	CHHABR FORSB1 KARUNA MUMCUO STODDA ZANG	CHINN FORSB2 KNIGHT NITTA STRACH TOMINA	CLARK FORSB3 LAU OHARA STURM TOMINA	CSONKA FUJI LEE1 OLIVET TARIQ WANG	CUNNI1 GUPTA LEE2 PALMIE TOMINA WANG	DAIGLE HABY LEE2 PETERS TOMINA WANG	DEKKER HALONE LEEN PIC WANG
3	CUNNI2	JAAKK2	KAPLAN	KELLY	NYSTAD	WEITZ1	XU	YUAN								
4	KASPER															
5	AKCAKA RUDNIK ALFRA2	BURR SANZOR FARBE1	DEBENE SCHENK FARBE3	FIELDE STAZI SPIEKE	FLYNN2 STERN2	FREEM2 ULRIK	GOREN3 VOLKME	GOREN4 ZEJDA	GOREN5 ZHANG	GOREN6	KALY01	KEARNE	LEVES1	LEVES2	LEVES3	MONTEF
15																

Appendix Table C2 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP	
GILLIL	GILLIL	1	MCCON1/GILLIL	
MCCON1	MCCON1	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	
NICOLA	NICOLA	1	KABESC/NICOLA	
RONMA2	RONMA1	2	RONMA1/RONMA2/RONMA3	
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3	

Adjusted - insufficient data for metaanalysis															
REF	NRR	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
AKCAKA	1	b	6	15	all	Eu:est	1996	2000	CS	0	AnyHh	NoHhMemb	unspec	non	-
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	-
BRABIN	3	b	5	11	all	Eu:UK	1991	1994	CS	6	AnyHh	NoHhMemb	unspec	non	-
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	-
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	-
ECE	8	b	6	15	all	Eu:est	1999	2001	CS	3	AnyHh	NoHhMemb	current	non	-
FIELD	1	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-
FLYNN2	1	b	9	10	all	Auslia	1991	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-
FREEM2	1	b	4	5	all	Namer	1998	2003	CS	2	AnyHh	NoHhMemb	current	non	-
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	-
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	-
KALY01	1	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-
KEARNE	1	m	6	12	all	Eu:wst	1997	1998	CS	0	AnyHh	NoHhMemb	current	non	-
KIVITY	5	b	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	-
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	-
LEVES1	1	b	9	9	all	Namer	1999	2004	CS	0	AnyHh	None	unspec	non	-
LEVES2	1	b	13	13	all	Namer	1999	2004	CS	0	AnyHh	None	unspec	non	-
LEVES3	1	b	16	16	all	Namer	1999	2004	CS	0	AnyHh	None	unspec	non	-
LISTER	9	b	0	4	all	Auslia	1989	1998	CS	0	AnyHh	NoHhMemb	current	non	-
MONTEF	1	b	5	8	all	Eu:wst	*	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	-
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	non	-
RUDNIK	1	b	8	10	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-
RUDNIK	2	b	11	13	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-
RUDNIK	3	b	14	16	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-
SANZOR	1	b	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	-
SCHENK	1	b	5	14	all	Namer	1979	1983	CS	3	Mother	NotMothr	unspec	non	-
STAZI	7	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	-
STERN2	7	b	7	12	all	Namer	*	1989	CS	0	Mother	NotMothr	<2y	non	-
TIMONE	2	b	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	<2y	non	-
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	-
VOLKME	2	b	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	-
ZEIGER	3	b	0	7	all	Namer	1981	1995	Pr	4	AnyHh	NoHhMemb	unspec	non	-
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	-
ZHANG	1	b	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	-

Appendix Table C3 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C3 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
SOTOQU	1	b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non	-
SPENGL	2	b	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	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	-
STURM	10	b	12	14	all	NAmer	1999	2004	CS	7	TotETS	None	unspec	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	-
WIJGA	2	b	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WILLE1	7	b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-
WOLF01	1	b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	1	b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	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 C3 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)
ANNES2	3	b	2	412	-	323	-	1.00 (	0.90-	1.20)
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)
DUHME1	3	b	2	-	-	-	-	1.15 (	0.90-	1.47)
DUHME2	1	b	2	-	-	-	-	1.10 (	0.90-	1.34)
DUHME3	3	b	2	-	-	-	-	0.96 (	0.70-	1.32)
DUHME4	1	b	2	-	-	-	-	1.47 (	1.18-	1.83)
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)
JAAKKO	2	b	7	71	-	93	-	1.21 (	0.85-	1.72)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
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)
MILLER	4	b	5	-	-	-	-	2.36 (	0.91-	6.10)
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)
NICOLA	2	b	0	62	1131	95	1836	1.06 (	0.76-	1.47)
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)
RONMA1	1	b	5	-	-	-	-	1.60 (	1.12-	2.28)
SARRAZ	1	b	0	6	8	8	13	1.22 (	0.31-	4.83)

Appendix Table C3 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
SCHMIT	1	b	4	-	-	-	-	2.07 (	1.21-	3.54)
SELCUK	4	b	6	240	-	68	-	1.28 (	0.94-	1.75)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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)
SPENGL	2	b	5	-	-	-	-	1.22 (	0.75-	2.03)
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)
STURM	10	b	7	-	-	-	-	1.59 (	1.49-	1.70)
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)
WANG	2	b	8	12212	-	8425	-	1.08 (	1.05-	1.12)
WIJGA	2	b	17	-	-	-	-	0.80 (	0.53-	1.20)
WILLE1	7	b	0	37	47	12	30	1.97 (	0.89-	4.36)
WOLF01	1	b	7	-	-	-	-	1.17 (	0.57-	2.43)
WOLF02	1	b	7	-	-	-	-	1.01 (	0.42-	2.41)
WOLF03	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				18831	11885	15171	17404			
*prospective study				~ With 0.5 adjustment for zero						

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDYOY	1	b	0	1.32	2.85	3.81	0.0262
AGABI1	14	b	11	0.29	107.50	1.89	0.0024
AGABI2	14	b	12	0.16	133.43	0.00	0.0697
AGUDOT	4	b	4	1.18	3.39	3.56	0.0291
ANNES2	3	b	2	0.00	185.67	4.76	1.0000
ARSHAD	1	b	7	1.20	1.82	1.98	0.1044
BERGMA	1	b	8	0.28	23.66	0.33	0.1769
CALL	1	b	0	-0.06	4.55	0.21	0.9029
CHEN2	50	b	1	0.07	12.24	0.10	0.8128
CHHABR	1	b	0	0.48	67.93	6.98	0.0001
CLARK	2	b	0	0.63	2.97	0.66	0.2753
CSONKA	4	b	4	0.74	12.12	4.10	0.0098
CUNNI1	1	b	0	-0.03	187.78	6.83	0.6744
DAIGLE	3	b	7	0.67	11.64	3.06	0.0217
DEKKER	6	b	9	0.40	117.58	6.70	0.0000
DIJKST	1	b	0	0.67	6.59	1.70	0.0865
DOTTER	1	m	6	-0.69	10.60	7.72	0.0240
DOTTER	2	f	6	-0.69	5.29	3.85	0.1110
Subtotal	DOTTER			-1.71	15.89	11.57	
DUHME1	3	b	2	0.14	63.84	0.03	0.2641
DUHME2	1	b	2	0.10	96.99	0.41	0.3479
DUHME3	3	b	2	-0.04	38.19	1.54	0.8008
DUHME4	1	b	2	0.39	79.80	4.05	0.0006
FAGBUL	2	b	1	0.34	14.40	0.49	0.1923
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	4.08	0.0016
FUJI	1	b	0	-0.27	15.01	2.78	0.2946
GILLIL	28	b	9	-0.01	58.28	1.69	0.9388
GOLD	7	b	11	-0.01	124.12	3.59	0.9108
GUPTA	2	b	2	0.58	47.97	8.32	0.0001
HABY	4	b	9	0.48	13.60	1.41	0.0752
HJERN1	13	b	9	-0.33	34.86	8.32	0.0524
HJERN2	13	b	9	-0.06	22.00	1.08	0.7716
HOST	1	b	0	-0.12	7.87	0.60	0.7459
HU1	6	b	0	0.02	14.41	0.27	0.9302
HU2	24	b	3	0.39	22.17	1.12	0.0697
INFANT	10	b	19	0.34	25.97	0.81	0.0864
JAAKKO	2	b	7	0.19	30.93	0.03	0.2891
JANG	1	b	0	0.46	26.78	2.43	0.0170
JONES	2	b	0	0.16	9.47	0.00	0.6266
KARUNA	1	b	0	0.12	36.46	0.05	0.4564

Appendix Table C3 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
LAM1	16	b	4	-0.17	15.51	1.73	0.4923
LAM2	2	b	4	-0.27	16.06	3.03	0.2714
LAU	1	b	0	0.30	5.74	0.11	0.4716
LEE1	1	b	8	0.31	395.94	9.48	0.0000
LEE2	1	b	8	-0.01	224.74	6.50	0.8802
LEEN	1	b	0	-0.28	12.81	2.48	0.3157
LILLJE	1	b	0	0.09	42.18	0.24	0.5801
LINDFO	1	b	0	0.50	29.55	3.43	0.0065
MAVALE	7	b	0	0.78	9.68	3.72	0.0153
MELSOM	5	m	0	1.10	5.71	5.03	0.0086
MELSOM	6	f	0	0.00	2.82	0.07	1.0000
Subtotal	MELSOM			0.78	8.53	5.11	
MILLER	4	b	5	0.86	4.24	2.07	0.0769
MOHAME	1	b	0	0.47	8.00	0.77	0.1838
MOUSSA	1	b	0	1.10	0.37	0.33	0.5000
MUMCUO	6	b	0	-0.07	17.74	0.94	0.7676
NHANE3	61	b	6	0.22	14.00	0.06	0.4038
NICOLA	2	b	0	0.06	35.61	0.37	0.7304
NITTA	1	b	5	-0.09	14.17	0.92	0.7226
OHARA	6	b	4	-0.09	34.25	2.22	0.5810
PALMIE	3	b	0	-0.00	30.71	0.79	0.9963
PETERS	6	b	6	-0.15	44.74	4.32	0.3131
PIC	1	b	0	0.09	26.03	0.12	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMA1	1	b	5	0.47	30.41	2.92	0.0095
SARRAZ	1	b	0	0.20	2.03	0.00	0.7783
SCHMIT	1	b	4	0.73	13.33	4.29	0.0079
SELCUK	4	b	6	0.25	39.78	0.30	0.1195
SHIVA	1	b	0	0.39	4.36	0.23	0.4160
SHOHAT	4	b	12	0.19	64.12	0.06	0.1269
SOTOQU	1	b	0	0.42	46.33	3.20	0.0040
SPENGL	2	b	5	0.20	15.50	0.02	0.4337
STANHO	1	b	0	-1.02	3.66	5.11	0.0507
STERN1	1	b	0	0.11	11.71	0.03	0.7107
STODDA	10	b	9	0.31	124.44	2.71	0.0006
STRACH	9	b	4	0.21	27.70	0.06	0.2759
STURM	10	b	7	0.46	883.86	81.51	0.0000
TARIQ	12	b	1	-0.12	19.03	1.46	0.6112
TOMINA	2	b	0	-1.06	1.84	2.73	0.1515
WANG	2	b	8	0.08	3689.08	25.47	0.0000
WIJGA	2	b	17	-0.22	23.01	3.38	0.2845
WILLE1	7	b	0	0.68	6.06	1.62	0.0955
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	3.59	0.0159
YANG	2	b	10	-0.14	31.98	2.87	0.4310
ZHENG	19	b	6	0.34	51.44	1.60	0.0158

RR data

N	87
NS	85
Wt	7866.91
Het Chi	294.93
Het df	86
Het P	***
Fixed RR	1.17
RRl	1.15
RRu	1.20
P	+++
Random RR	1.20
RRl	1.13
RRu	1.27
P	+++
Asymm P	N.S.

Appendix Table C3 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma

Adjusted

RR data

	N	87						
	NS	85						
	Wt	7866.91						
Het	Chi	294.93						
Het	df	86						
Het	P	***						
Fixed	RR	1.17						
	RRL	1.15						
	RRu	1.20						
	P	+++						
Random	RR	1.20						
	RRL	1.13						
	RRu	1.27						
	P	+++						
Asymm	P	N.S.						
			Sex					
		both	male	female	Total			
	N	83	2	2	87			
	NS	83	2	2	87			
	Wt	7842.49	16.32	8.10	7866.91			
Het	Chi	278.25	11.92	0.88	294.93			
Het	df	82	1	1	86			
Het	P	***	***	N.S.	***			
Fixed	RR	1.17	0.94	0.64	1.17			
	RRL	1.15	0.58	0.32	1.15			
	RRu	1.20	1.52	1.27	1.20			
	P	+++	N.S.	N.S.	+++			
Random	RR	1.20	1.20	0.64	1.20			
	RRL	1.13	0.21	0.32	1.13			
	RRu	1.28	6.93	1.27	1.27			
	P	+++	N.S.	N.S.	+++			
Between	Chi				3.88			
Between	df				2			
Between	P				N.S.			
			Continent					
	NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total	
	N	15	3	40	23	2	4	87
	NS	15	3	39	22	2	4	85
	Wt	1617.01	56.12	1326.85	4814.75	17.26	34.92	7866.91
Het	Chi	68.10	0.46	77.32	72.21	6.52	2.83	294.93
Het	df	14	2	39	22	1	3	86
Het	P	***	N.S.	***	***	*	N.S.	***
Fixed	RR	1.38	1.46	1.16	1.11	1.18	1.77	1.17
	RRL	1.31	1.13	1.10	1.08	0.73	1.27	1.15
	RRu	1.45	1.90	1.23	1.14	1.89	2.47	1.20
	P	+++	++	+++	+++	N.S.	+++	+++
Random	RR	1.26	1.46	1.17	1.15	0.82	1.77	1.20
	RRL	1.08	1.13	1.07	1.03	0.19	1.27	1.13
	RRu	1.46	1.90	1.28	1.27	3.54	2.47	1.27
	P	++	++	+++	++	N.S.	+++	+++
Between	Chi							67.49
Between	df							5
Between	P							***

Appendix Table C3 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

		Current Asthma Adjusted						
		UK	Italy	Country in Germany	Europe Scand	othWest	East/Bal	Total
RR data	N	5	3	9	12	7	4	40
	NS	5	3	9	12	7	3	39
	Wt	61.00	271.64	360.86	291.35	270.83	71.17	1326.85
	Het Chi	4.16	2.39	10.28	27.33	16.62	10.62	77.32
	Het df	4	2	8	11	6	3	39
	Het P	N.S.	N.S.	N.S.	**	*	*	***
Fixed	RR	1.16	1.21	1.20	1.23	1.04	1.03	1.16
	RRl	0.90	1.08	1.08	1.10	0.93	0.81	1.10
	RRu	1.49	1.37	1.33	1.38	1.18	1.30	1.23
	P	N.S.	++	+++	+++	N.S.	N.S.	+++
Random	RR	1.16	1.21	1.20	1.22	1.18	0.86	1.17
	RRl	0.90	1.06	1.06	1.01	0.89	0.52	1.07
	RRu	1.51	1.38	1.36	1.48	1.56	1.41	1.28
	P	N.S.	++	++	+	N.S.	N.S.	+++
Between	Chi							5.92
Between	df							5
Between	P							N.S.
		Country in Asia						
		FarEast	Cent/SE	MidlEast	Total			
	N	14	5	4	23			
	NS	14	4	4	22			
	Wt	4567.28	160.89	86.59	4814.75			
	Het Chi	43.46	7.69	1.56	72.21			
	Het df	13	4	3	22			
	Het P	***	N.S.	N.S.	***			
Fixed	RR	1.09	1.56	1.16	1.11			
	RRl	1.06	1.33	0.94	1.08			
	RRu	1.13	1.82	1.44	1.14			
	P	+++	+++	N.S.	+++			
Random	RR	1.06	1.56	1.16	1.15			
	RRl	0.94	1.22	0.94	1.03			
	RRu	1.18	1.99	1.44	1.27			
	P	N.S.	+++	N.S.	++			
Between	Chi				19.50			
Between	df				2			
Between	P				***			
		Start year of study						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N		5	17	55	10	87	
	NS		5	17	53	10	85	
	Wt		141.96	685.30	6860.13	179.52	7866.91	
	Het Chi		5.84	40.63	219.09	11.10	294.93	
	Het df		4	16	54	9	86	
	Het P		N.S.	***	***	N.S.	***	
Fixed	RR		0.96	1.24	1.16	1.49	1.17	
	RRl		0.81	1.15	1.14	1.29	1.15	
	RRu		1.13	1.33	1.19	1.73	1.20	
	P		N.S.	+++	+++	+++	+++	
Random	RR		0.87	1.31	1.15	1.50	1.20	
	RRl		0.60	1.14	1.07	1.25	1.13	
	RRu		1.25	1.51	1.24	1.79	1.27	
	P		N.S.	+++	+++	+++	+++	
Between	Chi						18.28	
Between	df						3	
Between	P						***	

Appendix Table C3 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma Adjusted						
		Publication year				
		<1990	1990-94	1995-99	2000+	Total
N		3	16	34	34	87
NS		3	16	34	32	85
Wt		17.20	444.50	5053.64	2351.56	7866.91
Het	Chi	4.88	30.86	65.96	143.87	294.93
Het	df	2	15	33	33	86
Het	P	(*)	**	***	***	***
Fixed	RR	0.77	1.26	1.11	1.31	1.17
	RRl	0.48	1.15	1.08	1.26	1.15
	RRu	1.24	1.38	1.14	1.36	1.20
Random	P	N.S.	+++	+++	+++	+++
	RR	0.60	1.30	1.19	1.19	1.20
	RRl	0.25	1.11	1.11	1.07	1.13
	RRu	1.44	1.53	1.27	1.33	1.27
	P	N.S.	++	+++	++	+++
Between	Chi					49.36
Between	df					3
Between	P					***
		Study type				
		CC	Pr	CS	Total	
N		24	9	54	87	
NS		23	9	53	85	
Wt		671.45	293.73	6901.73	7866.91	
Het	Chi	28.97	13.99	237.80	294.93	
Het	df	23	8	53	86	
Het	P	N.S.	(*)	***	***	
Fixed	RR	1.32	1.04	1.17	1.17	
	RRl	1.23	0.93	1.14	1.15	
	RRu	1.43	1.17	1.19	1.20	
Random	P	+++	N.S.	+++	+++	
	RR	1.33	1.08	1.17	1.20	
	RRl	1.21	0.91	1.08	1.13	
	RRu	1.47	1.29	1.26	1.27	
	P	+++	N.S.	+++	+++	
Between	Chi					14.16
Between	df					2
Between	P					***
		Highest age in RR				
		0-9	10-14	15+	unknown	Total
N		21	32	33	1	87
NS		21	32	31	1	85
Wt		576.06	2550.58	4728.64	11.64	7866.91
Het	Chi	32.16	121.21	95.72	0.00	294.93
Het	df	20	31	32	0	86
Het	P	*	***	***	N.S.	***
Fixed	RR	1.30	1.28	1.10	1.96	1.17
	RRl	1.19	1.23	1.07	1.10	1.15
	RRu	1.41	1.33	1.14	3.48	1.20
Random	P	+++	+++	+++	+	+++
	RR	1.28	1.14	1.20	1.96	1.20
	RRl	1.13	1.04	1.09	1.10	1.13
	RRu	1.44	1.26	1.33	3.48	1.27
	P	+++	++	+++	+	+++
Between	Chi					45.84
Between	df					3
Between	P					***

Appendix Table C3 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

		Current Asthma Adjusted				
		general	Population setting			Total
			school	medical	allergy	other
RR data						
N		8	57	21	1	87
NS		8	55	21	1	85
Wt		290.55	7240.24	334.31	1.82	7866.91
Het	Chi	18.90	244.99	27.49	0.00	294.93
Het	df	7	56	20	0	86
Het	P	**	***	N.S.	N.S.	***
Fixed	RR	1.21	1.17	1.24	3.33	1.17
	RRL	1.08	1.14	1.12	0.78	1.15
	RRu	1.36	1.20	1.38	14.23	1.20
	P	+++	+++	+++	N.S.	+++
Random	RR	1.14	1.18	1.27	3.33	1.20
	RRL	0.92	1.10	1.11	0.78	1.13
	RRu	1.42	1.27	1.45	14.23	1.27
	P	N.S.	+++	+++	N.S.	+++
Between	Chi					3.55
Between	df					3
Between	P					N.S.
		Respondent for ETS exposure				Total
		child	parent	med rec	mix/oth	
N		14	56		17	87
NS		14	55		16	85
Wt		1665.55	5707.49		493.87	7866.91
Het	Chi	94.76	125.74		34.46	294.93
Het	df	13	55		16	86
Het	P	***	***		**	***
Fixed	RR	1.35	1.13		1.12	1.17
	RRL	1.28	1.10		1.02	1.15
	RRu	1.41	1.16		1.22	1.20
	P	+++	+++		+	+++
Random	RR	1.21	1.21		1.12	1.20
	RRL	1.02	1.13		0.96	1.13
	RRu	1.44	1.29		1.31	1.27
	P	+	+++		N.S.	+++
Between	Chi					39.97
Between	df					2
Between	P					***
		Child smokers			Total	
		exc/none	included	ignored		
N		11	15	61	87	
NS		11	14	60	85	
Wt		455.34	5130.95	2280.62	7866.91	
Het	Chi	26.37	130.71	131.17	294.93	
Het	df	10	14	60	86	
Het	P	**	***	***	***	
Fixed	RR	1.08	1.16	1.22	1.17	
	RRL	0.99	1.13	1.17	1.15	
	RRu	1.19	1.19	1.27	1.20	
	P	(+)	+++	+++	+++	
Random	RR	1.10	1.22	1.21	1.20	
	RRL	0.91	1.05	1.13	1.13	
	RRu	1.33	1.43	1.30	1.27	
	P	N.S.	++	+++	+++	
Between	Chi				6.68	
Between	df				2	
Between	P				*	

Appendix Table C3 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma
AdjustedPhysician diagnosis (current)
yes no/mix Total

RR data

N	32	55	87
NS	32	53	85
Wt	530.56	7336.35	7866.91
Het Chi	55.45	239.36	294.93
Het df	31	54	86
Het P	**	***	***
Fixed RR	1.19	1.17	1.17
RRl	1.09	1.15	1.15
RRu	1.30	1.20	1.20
P	+++	+++	+++
Random RR	1.23	1.19	1.20
RRl	1.08	1.11	1.13
RRu	1.39	1.27	1.27
P	++	+++	+++
Between Chi			0.12
Between df			1
Between P			N.S.

Respondent for diagnosis (current)
medrec parent child mixed Total

N	17	45	19	6	87
NS	17	45	18	5	85
Wt	208.12	2327.06	5229.02	102.72	7866.91
Het Chi	21.44	91.50	156.64	18.06	294.93
Het df	16	44	18	5	86
Het P	N.S.	***	***	**	***
Fixed RR	1.33	1.20	1.16	1.00	1.17
RRl	1.16	1.15	1.13	0.83	1.15
RRu	1.52	1.25	1.19	1.22	1.20
P	+++	+++	+++	N.S.	+++
Random RR	1.36	1.19	1.18	1.02	1.20
RRl	1.15	1.11	1.02	0.68	1.13
RRu	1.62	1.28	1.35	1.53	1.27
P	+++	+++	+	N.S.	+++
Between Chi					7.28
Between df					3
Between P					(*)

Questionnaire for symptoms
ISAAC ATS other Total

N	23	9	55	87
NS	22	9	54	85
Wt	6196.55	275.21	1395.15	7866.91
Het Chi	159.50	16.82	115.35	294.93
Het df	22	8	54	86
Het P	***	*	***	***
Fixed RR	1.17	1.06	1.19	1.17
RRl	1.15	0.94	1.13	1.15
RRu	1.20	1.19	1.26	1.20
P	+++	N.S.	+++	+++
Random RR	1.24	1.06	1.19	1.20
RRl	1.12	0.86	1.09	1.13
RRu	1.37	1.30	1.30	1.27
P	+++	N.S.	+++	+++
Between Chi				3.27
Between df				2
Between P				N.S.

Appendix Table C3 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

				Current Asthma Adjusted					
				Number of cases (current asthma)					
				1-50	51-100	101-200	201+ unknown	Total	
RR data									
N				16	17	20	31	3	87
NS				16	16	19	31	3	85
Wt				84.55	199.02	661.27	6881.02	41.05	7866.91
Het	Chi			17.25	34.65	40.66	186.94	2.70	294.93
Het	df			15	16	19	30	2	86
Het	P			N.S.	**	**	***	N.S.	***
Fixed	RR			1.31	1.03	1.06	1.19	1.40	1.17
	RRL			1.06	0.90	0.99	1.16	1.03	1.15
	RRu			1.62	1.18	1.15	1.21	1.90	1.20
	P			+	N.S.	N.S.	+++	+	+++
Random	RR			1.32	1.02	1.12	1.25	1.44	1.20
	RRL			1.05	0.83	0.98	1.16	0.98	1.13
	RRu			1.66	1.26	1.27	1.36	2.11	1.27
	P			+	N.S.	(+)	+++	(+)	+++
Between	Chi								12.72
Between	df								4
Between	P								*
				Study adjusts for or is matched on sex					
				Yes	No	Total			
N				58	29	87			
NS				58	27	85			
Wt				7385.88	481.03	7866.91			
Het	Chi			233.58	59.84	294.93			
Het	df			57	28	86			
Het	P			***	***	***			
Fixed	RR			1.17	1.24	1.17			
	RRL			1.14	1.13	1.15			
	RRu			1.20	1.36	1.20			
	P			+++	+++	+++			
Random	RR			1.19	1.20	1.20			
	RRL			1.12	1.03	1.13			
	RRu			1.28	1.39	1.27			
	P			+++	+	+++			
Between	Chi					1.52			
Between	df					1			
Between	P					N.S.			
				Study adjusts for or is matched on age					
N				49	38	87			
NS				49	36	85			
Wt				6146.77	1720.14	7866.91			
Het	Chi			129.03	117.75	294.93			
Het	df			48	37	86			
Het	P			***	***	***			
Fixed	RR			1.13	1.36	1.17			
	RRL			1.10	1.30	1.15			
	RRu			1.15	1.43	1.20			
	P			+++	+++	+++			
Random	RR			1.19	1.19	1.20			
	RRL			1.12	1.05	1.13			
	RRu			1.27	1.34	1.27			
	P			+++	++	+++			
Between	Chi					48.15			
Between	df					1			
Between	P					***			

Appendix Table C3 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma

Adjusted

Study adjusts for or is matched on race

Yes No Total

RR data

	N	13	74	87
	NS	12	73	85
	Wt	1670.73	6196.18	7866.91
Het	Chi	68.31	172.10	294.93
Het	df	12	73	86
Het	P	***	***	***
Fixed	RR	1.38	1.12	1.17
	RRl	1.31	1.10	1.15
	RRu	1.45	1.15	1.20
	P	+++	+++	+++
Random	RR	1.26	1.18	1.20
	RRl	1.09	1.11	1.13
	RRu	1.47	1.26	1.27
	P	++	+++	+++
Between	Chi			54.52
Between	df			1
Between	P			***

Study adjusts for or is matched on location

	N	33	54	87
	NS	32	53	85
	Wt	5666.44	2200.47	7866.91
Het	Chi	93.60	149.44	294.93
Het	df	32	53	86
Het	P	***	***	***
Fixed	RR	1.12	1.34	1.17
	RRl	1.09	1.28	1.15
	RRu	1.15	1.39	1.20
	P	+++	+++	+++
Random	RR	1.17	1.21	1.20
	RRl	1.09	1.10	1.13
	RRu	1.26	1.33	1.27
	P	+++	+++	+++
Between	Chi			51.89
Between	df			1
Between	P			***

Study adjusts for or is matched on SES

	N	33	54	87
	NS	33	52	85
	Wt	6484.47	1382.44	7866.91
Het	Chi	180.47	113.22	294.93
Het	df	32	53	86
Het	P	***	***	***
Fixed	RR	1.17	1.21	1.17
	RRl	1.14	1.14	1.15
	RRu	1.20	1.27	1.20
	P	+++	+++	+++
Random	RR	1.18	1.21	1.20
	RRl	1.08	1.11	1.13
	RRu	1.28	1.33	1.27
	P	+++	+++	+++
Between	Chi			1.23
Between	df			1
Between	P			N.S.

Appendix Table C3 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma

Adjusted

Study adjusts for family medical history

Yes No Total

RR data

	N	31	56	87
	NS	31	54	85
	Wt	2057.35	5809.56	7866.91
Het	Chi	97.51	152.33	294.93
Het	df	30	55	86
Het	P	***	***	***
Fixed	RR	1.33	1.12	1.17
	RRl	1.28	1.09	1.15
	RRu	1.39	1.15	1.20
	P	+++	+++	+++
Random	RR	1.24	1.17	1.20
	RRl	1.12	1.09	1.13
	RRu	1.38	1.26	1.27
	P	+++	+++	+++
Between	Chi			45.09
Between	df			1
Between	P			***

Study adjusts for family composition

	N	15	72	87
	NS	15	70	85
	Wt	523.20	7343.71	7866.91
Het	Chi	29.13	264.36	294.93
Het	df	14	71	86
Het	P	*	***	***
Fixed	RR	1.12	1.18	1.17
	RRl	1.02	1.15	1.15
	RRu	1.22	1.21	1.20
	P	+	+++	+++
Random	RR	1.12	1.21	1.20
	RRl	0.97	1.14	1.13
	RRu	1.29	1.30	1.27
	P	N.S.	+++	+++
Between	Chi			1.44
Between	df			1
Between	P			N.S.

Study adjusts for cooking, heating, air conditioning

	N	25	62	87
	NS	23	62	85
	Wt	5505.30	2361.61	7866.91
Het	Chi	166.26	127.96	294.93
Het	df	24	61	86
Het	P	***	***	***
Fixed	RR	1.17	1.19	1.17
	RRl	1.14	1.14	1.15
	RRu	1.20	1.24	1.20
	P	+++	+++	+++
Random	RR	1.23	1.18	1.20
	RRl	1.09	1.10	1.13
	RRu	1.39	1.27	1.27
	P	+++	+++	+++
Between	Chi			0.70
Between	df			1
Between	P			N.S.

Appendix Table C3 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma

Adjusted

Study adjusts for housing quality, crowding, damp, mould

Yes No Total

RR data

	N	22	65	87
	NS	21	64	85
	Wt	958.61	6908.30	7866.91
Het	Chi	51.58	243.34	294.93
Het	df	21	64	86
Het	P	***	***	***
Fixed	RR	1.17	1.17	1.17
	RRl	1.10	1.15	1.15
	RRu	1.25	1.20	1.20
	P	+++	+++	+++
Random	RR	1.16	1.21	1.20
	RRl	1.04	1.13	1.13
	RRu	1.31	1.30	1.27
	P	++	+++	+++
Between	Chi			0.00
Between	df			1
Between	P			N.S.

Study adjusts for pets, animal contact, farming

	N	20	67	87
	NS	18	67	85
	Wt	979.98	6886.93	7866.91
Het	Chi	52.96	240.31	294.93
Het	df	19	66	86
Het	P	***	***	***
Fixed	RR	1.22	1.17	1.17
	RRl	1.15	1.14	1.15
	RRu	1.30	1.20	1.20
	P	+++	+++	+++
Random	RR	1.19	1.20	1.20
	RRl	1.04	1.12	1.13
	RRu	1.37	1.28	1.27
	P	+	+++	+++
Between	Chi			1.66
Between	df			1
Between	P			N.S.

Study adjusts for child's medical history

	N	21	66	87
	NS	21	64	85
	Wt	1319.15	6547.76	7866.91
Het	Chi	46.73	172.97	294.93
Het	df	20	65	86
Het	P	***	***	***
Fixed	RR	1.46	1.12	1.17
	RRl	1.38	1.10	1.15
	RRu	1.54	1.15	1.20
	P	+++	+++	+++
Random	RR	1.30	1.17	1.20
	RRl	1.14	1.10	1.13
	RRu	1.47	1.24	1.27
	P	+++	+++	+++
Between	Chi			75.22
Between	df			1
Between	P			***

Appendix Table C3 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma
Adjusted

Study adjusts for in utero exposure

Yes	No	Total
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RR data

N	9	78	87
NS	9	76	85
Wt	554.62	7312.29	7866.91
Het Chi	13.63	279.50	294.93
Het df	8	77	86
Het P	(*)	***	***
Fixed RR	1.11	1.18	1.17
RRl	1.02	1.15	1.15
RRu	1.21	1.21	1.20
P	+	+++	+++
Random RR	1.13	1.20	1.20
RRl	1.00	1.13	1.13
RRu	1.29	1.29	1.27
P	(+)	+++	+++
Between Chi			1.80
Between df			1
Between P			N.S.

Study adjusts for in life exposure

N	21	66	87
NS	21	64	85
Wt	886.89	6980.02	7866.91
Het Chi	41.79	251.86	294.93
Het df	20	65	86
Het P	**	***	***
Fixed RR	1.22	1.17	1.17
RRl	1.14	1.14	1.15
RRu	1.30	1.20	1.20
P	+++	+++	+++
Random RR	1.29	1.16	1.20
RRl	1.15	1.09	1.13
RRu	1.45	1.25	1.27
P	+++	+++	+++
Between Chi			1.28
Between df			1
Between P			N.S.

Exposed group : Source/who is smoker

	Biochem	TotETS	AnyHh	AnyPar	Mother	Father	Total
N	2	3	43	19	18	2	87
NS	2	3	41	19	18	2	85
Wt	16.96	1105.98	5602.94	547.85	566.82	26.36	7866.91
Het Chi	0.41	35.38	125.53	23.02	42.23	0.74	294.93
Het df	1	2	42	18	17	1	86
Het P	N.S.	***	***	N.S.	***	N.S.	***
Fixed RR	1.34	1.45	1.12	1.24	1.20	1.01	1.17
RRl	0.83	1.37	1.09	1.14	1.11	0.69	1.15
RRu	2.16	1.54	1.15	1.35	1.30	1.48	1.20
P	N.S.	+++	+++	+++	+++	N.S.	+++
Random RR	1.34	1.23	1.16	1.25	1.21	1.01	1.20
RRl	0.83	0.86	1.08	1.12	1.04	0.69	1.13
RRu	2.16	1.76	1.26	1.39	1.41	1.48	1.27
P	N.S.	N.S.	+++	+++	+	N.S.	+++
Between Chi							67.62
Between df							5
Between P							***

Appendix Table C3 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma
Adjusted

Exposed group : when Exposed

	lif/ev	age<7y	current	unspec	other	Total
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RR data

	N	11	9	26	38	3	87
	NS	11	9	26	36	3	85
	Wt	360.79	208.24	1690.11	5568.63	39.14	7866.91
Het	Chi	20.43	14.90	58.32	191.71	0.49	294.93
Het	df	10	8	25	37	2	86
Het	P	*	(*)	***	***	N.S.	***
Fixed	RR	1.06	1.33	1.16	1.18	1.41	1.17
	RRl	0.95	1.16	1.10	1.15	1.03	1.15
	RRu	1.17	1.53	1.22	1.21	1.93	1.20
	P	N.S.	+++	+++	+++	+	+++
Random	RR	1.10	1.31	1.15	1.22	1.41	1.20
	RRl	0.92	1.08	1.05	1.10	1.03	1.13
	RRu	1.30	1.59	1.26	1.35	1.93	1.27
	P	N.S.	++	++	+++	+	+++
Between	Chi						9.08
Between	df						4
Between	P						(*)

Unexposed group : who is smoker

	NoHhMemb	NoParent	NotSpPar	Total
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	N	50	19	18	87
	NS	48	19	18	85
	Wt	6732.08	547.85	586.99	7866.91
Het	Chi	229.14	23.02	40.70	294.93
Het	df	49	18	17	86
Het	P	***	N.S.	**	***
Fixed	RR	1.17	1.24	1.19	1.17
	RRl	1.14	1.14	1.10	1.15
	RRu	1.19	1.35	1.29	1.20
	P	+++	+++	+++	+++
Random	RR	1.17	1.25	1.21	1.20
	RRl	1.08	1.12	1.05	1.13
	RRu	1.27	1.39	1.40	1.27
	P	+++	+++	+	+++
Between	Chi				2.08
Between	df				2
Between	P				N.S.

Unexposed group : time

	non	never	non+othr	NA	Total
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	N	78	6	1	2	87
	NS	76	6	1	2	85
	Wt	7420.39	425.31	4.24	16.96	7866.91
Het	Chi	273.63	16.90	0.00	0.41	294.93
Het	df	77	5	0	1	86
Het	P	***	**	N.S.	N.S.	***
Fixed	RR	1.18	1.10	2.36	1.34	1.17
	RRl	1.15	1.00	0.91	0.83	1.15
	RRu	1.20	1.21	6.11	2.16	1.20
	P	+++	+	(+)	N.S.	+++
Random	RR	1.20	1.08	2.36	1.34	1.20
	RRl	1.13	0.88	0.91	0.83	1.13
	RRu	1.28	1.32	6.11	2.16	1.27
	P	+++	N.S.	(+)	N.S.	+++
Between	Chi					3.99
Between	df					3
Between	P					N.S.

Appendix Table C3 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

		Current Asthma						
		Adjusted						
		Number of adjustment variables						
		0	1	2	3-5	6-9	10+	Total
RR data	N	33	3	6	12	22	11	87
	NS	32	3	6	12	21	11	85
	Wt	693.36	45.67	512.45	208.86	5810.63	595.94	7866.91
	Het Chi	57.67	1.74	19.00	25.26	168.24	21.80	294.93
	Het df	32	2	5	11	21	10	86
	Het P	**	N.S.	**	**	***	*	***
Fixed	RR	1.17	1.08	1.16	1.25	1.17	1.17	1.17
	RRl	1.09	0.81	1.06	1.09	1.14	1.08	1.15
	RRu	1.26	1.44	1.26	1.43	1.20	1.27	1.20
	P	+++	N.S.	+++	++	+++	+++	+++
Random	RR	1.22	1.08	1.20	1.30	1.17	1.17	1.20
	RRl	1.08	0.81	1.01	1.04	1.04	1.02	1.13
	RRu	1.37	1.44	1.44	1.61	1.32	1.33	1.27
	P	++	N.S.	+	+	++	+	+++
Between	Chi							1.21
Between	df							5
Between	P							N.S.
RR adjusted for sex								
		Yes	No	Total				
	N	45	42	87				
	NS	45	40	85				
	Wt	7049.48	817.44	7866.91				
	Het Chi	213.63	80.72	294.93				
	Het df	44	41	86				
	Het P	***	***	***				
Fixed	RR	1.18	1.14	1.17				
	RRl	1.15	1.07	1.15				
	RRu	1.20	1.23	1.20				
	P	+++	+++	+++				
Random	RR	1.21	1.17	1.20				
	RRl	1.13	1.04	1.13				
	RRu	1.31	1.31	1.27				
	P	+++	++	+++				
Between	Chi			0.58				
Between	df			1				
Between	P			N.S.				
RR adjusted for age								
	N	36	51	87				
	NS	36	49	85				
	Wt	5955.90	1911.01	7866.91				
	Het Chi	109.11	137.12	294.93				
	Het df	35	50	86				
	Het P	***	***	***				
Fixed	RR	1.12	1.35	1.17				
	RRl	1.09	1.29	1.15				
	RRu	1.15	1.41	1.20				
	P	+++	+++	+++				
Random	RR	1.18	1.21	1.20				
	RRl	1.10	1.09	1.13				
	RRu	1.27	1.34	1.27				
	P	+++	+++	+++				
Between	Chi			48.69				
Between	df			1				
Between	P			***				

Appendix Table C3 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma
AdjustedRR adjusted for other ETS
Yes No Total

RR data

	N	13	74	87
	NS	13	72	85
	Wt	629.38	7237.53	7866.91
Het	Chi	18.12	273.37	294.93
Het	df	12	73	86
Het	P	N.S.	***	***
Fixed	RR	1.26	1.17	1.17
	RRl	1.17	1.14	1.15
	RRu	1.36	1.19	1.20
	P	+++	+++	+++
Random	RR	1.26	1.18	1.20
	RRl	1.13	1.11	1.13
	RRu	1.40	1.27	1.27
	P	+++	+++	+++
Between	Chi			3.44
Between	df			1
Between	P			(*)

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

	N	46	41	87
	NS	45	40	85
	Wt	6638.68	1228.23	7866.91
Het	Chi	213.13	81.73	294.93
Het	df	45	40	86
Het	P	***	***	***
Fixed	RR	1.18	1.17	1.17
	RRl	1.15	1.10	1.15
	RRu	1.20	1.23	1.20
	P	+++	+++	+++
Random	RR	1.19	1.21	1.20
	RRl	1.10	1.10	1.13
	RRu	1.29	1.33	1.27
	P	+++	+++	+++
Between	Chi			0.08
Between	df			1
Between	P			N.S.

Derivation of RR/CI
Original Numbers SumNumbs Other Total

	N	39	17	9	22	87
	NS	37	17	9	22	85
	Wt	5526.77	505.27	138.36	1696.51	7866.91
Het	Chi	107.49	31.78	15.42	93.81	294.93
Het	df	38	16	8	21	86
Het	P	***	*	(*)	***	***
Fixed	RR	1.13	1.17	1.08	1.36	1.17
	RRl	1.10	1.07	0.91	1.29	1.15
	RRu	1.16	1.28	1.27	1.42	1.20
	P	+++	+++	N.S.	+++	+++
Random	RR	1.22	1.23	1.05	1.16	1.20
	RRl	1.13	1.06	0.82	1.02	1.13
	RRu	1.33	1.43	1.35	1.32	1.27
	P	+++	++	N.S.	+	+++
Between	Chi					46.44
Between	df					3
Between	P					***

Appendix Table C3 - 4

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma
Unadjusted

REF	NRR	X	SEX	AGE	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	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	-
AGUDOT	4		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
ANNES2	1	x	b	13	14	all	Eu:wst	1993	2004	CS	0	TotETS	None	current	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	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
CSONKA	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	-
DUHME1	3		b	5	8	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME2	1		b	12	15	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME3	3		b	5	8	all	Eu:Ger	1995	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME4	1		b	12	15	all	Eu:Ger	1995	1998	CS	2	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	-
JANG	1		b	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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	-
MAVALE	7		b	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	unspec	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	-
MILLER	4		b	2	2	all	NAmer	*	2004	Pr	5	AnyHh	NoHhMemb	current	othr	-
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
NICOLA	2		b	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	non	-
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	-
RIBEIR	1		b	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non	-
RONMA1	1		b	7	8	all	Eu:Sca	1996	1998	CS	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	-
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	non	-
SHOHAT	2	x	b	13	14	all	As:ME	1997	2002	CS	0	Mother	NotMothr	unspec	non	-

Appendix Table C3 - 4

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Unadjusted

REF	NRR	X	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
SOTOQU	1		b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non	-
SPENGL	2		b	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	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	-
STURM	1	x	b	12	14	all	NAmer	1999	2004	CS	0	TotETS	Low	unspec	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	-
WIJGA	2		b	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WILLE1	7		b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-
WOLF01	1		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	1		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	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 C3 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Current Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)
ANNES2	1	b	0	412	6941	323	5548	1.02 (	0.88-	1.18)
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)
DUHME1	3	b	2	-	-	-	-	1.15 (	0.90-	1.47)
DUHME2	1	b	2	-	-	-	-	1.10 (	0.90-	1.34)
DUHME3	3	b	2	-	-	-	-	0.96 (	0.70-	1.32)
DUHME4	1	b	2	-	-	-	-	1.47 (	1.18-	1.83)
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)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
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)
MILLER	4	b	5	-	-	-	-	2.36 (	0.91-	6.10)
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)
NICOLA	2	b	0	62	1131	95	1836	1.06 (	0.76-	1.47)
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)
RONMA1	1	b	5	-	-	-	-	1.60 (	1.12-	2.28)
SARRAZ	1	b	0	6	8	8	13	1.22 (	0.31-	4.83)

Appendix Table C3 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma

Unadjusted

				Numbers Exposed		Non-exposed				
REF	NRR	SEX	ADJ	Case	Control	Case	Control	RR	95.00%CI	
SCHMIT	1	b	4	-	-	-	-	2.07 (	1.21-	3.54)
SELCUK	3	b	0	240	3697	68	1497	1.34 (	1.02-	1.77)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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)
SPENGL	2	b	5	-	-	-	-	1.22 (	0.75-	2.03)
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)
STURM	1	b	0	8445	65637	2900	38534	1.71 (	1.64-	1.79)
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)
WANG	1	b	0	12212	79154	8425	55493	1.02 (	0.99-	1.05)
WIJGA	2	b	17	-	-	-	-	0.80 (	0.53-	1.20)
WILLE1	7	b	0	37	47	12	30	1.97 (	0.89-	4.36)
WOLF01	1	b	7	-	-	-	-	1.17 (	0.57-	2.43)
WOLF02	1	b	7	-	-	-	-	1.01 (	0.42-	2.41)
WOLF03	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				27282	210130	18114	163761			
*prospective study								~ With 0.5 adjustment for zero		

~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO	1	b	0	1.32	2.85	3.66	0.0262
AGABI1	7	b	0	0.28	110.77	1.13	0.0027
AGABI2	7	b	0	0.23	146.28	0.37	0.0047
AGUDOT	4	b	4	1.18	3.39	3.40	0.0291
ANNES2	1	b	0	0.02	171.01	4.61	0.8001
ARSHAD	1	b	7	1.20	1.82	1.89	0.1044
BERGMA	1	b	8	0.28	23.66	0.21	0.1769
CALL	1	b	0	-0.06	4.55	0.26	0.9029
CHEN2	24	b	0	0.03	14.86	0.35	0.9088
CHHABR	1	b	0	0.48	67.93	6.00	0.0001
CLARK	2	b	0	0.63	2.97	0.60	0.2753
CSONKA	2	b	0	0.79	15.67	5.73	0.0018
CUNNI1	1	b	0	-0.03	187.78	8.62	0.6744
DAIGLE	1	b	0	0.36	19.66	0.61	0.1106
DEKKER	3	b	0	0.43	142.02	8.65	0.0000
DIJKST	1	b	0	0.67	6.59	1.55	0.0865
DOTTER	1	m	6	-0.69	10.60	8.15	0.0240
DOTTER	2	f	6	-0.69	5.29	4.06	0.1110
Subtotal	DOTTER			-1.75	15.89	12.21	
DUHME1	3	b	2	0.14	63.84	0.12	0.2641
DUHME2	1	b	2	0.10	96.99	0.76	0.3479
DUHME3	3	b	2	-0.04	38.19	1.92	0.8008
DUHME4	1	b	2	0.39	79.80	3.25	0.0006
FAGBUL	1	b	0	0.75	16.88	5.46	0.0020
FORSB1	2	b	14	0.10	19.52	0.15	0.6737
FORSB2	2	b	14	-0.36	5.48	1.60	0.4036
FORSB3	2	b	15	0.44	50.37	3.43	0.0016
FUJI	1	b	0	-0.27	15.01	3.09	0.2946
GILLIL	48	b	0	-0.04	105.09	5.08	0.7091
GOLD	7	b	11	-0.01	124.12	4.65	0.9108
GUPTA	1	b	0	0.58	48.25	7.52	0.0001
HABY	2	b	0	0.29	37.52	0.45	0.0720
HJERN1	5	b	0	-0.17	28.32	3.57	0.3611
HJERN2	5	b	0	0.16	18.42	0.01	0.4983
HOST	1	b	0	-0.12	7.87	0.70	0.7459
HU1	6	b	0	0.02	14.41	0.37	0.9302
HU2	22	b	0	0.55	21.69	2.84	0.0110
INFANT	3	b	0	0.15	53.83	0.07	0.2761
JAAKKO	1	b	0	0.16	37.58	0.03	0.3387
JANG	1	b	0	0.46	26.78	2.06	0.0170
JONES	2	b	0	0.16	9.47	0.01	0.6266
KARUNA	1	b	0	0.12	36.46	0.13	0.4564

Appendix Table C3 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
LAM1	12	b	0	-0.05	15.92	0.84	0.8549
LAM2	2	b	4	-0.27	16.06	3.37	0.2714
LAU	1	b	0	0.30	5.74	0.08	0.4716
LEE1	1	b	8	0.31	395.94	6.82	0.0000
LEE2	1	b	8	-0.01	224.74	8.42	0.8802
LEEN	1	b	0	-0.28	12.81	2.76	0.3157
LILLJE	1	b	0	0.09	42.18	0.41	0.5801
LINDFO	1	b	0	0.50	29.55	2.97	0.0065
MAVALE	7	b	0	0.78	9.68	3.44	0.0153
MELSOM	5	m	0	1.10	5.71	4.79	0.0086
MELSOM	6	f	0	0.00	2.82	0.09	1.0000
Subtotal	MELSOM			0.73	8.53	4.88	
MILLER	4	b	5	0.86	4.24	1.93	0.0769
MOHAME	1	b	0	0.47	8.00	0.66	0.1838
MOUSSA	1	b	0	1.10	0.37	0.32	0.5000
MUMCUO	6	b	0	-0.07	17.74	1.14	0.7676
NHANE3	49	b	0	0.11	83.29	0.49	0.3283
NICOLA	2	b	0	0.06	35.61	0.56	0.7304
NITTA	1	b	5	-0.09	14.17	1.09	0.7226
OHARA	5	b	0	-0.11	32.01	2.68	0.5504
PALMIE	3	b	0	-0.00	30.71	1.04	0.9963
PETERS	6	b	6	-0.15	44.74	5.00	0.3131
PIC	1	b	0	0.09	26.03	0.22	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMA1	1	b	5	0.47	30.41	2.50	0.0095
SARRAZ	1	b	0	0.20	2.03	0.00	0.7783
SCHMIT	1	b	4	0.73	13.33	3.95	0.0079
SELCUK	3	b	0	0.30	50.37	0.63	0.0362
SHIVA	1	b	0	0.39	4.36	0.19	0.4160
SHOHAT	2	b	0	0.44	123.73	8.09	0.0000
SOTOQU	1	b	0	0.42	46.33	2.65	0.0040
SPENGL	2	b	5	0.20	15.50	0.00	0.4337
STANHO	1	b	0	-1.02	3.66	5.31	0.0507
STERN1	1	b	0	0.11	11.71	0.07	0.7107
STODDA	5	b	0	0.32	133.49	2.34	0.0003
STRACH	3	b	0	0.32	41.13	0.76	0.0403
STURM	1	b	0	0.54	1982.45	246.63	0.0000
TARIQ	10	b	0	0.08	29.85	0.32	0.6591
TOMINA	2	b	0	-1.06	1.84	2.83	0.1515
WANG	1	b	0	0.02	4324.61	121.30	0.2904
WIJGA	2	b	17	-0.22	23.01	3.81	0.2845
WILLE1	7	b	0	0.68	6.06	1.48	0.0955
WOLF01	1	b	7	0.16	7.31	0.01	0.6712
WOLF02	1	b	7	0.01	5.03	0.15	0.9822
WOLF03	1	b	10	0.75	10.43	3.31	0.0159
YANG	1	b	0	-0.31	39.48	9.71	0.0498
ZHENG	7	b	0	0.39	57.94	2.36	0.0033

RR data

N	87
NS	85
Wt	9923.48
Het Chi	574.64
Het df	86
Het P	***
Fixed RR	1.20
RRl	1.18
RRu	1.23
P	+++
Random RR	1.22
RRl	1.13
RRu	1.31
P	+++
Asymm P	N.S.

Appendix Table C3 - 6

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma

Unadjusted

RR data

[illegible]

Appendix Table C3 - 6

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

	Current Asthma Unadjusted				
	Start year of study			unknown	Total
	<1970	1970-79	1980-89		

RR data

N		5	17	55	10	87
NS		5	17	53	10	85
Wt		141.96	834.31	8761.66	185.55	9923.48
Het	Chi	5.84	42.50	491.86	13.70	574.64
Het	df	4	16	54	9	86
Het	P	N.S.	***	***	N.S.	***
Fixed	RR	0.96	1.24	1.20	1.56	1.20
	RRl	0.81	1.15	1.17	1.35	1.18
	RRu	1.13	1.32	1.22	1.80	1.23
	P	N.S.	+++	+++	+++	+++
Random	RR	0.87	1.29	1.16	1.60	1.22
	RRl	0.60	1.13	1.06	1.31	1.13
	RRu	1.25	1.47	1.27	1.96	1.31
	P	N.S.	+++	++	+++	+++
Between	Chi					20.74
Between	df					3
Between	P					***
		Study type				
		CC	Pr	CS	Total	
N		24	9	54	87	
NS		23	9	53	85	
Wt		770.29	310.72	8842.46	9923.48	
Het	Chi	31.65	16.12	510.85	574.64	
Het	df	23	8	53	86	
Het	P	N.S.	*	***	***	
Fixed	RR	1.35	1.06	1.19	1.20	
	RRl	1.26	0.95	1.17	1.18	
	RRu	1.45	1.19	1.22	1.23	
	P	+++	N.S.	+++	+++	
Random	RR	1.36	1.12	1.17	1.22	
	RRl	1.23	0.94	1.07	1.13	
	RRu	1.49	1.35	1.28	1.31	
	P	+++	N.S.	+++	+++	
Between	Chi				16.02	
Between	df				2	
Between	P				***	

Appendix Table C3 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR ZEJDA	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAACK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LIS POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LISTER PONSON SHAMSS VONMAF
3	CELEDO	LOPEZC	OLIVET	WEITZ1	WEITZ2											
4	CHINN	EHRLI1	KABESC	KNIGHT	SOMERV											
5	AZIZI	BALL	DEKOK	FIELDE	HALONE	HUGHES	KALY01	KALY02	MCCON2	MELIA	STERN2					
14	WILLE2															

Appendix Table C3 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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	
WOLF01	WOLF01	1	WOLF01/WOLF02/WOLF03	
WOLF02	WOLF02	1	WOLF01/WOLF02/WOLF03	
WOLF03	WOLF03	1	WOLF01/WOLF02/WOLF03	
CSONKA	CSONKA	1	JAACK2/CSONKA	
NICOLA	NICOLA	1	KABESC/NICOLA	
DUHME1	BEHREN	2	DUHME1/BEHREN	
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3	

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
ADDOY0	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
FIELDE	2	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
HALONE	1	b	6	6	all	NAmer	1980	1999	Pr	0	Mother	NotMothr	in life	non	-	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	-	*	n
KALY01	2	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KALY02	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
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 C4 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C3 - 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 C4 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Current Asthma
Adjusted

REF	NRR	CompC3	SEX	AGE1	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	-
AGUDOT	4		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
ANNES2	3		b	13	14	all	Eu:wst	1993	2004	CS	2	TotETS	None	current	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	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	-
DUHME1	3		b	5	8	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME2	1		b	12	15	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME3	3		b	5	8	all	Eu:Ger	1995	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME4	1		b	12	15	all	Eu:Ger	1995	1998	CS	2	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	Aus:lia	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	-
JANG	1		b	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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	-
MAVALE	7		b	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	unspec	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	-
MILLER	4		b	2	2	all	NAmer	*	2004	Pr	5	AnyHh	NoHhMemb	current	othr	-
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
NICOLA	2		b	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	non	-
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	-
RIBEIR	1		b	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non	-
RONMA1	1		b	7	8	all	Eu:Sca	1996	1998	CS	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	-
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	non	-
SHOHAT	4		b	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non	-

Appendix Table C4 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

REF	NRR	CompC3	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
SOTOQU	1		b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non	-
SPENGL	2		b	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	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	-
STURM	10		b	12	14	all	NAmer	1999	2004	CS	7	TotETS	None	unspec	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	-
WIJGA	2		b	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WILLE1	7		b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-
WOLF01	1		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	1		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	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 C4 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)
ANNES2	3	b	2	412	-	323	-	1.00 (	0.90-	1.20)
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)
DUHME1	3	b	2	-	-	-	-	1.15 (	0.90-	1.47)
DUHME2	1	b	2	-	-	-	-	1.10 (	0.90-	1.34)
DUHME3	3	b	2	-	-	-	-	0.96 (	0.70-	1.32)
DUHME4	1	b	2	-	-	-	-	1.47 (	1.18-	1.83)
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)
JAAKKO	2	b	7	71	-	93	-	1.21 (	0.85-	1.72)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
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)
MILLER	4	b	5	-	-	-	-	2.36 (	0.91-	6.10)
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)
NICOLA	2	b	0	62	1131	95	1836	1.06 (	0.76-	1.47)
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)
RONMA1	1	b	5	-	-	-	-	1.60 (	1.12-	2.28)
SARRAZ	1	b	0	6	8	8	13	1.22 (	0.31-	4.83)

Appendix Table C4 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
SCHMIT	1	b	4	-	-	-	-	2.07 (	1.21-	3.54)
SELCUK	4	b	6	240	-	68	-	1.28 (	0.94-	1.75)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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)
SPENGL	2	b	5	-	-	-	-	1.22 (	0.75-	2.03)
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)
STURM	10	b	7	-	-	-	-	1.59 (	1.49-	1.70)
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)
WANG	2	b	8	12212	-	8425	-	1.08 (	1.05-	1.12)
WIJGA	2	b	17	-	-	-	-	0.80 (	0.53-	1.20)
WILLE1	7	b	0	37	47	12	30	1.97 (	0.89-	4.36)
WOLF01	1	b	7	-	-	-	-	1.17 (	0.57-	2.43)
WOLF02	1	b	7	-	-	-	-	1.01 (	0.42-	2.41)
WOLF03	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				18831	11885	15171	17404			
*prospective study										
										~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDYOY	1	b	0	1.32	2.85	3.81	0.0262
AGABI1	14	b	11	0.29	107.50	1.89	0.0024
AGABI2	14	b	12	0.16	133.43	0.00	0.0697
AGUDOT	4	b	4	1.18	3.39	3.56	0.0291
ANNES2	3	b	2	0.00	185.67	4.76	1.0000
ARSHAD	1	b	7	1.20	1.82	1.98	0.1044
BERGMA	1	b	8	0.28	23.66	0.33	0.1769
CALL	1	b	0	-0.06	4.55	0.21	0.9029
CHEN2	50	b	1	0.07	12.24	0.10	0.8128
CHHABR	1	b	0	0.48	67.93	6.98	0.0001
CLARK	2	b	0	0.63	2.97	0.66	0.2753
CSONKA	4	b	4	0.74	12.12	4.10	0.0098
CUNNI1	1	b	0	-0.03	187.78	6.83	0.6744
DAIGLE	3	b	7	0.67	11.64	3.06	0.0217
DEKKER	6	b	9	0.40	117.58	6.70	0.0000
DIJKST	1	b	0	0.67	6.59	1.70	0.0865
DOTTER	1	m	6	-0.69	10.60	7.72	0.0240
DOTTER	2	f	6	-0.69	5.29	3.85	0.1110
Subtotal	DOTTER			-1.71	15.89	11.57	
DUHME1	3	b	2	0.14	63.84	0.03	0.2641
DUHME2	1	b	2	0.10	96.99	0.41	0.3479
DUHME3	3	b	2	-0.04	38.19	1.54	0.8008
DUHME4	1	b	2	0.39	79.80	4.05	0.0006
FAGBUL	2	b	1	0.34	14.40	0.49	0.1923
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	4.08	0.0016
FUJI	1	b	0	-0.27	15.01	2.78	0.2946
GILLIL	28	b	9	-0.01	58.28	1.69	0.9388
GOLD	7	b	11	-0.01	124.12	3.59	0.9108
GUPTA	2	b	2	0.58	47.97	8.32	0.0001
HABY	4	b	9	0.48	13.60	1.41	0.0752
HJERN1	13	b	9	-0.33	34.86	8.32	0.0524
HJERN2	13	b	9	-0.06	22.00	1.08	0.7716
HOST	1	b	0	-0.12	7.87	0.60	0.7459
HU1	6	b	0	0.02	14.41	0.27	0.9302
HU2	24	b	3	0.39	22.17	1.12	0.0697
INFANT	10	b	19	0.34	25.97	0.81	0.0864
JAAKKO	2	b	7	0.19	30.93	0.03	0.2891
JANG	1	b	0	0.46	26.78	2.43	0.0170
JONES	2	b	0	0.16	9.47	0.00	0.6266
KARUNA	1	b	0	0.12	36.46	0.05	0.4564

Appendix Table C4 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
LAM1	16	b	4	-0.17	15.51	1.73	0.4923
LAM2	2	b	4	-0.27	16.06	3.03	0.2714
LAU	1	b	0	0.30	5.74	0.11	0.4716
LEE1	1	b	8	0.31	395.94	9.48	0.0000
LEE2	1	b	8	-0.01	224.74	6.50	0.8802
LEEN	1	b	0	-0.28	12.81	2.48	0.3157
LILLJE	1	b	0	0.09	42.18	0.24	0.5801
LINDFO	1	b	0	0.50	29.55	3.43	0.0065
MAVALE	7	b	0	0.78	9.68	3.72	0.0153
MELSOM	5	m	0	1.10	5.71	5.03	0.0086
MELSOM	6	f	0	0.00	2.82	0.07	1.0000
Subtotal	MELSOM			0.78	8.53	5.11	
MILLER	4	b	5	0.86	4.24	2.07	0.0769
MOHAME	1	b	0	0.47	8.00	0.77	0.1838
MOUSSA	1	b	0	1.10	0.37	0.33	0.5000
MUMCUO	6	b	0	-0.07	17.74	0.94	0.7676
NHANE3	61	b	6	0.22	14.00	0.06	0.4038
NICOLA	2	b	0	0.06	35.61	0.37	0.7304
NITTA	1	b	5	-0.09	14.17	0.92	0.7226
OHARA	6	b	4	-0.09	34.25	2.22	0.5810
PALMIE	3	b	0	-0.00	30.71	0.79	0.9963
PETERS	6	b	6	-0.15	44.74	4.32	0.3131
PIC	1	b	0	0.09	26.03	0.12	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMA1	1	b	5	0.47	30.41	2.92	0.0095
SARRAZ	1	b	0	0.20	2.03	0.00	0.7783
SCHMIT	1	b	4	0.73	13.33	4.29	0.0079
SELCUK	4	b	6	0.25	39.78	0.30	0.1195
SHIVA	1	b	0	0.39	4.36	0.23	0.4160
SHOHAT	4	b	12	0.19	64.12	0.06	0.1269
SOTOQU	1	b	0	0.42	46.33	3.20	0.0040
SPENGL	2	b	5	0.20	15.50	0.02	0.4337
STANHO	1	b	0	-1.02	3.66	5.11	0.0507
STERN1	1	b	0	0.11	11.71	0.03	0.7107
STODDA	10	b	9	0.31	124.44	2.71	0.0006
STRACH	9	b	4	0.21	27.70	0.06	0.2759
STURM	10	b	7	0.46	883.86	81.51	0.0000
TARIQ	12	b	1	-0.12	19.03	1.46	0.6112
TOMINA	2	b	0	-1.06	1.84	2.73	0.1515
WANG	2	b	8	0.08	3689.08	25.47	0.0000
WIJGA	2	b	17	-0.22	23.01	3.38	0.2845
WILLE1	7	b	0	0.68	6.06	1.62	0.0955
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	3.59	0.0159
YANG	2	b	10	-0.14	31.98	2.87	0.4310
ZHENG	19	b	6	0.34	51.44	1.60	0.0158

RR data

N	87
NS	85
Wt	7866.91
Het Chi	294.93
Het df	86
Het P	***
Fixed RR	1.17
RRl	1.15
RRu	1.20
P	+++
Random RR	1.20
RRl	1.13
RRu	1.27
P	+++
Asymm P	N.S.

Appendix Table C4 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

RR data

	N	87			
	NS	85			
	Wt	7866.91			
Het	Chi	294.93			
Het	df	86			
Het	P	***			
Fixed	RR	1.17			
	RRl	1.15			
	RRu	1.20			
	P	+++			
Random	RR	1.20			
	RRl	1.13			
	RRu	1.27			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	83	2	2	87
	NS	83	2	2	87
	Wt	7842.49	16.32	8.10	7866.91
Het	Chi	278.25	11.92	0.88	294.93
Het	df	82	1	1	86
Het	P	***	***	N.S.	***
Fixed	RR	1.17	0.94	0.64	1.17
	RRl	1.15	0.58	0.32	1.15
	RRu	1.20	1.52	1.27	1.20
	P	+++	N.S.	N.S.	+++
Random	RR	1.20	1.20	0.64	1.20
	RRl	1.13	0.21	0.32	1.13
	RRu	1.28	6.93	1.27	1.27
	P	+++	N.S.	N.S.	+++
Between	Chi				3.88
Between	df				2
Between	P				N.S.

Appendix Table C4 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR ZEJDA	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAAKK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LIS POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LISTER PONSON SHAMSS VONMAF
3	CELEDO	LOPEZC	OLIVET	WEITZ1	WEITZ2											
4	CHINN	EHRLI1	KABESC	KNIGHT	SOMERV											
5	AZIZI	BALL	DEKOK	FIELDE	HALONE	HUGHES	KALY01	KALY02	MCCON2	MELIA	STERN2					
14	WILLE2															

Appendix Table C4 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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	
WOLF01	WOLF01	1	WOLF01/WOLF02/WOLF03	
WOLF02	WOLF02	1	WOLF01/WOLF02/WOLF03	
WOLF03	WOLF03	1	WOLF01/WOLF02/WOLF03	
CSOKA	CSOKA	1	JAAKK2/CSOKA	
NICOLA	NICOLA	1	KABESC/NICOLA	
DUHME1	BEHREN	2	DUHME1/BEHREN	
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3	

Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGEI	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
ADDOY0	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
HALONE	1	b	6	6	all	NAmer	1980	1999	Pr	0	Mother	NotMothr	in life	non	-	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	-	*	n
KALY01	2	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KALY02	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
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 C5 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C1 - 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 C5 - 1

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

REF	NRR	CompC1	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never
ALBA	2	x	b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAW0	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
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	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
FAR00Q	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
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	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
NILSS0	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
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never
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
RONMA2	1		b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non
RONMA3	2		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
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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
STANH0	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
WARKE	1		b	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non

Appendix Table C5 - 1

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

REF	NRR	CompC1	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
WICKMA	2		b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non
WITHER	6	x	b	14	16	all	Eu:UK	1995	1998	CS	5	Mother	NotMothr	current	non

Appendix Table C5 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	2	b	0	32	30	70	72	1.10 (	0.60-	1.99)
ALDAW0	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)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)
NILSS0	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)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
RONMA2	1	b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3	2	b	9	-	-	-	-	1.36 (	0.82-	2.25)
ROSASV	1	b	0	9	6	65	68	1.57 (	0.53-	4.66)
SHAMS2	2	b	0	-	-	-	-	0.99 (	0.81-	1.18)
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)
STANHO	2	b	0	7	169	20	193	0.40 (	0.16-	0.97)

Appendix Table C5 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
*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)
WARKE	1	b	0	55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA	2	b	8	64	-	251	-	1.65 (	1.21-	2.25)
WITHER	6	b	5	103	-	395	-	1.50 (	1.14-	1.98)
Partial Totals				6762	23726	8935	34607			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.20	0.3979
ALBA	2	b	0	0.09	10.78	0.24	0.7608
ALDAWO	2	m	0	0.76	8.40	2.26	0.0274
ALFRA1	2	b	0	0.41	22.65	0.65	0.0498
ANDRAE	2	b	3	-0.01	54.89	3.51	0.9406
ANNESI	1	b	0	0.25	89.09	0.01	0.0166
BENCIV	3	b	2	0.43	116.67	4.16	0.0000
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	1.47	1.0000
Subtotal	BURCHF			-0.27	57.49	1.50	
BUTZ	4	b	0	0.21	12.89	0.01	0.4416
CHEN2	34	b	6	0.51	15.10	1.10	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	0.30	0.0734
ECE	7	b	0	0.12	63.38	0.95	0.3376
EHRLI2	4	b	0	0.69	10.00	2.03	0.0284
FARBE2	2	b	3	0.41	57.72	1.65	0.0017
FAROOQ	1	b	0	0.25	72.93	0.01	0.0297
*FERGUS	7	b	0	0.04	37.52	1.56	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	4	b	0	0.36	23.61	0.30	0.0838
GOREN2	5	b	2	0.22	99.84	0.08	0.0316
GORTM1	3	b	7	0.40	36.85	0.90	0.0155
GORTM2	1	b	0	0.63	6.99	1.03	0.0978
HAJNAL	3	b	13	0.15	49.92	0.45	0.2943
HU1	4	b	7	-0.22	12.73	2.76	0.4259
HU2	23	b	3	0.44	31.16	1.19	0.0144
JENKIN	5	b	7	0.23	116.41	0.02	0.0126
KAY	20	b	1	0.35	38.89	0.45	0.0288
KERSHA	5	b	1	0.89	19.22	8.00	0.0001
KIVITY	4	b	0	0.59	13.44	1.60	0.0311
KUEHR	6	b	1	-0.39	19.88	7.85	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	6.17	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	0.16	0.0604
LISTER	3	b	8	0.42	64.33	1.99	0.0008
*MARTIN	5	m	1	0.56	11.93	1.20	0.0533
*MARTIN	6	f	1	0.68	5.55	1.08	0.1075
Subtotal	MARTIN			0.76	17.48	2.27	
*MCCON1	2	b	5	-0.01	24.89	1.59	0.9600
MCCON2	1	b	0	0.79	3.43	1.04	0.1420
*MCKEEV	4	b	0	0.27	1119.12	0.87	0.0000
MONTEI	1	b	0	0.22	56.12	0.02	0.0946
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	1.89	1.0000
OCONNE	1	b	0	0.25	33.98	0.00	0.1384
*PONSON	4	b	6	0.05	107.38	4.05	0.6131

Appendix Table C5 - 2

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

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
QIAN	1	b	7	0.75	3.96	1.01	0.1372
RASANE	3	b	3	0.46	27.24	1.33	0.0155
RATAGE	2	b	0	-0.24	9.92	2.27	0.4582
RENNIE	1	b	6	0.02	13.41	0.67	0.9422
RONMA2	1	b	7	0.36	43.54	0.57	0.0183
*RONMA3	2	b	9	0.31	15.08	0.06	0.2324
ROSASV	1	b	0	0.45	3.25	0.14	0.4168
SHAMS2	2	b	0	-0.01	108.55	6.94	0.9166
SHAMSS	2	b	0	0.33	79.17	0.59	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	3.98	0.0090
STANHO	2	b	0	-0.92	4.90	6.60	0.0423
*TAYLOR	4	b	0	-0.04	72.55	5.84	0.7281
VENNER	6	m	0	0.09	27.66	0.61	0.6182
VENNER	3	f	0	0.18	28.98	0.12	0.3399
Subtotal	VENNER			-0.21	56.63	0.73	
VERHOE	3	b	0	-0.25	17.31	4.22	0.2972
WARKE	1	b	0	-0.12	12.07	1.56	0.6860
*WICKMA	2	b	8	0.50	39.93	2.66	0.0016
WITHER	6	b	5	0.41	50.42	1.33	0.0040

RR data

	N	72
	NS	68
	Wt	3673.07
Het	Chi	109.15
Het	df	71
Het	P	**
Fixed	RR	1.27
	RRl	1.23
	RRu	1.32
	P	+++
Random	RR	1.27
	RRl	1.21
	RRu	1.33
	P	+++
Asymm	P	N.S.

Appendix Table C5 - 3

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

Lifetime Asthma

Adjusted

RR data

[illegible]

Appendix Table C5 - 3

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

		Lifetime Asthma Adjusted							
		Country in Europe							
		UK	Italy	Germany	Scand	othWest	East/Bal		Total
RR data	N	11	2	3	8	5	2		31
	NS	11	2	3	8	5	2		31
	Wt	1670.17	153.77	117.81	222.36	94.75	100.68		2359.53
	Het Chi	25.53	0.96	7.34	13.88	5.79	0.82		60.87
	Het df	10	1	2	7	4	1		30
	Het P	**	N.S.	*	(*)	N.S.	N.S.		***
	Fixed RR	1.28	1.47	1.12	1.31	1.15	1.21		1.28
	RRl	1.22	1.26	0.94	1.15	0.94	0.99		1.23
	RRu	1.35	1.72	1.34	1.49	1.41	1.47		1.33
	P	+++	+++	N.S.	+++	N.S.	(+)		+++
Random RR	1.27	1.47	1.09	1.35	1.16	1.21		1.27	
RRl	1.14	1.26	0.67	1.10	0.89	0.99		1.17	
RRu	1.42	1.72	1.78	1.65	1.52	1.47		1.37	
P	+++	+++	N.S.	++	N.S.	(+)		+++	
Between Chi									6.56
Between df									5
Between P									N.S.
		Country in Asia							
		FarEast	Cent/SE	MidlEast	Total				
	N	5	1	6	12				
	NS	4	1	6	11				
	Wt	112.83	9.92	187.26	310.01				
	Het Chi	4.45	0.00	4.02	14.62				
	Het df	4	0	5	11				
	Het P	N.S.	N.S.	N.S.	N.S.				
	Fixed RR	1.07	0.79	1.36	1.23				
	RRl	0.89	0.42	1.18	1.10				
	RRu	1.29	1.47	1.57	1.37				
	P	N.S.	N.S.	+++	+++				
Random RR	1.08	0.79	1.36	1.24					
RRl	0.89	0.42	1.18	1.08					
RRu	1.32	1.47	1.57	1.43					
P	N.S.	N.S.	+++	++					
Between Chi				6.16					
Between df				2					
Between P				*					
		Start year of study							
		<1970	1970-79	1980-89	1990+	unknown	Total		
	N	5	10	21	26	10	72		
	NS	4	9	20	25	10	68		
	Wt	216.04	480.65	685.57	858.62	1432.19	3673.07		
	Het Chi	1.27	16.78	31.32	37.48	20.51	109.15		
	Het df	4	9	20	25	9	71		
	Het P	N.S.	(*)	(*)	(*)	*	**		
	Fixed RR	1.23	1.23	1.32	1.27	1.28	1.27		
	RRl	1.08	1.12	1.22	1.19	1.21	1.23		
	RRu	1.41	1.34	1.42	1.36	1.35	1.32		
	P	++	+++	+++	+++	+++	+++		
Random RR	1.23	1.22	1.38	1.25	1.22	1.27			
RRl	1.08	1.05	1.25	1.15	1.06	1.21			
RRu	1.41	1.41	1.54	1.37	1.40	1.33			
P	++	++	+++	+++	++	+++			
Between Chi						1.80			
Between df						4			
Between P						N.S.			

Appendix Table C5 - 3

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

Lifetime Asthma
Adjusted

Publication year

<1990	1990-94	1995-99	2000+	Total
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RR data

	N	14	15	20	23	72
	NS	13	13	20	22	68
	Wt	366.71	605.74	747.52	1953.10	3673.07
Het	Chi	28.41	18.69	24.85	34.16	109.15
Het	df	13	14	19	22	71
Het	P	**	N.S.	N.S.	*	**
Fixed	RR	1.18	1.26	1.32	1.28	1.27
	RRL	1.07	1.16	1.23	1.23	1.23
	RRu	1.31	1.36	1.42	1.34	1.32
	P	++	+++	+++	+++	+++
Random	RR	1.24	1.26	1.32	1.26	1.27
	RRL	1.05	1.13	1.21	1.17	1.21
	RRu	1.46	1.40	1.44	1.37	1.33
	P	+	+++	+++	+++	+++
Between	Chi					3.05
Between	df					3
Between	P					N.S.
	Study type					
	CC	Pr	CS	Total		
	N	9	15	48	72	
	NS	9	14	45	68	
	Wt	129.42	1714.97	1828.69	3673.07	
Het	Chi	18.44	20.46	70.23	109.15	
Het	df	8	14	47	71	
Het	P	*	N.S.	*	**	
Fixed	RR	1.26	1.28	1.27	1.27	
	RRL	1.06	1.22	1.22	1.23	
	RRu	1.50	1.34	1.33	1.32	
	P	++	+++	+++	+++	
Random	RR	1.24	1.24	1.28	1.27	
	RRL	0.94	1.14	1.21	1.21	
	RRu	1.63	1.36	1.36	1.33	
	P	N.S.	+++	+++	+++	
Between	Chi				0.02	
Between	df				2	
Between	P				N.S.	
	Highest age in RR					
	0-9	10-14	15+	unknown	Total	
	N	16	27	28	1	72
	NS	16	26	25	1	68
	Wt	633.93	2038.45	987.80	12.89	3673.07
Het	Chi	30.41	47.01	31.14	0.00	109.15
Het	df	15	26	27	0	71
Het	P	*	**	N.S.	N.S.	**
Fixed	RR	1.30	1.26	1.29	1.24	1.27
	RRL	1.20	1.21	1.21	0.72	1.23
	RRu	1.41	1.32	1.37	2.14	1.32
	P	+++	+++	+++	N.S.	+++
Random	RR	1.34	1.22	1.29	1.24	1.27
	RRL	1.18	1.12	1.20	0.72	1.21
	RRu	1.51	1.33	1.38	2.14	1.33
	P	+++	+++	+++	N.S.	+++
Between	Chi					0.59
Between	df					3
Between	P					N.S.

Appendix Table C5 - 3

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

		Lifetime Asthma Adjusted					
		general	Population setting			other	Total
			school	medical	allergy		
RR data	N	19	31	17	2	3	72
	NS	17	31	16	1	3	68
	Wt	669.24	1338.72	1460.45	56.63	148.03	3673.07
Het	Chi	31.05	50.69	18.16	0.10	3.90	109.15
Het	df	18	30	16	1	2	71
Het	P	*	*	N.S.	N.S.	N.S.	**
Fixed	RR	1.23	1.28	1.32	1.15	1.13	1.27
	RRl	1.14	1.21	1.25	0.88	0.96	1.23
	RRu	1.32	1.35	1.39	1.49	1.33	1.32
	P	+++	+++	+++	N.S.	N.S.	+++
Random	RR	1.28	1.27	1.33	1.15	1.18	1.27
	RRl	1.14	1.17	1.22	0.88	0.90	1.21
	RRu	1.42	1.37	1.44	1.49	1.56	1.33
	P	+++	+++	+++	N.S.	N.S.	+++
Between	Chi						5.27
Between	df						4
Between	P						N.S.
		Respondent for ETS exposure					
		child	parent	med rec	mix/oth	Total	
	N	6	46	3	17	72	
	NS	6	45	3	14	68	
	Wt	205.70	1634.05	1226.03	607.29	3673.07	
Het	Chi	9.88	72.77	0.03	15.34	109.15	
Het	df	5	45	2	16	71	
Het	P	(*)	**	N.S.	N.S.	**	
Fixed	RR	1.02	1.28	1.31	1.28	1.27	
	RRl	0.89	1.22	1.24	1.18	1.23	
	RRu	1.17	1.35	1.38	1.39	1.32	
	P	N.S.	+++	+++	+++	+++	
Random	RR	1.03	1.30	1.31	1.28	1.27	
	RRl	0.81	1.21	1.24	1.18	1.21	
	RRu	1.30	1.39	1.38	1.39	1.33	
	P	N.S.	+++	+++	+++	+++	
Between	Chi					11.13	
Between	df					3	
Between	P					*	
		Child smokers			Total		
		exc/none	included	ignored			
	N	16	8	48	72		
	NS	12	8	48	68		
	Wt	286.84	392.84	2993.39	3673.07		
Het	Chi	19.70	9.01	78.23	109.15		
Het	df	15	7	47	71		
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	1.21	1.32	1.27	1.27		
	RRl	1.05	1.16	1.20	1.21		
	RRu	1.39	1.51	1.35	1.33		
	P	++	+++	+++	+++		
Between	Chi				2.22		
Between	df				2		
Between	P				N.S.		

Appendix Table C5 - 3

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

Physician diagnosis (lifetime)
 yes no/mixed Total

RR data

	N	38	34	72		
	NS	36	32	68		
	Wt	2112.67	1560.41	3673.07		
Het	Chi	57.18	51.11	109.15		
Het	df	37	33	71		
Het	P	*	*	**		
Fixed	RR	1.29	1.25	1.27		
	RRl	1.24	1.19	1.23		
	RRu	1.35	1.32	1.32		
	P	+++	+++	+++		
Random	RR	1.28	1.26	1.27		
	RRl	1.19	1.18	1.21		
	RRu	1.37	1.35	1.33		
	P	+++	+++	+++		
Between	Chi			0.87		
Between	df			1		
Between	P			N.S.		
	Respondent for diagnosis (lifetime)					
	medrec	parent	child	mixed	Total	
	N	11	44	10	7	72
	NS	10	42	10	6	68
	Wt	1376.24	1645.59	306.46	344.79	3673.07
Het	Chi	13.38	59.16	15.88	7.26	109.15
Het	df	10	43	9	6	71
Het	P	N.S.	(*)	(*)	N.S.	**
Fixed	RR	1.30	1.31	1.05	1.24	1.27
	RRl	1.23	1.25	0.94	1.12	1.23
	RRu	1.37	1.37	1.17	1.38	1.32
	P	+++	+++	N.S.	+++	+++
Random	RR	1.27	1.32	1.05	1.23	1.27
	RRl	1.14	1.25	0.89	1.07	1.21
	RRu	1.42	1.41	1.25	1.41	1.33
	P	+++	+++	N.S.	++	+++
Between	Chi					13.47
Between	df					3
Between	P					**
	Questionnaire for symptoms					
	ISAAC	ATS	other	Total		
	N	13	10	49	72	
	NS	13	9	46	68	
	Wt	696.96	469.32	2506.79	3673.07	
Het	Chi	13.71	4.88	84.39	109.15	
Het	df	12	9	48	71	
Het	P	N.S.	N.S.	***	**	
Fixed	RR	1.17	1.29	1.30	1.27	
	RRl	1.09	1.17	1.25	1.23	
	RRu	1.26	1.41	1.36	1.32	
	P	+++	+++	+++	+++	
Random	RR	1.18	1.29	1.30	1.27	
	RRl	1.08	1.17	1.21	1.21	
	RRu	1.28	1.41	1.39	1.33	
	P	+++	+++	+++	+++	
Between	Chi				6.17	
Between	df				2	
Between	P				*	

Appendix Table C5 - 3

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

Analysis type
 prevlncce onset Total

RR data

	N	60	12	72			
	NS	57	11	68			
	Wt	2207.79	1465.28	3673.07			
Het	Chi	90.08	19.00	109.15			
Het	df	59	11	71			
Het	P	**	(*)	**			
Fixed	RR	1.28	1.27	1.27			
	RRl	1.23	1.20	1.23			
	RRu	1.33	1.33	1.32			
	P	+++	+++	+++			
Random	RR	1.28	1.21	1.27			
	RRl	1.21	1.07	1.21			
	RRu	1.36	1.36	1.33			
	P	+++	++	+++			
Between	Chi			0.07			
Between	df			1			
Between	P			N.S.			
Number of cases (lifetime asthma)							
		1-50	51-100	101-200	201+	unknown	Total
	N	7	12	17	34	2	72
	NS	7	11	17	31	2	68
	Wt	35.22	151.38	325.57	3120.89	40.01	3673.07
Het	Chi	10.48	12.03	30.93	47.72	0.11	109.15
Het	df	6	11	16	33	1	71
Het	P	N.S.	N.S.	*	*	N.S.	**
Fixed	RR	1.44	1.55	1.20	1.27	1.38	1.27
	RRl	1.04	1.33	1.08	1.22	1.01	1.23
	RRu	2.01	1.82	1.34	1.31	1.88	1.32
	P	+	+++	+++	+++	+	+++
Random	RR	1.44	1.56	1.20	1.25	1.38	1.27
	RRl	0.92	1.32	1.03	1.19	1.01	1.21
	RRu	2.23	1.84	1.41	1.31	1.88	1.33
	P	N.S.	+++	+	+++	+	+++
Between	Chi						7.89
Between	df						4
Between	P						(*)

Study adjusts for or is matched on sex
 Yes No Total

	N	33	39	72			
	NS	32	36	68			
	Wt	1241.45	2431.62	3673.07			
Het	Chi	43.54	64.75	109.15			
Het	df	32	38	71			
Het	P	(*)	**	**			
Fixed	RR	1.30	1.26	1.27			
	RRl	1.23	1.21	1.23			
	RRu	1.38	1.31	1.32			
	P	+++	+++	+++			
Random	RR	1.31	1.24	1.27			
	RRl	1.22	1.16	1.21			
	RRu	1.41	1.33	1.33			
	P	+++	+++	+++			
Between	Chi			0.86			
Between	df			1			
Between	P			N.S.			

Appendix Table C5 - 3

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

Lifetime Asthma

Adjusted

Study adjusts for or is matched on age

Yes No Total

RR data

	N	17	55	72
	NS	16	52	68
	Wt	599.91	3073.16	3673.07
Het	Chi	19.45	89.51	109.15
Het	df	16	54	71
Het	P	N.S.	**	**
Fixed	RR	1.25	1.28	1.27
	RRl	1.16	1.23	1.23
	RRu	1.36	1.32	1.32
	P	+++	+++	+++
Random	RR	1.25	1.28	1.27
	RRl	1.13	1.21	1.21
	RRu	1.38	1.35	1.33
	P	+++	+++	+++
Between	Chi			0.19
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on race

	N	9	63	72
	NS	9	59	68
	Wt	382.48	3290.59	3673.07
Het	Chi	11.47	96.35	109.15
Het	df	8	62	71
Het	P	N.S.	**	**
Fixed	RR	1.35	1.27	1.27
	RRl	1.22	1.22	1.23
	RRu	1.49	1.31	1.32
	P	+++	+++	+++
Random	RR	1.38	1.26	1.27
	RRl	1.19	1.19	1.21
	RRu	1.60	1.32	1.33
	P	+++	+++	+++
Between	Chi			1.33
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on location

	N	14	58	72
	NS	14	54	68
	Wt	658.32	3014.75	3673.07
Het	Chi	18.36	89.40	109.15
Het	df	13	57	71
Het	P	N.S.	**	**
Fixed	RR	1.22	1.29	1.27
	RRl	1.13	1.24	1.23
	RRu	1.32	1.33	1.32
	P	+++	+++	+++
Random	RR	1.21	1.29	1.27
	RRl	1.09	1.22	1.21
	RRu	1.34	1.36	1.33
	P	+++	+++	+++
Between	Chi			1.39
Between	df			1
Between	P			N.S.

Appendix Table C5 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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	21	51	72
	NS	20	48	68
	Wt	859.84	2813.23	3673.07
Het	Chi	38.34	70.71	109.15
Het	df	20	50	71
Het	P	**	*	**
Fixed	RR	1.26	1.28	1.27
	RRl	1.18	1.23	1.23
	RRu	1.35	1.33	1.32
	P	+++	+++	+++
Random	RR	1.31	1.26	1.27
	RRl	1.18	1.19	1.21
	RRu	1.45	1.33	1.33
	P	+++	+++	+++
Between	Chi			0.11
Between	df			1
Between	P			N.S.

Study adjusts for family medical history

	N	23	49	72
	NS	22	46	68
	Wt	1073.16	2599.92	3673.07
Het	Chi	30.74	78.16	109.15
Het	df	22	48	71
Het	P	N.S.	**	**
Fixed	RR	1.26	1.28	1.27
	RRl	1.19	1.23	1.23
	RRu	1.34	1.33	1.32
	P	+++	+++	+++
Random	RR	1.28	1.26	1.27
	RRl	1.18	1.18	1.21
	RRu	1.38	1.34	1.33
	P	+++	+++	+++
Between	Chi			0.25
Between	df			1
Between	P			N.S.

Study adjusts for family composition

	N	11	61	72
	NS	11	57	68
	Wt	585.63	3087.44	3673.07
Het	Chi	13.73	95.42	109.15
Het	df	10	60	71
Het	P	N.S.	**	**
Fixed	RR	1.28	1.27	1.27
	RRl	1.18	1.23	1.23
	RRu	1.38	1.32	1.32
	P	+++	+++	+++
Random	RR	1.30	1.26	1.27
	RRl	1.17	1.19	1.21
	RRu	1.44	1.33	1.33
	P	+++	+++	+++
Between	Chi			0.00
Between	df			1
Between	P			N.S.

Appendix Table C5 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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	7	65	72
	NS	7	61	68
	Wt	532.02	3141.05	3673.07
Het	Chi	10.82	98.30	109.15
Het	df	6	64	71
Het	P	(*)	**	**
Fixed	RR	1.28	1.27	1.27
	RRl	1.18	1.23	1.23
	RRu	1.40	1.32	1.32
	P	+++	+++	+++
Random	RR	1.29	1.27	1.27
	RRl	1.13	1.20	1.21
	RRu	1.47	1.34	1.33
	P	+++	+++	+++
Between	Chi			0.03
Between	df			1
Between	P			N.S.

Study adjusts for housing quality, crowding, damp, mould

	N	11	61	72
	NS	11	57	68
	Wt	369.91	3303.16	3673.07
Het	Chi	12.47	96.09	109.15
Het	df	10	60	71
Het	P	N.S.	**	**
Fixed	RR	1.23	1.28	1.27
	RRl	1.11	1.24	1.23
	RRu	1.36	1.32	1.32
	P	+++	+++	+++
Random	RR	1.24	1.27	1.27
	RRl	1.10	1.21	1.21
	RRu	1.39	1.35	1.33
	P	+++	+++	+++
Between	Chi			0.60
Between	df			1
Between	P			N.S.

Study adjusts for pets, animal contact, farming

	N	10	62	72
	NS	9	59	68
	Wt	276.82	3396.25	3673.07
Het	Chi	8.64	100.50	109.15
Het	df	9	61	71
Het	P	N.S.	**	**
Fixed	RR	1.27	1.28	1.27
	RRl	1.13	1.23	1.23
	RRu	1.43	1.32	1.32
	P	+++	+++	+++
Random	RR	1.27	1.27	1.27
	RRl	1.13	1.20	1.21
	RRu	1.43	1.34	1.33
	P	+++	+++	+++
Between	Chi			0.01
Between	df			1
Between	P			N.S.

Appendix Table C5 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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	24	48	72
NS	22	46	68
Wt	820.89	2852.19	3673.07
Het Chi	33.35	75.76	109.15
Het df	23	47	71
Het P	(*)	**	**
Fixed RR	1.28	1.27	1.27
RRl	1.20	1.23	1.23
RRu	1.37	1.32	1.32
P	+++	+++	+++
Random RR	1.31	1.25	1.27
RRl	1.20	1.18	1.21
RRu	1.43	1.33	1.33
P	+++	+++	+++
Between Chi			0.04
Between df			1
Between P			N.S.

Study adjusts for in utero exposure

N	2	70	72
NS	2	66	68
Wt	19.16	3653.91	3673.07
Het Chi	6.70	102.41	109.15
Het df	1	69	71
Het P	**	**	**
Fixed RR	1.22	1.28	1.27
RRl	0.78	1.23	1.23
RRu	1.91	1.32	1.32
P	N.S.	+++	+++
Random RR	1.45	1.27	1.27
RRl	0.43	1.21	1.21
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	15	57	72
NS	15	53	68
Wt	766.89	2906.18	3673.07
Het Chi	19.04	88.58	109.15
Het df	14	56	71
Het P	N.S.	**	**
Fixed RR	1.33	1.26	1.27
RRl	1.24	1.22	1.23
RRu	1.42	1.31	1.32
P	+++	+++	+++
Random RR	1.32	1.25	1.27
RRl	1.21	1.18	1.21
RRu	1.45	1.33	1.33
P	+++	+++	+++
Between Chi			1.54
Between df			1
Between P			N.S.

Appendix Table C5 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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	23	44	5	72
NS	22	42	4	68
Wt	692.01	2868.33	112.73	3673.07
Het Chi	18.63	77.29	4.68	109.15
Het df	22	43	4	71
Het P	N.S.	**	N.S.	**
Fixed RR	1.21	1.30	1.02	1.27
RRl	1.12	1.26	0.85	1.23
RRu	1.31	1.35	1.23	1.32
P	+++	+++	N.S.	+++
Random RR	1.21	1.32	1.03	1.27
RRl	1.12	1.24	0.84	1.21
RRu	1.31	1.41	1.27	1.33
P	+++	+++	N.S.	+++
Between Chi				8.54
Between df				2
Between P				*

Exposed group : when Exposed

lif/ev age<7y current unspec other Total

N	23	7	18	22	2	72
NS	22	6	17	21	2	68
Wt	1672.12	415.30	703.29	826.31	56.04	3673.07
Het Chi	32.62	24.85	27.29	20.94	2.78	109.15
Het df	22	6	17	21	1	71
Het P	(*)	***	(*)	N.S.	(*)	**
Fixed RR	1.27	1.27	1.25	1.30	1.27	1.27
RRl	1.21	1.15	1.16	1.22	0.98	1.23
RRu	1.34	1.40	1.34	1.39	1.65	1.32
P	+++	+++	+++	+++	(+)	+++
Random RR	1.24	1.36	1.24	1.30	1.25	1.27
RRl	1.13	1.07	1.12	1.22	0.81	1.21
RRu	1.36	1.74	1.36	1.39	1.94	1.33
P	+++	+	+++	+++	N.S.	+++
Between Chi						0.67
Between df						4
Between P						N.S.

Unexposed group : who is smoker

NoHhMemb NoParent NotSpPar Total

N	3	24	45	72
NS	3	22	43	68
Wt	63.02	735.75	2874.30	3673.07
Het Chi	1.61	18.88	80.40	109.15
Het df	2	23	44	71
Het P	N.S.	N.S.	***	**
Fixed RR	0.97	1.21	1.30	1.27
RRl	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	1.32	1.27
RRl	0.76	1.12	1.24	1.21
RRu	1.24	1.30	1.41	1.33
P	N.S.	+++	+++	+++
Between Chi				8.26
Between df				2
Between P				*

Appendix Table C5 - 3

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

Lifetime Asthma
Adjusted

Unexposed group : time			
non	never non+othr	Total	

RR data

	N	58	14	72
	NS	55	13	68
	Wt	2207.03	1466.04	3673.07
Het	Chi	94.66	13.14	109.15
Het	df	57	13	71
Het	P	**	N.S.	**
Fixed	RR	1.26	1.31	1.27
	RRl	1.20	1.24	1.23
	RRu	1.31	1.37	1.32
	P	+++	+++	+++
Random	RR	1.26	1.30	1.27
	RRl	1.19	1.23	1.21
	RRu	1.34	1.38	1.33
	P	+++	+++	+++
Between	Chi			1.36
Between	df			1
Between	P			N.S.

		Number of adjustment variables						
		0	1	2	3-5	6-9	10+	Total
	N	34	11	3	10	12	2	72
	NS	33	8	3	10	12	2	68
	Wt	2368.18	191.02	236.41	307.70	505.83	63.94	3673.07
Het	Chi	45.12	20.20	3.03	20.96	15.64	2.06	109.15
Het	df	33	10	2	9	11	1	71
Het	P	(*)	*	N.S.	*	N.S.	N.S.	**
Fixed	RR	1.26	1.32	1.37	1.27	1.30	1.28	1.27
	RRl	1.21	1.14	1.21	1.14	1.19	1.00	1.23
	RRu	1.31	1.52	1.56	1.43	1.41	1.63	1.32
	P	+++	+++	+++	+++	+++	(+)	+++
Random	RR	1.22	1.35	1.36	1.31	1.32	1.36	1.27
	RRl	1.15	1.09	1.15	1.09	1.18	0.90	1.21
	RRu	1.30	1.66	1.61	1.57	1.47	2.04	1.33
	P	+++	++	+++	++	+++	N.S.	+++
Between	Chi							2.14
Between	df							5
Between	P							N.S.

RR adjusted for sex		Total
Yes	No	

N	23	49	72
NS	23	45	68

	Wt	881.49	2791.59	3673.07
Het	Chi	35.99	71.95	109.15
Het	df	22	48	71
Het	P	*	*	**
Fixed	RR	1.32	1.26	1.27
	RRl	1.23	1.22	1.23
	RRu	1.41	1.31	1.32
	P	+++	+++	+++
Random	RR	1.32	1.24	1.27
	RRl	1.21	1.17	1.21
	RRu	1.45	1.32	1.33
	P	+++	+++	+++
Between	Chi			1.21
Between	df			1
Between	P			N.S.

Appendix Table C5 - 3

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

RR adjusted for age
 Yes No Total

RR data

	N	15	57	72
	NS	14	54	68
	Wt	377.72	3295.35	3673.07
Het	Chi	19.03	89.79	109.15
Het	df	14	56	71
Het	P	N.S.	**	**
Fixed	RR	1.24	1.28	1.27
	RRl	1.12	1.24	1.23
	RRu	1.37	1.32	1.32
	P	+++	+++	+++
Random	RR	1.24	1.27	1.27
	RRl	1.10	1.21	1.21
	RRu	1.41	1.35	1.33
	P	+++	+++	+++
Between	Chi			0.34
Between	df			1
Between	P			N.S.

RR adjusted for other ETS

	N	5	67	72
	NS	5	63	68
	Wt	123.06	3550.01	3673.07
Het	Chi	7.50	99.25	109.15
Het	df	4	66	71
Het	P	N.S.	**	**
Fixed	RR	1.46	1.27	1.27
	RRl	1.23	1.23	1.23
	RRu	1.75	1.31	1.32
	P	+++	+++	+++
Random	RR	1.45	1.26	1.27
	RRl	1.08	1.20	1.21
	RRu	1.94	1.32	1.33
	P	+	+++	+++
Between	Chi			2.41
Between	df			1
Between	P			N.S.

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

	N	34	38	72
	NS	32	36	68
	Wt	1224.79	2448.28	3673.07
Het	Chi	60.44	46.72	109.15
Het	df	33	37	71
Het	P	**	N.S.	**
Fixed	RR	1.32	1.25	1.27
	RRl	1.25	1.21	1.23
	RRu	1.39	1.30	1.32
	P	+++	+++	+++
Random	RR	1.34	1.22	1.27
	RRl	1.23	1.15	1.21
	RRu	1.45	1.29	1.33
	P	+++	+++	+++
Between	Chi			2.00
Between	df			1
Between	P			N.S.

Appendix Table C5 - 3

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

		Lifetime Asthma Adjusted			
		Original	Derivation of RR/CI		Total
			Numbers	SumNumbs	Other
RR data	N	30	17	13	12
	NS	30	15	12	11
		Wt	1210.18	535.03	314.88
		1612.98	3673.07		
		Het Chi	48.84	18.12	15.42
		Het df	29	16	12
		Het P	*	N.S.	N.S.
		Het P	*	N.S.	*
		Fixed RR	1.25	1.34	1.17
		RRl	1.18	1.23	1.05
		RRu	1.32	1.45	1.31
		P	+++	+++	++
		Random RR	1.28	1.36	1.16
		RRl	1.18	1.23	1.01
		RRu	1.38	1.50	1.33
		P	+++	+++	+
		Between Chi			
		Between df			
		Between P			

Appendix Table C5 - 4

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

REF	NRR	X	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAW0	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
BENCIV	1	x	b	8	14	all	Eu:Ita	2001	2004	CS	0	Mother	NotMothr	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
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
FAR00Q	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
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	current	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
NILSS0	1		b	13	14	all	Eu:Sca	*	1999	CS	0	AnyPar	NoParent	current	non
OCONE	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
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never
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
RONMA2	1		b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non
RONMA3	1	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
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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
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

Appendix Table C5 - 4

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

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
WARKE	1		b	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non
WICKMA	1	x	b	0	2	all	Eu:Sca	1994	2003	Pr	0	Mother	NotMothr	utero/2m	non
WITHER	2	x	b	14	16	all	Eu:UK	1995	1998	CS	0	Mother	NotMothr	current	non

Appendix Table C5 - 5

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	2	b	0	32	30	70	72	1.10 (	0.60-	1.99)
ALDAW0	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)
BENCIV	1	b	0	290	1162	413	2535	1.53 (	1.30-	1.81)
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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)
NILSS0	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)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
RONMA2	1	b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3	1	b	0	-	-	-	-	1.12 (	0.72-	1.73)
ROSASV	1	b	0	9	6	65	68	1.57 (	0.53-	4.66)
SHAMS2	2	b	0	-	-	-	-	0.99 (	0.81-	1.18)
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)

Appendix Table C5 - 5

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
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)
VERHOE 3		b	0	78	185	39	72	0.78 (	0.49-	1.25)
WARKE 1		b	0	55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA 1		b	0	64	480	251	3212	1.71 (	1.32-	2.21)
WITHER 2		b	0	103	299	395	1442	1.26 (	0.98-	1.61)
Partial Totals				6762	43028	8935	74184			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT 2		b	4	0.51	2.72	0.19	0.3979
ALBA 2		b	0	0.09	10.78	0.26	0.7608
ALDAWO 2		m	0	0.76	8.40	2.20	0.0274
ALFRA1 2		b	0	0.41	22.65	0.60	0.0498
ANDRAE 1		b	0	-0.12	57.05	7.74	0.3670
ANNESI 1		b	0	0.25	89.09	0.00	0.0166
BENCIV 1		b	0	0.43	140.36	4.43	0.0000
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	1.55	1.0000
Subtotal BURCHF				-0.28	57.49	1.58	
BUTZ 4		b	0	0.21	12.89	0.02	0.4416
CHEN2 8		b	0	0.30	20.64	0.06	0.1702
DELL 2		b	0	0.42	18.30	0.53	0.0733
DODGE 9		b	0	0.48	7.26	0.37	0.2000
DOLD 7		b	0	0.19	92.36	0.36	0.0734
ECE 7		b	0	0.12	63.38	1.04	0.3376
EHRLI2 4		b	0	0.69	10.00	1.97	0.0284
FARBE2 1		b	0	0.39	49.72	0.96	0.0062
FAROOQ 1		b	0	0.25	72.93	0.00	0.0297
*FERGUS 7		b	0	0.04	37.52	1.65	0.8106
FORAST 7		b	0	0.31	36.81	0.15	0.0570
GOLD 11		b	0	0.26	211.41	0.01	0.0002
GOREN1 4		b	0	0.36	23.61	0.27	0.0838
GOREN2 2		b	0	0.18	124.95	0.55	0.0411
GORTM1 1		b	0	0.46	43.97	2.02	0.0021
GORTM2 1		b	0	0.63	6.99	1.00	0.0978
HAJNAL 3		b	13	0.15	49.92	0.50	0.2943
HU1 2		b	0	0.20	19.79	0.05	0.3785
HU2 21		b	0	0.84	29.22	10.32	0.0000
JENKIN 1		m	0	0.23	153.77	0.04	0.0040
JENKIN 3		f	0	0.37	112.42	1.70	0.0001
Subtotal JENKIN				0.11	266.19	1.74	
KAY 7		b	0	0.35	42.07	0.43	0.0231
KERSHA 1		b	0	0.89	19.33	7.85	0.0001
KIVITY 4		b	0	0.59	13.44	1.55	0.0311
KUEHR 2		b	0	-0.34	20.93	7.35	0.1158
KUHR 4		b	0	0.70	5.57	1.12	0.0997
LAM1 18		b	4	0.28	10.02	0.01	0.3796
LAM2 9		b	4	-0.14	42.22	6.36	0.3655
*LEEDER 1		b	0	0.30	9.19	0.03	0.3569
LEROUX 1		b	0	0.26	21.30	0.00	0.2285
LIS 1		b	0	0.31	37.30	0.13	0.0604
LISTER 1		b	0	0.39	82.96	1.54	0.0004
*MARTIN 1		m	0	0.49	14.81	0.86	0.0593
*MARTIN 2		f	0	0.58	6.43	0.70	0.1422
Subtotal MARTIN				0.57	21.23	1.56	
*MCCON1 1		b	0	0.04	21.09	0.92	0.8526
MCCON2 1		b	0	0.79	3.43	1.02	0.1420
*MCKEEV 4		b	0	0.27	1119.12	0.54	0.0000
MONTEI 1		b	0	0.22	56.12	0.04	0.0946
MURRAY 1		m	0	0.36	15.96	0.19	0.1513
MURRAY 3		f	0	0.27	9.66	0.01	0.3967

Appendix Table C5 - 5

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

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
Subtotal	MURRAY			0.13	25.62	0.20	
NILSSO	1	b	0	0.00	31.98	1.98	1.0000
OCONNE	1	b	0	0.25	33.98	0.00	0.1384
*PONSON	3	b	0	0.10	101.94	2.33	0.3244
QIAN	1	b	7	0.75	3.96	0.98	0.1372
RASANE	1	b	0	0.40	41.70	0.95	0.0099
RATAGE	2	b	0	-0.24	9.92	2.33	0.4582
RENNIE	1	b	6	0.02	13.41	0.70	0.9422
RONMA2	1	b	7	0.36	43.54	0.52	0.0183
*RONMA3	1	b	0	0.11	20.00	0.37	0.6123
ROSASV	1	b	0	0.45	3.25	0.13	0.4168
SHAMS2	2	b	0	-0.01	108.55	7.27	0.9166
SHAMSS	2	b	0	0.33	79.17	0.51	0.0034
*SHERMA	2	b	2	0.17	19.90	0.14	0.4603
*SIGURS	1	b	0	0.18	3.26	0.01	0.7422
SOYSET	2	b	0	0.69	10.19	1.96	0.0282
STANHO	2	b	0	-0.92	4.90	6.66	0.0423
*TAYLOR	4	b	0	-0.04	72.55	6.09	0.7281
VENNER	6	m	0	0.09	27.66	0.66	0.6182
VENNER	3	f	0	0.18	28.98	0.15	0.3399
Subtotal	VENNER			-0.23	56.63	0.80	
VERHOE	3	b	0	-0.25	17.31	4.32	0.2972
WARKE	1	b	0	-0.12	12.07	1.61	0.6860
*WICKMA	1	b	0	0.53	58.09	4.73	0.0000
WITHER	2	b	0	0.23	61.43	0.02	0.0724

RR data

	N	73
	NS	68
	Wt	3964.40
Het	Chi	115.66
Het	df	72
Het	P	***
Fixed	RR	1.28
	RRl	1.24
	RRu	1.32
	P	+++
Random	RR	1.28
	RRl	1.22
	RRu	1.34
	P	+++
Asymm	P	N.S.

Appendix Table C5 - 6

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

RR data

	N	73						
	NS	68						
	Wt	3964.40						
Het	Chi	115.66						
Het	df	72						
Het	P	***						
Fixed	RR	1.28						
	RRL	1.24						
	RRU	1.32						
	P	+++						
Random	RR	1.28						
	RRL	1.22						
	RRU	1.34						
	P	+++						
Asymm	P	N.S.						
			Sex					
		both	male	female	Total			
	N	62	6	5	73			
	NS	62	6	5	73			
	Wt	3528.84	253.11	182.46	3964.40			
Het	Chi	107.53	3.99	3.76	115.66			
Het	df	61	5	4	72			
Het	P	***	N.S.	N.S.	***			
Fixed	RR	1.28	1.29	1.34	1.28			
	RRL	1.24	1.14	1.16	1.24			
	RRU	1.32	1.46	1.55	1.32			
	P	+++	+++	+++	+++			
Random	RR	1.27	1.29	1.34	1.28			
	RRL	1.20	1.14	1.16	1.22			
	RRU	1.34	1.46	1.55	1.34			
	P	+++	+++	+++	+++			
Between	Chi				0.38			
Between	df				2			
Between	P				N.S.			
			Continent					
	NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total	
	N	22	2	31	12	6	73	
	NS	19	2	31	11	5	68	
	Wt	626.35	59.37	2450.05	335.11	493.52	3964.40	
Het	Chi	20.87	0.16	62.40	14.63	13.85	115.66	
Het	df	21	1	30	11	5	72	
Het	P	N.S.	N.S.	***	N.S.	*	***	
Fixed	RR	1.37	1.27	1.28	1.21	1.27	1.28	
	RRL	1.26	0.98	1.23	1.09	1.16	1.24	
	RRU	1.48	1.63	1.33	1.35	1.38	1.32	
	P	+++	(+)	+++	+++	+++	+++	
Random	RR	1.37	1.27	1.25	1.23	1.23	1.28	
	RRL	1.26	0.98	1.16	1.08	1.04	1.22	
	RRU	1.48	1.63	1.34	1.41	1.44	1.34	
	P	+++	(+)	+++	++	+	+++	
Between	Chi						3.75	
Between	df						4	
Between	P						N.S.	

Appendix Table C5 - 6

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

		Lifetime Asthma Unadjusted					
		Start year of study				Total	
		<1970	1970-79	1980-89	1990+		
RR data							
	N	6	10	21	26	10	73
	NS	4	9	20	25	10	68
	Wt	366.85	491.68	722.51	948.00	1435.37	3964.40
Het	Chi	3.30	17.87	40.07	32.23	20.54	115.66
Het	df	5	9	20	25	9	72
Het	P	N.S.	*	**	N.S.	*	***
Fixed	RR	1.30	1.24	1.33	1.27	1.28	1.28
	RRl	1.17	1.13	1.23	1.19	1.21	1.24
	RRu	1.44	1.35	1.43	1.36	1.35	1.32
	P	+++	+++	+++	+++	+++	+++
Random	RR	1.30	1.23	1.42	1.25	1.22	1.28
	RRl	1.17	1.06	1.26	1.16	1.06	1.22
	RRu	1.44	1.43	1.60	1.35	1.40	1.34
	P	+++	++	+++	+++	++	+++
Between	Chi						1.66
Between	df						4
Between	P						N.S.
		Study type				Total	
		CC	Pr	CS			
	N	9	15	49		73	
	NS	9	14	45		68	
	Wt	129.53	1731.78	2103.10		3964.40	
Het	Chi	18.44	28.95	68.03		115.66	
Het	df	8	14	48		72	
Het	P	*	*	*		***	
Fixed	RR	1.26	1.29	1.28		1.28	
	RRl	1.06	1.23	1.22		1.24	
	RRu	1.50	1.36	1.33		1.32	
	P	++	+++	+++		+++	
Random	RR	1.24	1.29	1.27		1.28	
	RRl	0.94	1.16	1.21		1.22	
	RRu	1.63	1.43	1.35		1.34	
	P	N.S.	+++	+++		+++	
Between	Chi					0.24	
Between	df					2	
Between	P					N.S.	

Appendix Table C5 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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 DEKOK HJERN1 LILLJE RIBEIR WEITZ2	AGABI1 DIJKST HJERN2 LINDFO RONMA1 WILLE1	AGABI2 DOTTER HOST LOPEZC SARRAZ WILLE2	ARSHAD DUHME1 HUGHES MAVALE SCHMIT YANG	AZIZI DUHME2 INFANT MELIA SHIVA ZHENG	BALL DUHME3 JAAKKO MELSOM SHOHAT	BERGMA DUHME4 JANG MILLER SOMERV	CALL EHRLI1 JONES MOHAME SOTOQU	CELEDO FAGBUL KABESC MOUSSA SPENGL	CHHABR FORSB1 KALY02 MUMCUO STERN1	CHINN FORSB2 KARUNA NITTA STODDA	CLARK FORSB3 KNIGHT OHARA STRACH	CSONKA FUJI LAU OLIVET STURM	CUNNI1 GUPTA LEE1 PALMIE TARIQ	DAIGLE HABY LEE2 PETERS TOMINA	DEKKER HALONE LEEN PIC WANG
2	AKCAKA KENDIR SELCUK	ANNES2 LEVES1 SENNHA	ARIF LEVES2 SPIEKE	BARRET LEVES3 SQUILL	BECKET MAIER TIMONE	BRABIN MONTEF TSIMOY	CHEN1 MOYES1 VARELA	FIELDE MOYES2 VAVILI	FLYNN1 NICOLA WIJGA	FLYNN2 ODDY WOLF01	FREEM1 PIROGO WOLF02	FREEM2 POKHAR WOLF03	GURKAN RONCH1	KALY01 RONCH2	KASPER RONCH3	KEARNE RUDNIK
3	CUNNI2	GILLIL	JAAKK2	KAPLAN	KELLY	LEE3	NHANE3	NYSTAD	WEITZ1	XU	YUAN					
5	BURR	DEBENE	GOREN3	GOREN4	GOREN5	GOREN6	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	VONMAF	ZEIGER	ZEJDA	ZHANG
13	ALFRA2	FARBE1	FARBE3													

Appendix Table C5 - 8

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

REF REFGP PRINC			OVERLAP													
MCCON1	MCCON1	1	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													
RONMA2	RONMA1	2	RONMA1/RONMA2/RONMA3													
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3													
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
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	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
ZHANG	1	b	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	1.04	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 C6 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C5 - 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 C6 - 1

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

REF	NRR	CompC5	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAW0	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
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	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
FAR00Q	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
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	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
NILSS0	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
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never
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
RONMA2	1		b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non
RONMA3	2		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
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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
STANH0	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
WARKE	1		b	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non

Appendix Table C6 - 1

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

REF	NRR	CompC5	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
WICKMA	2		b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non
WITHER	4	x	b	14	16	all	Eu:UK	1995	1998	CS	0	Mother	NoHhMemb	current	non

Appendix Table C6 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	2	b	0	32	30	70	72	1.10 (	0.60-	1.99)
ALDAW0	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)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)
NILSS0	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)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
RONMA2	1	b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3	2	b	9	-	-	-	-	1.36 (	0.82-	2.25)
ROSASV	1	b	0	9	6	65	68	1.57 (	0.53-	4.66)
SHAMS2	2	b	0	-	-	-	-	0.99 (	0.81-	1.18)
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)
STANHO	2	b	0	7	169	20	193	0.40 (	0.16-	0.97)

Appendix Table C6 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
*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)
WARKE	1	b	0	55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA	2	b	8	64	-	251	-	1.65 (	1.21-	2.25)
WITHER	4	b	0	103	299	296	1107	1.29 (	1.00-	1.67)
Partial Totals				6762	24407	8502	34345			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.19	0.3979
ALBA	2	b	0	0.09	10.78	0.25	0.7608
ALDAWO	2	m	0	0.76	8.40	2.23	0.0274
ALFRA1	2	b	0	0.41	22.65	0.63	0.0498
ANDRAE	2	b	3	-0.01	54.89	3.59	0.9406
ANNESI	1	b	0	0.25	89.09	0.01	0.0166
BENCIV	3	b	2	0.43	116.67	4.04	0.0000
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	1.51	1.0000
Subtotal	BURCHF			-0.28	57.49	1.54	
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
ECE	2	b	0	0.22	47.66	0.04	0.1329
EHRLI2	4	b	0	0.69	10.00	2.00	0.0284
FARBE2	2	b	3	0.41	57.72	1.60	0.0017
FAROOQ	1	b	0	0.25	72.93	0.01	0.0297
*FERGUS	7	b	0	0.04	37.52	1.60	0.8106
FORAST	20	b	9	0.25	37.10	0.00	0.1327
GOLD	11	b	0	0.26	211.41	0.02	0.0002
GOREN1	1	b	0	0.31	19.03	0.08	0.1764
GOREN2	5	b	2	0.22	99.84	0.09	0.0316
GORTM1	3	b	7	0.40	36.85	0.86	0.0155
GORTM2	1	b	0	0.63	6.99	1.01	0.0978
HAJNAL	3	b	13	0.15	49.92	0.47	0.2943
HU1	4	b	7	-0.22	12.73	2.80	0.4259
HU2	23	b	3	0.44	31.16	1.16	0.0144
JENKIN	5	b	7	0.23	116.41	0.02	0.0126
KAY	20	b	1	0.35	38.89	0.43	0.0288
KERSHA	6	b	1	1.28	10.88	11.73	0.0000
KIVITY	4	b	0	0.59	13.44	1.57	0.0311
KUEHR	6	b	1	-0.39	19.88	7.92	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	6.25	0.3655
*LEEDER	2	b	1	0.29	8.17	0.01	0.4149
LEROUX	2	b	10	0.58	14.02	1.59	0.0293
LIS	1	b	0	0.31	37.30	0.14	0.0604
LISTER	3	b	8	0.42	64.33	1.93	0.0008
*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	1.63	0.9600
MCCON2	1	b	0	0.79	3.43	1.03	0.1420
*MCKEEV	4	b	0	0.27	1119.12	0.71	0.0000
MONTEI	1	b	0	0.22	56.12	0.03	0.0946
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			0.12	22.78	0.14	
NILSSO	1	b	0	0.00	31.98	1.93	1.0000
OCONNE	1	b	0	0.25	33.98	0.00	0.1384
*PONSON	9	b	0	0.12	76.77	1.12	0.2736

Appendix Table C6 - 2

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

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
QIAN	1	b	7	0.75	3.96	1.00	0.1372
RASANE	3	b	3	0.46	27.24	1.30	0.0155
RATAGE	3	b	0	-0.09	9.55	1.11	0.7697
RENNIE	1	b	6	0.02	13.41	0.68	0.9422
RONMA2	1	b	7	0.36	43.54	0.55	0.0183
*RONMA3	2	b	9	0.31	15.08	0.06	0.2324
ROSASV	1	b	0	0.45	3.25	0.14	0.4168
SHAMS2	2	b	0	-0.01	108.55	7.09	0.9166
SHAMSS	2	b	0	0.33	79.17	0.55	0.0034
*SHERMA	2	b	2	0.17	19.90	0.13	0.4603
*SIGURS	1	b	0	0.18	3.26	0.01	0.7422
SOYSET	14	b	5	1.03	6.43	3.95	0.0090
STANHO	2	b	0	-0.92	4.90	6.63	0.0423
*TAYLOR	4	b	0	-0.04	72.55	5.95	0.7281
VENNER	6	m	0	0.09	27.66	0.63	0.6182
VENNER	3	f	0	0.18	28.98	0.14	0.3399
Subtotal	VENNER			-0.22	56.63	0.76	
VERHOE	3	b	0	-0.25	17.31	4.26	0.2972
WARKE	1	b	0	-0.12	12.07	1.58	0.6860
*WICKMA	2	b	8	0.50	39.93	2.60	0.0016
WITHER	4	b	0	0.25	57.69	0.00	0.0543

RR data

	N	72
	NS	68
	Wt	3620.73
Het	Chi	106.30
Het	df	71
Het	P	**
Fixed	RR	1.28
	RRl	1.24
	RRu	1.32
	P	+++
Random	RR	1.27
	RRl	1.21
	RRu	1.34
	P	+++
Asymm	P	N.S.

Appendix Table C6 - 3

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

RR data

	N	72			
	NS	68			
	Wt	3620.73			
Het	Chi	106.30			
Het	df	71			
Het	P	**			
Fixed	RR	1.28			
	RRl	1.24			
	RRu	1.32			
	P	+++			
Random	RR	1.27			
	RRl	1.21			
	RRu	1.34			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both		male	female	Total
	N	63	5	4	72
	NS	63	5	4	72
	Wt	3457.95	94.79	68.00	3620.73
Het	Chi	99.38	4.01	2.27	106.30
Het	df	62	4	3	71
Het	P	**	N.S.	N.S.	**
Fixed	RR	1.28	1.34	1.18	1.28
	RRl	1.24	1.09	0.93	1.24
	RRu	1.32	1.64	1.50	1.32
	P	+++	++	N.S.	+++
Random	RR	1.27	1.34	1.18	1.27
	RRl	1.21	1.09	0.93	1.21
	RRu	1.34	1.64	1.50	1.34
	P	+++	++	N.S.	+++
Between	Chi				0.64
Between	df				2
Between	P				N.S.

Appendix Table C6 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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 DEKOK HJERN1 LILLJE RIBEIR WEITZ2	AGABI1 DIJKST HJERN2 LINDFO RONMA1 WILLE1	AGABI2 DOTTER HOST LOPEZC SARRAZ WILLE2	ARSHAD DUHME1 HUGHES MAVALE SCHMIT YANG	AZIZI DUHME2 INFANT MELIA SHIVA ZHENG	BALL DUHME3 JAAKKO MELSOM SHOHAT	BERGMA DUHME4 JANG MILLER SOMERV	CALL EHRLI1 JONES MOHAME SOTOQU	CELEDO FAGBUL KABESC MOUSSA SPENGL	CHHABR FORSB1 KALY02 MUMCUO STERN1	CHINN FORSB2 KARUNA NITTA STODDA	CLARK FORSB3 KNIGHT OHARA STRACH	CSONKA FUJI LAU OLIVET STURM	CUNNI1 GUPTA LEE1 PALMIE TARIQ	DAIGLE HABY LEE2 PETERS TOMINA	DEKKER HALONE LEEN PIC WANG
2	AKCAKA KENDIR SELCUK	ANNES2 LEVES1 SENNHA	ARIF LEVES2 SPIEKE	BARRET LEVES3 SQUILL	BECKET MAIER TIMONE	BRABIN MONTEF TSIMOY	CHEN1 MOYES1 VARELA	FIELDE MOYES2 VAVILI	FLYNN1 NICOLA WIJGA	FLYNN2 ODDY WOLF01	FREEM1 PIROGO WOLF02	FREEM2 POKHAR WOLF03	GURKAN RONCH1	KALY01 RONCH2	KASPER RONCH3	KEARNE RUDNIK
3	CUNNI2	GILLIL	JAAKK2	KAPLAN	KELLY	LEE3	NHANE3	NYSTAD	WEITZ1	XU	YUAN					
5	BURR	DEBENE	GOREN3	GOREN4	GOREN5	GOREN6	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	VONMAF	ZEIGER	ZEJDA	ZHANG
13	ALFRA2	FARBE1	FARBE3													

Appendix Table C6 - 8

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

REF REFGP PRINC			OVERLAP												
MCCON1	MCCON1	1	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												
RONMA2	RONMA1	2	RONMA1/RONMA2/RONMA3												
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3												
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
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	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
ZHANG	1	b	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	1.04 n

Appendix Table C7 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C3 - 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 C7 - 1

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

REF	NRR	CompC3	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
AGUDOT	4		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	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
JANG	1		b	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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
MAVALE	7		b	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	unspec	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
RONMA1	1		b	7	8	all	Eu:Sca	1996	1998	CS	5	Mother	NotMothr	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	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
SPENGL	2		b	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	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 C7 - 2

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

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed		Case	Control			
AGABI1	14	b	11	558	-	148	-	1.34 (	1.11-	1.62)
AGABI2	14	b	12	700	-	203	-	1.17 (	0.99-	1.39)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)
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)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
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)
RONMA1	1	b	5	-	-	-	-	1.60 (	1.12-	2.28)
SCHMIT	1	b	4	-	-	-	-	2.07 (	1.21-	3.54)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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)
SPENGL	2	b	5	-	-	-	-	1.22 (	0.75-	2.03)
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				3570	4188	4801	8667			
*prospective study				~ With 0.5 adjustment for zero						

Appendix Table C7 - 2

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

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	14	b	11	0.29	107.50	1.20	0.0024
AGABI2	14	b	12	0.16	133.43	0.12	0.0697
AGUDOT	4	b	4	1.18	3.39	3.38	0.0291
ARSHAD	1	b	7	1.20	1.82	1.88	0.1044
CHEN2	47	b	1	0.10	15.22	0.10	0.6839
DAIGLE	3	b	7	0.67	11.64	2.75	0.0217
FAGBUL	2	b	1	0.34	14.40	0.35	0.1923
GILLIL	36	b	8	-0.11	12.73	1.09	0.7070
GOLD	7	b	11	-0.01	124.12	4.83	0.9108
HABY	4	b	9	0.48	13.60	1.19	0.0752
HJERN1	13	b	9	-0.33	34.86	9.27	0.0524
HJERN2	13	b	9	-0.06	22.00	1.36	0.7716
HOST	1	b	0	-0.12	7.87	0.72	0.7459
HU1	6	b	0	0.02	14.41	0.39	0.9302
HU2	24	b	3	0.39	22.17	0.87	0.0697
INFANT	10	b	19	0.34	25.97	0.58	0.0864
JANG	1	b	0	0.46	26.78	2.01	0.0170
JONES	2	b	0	0.16	9.47	0.01	0.6266
LAM1	20	b	4	0.76	3.25	1.05	0.1727
LAM2	12	b	4	-0.37	11.81	3.68	0.2022
LAU	1	b	0	0.30	5.74	0.07	0.4716
LEEN	1	b	0	-0.28	12.81	2.80	0.3157
LILLJE	1	b	0	0.09	42.18	0.44	0.5801
LINDFO	1	b	0	0.50	29.55	2.90	0.0065
MAVALE	7	b	0	0.78	9.68	3.40	0.0153
MOUSSA	1	b	0	1.10	0.37	0.31	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.54	0.0258
OHARA	6	b	4	-0.09	34.25	2.71	0.5810
PALMIE	3	b	0	-0.00	30.71	1.09	0.9963
PIC	1	b	0	0.09	26.03	0.24	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMA1	1	b	5	0.47	30.41	2.43	0.0095
SCHMIT	1	b	4	0.73	13.33	3.89	0.0079
SHIVA	1	b	0	0.39	4.36	0.18	0.4160
SHOHAT	4	b	12	0.19	64.12	0.00	0.1269
SOTOQU	1	b	0	0.42	46.33	2.57	0.0040
SPENGL	2	b	5	0.20	15.50	0.00	0.4337
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	1.80	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	7	b	0	0.68	6.06	1.45	0.0955
ZHENG	26	b	0	0.71	6.34	1.73	0.0739

RR data

	N	45
	NS	45
	Wt	1190.84
Het	Chi	80.44
Het	df	44
Het	P	***
Fixed	RR	1.21
	RRl	1.14
	RRu	1.28
	P	+++
Random	RR	1.21
	RRl	1.11
	RRu	1.33
	P	+++
Asymm	P	N.S.

Appendix Table C7 - 3

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

RR data

	N	45						
	NS	45						
	Wt	1190.84						
Het	Chi	80.44						
Het	df	44						
Het	P	***						
Fixed	RR	1.21						
	RRl	1.14						
	RRu	1.28						
	P	+++						
Random	RR	1.21						
	RRl	1.11						
	RRu	1.33						
	P	+++						
Asymm	P	N.S.						
			<u>Sex</u>					
		both	male	female				Total
	N	45						45
	NS	45						45
	Wt	1190.84						1190.84
Het	Chi	80.44						80.44
Het	df	44						44
Het	P	***						***
Fixed	RR	1.21						1.21
	RRl	1.14						1.14
	RRu	1.28						1.28
	P	+++						+++
Random	RR	1.21						1.21
	RRl	1.11						1.11
	RRu	1.33						1.33
	P	+++						+++
Between	Chi							
Between	df							
Between	P							N.S.
			<u>Continent</u>					
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	9	2	19	11	2	2	45
	NS	9	2	19	11	2	2	45
	Wt	362.42	54.09	573.67	159.32	17.26	24.08	1190.84
Het	Chi	12.44	0.38	34.81	19.96	6.52	1.10	80.44
Het	df	8	1	18	10	1	1	44
Het	P	N.S.	N.S.	**	*	*	N.S.	***
Fixed	RR	1.19	1.47	1.19	1.16	1.18	1.68	1.21
	RRl	1.08	1.13	1.09	1.00	0.73	1.13	1.14
	RRu	1.32	1.92	1.29	1.36	1.89	2.51	1.28
	P	+++	++	+++	(+)	N.S.	+	+++
Random	RR	1.21	1.47	1.19	1.16	0.82	1.69	1.21
	RRl	1.04	1.13	1.04	0.88	0.19	1.11	1.11
	RRu	1.41	1.92	1.35	1.53	3.54	2.57	1.33
	P	+	++	++	N.S.	N.S.	+	+++
Between	Chi							5.23
Between	df							5
Between	P							N.S.

Appendix Table C7 - 3

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

		Current Asthma Adjusted						
		Country in Europe					Total	
		UK	Italy	Germany	Scand	othWest	East/Bal	
RR data	N	4	3		7	4	1	19
	NS	4	3		7	4	1	19
	Wt	58.03	271.64		172.93	55.57	15.50	573.67
	Het Chi	3.42	2.39		18.09	10.23	0.00	34.81
	Het df	3	2		6	3	0	18
	Het P	N.S.	N.S.		**	*	N.S.	**
Fixed	RR	1.13	1.21		1.14	1.25	1.22	1.19
	RRl	0.88	1.08		0.98	0.96	0.74	1.09
	RRu	1.46	1.37		1.33	1.63	2.01	1.29
	P	N.S.	++		(+)	(+)	N.S.	+++
Random	RR	1.14	1.21		1.16	1.39	1.22	1.19
	RRl	0.85	1.06		0.89	0.82	0.74	1.04
	RRu	1.51	1.38		1.53	2.36	2.01	1.35
	P	N.S.	++		N.S.	N.S.	N.S.	++
Between	Chi							0.68
Between	df							4
Between	P							N.S.
		Country in Asia				Total		
		FarEast	Cent/SE	MidlEast				
	N	7		4	11			
	NS	7		4	11			
	Wt	90.02		69.30	159.32			
	Het Chi	13.79		6.04	19.96			
	Het df	6		3	10			
	Het P	*		N.S.	*			
Fixed	RR	1.14		1.20	1.16			
	RRl	0.92		0.95	1.00			
	RRu	1.40		1.52	1.36			
	P	N.S.		N.S.	(+)			
Random	RR	1.16		1.07	1.16			
	RRl	0.81		0.47	0.88			
	RRu	1.66		2.44	1.53			
	P	N.S.		N.S.	N.S.			
Between	Chi				0.13			
Between	df				1			
Between	P				N.S.			
		Start year of study				Total		
		<1970	1970-79	1980-89	1990+	unknown		
	N		3	11	27	4	45	
	NS		3	11	27	4	45	
	Wt		129.62	286.89	686.94	87.39	1190.84	
	Het Chi		5.52	15.11	42.27	3.27	80.44	
	Het df		2	10	26	3	44	
	Het P		(*)	N.S.	*	N.S.	***	
Fixed	RR		0.95	1.40	1.18	1.26	1.21	
	RRl		0.80	1.24	1.09	1.02	1.14	
	RRu		1.13	1.57	1.27	1.56	1.28	
	P		N.S.	+++	+++	+	+++	
Random	RR		0.60	1.41	1.18	1.26	1.21	
	RRl		0.27	1.19	1.05	1.01	1.11	
	RRu		1.36	1.66	1.31	1.58	1.33	
	P		N.S.	+++	++	+	+++	
Between	Chi						14.28	
Between	df						3	
Between	P						**	

Appendix Table C7 - 3

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

						Current Asthma Adjusted

Appendix Table C7 - 3

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

		Current Asthma Adjusted				
		general	Population setting			Total
			school	medical	allergy	other
RR data						
N		6	26	12	1	45
NS		6	26	12	1	45
Wt		229.15	773.55	186.31	1.82	1190.84
Het	Chi	14.90	41.47	20.09	0.00	80.44
Het	df	5	25	11	0	44
Het	P	*	*	*	N.S.	***
Fixed	RR	1.15	1.20	1.32	3.33	1.21
	RRl	1.01	1.11	1.14	0.78	1.14
	RRu	1.31	1.28	1.52	14.23	1.28
	P	+	+++	+++	N.S.	+++
Random	RR	1.06	1.21	1.35	3.33	1.21
	RRl	0.82	1.09	1.09	0.78	1.11
	RRu	1.38	1.34	1.67	14.23	1.33
	P	N.S.	+++	++	N.S.	+++
Between	Chi					3.97
Between	df					3
Between	P					N.S.
Respondent for ETS exposure						
		child	parent	med rec	mix/oth	Total
N		6	27		12	45
NS		6	27		12	45
Wt		113.02	728.88		348.94	1190.84
Het	Chi	15.44	45.26		19.66	80.44
Het	df	5	26		11	44
Het	P	**	*		(*)	***
Fixed	RR	1.22	1.21		1.19	1.21
	RRl	1.02	1.12		1.07	1.14
	RRu	1.47	1.30		1.33	1.28
	P	+	+++		+++	+++
Random	RR	1.19	1.21		1.22	1.21
	RRl	0.79	1.09		1.02	1.11
	RRu	1.81	1.35		1.46	1.33
	P	N.S.	+++		+	+++
Between	Chi					0.07
Between	df					2
Between	P					N.S.
Child smokers						
		exc/none	included	ignored		Total
N		7	8	30		45
NS		7	8	30		45
Wt		176.60	330.93	683.31		1190.84
Het	Chi	18.11	9.70	49.39		80.44
Het	df	6	7	29		44
Het	P	**	N.S.	*		***
Fixed	RR	1.15	1.13	1.26		1.21
	RRl	1.00	1.01	1.17		1.14
	RRu	1.34	1.25	1.36		1.28
	P	(+)	+	+++		+++
Random	RR	1.04	1.16	1.26		1.21
	RRl	0.74	0.99	1.13		1.11
	RRu	1.47	1.35	1.40		1.33
	P	N.S.	(+)	+++		+++
Between	Chi					3.23
Between	df					2
Between	P					N.S.

Appendix Table C7 - 3

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

Current Asthma
AdjustedPhysician diagnosis (current)
yes no/mix Total

RR data

N	18	27	45
NS	18	27	45
Wt	239.61	951.23	1190.84
Het Chi	38.61	41.78	80.44
Het df	17	26	44
Het P	**	*	***
Fixed RR	1.22	1.20	1.21
RRl	1.08	1.13	1.14
RRu	1.39	1.28	1.28
P	++	+++	+++
Random RR	1.28	1.20	1.21
RRl	1.03	1.09	1.11
RRu	1.58	1.31	1.33
P	+	+++	+++
Between Chi			0.05
Between df			1
Between P			N.S.

Respondent for diagnosis (current)
medrec parent child mixed Total

N	12	23	10	45
NS	12	23	10	45
Wt	141.97	842.41	206.46	1190.84
Het Chi	19.70	29.95	25.49	80.44
Het df	11	22	9	44
Het P	*	N.S.	**	***
Fixed RR	1.41	1.20	1.10	1.21
RRl	1.19	1.12	0.96	1.14
RRu	1.66	1.29	1.26	1.28
P	+++	+++	N.S.	+++
Random RR	1.43	1.20	1.09	1.21
RRl	1.11	1.10	0.84	1.11
RRu	1.84	1.31	1.41	1.33
P	++	+++	N.S.	+++
Between Chi				5.30
Between df				2
Between P				(*)

Questionnaire for symptoms
ISAAC ATS other Total

N	9	2	34	45
NS	9	2	34	45
Wt	414.09	135.83	640.91	1190.84
Het Chi	9.33	0.15	64.26	80.44
Het df	8	1	33	44
Het P	N.S.	N.S.	***	***
Fixed RR	1.29	1.00	1.20	1.21
RRl	1.17	0.85	1.11	1.14
RRu	1.42	1.18	1.30	1.28
P	+++	N.S.	+++	+++
Random RR	1.30	1.00	1.18	1.21
RRl	1.17	0.85	1.05	1.11
RRu	1.46	1.18	1.34	1.33
P	+++	N.S.	++	+++
Between Chi				6.71
Between df				2
Between P				*

Appendix Table C7 - 3

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

Current Asthma
Adjusted
Number of cases (current asthma)
1-50 51-100 101-200 201+ unknown Total

RR data

N	8	10	11	15	1	45
NS	8	10	11	15	1	45
Wt	48.98	116.51	248.76	773.19	3.39	1190.84
Het Chi	9.68	16.65	27.03	23.22	0.00	80.44
Het df	7	9	10	14	0	44
Het P	N.S.	(*)	**	(*)	N.S.	***
Fixed RR	1.17	1.17	1.17	1.22	3.27	1.21
RRl	0.89	0.98	1.03	1.14	1.13	1.14
RRu	1.55	1.41	1.32	1.31	9.48	1.28
P	N.S.	(+)	+	+++	+	+++
Random RR	1.18	1.19	1.20	1.23	3.27	1.21
RRl	0.84	0.92	0.97	1.11	1.13	1.11
RRu	1.65	1.53	1.47	1.36	9.48	1.33
P	N.S.	N.S.	(+)	+++	+	+++
Between Chi						3.85
Between df						4
Between P						N.S.

Study adjusts for or is matched on sex
Yes No Total

N	31	14	45
NS	31	14	45
Wt	961.29	229.55	1190.84
Het Chi	57.72	20.35	80.44
Het df	30	13	44
Het P	**	(*)	***
Fixed RR	1.18	1.32	1.21
RRl	1.11	1.16	1.14
RRu	1.26	1.50	1.28
P	+++	+++	+++
Random RR	1.19	1.30	1.21
RRl	1.07	1.08	1.11
RRu	1.31	1.55	1.33
P	++	++	+++
Between Chi			2.36
Between df			1
Between P			N.S.

Study adjusts for or is matched on age

N	26	19	45
NS	26	19	45
Wt	834.96	355.88	1190.84
Het Chi	55.63	23.67	80.44
Het df	25	18	44
Het P	***	N.S.	***
Fixed RR	1.18	1.26	1.21
RRl	1.10	1.14	1.14
RRu	1.26	1.40	1.28
P	+++	+++	+++
Random RR	1.20	1.26	1.21
RRl	1.06	1.10	1.11
RRu	1.35	1.43	1.33
P	++	+++	+++
Between Chi			1.14
Between df			1
Between P			N.S.

Appendix Table C7 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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	38	45
NS	7	38	45
Wt	368.33	822.50	1190.84
Het Chi	10.55	69.66	80.44
Het df	6	37	44
Het P	N.S.	***	***
Fixed RR	1.18	1.22	1.21
RRl	1.07	1.14	1.14
RRu	1.31	1.30	1.28
P	++	+++	+++
Random RR	1.19	1.22	1.21
RRl	1.02	1.10	1.11
RRu	1.40	1.36	1.33
P	+	+++	+++
Between Chi			0.23
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	16	29	45
NS	16	29	45
Wt	750.81	440.03	1190.84
Het Chi	34.16	45.33	80.44
Het df	15	28	44
Het P	**	*	***
Fixed RR	1.18	1.25	1.21
RRl	1.10	1.14	1.14
RRu	1.27	1.37	1.28
P	+++	+++	+++
Random RR	1.17	1.26	1.21
RRl	1.03	1.11	1.11
RRu	1.32	1.43	1.33
P	+	+++	+++
Between Chi			0.94
Between df			1
Between P			N.S.

Study adjusts for or is matched on SES

N	17	28	45
NS	17	28	45
Wt	771.08	419.76	1190.84
Het Chi	30.03	49.25	80.44
Het df	16	27	44
Het P	*	**	***
Fixed RR	1.18	1.26	1.21
RRl	1.10	1.14	1.14
RRu	1.26	1.38	1.28
P	+++	+++	+++
Random RR	1.18	1.24	1.21
RRl	1.06	1.08	1.11
RRu	1.32	1.43	1.33
P	++	++	+++
Between Chi			1.16
Between df			1
Between P			N.S.

Appendix Table C7 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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	15	30	45
	NS	15	30	45
	Wt	615.69	575.14	1190.84
Het	Chi	22.21	57.90	80.44
Het	df	14	29	44
Het	P	(*)	**	***
Fixed	RR	1.19	1.23	1.21
	RRl	1.10	1.13	1.14
	RRu	1.28	1.33	1.28
	P	+++	+++	+++
Random	RR	1.21	1.20	1.21
	RRl	1.08	1.05	1.11
	RRu	1.36	1.37	1.33
	P	+++	++	+++
Between	Chi			0.33
Between	df			1
Between	P			N.S.

Study adjusts for family composition

	N	8	37	45
	NS	8	37	45
	Wt	432.62	758.22	1190.84
Het	Chi	17.64	57.10	80.44
Het	df	7	36	44
Het	P	*	*	***
Fixed	RR	1.10	1.27	1.21
	RRl	1.00	1.18	1.14
	RRu	1.21	1.36	1.28
	P	+	+++	+++
Random	RR	1.07	1.27	1.21
	RRl	0.91	1.15	1.11
	RRu	1.26	1.41	1.33
	P	N.S.	+++	+++
Between	Chi			5.70
Between	df			1
Between	P			*

Study adjusts for cooking, heating, air conditioning

	N	7	38	45
	NS	7	38	45
	Wt	443.71	747.13	1190.84
Het	Chi	13.38	67.06	80.44
Het	df	6	37	44
Het	P	*	**	***
Fixed	RR	1.21	1.21	1.21
	RRl	1.10	1.12	1.14
	RRu	1.32	1.30	1.28
	P	+++	+++	+++
Random	RR	1.28	1.19	1.21
	RRl	1.09	1.07	1.11
	RRu	1.49	1.32	1.33
	P	++	++	+++
Between	Chi			0.00
Between	df			1
Between	P			N.S.

Appendix Table C7 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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	37	45
	NS	8	37	45
	Wt	435.06	755.77	1190.84
Het	Chi	5.11	74.66	80.44
Het	df	7	36	44
Het	P	N.S.	***	***
Fixed	RR	1.24	1.18	1.21
	RRl	1.13	1.10	1.14
	RRu	1.37	1.27	1.28
	P	+++	+++	+++
Random	RR	1.24	1.20	1.21
	RRl	1.13	1.07	1.11
	RRu	1.37	1.36	1.33
	P	+++	++	+++
Between	Chi			0.66
Between	df			1
Between	P			N.S.

Study adjusts for pets, animal contact, farming

	N	6	39	45
	NS	6	39	45
	Wt	152.99	1037.84	1190.84
Het	Chi	8.03	70.84	80.44
Het	df	5	38	44
Het	P	N.S.	***	***
Fixed	RR	1.33	1.19	1.21
	RRl	1.13	1.12	1.14
	RRu	1.55	1.26	1.28
	P	+++	+++	+++
Random	RR	1.36	1.19	1.21
	RRl	1.09	1.08	1.11
	RRu	1.69	1.31	1.33
	P	++	+++	+++
Between	Chi			1.56
Between	df			1
Between	P			N.S.

Study adjusts for child's medical history

	N	10	35	45
	NS	10	35	45
	Wt	152.57	1038.27	1190.84
Het	Chi	12.12	68.27	80.44
Het	df	9	34	44
Het	P	N.S.	***	***
Fixed	RR	1.22	1.20	1.21
	RRl	1.04	1.13	1.14
	RRu	1.44	1.28	1.28
	P	+	+++	+++
Random	RR	1.25	1.20	1.21
	RRl	1.03	1.09	1.11
	RRu	1.51	1.33	1.33
	P	+	+++	+++
Between	Chi			0.04
Between	df			1
Between	P			N.S.

Appendix Table C7 - 3

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

Current Asthma
AdjustedStudy adjusts for in utero exposure
Yes No Total

RR data

	N	6	39	45
	NS	6	39	45
	Wt	300.70	890.13	1190.84
Het	Chi	5.74	74.70	80.44
Het	df	5	38	44
Het	P	N.S.	***	***
Fixed	RR	1.20	1.21	1.21
	RRl	1.08	1.13	1.14
	RRu	1.35	1.29	1.28
	P	++	+++	+++
Random	RR	1.20	1.23	1.21
	RRl	1.05	1.11	1.11
	RRu	1.36	1.36	1.33
	P	++	+++	+++
Between	Chi			0.00
Between	df			1
Between	P			N.S.

Study adjusts for in life exposure

	N	14	31	45
	NS	14	31	45
	Wt	547.83	643.01	1190.84
Het	Chi	18.32	57.20	80.44
Het	df	13	30	44
Het	P	N.S.	**	***
Fixed	RR	1.29	1.14	1.21
	RRl	1.19	1.05	1.14
	RRu	1.41	1.23	1.28
	P	+++	++	+++
Random	RR	1.31	1.15	1.21
	RRl	1.17	1.02	1.11
	RRu	1.47	1.30	1.33
	P	+++	+	+++
Between	Chi			4.92
Between	df			1
Between	P			*

Exposed group : who is smoker

AnyPar Mother Father Total

	N	19	23	3	45
	NS	19	23	3	45
	Wt	547.85	604.82	38.17	1190.84
Het	Chi	23.02	51.74	1.94	80.44
Het	df	18	22	2	44
Het	P	N.S.	***	N.S.	***
Fixed	RR	1.24	1.20	0.90	1.21
	RRl	1.14	1.11	0.65	1.14
	RRu	1.35	1.30	1.24	1.28
	P	+++	+++	N.S.	+++
Random	RR	1.25	1.21	0.90	1.21
	RRl	1.12	1.05	0.65	1.11
	RRu	1.39	1.40	1.24	1.33
	P	+++	+	N.S.	+++
Between	Chi				3.74
Between	df				2
Between	P				N.S.

Appendix Table C7 - 3

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

		Current Asthma Adjusted					
		Exposed group : when Exposed					Total
		lif/ev	age<7y	current	unspec	other	
RR data	N	11	2	14	17	1	45
	NS	11	2	14	17	1	45
	Wt	272.63	43.15	543.70	309.18	22.17	1190.84
Het	Chi	18.76	0.00	21.05	28.45	0.00	80.44
Het	df	10	1	13	16	0	44
Het	P	*	N.S.	(*)	*	N.S.	***
Fixed	RR	1.04	1.64	1.22	1.27	1.47	1.21
	RRl	0.92	1.22	1.13	1.13	0.97	1.14
	RRu	1.17	2.21	1.33	1.42	2.23	1.28
	P	N.S.	++	+++	+++	(+)	+++
Random	RR	1.11	1.64	1.18	1.29	1.47	1.21
	RRl	0.92	1.22	1.04	1.09	0.97	1.11
	RRu	1.36	2.21	1.34	1.52	2.23	1.33
	P	N.S.	++	+	++	(+)	+++
Between	Chi						12.18
Between	df						4
Between	P						*
		Unexposed group : who is smoker					Total
		NoHhMemb	NoParent	NotSpPar			
		N	5	19	21	45	
		NS	5	19	21	45	
	Wt	33.99	547.85	609.00	1190.84		
Het	Chi	5.98	23.02	48.09	80.44		
Het	df	4	18	20	44		
Het	P	N.S.	N.S.	***	***		
Fixed	RR	0.90	1.24	1.20	1.21		
	RRl	0.64	1.14	1.10	1.14		
	RRu	1.26	1.35	1.29	1.28		
	P	N.S.	+++	+++	+++		
Random	RR	0.93	1.25	1.21	1.21		
	RRl	0.60	1.12	1.05	1.11		
	RRu	1.45	1.39	1.40	1.33		
	P	N.S.	+++	++	+++		
Between	Chi				3.35		
Between	df				2		
Between	P				N.S.		
		Unexposed group : time				Total	
		non	never	non+othr			
		N	38	7		45	
		NS	38	7		45	
	Wt	750.30	440.53		1190.84		
Het	Chi	58.20	16.90		80.44		
Het	df	37	6		44		
Het	P	*	**		***		
Fixed	RR	1.27	1.10		1.21		
	RRl	1.18	1.01		1.14		
	RRu	1.36	1.21		1.28		
	P	+++	+		+++		
Random	RR	1.26	1.08		1.21		
	RRl	1.14	0.90		1.11		
	RRu	1.39	1.30		1.33		
	P	+++	N.S.		+++		
Between	Chi				5.34		
Between	df				1		
Between	P				*		

Appendix Table C7 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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	21	3		9	7	5	45
	NS	21	3		9	7	5	45
	Wt	304.11	48.65		161.83	221.10	455.15	1190.84
	Het Chi	33.88	1.74		17.42	19.34	6.35	80.44
	Het df	20	2		8	6	4	44
	Het P	*	N.S.		*	**	N.S.	***
Fixed	RR	1.24	1.09		1.28	1.20	1.17	1.21
	RRl	1.11	0.83		1.10	1.05	1.07	1.14
	RRu	1.39	1.45		1.50	1.37	1.28	1.28
	P	+++	N.S.		++	++	+++	+++
Random	RR	1.21	1.09		1.33	1.19	1.18	1.21
	RRl	1.03	0.83		1.04	0.89	1.05	1.11
	RRu	1.43	1.45		1.70	1.60	1.33	1.33
	P	+	N.S.		+	N.S.	++	+++
Between	Chi							1.70
Between	df							4
Between	P							N.S.
		<u>RR adjusted for sex</u>						
		Yes	No	Total				
	N	21	24	45				
	NS	21	24	45				
	Wt	838.08	352.76	1190.84				
	Het Chi	44.08	36.30	80.44				
	Het df	20	23	44				
	Het P	**	*	***				
Fixed	RR	1.20	1.22	1.21				
	RRl	1.12	1.10	1.14				
	RRu	1.28	1.35	1.28				
	P	+++	+++	+++				
Random	RR	1.22	1.20	1.21				
	RRl	1.09	1.04	1.11				
	RRu	1.37	1.38	1.33				
	P	+++	+	+++				
Between	Chi			0.06				
Between	df			1				
Between	P			N.S.				
		<u>RR adjusted for age</u>						
	N	16	29	45				
	NS	16	29	45				
	Wt	705.95	484.88	1190.84				
	Het Chi	36.99	41.63	80.44				
	Het df	15	28	44				
	Het P	**	*	***				
Fixed	RR	1.17	1.26	1.21				
	RRl	1.08	1.16	1.14				
	RRu	1.26	1.38	1.28				
	P	+++	+++	+++				
Random	RR	1.17	1.25	1.21				
	RRl	1.02	1.12	1.11				
	RRu	1.34	1.41	1.33				
	P	+	+++	+++				
Between	Chi			1.82				
Between	df			1				
Between	P			N.S.				

Appendix Table C7 - 3

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

RR adjusted for other ETS
Yes No Total

RR data

N	8	37	45
NS	8	37	45
Wt	491.49	699.35	1190.84
Het Chi	8.42	69.30	80.44
Het df	7	36	44
Het P	N.S.	***	***
Fixed RR	1.28	1.16	1.21
RRl	1.17	1.08	1.14
RRu	1.39	1.25	1.28
P	+++	+++	+++
Random RR	1.28	1.19	1.21
RRl	1.15	1.06	1.11
RRu	1.42	1.33	1.33
P	+++	++	+++
Between Chi			2.72
Between df			1
Between P			(*)

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

N	22	23	45
NS	22	23	45
Wt	864.30	326.54	1190.84
Het Chi	41.13	39.14	80.44
Het df	21	22	44
Het P	**	*	***
Fixed RR	1.20	1.23	1.21
RRl	1.12	1.10	1.14
RRu	1.28	1.37	1.28
P	+++	+++	+++
Random RR	1.21	1.21	1.21
RRl	1.09	1.03	1.11
RRu	1.35	1.42	1.33
P	+++	+	+++
Between Chi			0.16
Between df			1
Between P			N.S.

	Original	Derivation of RR/CI		Other	Total
		Numbers	SumNumbs		
N	15	10	7	13	45
NS	15	10	7	13	45
Wt	531.14	171.43	108.59	379.67	1190.84
Het Chi	16.63	12.97	12.67	30.73	80.44
Het df	14	9	6	12	44
Het P	N.S.	N.S.	*	**	***
Fixed RR	1.28	1.30	1.16	1.08	1.21
RRl	1.18	1.12	0.96	0.98	1.14
RRu	1.39	1.51	1.40	1.20	1.28
P	+++	+++	N.S.	N.S.	+++
Random RR	1.29	1.27	1.14	1.12	1.21
RRl	1.16	1.05	0.84	0.93	1.11
RRu	1.43	1.54	1.53	1.35	1.33
P	+++	+	N.S.	N.S.	+++
Between Chi					7.43
Between df					3
Between P					(*)

Appendix Table C7 - 4

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

REF	NRR	X	SEX	AGE	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
AGUDOT	4		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	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	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
JANG	1		b	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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
MAVALE	7		b	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	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
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
RONMA1	1		b	7	8	all	Eu:Sca	1996	1998	CS	5	Mother	NotMothr	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	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
SPENGL	2		b	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	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 C7 - 5

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
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)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)
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)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
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)
RONMA1	1	b	5	-	-	-	-	1.60 (	1.12-	2.28)
SCHMIT	1	b	4	-	-	-	-	2.07 (	1.21-	3.54)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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)
SPENGL	2	b	5	-	-	-	-	1.22 (	0.75-	2.03)
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				3570	28616	4801	32829			
*prospective study								~ With 0.5 adjustment for zero		

Appendix Table C7 - 5

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

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	7	b	0	0.28	110.77	0.26	0.0027
AGABI2	7	b	0	0.23	146.28	0.00	0.0047
AGUDOT	4	b	4	1.18	3.39	3.05	0.0291
ARSHAD	1	b	7	1.20	1.82	1.70	0.1044
CHEN2	21	b	0	0.08	16.96	0.40	0.7319
DAIGLE	1	b	0	0.36	19.66	0.30	0.1106
FAGBUL	1	b	0	0.75	16.88	4.50	0.0020
GILLIL	36	b	8	-0.11	12.73	1.48	0.7070
GOLD	7	b	11	-0.01	124.12	7.51	0.9108
HABY	2	b	0	0.29	37.52	0.12	0.0720
HJERN1	5	b	0	-0.17	28.32	4.71	0.3611
HJERN2	5	b	0	0.16	18.42	0.11	0.4983
HOST	1	b	0	-0.12	7.87	0.97	0.7459
HU1	6	b	0	0.02	14.41	0.65	0.9302
HU2	22	b	0	0.55	21.69	2.08	0.0110
INFANT	3	b	0	0.15	53.83	0.41	0.2761
JANG	1	b	0	0.46	26.78	1.36	0.0170
JONES	2	b	0	0.16	9.47	0.06	0.6266
LAM1	20	b	4	0.76	3.25	0.88	0.1727
LAM2	12	b	4	-0.37	11.81	4.35	0.2022
LAU	1	b	0	0.30	5.74	0.02	0.4716
LEEN	1	b	0	-0.28	12.81	3.41	0.3157
LILLJE	1	b	0	0.09	42.18	0.96	0.5801
LINDFO	1	b	0	0.50	29.55	2.07	0.0065
MAVALE	7	b	0	0.78	9.68	2.86	0.0153
MOUSSA	1	b	0	1.10	0.37	0.28	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.70	0.0258
OHARA	5	b	0	-0.11	32.01	3.73	0.5504
PALMIE	3	b	0	-0.00	30.71	1.72	0.9963
PIC	1	b	0	0.09	26.03	0.54	0.6397
RIBEIR	1	b	0	0.18	7.76	0.02	0.6116
RONMA1	1	b	5	0.47	30.41	1.67	0.0095
SCHMIT	1	b	4	0.73	13.33	3.22	0.0079
SHIVA	1	b	0	0.39	4.36	0.10	0.4160
SHOHAT	2	b	0	0.44	123.73	5.11	0.0000
SOTOQU	1	b	0	0.42	46.33	1.62	0.0040
SPENGL	2	b	5	0.20	15.50	0.02	0.4337
STANHO	1	b	0	-1.02	3.66	5.78	0.0507
STERN1	1	b	0	0.11	11.71	0.19	0.7107
STODDA	5	b	0	0.32	133.49	0.86	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	7	b	0	0.68	6.06	1.18	0.0955
ZHENG	26	b	0	0.71	6.34	1.42	0.0739

RR data

	N	45
	NS	45
	Wt	1351.04
Het	Chi	81.51
Het	df	44
Het	P	***
Fixed	RR	1.27
	RRl	1.20
	RRu	1.34
	P	+++
Random	RR	1.26
	RRl	1.16
	RRu	1.37
	P	+++
Asymm	P	N.S.

Appendix Table C7 - 6

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

RR data

		N	45						
		NS	45						
		Wt	1351.04						
	Het	Chi	81.51						
	Het	df	44						
	Het	P	***						
	Fixed	RR	1.27						
		RRl	1.20						
		RRu	1.34						
		P	+++						
	Random	RR	1.26						
		RRl	1.16						
		RRu	1.37						
		P	+++						
	Asymm	P	N.S.						
				Sex					
			both	male	female				Total
		N	45						45
		NS	45						45
		Wt	1351.04						1351.04
	Het	Chi	81.51						81.51
	Het	df	44						44
	Het	P	***						***
	Fixed	RR	1.27						1.27
		RRl	1.20						1.20
		RRu	1.34						1.34
		P	+++						+++
	Random	RR	1.26						1.26
		RRl	1.16						1.16
		RRu	1.37						1.37
		P	+++						+++
Between	Chi								
Between	df								
Between	P								N.S.
				Continent					
		NAmer	SCAmer	Europe	Asia	Auslia	Africa		Total
	N	9	2	19	11	2	2		45
	NS	9	2	19	11	2	2		45
	Wt	408.61	54.09	603.91	216.69	41.18	26.56		1351.04
	Het	Chi	12.11	0.38	26.56	24.98	5.77	0.00	81.51
	Het	df	8	1	18	10	1	1	44
	Het	P	N.S.	N.S.	(*)	**	*	N.S.	***
	Fixed	RR	1.19	1.47	1.25	1.36	1.19	2.14	1.27
		RRl	1.08	1.13	1.15	1.19	0.88	1.47	1.20
		RRu	1.31	1.92	1.35	1.55	1.62	3.14	1.34
		P	+++	++	+++	+++	N.S.	+++	+++
	Random	RR	1.19	1.47	1.24	1.21	0.76	2.14	1.26
		RRl	1.04	1.13	1.12	0.90	0.21	1.47	1.16
		RRu	1.36	1.92	1.39	1.64	2.73	3.14	1.37
		P	+	++	+++	N.S.	N.S.	+++	+++
Between	Chi								11.70
Between	df								5
Between	P								*

Appendix Table C7 - 6

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

				Current Asthma Unadjusted					
				Start year of study					
				<1970	1970-79	1980-89	1990+	unknown	Total
N				3	11	27		4	45
NS				3	11	27		4	45
Wt				129.62	342.16	789.40		89.87	1351.04
Het	Chi		5.52	14.38	41.20	7.07		81.51	
Het	df		2	10	26	3		44	
Het	P		(*)	N.S.	*	(*)		***	
Fixed	RR		0.95	1.36	1.27	1.37		1.27	
	RRl		0.80	1.23	1.19	1.11		1.20	
	RRu		1.13	1.52	1.37	1.68		1.34	
Random	P		N.S.	+++	+++	++		+++	
	RR		0.60	1.37	1.24	1.40		1.26	
	RRl		0.27	1.19	1.12	1.01		1.16	
	RRu		1.36	1.59	1.37	1.94		1.37	
	P		N.S.	+++	+++	+		+++	
Between	Chi							13.34	
Between	df							3	
Between	P							**	
				Study type					
				CC	Pr	CS	Total		
N				15	4	26	45		
NS				15	4	26	45		
Wt				493.99	177.49	679.56	1351.04		
Het	Chi		23.83	8.00	44.90	81.51			
Het	df		14	3	25	44			
Het	P		*	*	**	***			
Fixed	RR		1.31	1.09	1.28	1.27			
	RRl		1.20	0.94	1.19	1.20			
	RRu		1.43	1.26	1.38	1.34			
Random	P		+++	N.S.	+++	+++			
	RR		1.34	1.24	1.22	1.26			
	RRl		1.17	0.90	1.08	1.16			
	RRu		1.54	1.72	1.37	1.37			
	P		+++	N.S.	+++	+++			
Between	Chi					4.77			
Between	df					2			
Between	P					(*)			

Appendix Table C7 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR TIMONE	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAAKK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LEVES3 POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LIS PONSON SHAMSS VONMAF
2	ADDOYO FUJI PETERS	ANNES2 GUPTA SARRAZ	CALL JAAKKO SELCUK	CHHABR KABESC STURM	CLARK KALY01 WANG	DEKKER KALY02 WIJGA	DIJKST KARUNA WILLE2	DOTTER KNIGHT WOLF01	DUHME1 LEE1 WOLF02	DUHME2 LEE2 WOLF03	DUHME3 MELIA YANG	DUHME4 MELSOM	FIELDE MILLER	FORSB1 NHANE3	FORSB2 NICOLA	FORSB3 NITTA
3	BERGMA	CELEDO	CSONKA	EHRLI1	LOPEZC	OLIVET	WEITZ1	WEITZ2								
4	CHINN	SOMERV														
5	AZIZI	BALL	CUNNI1	DEKOK	HALONE	HUGHES	MCCON2	MOHAME	STERN2							

Appendix Table C7 - 8

Children - Meta-analysis of Parental Exposure during Lifetime, 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													
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3													
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
HALONE	1	b	6	6	all	NAmer	1980	1999	Pr	0	Mother	NotMothr	in life	non	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	*	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
PALMTE	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 C8 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C7 - 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 C8 - 1

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

REF	NRR	CompC7	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
AGUDOT	4		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	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
JANG	1		b	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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
MAVALE	7		b	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	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
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
RONMA1	1		b	7	8	all	Eu:Sca	1996	1998	CS	5	Mother	NotMothr	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	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
SPENGL	2		b	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	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 C8 - 2

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

				Numbers							
REF	NRR	SEX	ADJ	Exposed		Non-exposed		RR	95.00%CI		
				Case	Control	Case	Control				
AGABI1	14	b	11	558	-	148	-	1.34 (	1.11-	1.62)	
AGABI2	14	b	12	700	-	203	-	1.17 (	0.99-	1.39)	
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)	
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)	
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)	
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)	
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)	
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)	
RONMA1	1	b	5	-	-	-	-	1.60 (	1.12-	2.28)	
SCHMIT	1	b	4	-	-	-	-	2.07 (	1.21-	3.54)	
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)	
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)	
SPENGL	2	b	5	-	-	-	-	1.22 (	0.75-	2.03)	
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				3570	4188	4801	8667				
*prospective study							~ With 0.5 adjustment for zero				

Appendix Table C8 - 2

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

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	14	b	11	0.29	107.50	1.20	0.0024
AGABI2	14	b	12	0.16	133.43	0.12	0.0697
AGUDOT	4	b	4	1.18	3.39	3.38	0.0291
ARSHAD	1	b	7	1.20	1.82	1.88	0.1044
CHEN2	47	b	1	0.10	15.22	0.10	0.6839
DAIGLE	3	b	7	0.67	11.64	2.75	0.0217
FAGBUL	2	b	1	0.34	14.40	0.35	0.1923
GILLIL	36	b	8	-0.11	12.73	1.09	0.7070
GOLD	7	b	11	-0.01	124.12	4.83	0.9108
HABY	4	b	9	0.48	13.60	1.19	0.0752
HJERN1	13	b	9	-0.33	34.86	9.27	0.0524
HJERN2	13	b	9	-0.06	22.00	1.36	0.7716
HOST	1	b	0	-0.12	7.87	0.72	0.7459
HU1	6	b	0	0.02	14.41	0.39	0.9302
HU2	24	b	3	0.39	22.17	0.87	0.0697
INFANT	10	b	19	0.34	25.97	0.58	0.0864
JANG	1	b	0	0.46	26.78	2.01	0.0170
JONES	2	b	0	0.16	9.47	0.01	0.6266
LAM1	20	b	4	0.76	3.25	1.05	0.1727
LAM2	12	b	4	-0.37	11.81	3.68	0.2022
LAU	1	b	0	0.30	5.74	0.07	0.4716
LEEN	1	b	0	-0.28	12.81	2.80	0.3157
LILLJE	1	b	0	0.09	42.18	0.44	0.5801
LINDFO	1	b	0	0.50	29.55	2.90	0.0065
MAVALE	7	b	0	0.78	9.68	3.40	0.0153
MOUSSA	1	b	0	1.10	0.37	0.31	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.54	0.0258
OHARA	6	b	4	-0.09	34.25	2.71	0.5810
PALMIE	3	b	0	-0.00	30.71	1.09	0.9963
PIC	1	b	0	0.09	26.03	0.24	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMA1	1	b	5	0.47	30.41	2.43	0.0095
SCHMIT	1	b	4	0.73	13.33	3.89	0.0079
SHIVA	1	b	0	0.39	4.36	0.18	0.4160
SHOHAT	4	b	12	0.19	64.12	0.00	0.1269
SOTOQU	1	b	0	0.42	46.33	2.57	0.0040
SPENGL	2	b	5	0.20	15.50	0.00	0.4337
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	1.80	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	7	b	0	0.68	6.06	1.45	0.0955
ZHENG	26	b	0	0.71	6.34	1.73	0.0739

RR data

	N	45
	NS	45
	Wt	1190.84
Het	Chi	80.44
Het	df	44
Het	P	***
Fixed	RR	1.21
	RRl	1.14
	RRu	1.28
	P	+++
Random	RR	1.21
	RRl	1.11
	RRu	1.33
	P	+++
Asymm	P	N.S.

Appendix Table C8 - 3

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

RR data

	N	45			
	NS	45			
	Wt	1190.84			
Het	Chi	80.44			
Het	df	44			
Het	P	***			
Fixed	RR	1.21			
	RRl	1.14			
	RRu	1.28			
	P	+++			
Random	RR	1.21			
	RRl	1.11			
	RRu	1.33			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both		male	female	Total
	N	45			45
	NS	45			45
	Wt	1190.84			1190.84
Het	Chi	80.44			80.44
Het	df	44			44
Het	P	***			***
Fixed	RR	1.21			1.21
	RRl	1.14			1.14
	RRu	1.28			1.28
	P	+++			+++
Random	RR	1.21			1.21
	RRl	1.11			1.11
	RRu	1.33			1.33
	P	+++			+++
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C8 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR TIMONE	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAAKK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LEVES3 POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LIS PONSON SHAMSS VONMAF
2	ADDOYO FUJI PETERS	ANNES2 GUPTA SARRAZ	CALL JAAKKO SELCUK	CHHABR KABESC STURM	CLARK KALY01 WANG	DEKKER KALY02 WIJGA	DIJKST KARUNA WILLE2	DOTTER KNIGHT WOLF01	DUHME1 LEE1 WOLF02	DUHME2 LEE2 WOLF03	DUHME3 MELIA YANG	DUHME4 MELSOM	FIELDE MILLER	FORSB1 NHANE3	FORSB2 NICOLA	FORSB3 NITTA
3	BERGMA	CELEDO	CSONKA	EHRLI1	LOPEZC	OLIVET	WEITZ1	WEITZ2								
4	CHINN	SOMERV														
5	AZIZI	BALL	CUNNI1	DEKOK	HALONE	HUGHES	MCCON2	MOHAME	STERN2							

Appendix Table C8 - 8

Children - Meta-analysis of Parental Exposure during Lifetime, 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													
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3													
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
HALONE	1	b	6	6	all	NAmer	1980	1999	Pr	0	Mother	NotMothr	in life	non	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	*	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 C9 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C1 - 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 C9 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	CompC1	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
ALBA	1		b	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALDAW0	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	-
ANNES2	4		b	13	14	all	Eu:wst	1993	2004	CS	2	TotETS	None	current	non	-
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
ARIF	2		b	0	16	all	NAmer	2001	2004	CS	10	AnyHh	NoHhMemb	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	-
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	unspec	non	-
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	-
FREEM1	2		b	7	11	all	NAmer	1998	2003	CS	2	AnyHh	NoHhMemb	current	non	-
GILLIL	44	x	b	7	19	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	current	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	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	-
LEE3	5		b	6	15	all	As:FE	2001	2003	CS	0	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	-
MAIER	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	-
MCCON1	3		m	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	non	-
MCCON1	4		f	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	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	-
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	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
NICOLA	1		b	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	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	-
ODDY	1		b	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-

Appendix Table C9 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma
 Adjusted

REF	NRR	CompC1	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
PIROGO	3		b	0	15	all	Eu:est	*	2004	CS	0	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	-
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never	-
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	-
RONMA2	1		b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non	-
RONMA3	2		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	-
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	-
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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	-
WARKE	1		b	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non	-
WICKMA	2		b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non	-
WIJGA	1		b	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WITHER	1		b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLF01	2		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	2		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	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 C9 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	1	b	0	68	70	34	32	0.91 (	0.51-	1.64)
ALDAW0	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)
ANNES2	4	b	2	904	-	699	-	1.10 (	0.90-	1.20)
ANNESI	1	b	0	164	1243	255	2491	1.29 (	1.05-	1.59)
ARIF	2	b	10	46	-	161	-	0.98 (	0.65-	1.47)
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)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
FREEM1	2	b	2	-	-	-	-	2.10 (	1.72-	2.56)
GILLIL	44	b	0	195	1048	617	3699	1.12 (	0.94-	1.33)
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)
LEE3	5	b	0	1114	16604	1094	13428	0.82 (	0.76-	0.90)
*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)
*MCCON1	3	m	3	-	-	-	-	1.53 (	1.03-	2.26)
*MCCON1	4	f	3	-	-	-	-	0.84 (	0.59-	1.19)
Subtotal	MCCON1							1.10 (	0.84-	1.42)
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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)

Appendix Table C9 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
Subtotal	MURRAY									
NHANE3	28	b	6	424	-	175	-	1.37 (	0.91-	2.07)
NICOLA	1	b	0	126	1043	192	1710	1.16 (	0.77-	1.76)
NILSSO	1	b	0	-	-	-	-	1.08 (	0.85-	1.36)
OCONE	1	b	0	-	-	-	-	1.00 (	0.70-	1.40)
OCONE	1	b	0	264	137	136	91	1.29 (	0.92-	1.80)
*ODDY	1	b	4	-	-	-	-	1.27 (	1.04-	1.55)
PIROGO	3	b	0	13	82	4	37	1.47 (	0.45-	4.80)
POKHAR	2	b	5	27	-	13	-	3.33 (	1.85-	7.65)
*PONSON	8	b	6	185	-	88	-	1.03 (	0.83-	1.26)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
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)
RONMA2	1	b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3	2	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)
SHAMS2	2	b	0	-	-	-	-	0.99 (	0.81-	1.18)
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)
WARKE	1	b	0	55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA	2	b	8	64	-	251	-	1.65 (	1.21-	2.25)
WIJGA	1	b	17	-	-	-	-	0.83 (	0.59-	1.19)
WITHER	1	b	0	202	633	296	1107	1.19 (	0.97-	1.46)
WOLF01	2	b	7	-	-	-	-	1.12 (	0.63-	1.98)
WOLF02	2	b	7	-	-	-	-	1.35 (	0.75-	2.43)
WOLF03	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				12181	47960	14318	63175			
*prospective study										

Appendix Table C9 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.30	0.3979
ALBA	1	b	0	-0.09	11.15	0.80	0.7647
ALDAW0	2	m	0	0.76	8.40	2.85	0.0274
ALFRA1	2	b	0	0.41	22.65	1.23	0.0498
ANDRAE	2	b	3	-0.01	54.89	1.95	0.9406
ANNES2	4	b	2	0.10	185.67	1.29	0.1941
ANNESI	1	b	0	0.25	89.09	0.50	0.0166
ARIF	2	b	10	-0.02	23.07	0.91	0.9227
BARRET	1	b	0	0.52	5.17	0.60	0.2373
BECKET	6	b	7	0.27	67.46	0.56	0.0266
BENCIV	3	b	2	0.43	116.67	7.48	0.0000
BENER	1	b	0	0.24	19.32	0.08	0.2839
BRABIN	2	b	1	0.06	58.33	0.85	0.6563
BURCHF	5	m	1	0.22	32.51	0.04	0.2200
BURCHF	8	f	1	0.00	24.97	0.80	1.0000
Subtotal	BURCHF			-0.14	57.49	0.84	
BUTZ	7	b	1	0.17	9.31	0.00	0.6135
CHEN1	1	b	0	0.25	11.14	0.05	0.4102
CHEN2	37	b	6	0.51	12.65	1.41	0.0681
DELL	2	b	0	0.42	18.30	1.05	0.0733
DODGE	12	b	1	0.41	7.12	0.37	0.2794
DOLD	21	b	1	0.10	113.12	0.79	0.3107
ECE	3	b	0	0.18	79.23	0.00	0.1041
EHRLI2	3	b	0	0.63	11.17	2.24	0.0363
FARBE2	2	b	3	0.41	57.72	3.15	0.0017
FAROOQ	1	b	0	0.25	72.93	0.42	0.0297
*FERGUS	7	b	0	0.04	37.52	0.73	0.8106
FLYNN1	1	b	0	0.23	47.28	0.13	0.1120
FORAST	20	b	9	0.25	37.10	0.17	0.1327
FREEM1	2	b	2	0.74	97.16	30.83	0.0000
GILLIL	44	b	0	0.11	125.42	0.60	0.2209
GOLD	11	b	0	0.26	211.41	1.25	0.0002
GOREN1	3	b	0	0.07	27.97	0.32	0.7071
GOREN2	5	b	2	0.22	99.84	0.13	0.0316
GORTM1	3	b	7	0.40	36.85	1.79	0.0155
GORTM2	1	b	0	0.63	6.99	1.40	0.0978
GURKAN	1	b	0	0.63	11.10	2.21	0.0372
HAJNAL	1	b	13	0.18	63.05	0.00	0.1477
HU1	4	b	7	-0.22	12.73	2.06	0.4259
HU2	23	b	3	0.44	31.16	2.10	0.0144
JENKIN	5	b	7	0.23	116.41	0.32	0.0126
KAY	20	b	1	0.35	38.89	1.15	0.0288
KENDIR	1	b	0	0.34	99.03	2.69	0.0006
KERSHA	7	b	1	1.14	11.69	10.75	0.0001
KIVITY	4	b	0	0.59	13.44	2.25	0.0311
KUEHR	5	b	1	-0.26	27.45	5.31	0.1709
KUHR	3	b	0	0.64	9.58	2.08	0.0461
LAM1	8	b	4	-0.08	79.06	5.43	0.4585
LAM2	1	b	4	-0.09	53.37	3.98	0.4908
LEE3	5	b	0	-0.19	513.76	71.42	0.0000
*LEEDER	2	b	1	0.29	8.17	0.09	0.4149
LEROUX	2	b	10	0.58	14.02	2.28	0.0293
LIS	1	b	0	0.31	37.30	0.62	0.0604
LISTER	3	b	8	0.42	64.33	3.71	0.0008
MAIER	5	b	8	0.82	13.60	5.51	0.0026
*MARTIN	5	m	1	0.56	11.93	1.73	0.0533
*MARTIN	6	f	1	0.68	5.55	1.41	0.1075
Subtotal	MARTIN			0.89	17.48	3.14	
*MCCON1	3	m	3	0.43	24.88	1.51	0.0339
*MCCON1	4	f	3	-0.17	31.22	3.89	0.3300
Subtotal	MCCON1			-0.11	56.10	5.40	
MCCON2	2	b	0	-0.58	1.65	0.96	0.4523
*MCKEEV	3	b	0	0.27	962.51	8.19	0.0000
MONTEI	1	b	0	0.22	56.12	0.11	0.0946
MOYES1	1	b	0	0.06	120.55	1.82	0.5411
MOYES2	1	b	0	-0.06	115.09	6.43	0.5355
MURRAY	5	m	1	0.34	14.28	0.39	0.1941
MURRAY	7	f	1	0.27	8.50	0.07	0.4311
Subtotal	MURRAY			0.26	22.78	0.46	

Appendix Table C9 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
NHANE3	28	b	6	0.15	22.48	0.02	0.4816
NICOLA	1	b	0	0.07	68.08	0.76	0.5460
NILSS0	1	b	0	0.00	31.98	1.02	1.0000
OCONNE	1	b	0	0.25	33.98	0.19	0.1384
*ODDY	1	b	4	0.24	96.50	0.35	0.0189
PIROGO	3	b	0	0.38	2.73	0.11	0.5269
POKHAR	2	b	5	1.20	7.63	8.00	0.0009
*PONSON	8	b	6	0.03	88.18	1.96	0.7813
QIAN	1	b	7	0.75	3.96	1.28	0.1372
RASANE	3	b	3	0.46	27.24	2.21	0.0155
RATAGE	1	b	0	0.07	10.00	0.13	0.8330
RENNIE	1	b	6	0.02	13.41	0.34	0.9422
RONCH1	7	b	2	0.34	39.05	0.97	0.0355
RONCH2	3	b	0	0.29	31.60	0.38	0.1048
RONCH3	3	b	0	-0.02	24.61	0.97	0.9224
RONMA2	1	b	7	0.36	43.54	1.40	0.0183
*RONMA3	2	b	9	0.31	15.08	0.25	0.2324
ROSASV	1	b	0	0.45	3.25	0.24	0.4168
SELCUK	2	b	6	0.30	112.79	1.66	0.0014
SENNHA	1	b	0	0.23	58.71	0.13	0.0833
SHAMS2	2	b	0	-0.01	108.55	3.87	0.9166
SHAMSS	2	b	0	0.33	79.17	1.80	0.0034
*SHERMA	2	b	2	0.17	19.90	0.00	0.4603
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOYSET	4	b	0	0.16	11.68	0.01	0.5953
SQUILL	1	b	0	0.10	18.67	0.11	0.6613
STANHO	2	b	0	-0.92	4.90	5.89	0.0423
*TAYLOR	4	b	0	-0.04	72.55	3.49	0.7281
TIMONE	1	b	0	-0.58	9.03	5.21	0.0808
TSIMOY	1	b	0	0.04	2.59	0.05	0.9464
VARELA	1	b	0	1.09	2.80	2.32	0.0687
VAVILI	1	b	0	-0.50	11.30	5.16	0.0945
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	
VERHOE	1	b	0	-0.30	19.94	4.66	0.1737
VONMAF	1	b	0	0.23	78.55	0.21	0.0417
WARKE	1	b	0	-0.12	12.07	1.05	0.6860
*WICKMA	2	b	8	0.50	39.93	4.14	0.0016
WIJGA	1	b	17	-0.19	31.22	4.16	0.2978
WITHER	1	b	0	0.18	92.49	0.00	0.0890
WOLFO1	2	b	7	0.11	11.72	0.05	0.6981
WOLFO2	2	b	7	0.30	11.12	0.16	0.3170
WOLFO3	2	b	10	0.33	24.30	0.55	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.01	0.4914

RR data

N	109
NS	104
Wt	5880.25
Het Chi	283.06
Het df	108
Het P	***
Fixed RR	1.20
RRl	1.17
RRu	1.23
P	+++
Random RR	1.23
RRl	1.17
RRu	1.29
P	+++
Asymm P	(*)

Appendix Table C9 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma
 Adjusted

RR data

	N	109			
	NS	104			
	Wt	5880.25			
Het	Chi	283.06			
Het	df	108			
Het	P	***			
Fixed	RR	1.20			
	RRl	1.17			
	RRu	1.23			
	P	+++			
Random	RR	1.23			
	RRl	1.17			
	RRu	1.29			
	P	+++			
Asymm	P	(*)			
			Sex		
	both		male	female	Total
	N	98	6	5	109
	NS	98	6	5	109
	Wt	5661.36	119.67	99.22	5880.25
Het	Chi	270.17	4.36	4.73	283.06
Het	df	97	5	4	108
Het	P	***	N.S.	N.S.	***
Fixed	RR	1.19	1.38	1.06	1.20
	RRl	1.16	1.15	0.87	1.17
	RRu	1.23	1.65	1.29	1.23
	P	+++	+++	N.S.	+++
Random	RR	1.23	1.38	1.07	1.23
	RRl	1.17	1.15	0.86	1.17
	RRu	1.29	1.65	1.34	1.29
	P	+++	+++	N.S.	+++
Between	Chi				3.80
Between	df				2
Between	P				N.S.

Appendix Table C9 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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 DEKOK HJERN1 LILLJE RIBEIR WEITZ2	AGABI1 DIJKST HJERN2 LINDFO RONMA1 WILLE1	AGABI2 DOTTER HOST LOPEZC SARRAZ WILLE2	ARSHAD DUHME1 HUGHES MAVALE SCHMIT YANG	AZIZI DUHME2 INFANT MELIA SHIVA ZHENG	BALL DUHME3 JAAKKO MELSOM SHOHAT WEITZ1	BERGMA DUHME4 JANG MILLER SOMERV XU	CALL EHRLI1 JONES MOHAME SOTOQU YUAN	CELEDO FAGBUL KABESC MOUSSA SPENGL ZHANG	CHHABR FORSB1 KARUNA MUMCUO STODDA ZEJDA	CHINN FORSB2 KNIGHT NITTA STRACH ZHANG	CLARK FORSB3 LAU OHARA STURM ZHANG	CSONKA FUJI LEE1 OLIVET TARIQ ZHANG	CUNNI1 GUPTA LEE2 PALMIE TOMINA ZHANG	DAIGLE HABY LEE2 PETERS WANG	DEKKER HALONE LEEN PIC WANG
3	CUNNI2	JAAKK2	KAPLAN	KELLY	NYSTAD	WEITZ1	XU	YUAN								
4	KASPER															
5	AKCAKA RUDNIK	BURR SANZOR	DEBENE SCHENK	FIELDE STAZI	FLYNN2 STERN2	FREEM2 ULRIK	GOREN3 VOLKME	GOREN4 ZEJDA	GOREN5 ZHANG	GOREN6	KALY01	KEARNE	LEVES1	LEVES2	LEVES3	MONTEF
15	ALFRA2	FARBE1	FARBE3	SPIEKE												

Appendix Table C9 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP																		
GILLIL	GILLIL	1	MCCON1/GILLIL																		
MCCON1	MCCON1	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																		
NICOLA	NICOLA	1	KABESC/NICOLA																		
RONMA2	RONMA1	2	RONMA1/RONMA2/RONMA3																		
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3																		
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				
FREEM2	1	b	4	5	all	NAMer	1998	2003	CS	2	AnyHh	NoHhMemb	current	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				
LEVES1	1	b	9	9	all	NAMer	1999	2004	CS	0	AnyHh	None	unspec	non	-	*	n				
LEVES2	1	b	13	13	all	NAMer	1999	2004	CS	0	AnyHh	None	unspec	non	-	*	n				
LEVES3	1	b	16	16	all	NAMer	1999	2004	CS	0	AnyHh	None	unspec	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				
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	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				
ZHANG	1	b	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	-	1.04	n				

Appendix Table C10 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C9 - 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 C10 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	CompC9	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
ALBA	1		b	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALDAW0	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	-
ANNES2	4		b	13	14	all	Eu:wst	1993	2004	CS	2	TotETS	None	current	non	-
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
ARIF	2		b	0	16	all	NAmer	2001	2004	CS	10	AnyHh	NoHhMemb	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	-
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	unspec	non	-
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	-
FREEM1	2		b	7	11	all	NAmer	1998	2003	CS	2	AnyHh	NoHhMemb	current	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		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	-
LEE3	5		b	6	15	all	As:FE	2001	2003	CS	0	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	-
MAIER	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	-
MCCON1	3		m	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	non	-
MCCON1	4		f	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	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	-
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	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
NICOLA	1		b	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	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	-

Appendix Table C10 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	CompC9	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
ODDY	1		b	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-
PIROGO	3		b	0	15	all	Eu:est	*	2004	CS	0	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	-
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never	-
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	-
RONMA2	1		b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non	-
RONMA3	2		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	-
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	-
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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	-
WARKE	1		b	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non	-
WICKMA	2		b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non	-
WIJGA	1		b	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WITHER	1		b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLF01	2		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	2		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	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 C10 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	1	b	0	68	70	34	32	0.91 (	0.51-	1.64)
ALDAW0	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)
ANNES2	4	b	2	904	-	699	-	1.10 (	0.90-	1.20)
ANNESI	1	b	0	164	1243	255	2491	1.29 (	1.05-	1.59)
ARIF	2	b	10	46	-	161	-	0.98 (	0.65-	1.47)
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)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
FREEM1	2	b	2	-	-	-	-	2.10 (	1.72-	2.56)
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)
LEE3	5	b	0	1114	16604	1094	13428	0.82 (	0.76-	0.90)
*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)
*MCCON1	3	m	3	-	-	-	-	1.53 (	1.03-	2.26)
*MCCON1	4	f	3	-	-	-	-	0.84 (	0.59-	1.19)
Subtotal MCCON1								1.10 (	0.84-	1.42)
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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)

Appendix Table C10 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
NICOLA 1		b	0	126	1043	192	1710	1.08 (	0.85-	1.36)
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)
PIROGO 3		b	0	13	82	4	37	1.47 (	0.45-	4.80)
POKHAR 2		b	5	27	-	13	-	3.33 (	1.85-	7.65)
*PONSON 8		b	6	185	-	88	-	1.03 (	0.83-	1.26)
QIAN 1		b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
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)
RONMA2 1		b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3 2		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)
SHAMS2 2		b	0	-	-	-	-	0.99 (	0.81-	1.18)
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)
WARKE 1		b	0	55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA 2		b	8	64	-	251	-	1.65 (	1.21-	2.25)
WIJGA 1		b	17	-	-	-	-	0.83 (	0.59-	1.19)
WITHER 1		b	0	202	633	296	1107	1.19 (	0.97-	1.46)
WOLF01 2		b	7	-	-	-	-	1.12 (	0.63-	1.98)
WOLF02 2		b	7	-	-	-	-	1.35 (	0.75-	2.43)
WOLF03 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				12069	47180	13543	58790			
*prospective study										

Appendix Table C10 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.29	0.3979
ALBA	1	b	0	-0.09	11.15	0.83	0.7647
ALDAW0	2	m	0	0.76	8.40	2.80	0.0274
ALFRA1	2	b	0	0.41	22.65	1.18	0.0498
ANDRAE	2	b	3	-0.01	54.89	2.06	0.9406
ANNES2	4	b	2	0.10	185.67	1.45	0.1941
ANNESI	1	b	0	0.25	89.09	0.44	0.0166
ARIF	2	b	10	-0.02	23.07	0.96	0.9227
BARRET	1	b	0	0.52	5.17	0.58	0.2373
BECKET	6	b	7	0.27	67.46	0.50	0.0266
BENCIV	3	b	2	0.43	116.67	7.18	0.0000
BENER	1	b	0	0.24	19.32	0.07	0.2839
BRABIN	2	b	1	0.06	58.33	0.92	0.6563
BURCHF	5	m	1	0.22	32.51	0.03	0.2200
BURCHF	8	f	1	0.00	24.97	0.84	1.0000
Subtotal BURCHF				-0.15	57.49	0.88	
BUTZ	7	b	1	0.17	9.31	0.00	0.6135
CHEN1	1	b	0	0.25	11.14	0.04	0.4102
CHEN2	37	b	6	0.51	12.65	1.37	0.0681
DELL	2	b	0	0.42	18.30	1.01	0.0733
DODGE	12	b	1	0.41	7.12	0.35	0.2794
DOLD	21	b	1	0.10	113.12	0.89	0.3107
ECE	3	b	0	0.18	79.23	0.00	0.1041
EHRLI2	3	b	0	0.63	11.17	2.19	0.0363
FARBE2	2	b	3	0.41	57.72	3.01	0.0017
FAROOQ	1	b	0	0.25	72.93	0.37	0.0297
*FERGUS	7	b	0	0.04	37.52	0.78	0.8106
FLYNN1	1	b	0	0.23	47.28	0.11	0.1120
FORAST	20	b	9	0.25	37.10	0.15	0.1327
FREEM1	2	b	2	0.74	97.16	30.27	0.0000
GILLIL	53	m	0	0.03	33.68	0.81	0.8668
GILLIL	62	f	0	0.11	24.55	0.12	0.5746
Subtotal GILLIL				-0.23	58.23	0.93	
GOLD	11	b	0	0.26	211.41	1.09	0.0002
GOREN1	3	b	0	0.07	27.97	0.36	0.7071
GOREN2	5	b	2	0.22	99.84	0.10	0.0316
GORTM1	3	b	7	0.40	36.85	1.70	0.0155
GORTM2	1	b	0	0.63	6.99	1.37	0.0978
GURKAN	1	b	0	0.63	11.10	2.16	0.0372
HAJNAL	1	b	13	0.18	63.05	0.00	0.1477
HU1	4	b	7	-0.22	12.73	2.11	0.4259
HU2	23	b	3	0.44	31.16	2.02	0.0144
JENKIN	5	b	7	0.23	116.41	0.26	0.0126
KAY	20	b	1	0.35	38.89	1.08	0.0288
KENDIR	1	b	0	0.34	99.03	2.53	0.0006
KERSHA	7	b	1	1.14	11.69	10.64	0.0001
KIVITY	4	b	0	0.59	13.44	2.19	0.0311
KUEHR	5	b	1	-0.26	27.45	5.44	0.1709
KUHR	6	b	6	0.95	4.95	2.89	0.0350
LAM1	8	b	4	-0.08	79.06	5.64	0.4585
LAM2	1	b	4	-0.09	53.37	4.13	0.4908
LEE3	5	b	0	-0.19	513.76	73.39	0.0000
*LEEDER	2	b	1	0.29	8.17	0.08	0.4149
LEROUX	2	b	10	0.58	14.02	2.23	0.0293
LIS	1	b	0	0.31	37.30	0.57	0.0604
LISTER	3	b	8	0.42	64.33	3.55	0.0008
MAIER	5	b	8	0.82	13.60	5.43	0.0026
*MARTIN	5	m	1	0.56	11.93	1.69	0.0533
*MARTIN	6	f	1	0.68	5.55	1.38	0.1075
Subtotal MARTIN				0.88	17.48	3.07	
*MCCON1	3	m	3	0.43	24.88	1.45	0.0339
*MCCON1	4	f	3	-0.17	31.22	4.00	0.3300
Subtotal MCCON1				-0.12	56.10	5.45	
MCCON2	2	b	0	-0.58	1.65	0.98	0.4523
*MCKEEV	2	b	0	0.31	891.60	13.65	0.0000
MONTEI	1	b	0	0.22	56.12	0.09	0.0946
MOYES1	1	b	0	0.06	120.55	1.98	0.5411
MOYES2	1	b	0	-0.06	115.09	6.71	0.5355
MURRAY	5	m	1	0.34	14.28	0.36	0.1941

Appendix Table C10 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
MURRAY	7	f	1	0.27	8.50	0.06	0.4311
Subtotal	MURRAY			0.25	22.78	0.43	
NHANE3	28	b	6	0.15	22.48	0.03	0.4816
NICOLA	1	b	0	0.07	68.08	0.83	0.5460
NILSSO	1	b	0	0.00	31.98	1.08	1.0000
OCONE	1	b	0	0.25	33.98	0.17	0.1384
*ODDY	1	b	4	0.24	96.50	0.29	0.0189
PIROGO	3	b	0	0.38	2.73	0.11	0.5269
POKHAR	2	b	5	1.20	7.63	7.92	0.0009
*PONSON	8	b	6	0.03	88.18	2.10	0.7813
QIAN	1	b	7	0.75	3.96	1.26	0.1372
RASANE	3	b	3	0.46	27.24	2.14	0.0155
RATAGE	1	b	0	0.07	10.00	0.14	0.8330
RENNIE	1	b	6	0.02	13.41	0.36	0.9422
RONCH1	7	b	2	0.34	39.05	0.91	0.0355
RONCH2	3	b	0	0.29	31.60	0.35	0.1048
RONCH3	3	b	0	-0.02	24.61	1.02	0.9224
RONMA2	1	b	7	0.36	43.54	1.32	0.0183
*RONMA3	2	b	9	0.31	15.08	0.23	0.2324
ROSASV	1	b	0	0.45	3.25	0.23	0.4168
SELCUK	2	b	6	0.30	112.79	1.53	0.0014
SENNHA	1	b	0	0.23	58.71	0.10	0.0833
SHAMS2	2	b	0	-0.01	108.55	4.08	0.9166
SHAMSS	2	b	0	0.33	79.17	1.68	0.0034
*SHERMA	2	b	2	0.17	19.90	0.01	0.4603
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOYSET	4	b	0	0.16	11.68	0.01	0.5953
SQUILL	1	b	0	0.10	18.67	0.13	0.6613
STANHO	2	b	0	-0.92	4.90	5.94	0.0423
*TAYLOR	4	b	0	-0.04	72.55	3.66	0.7281
TIMONE	1	b	0	-0.58	9.03	5.28	0.0808
TSIMOY	1	b	0	0.04	2.59	0.05	0.9464
VARELA	1	b	0	1.09	2.80	2.29	0.0687
VAVILI	1	b	0	-0.50	11.30	5.24	0.0945
VENNER	6	m	0	0.09	27.66	0.22	0.6182
VENNER	3	f	0	0.18	28.98	0.00	0.3399
Subtotal	VENNER			-0.10	56.63	0.22	
VERHOE	2	b	0	-0.31	15.83	3.91	0.2126
VONMAF	1	b	0	0.23	78.55	0.17	0.0417
WARKE	1	b	0	-0.12	12.07	1.09	0.6860
*WICKMA	2	b	8	0.50	39.93	4.01	0.0016
WIJGA	1	b	17	-0.19	31.22	4.28	0.2978
WITHER	1	b	0	0.18	92.49	0.00	0.0890
WOLFO1	2	b	7	0.11	11.72	0.06	0.6981
WOLFO2	2	b	7	0.30	11.12	0.15	0.3170
WOLFO3	2	b	10	0.33	24.30	0.51	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.01	0.4914

RR data

N 110
NS 104

Wt 5733.42
Het Chi 289.80
Het df 109
Het P ***
Fixed RR 1.20
RRl 1.17
RRu 1.23
P +++
Random RR 1.23
RRl 1.17
RRu 1.29
P +++
Asymm P N.S.

Appendix Table C10 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma
 Adjusted

RR data

	N	110			
	NS	104			
	Wt	5733.42			
Het	Chi	289.80			
Het	df	109			
Het	P	***			
Fixed	RR	1.20			
	RRl	1.17			
	RRu	1.23			
	P	+++			
Random	RR	1.23			
	RRl	1.17			
	RRu	1.29			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	97	7	6	110
	NS	97	7	6	110
	Wt	5456.30	153.35	123.77	5733.42
Het	Chi	276.02	6.58	4.79	289.80
Het	df	96	6	5	109
Het	P	***	N.S.	N.S.	***
Fixed	RR	1.20	1.29	1.07	1.20
	RRl	1.17	1.10	0.90	1.17
	RRu	1.23	1.51	1.28	1.23
	P	+++	++	N.S.	+++
Random	RR	1.23	1.30	1.07	1.23
	RRl	1.17	1.10	0.90	1.17
	RRu	1.30	1.53	1.28	1.29
	P	+++	++	N.S.	+++
Between	Chi				2.41
Between	df				2
Between	P				N.S.

Appendix Table C10 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
3	CUNNI2	JAAKK2	KAPLAN	KELLY	NYSTAD	WEITZ1	XU	YUAN								
4	KASPER															
5	AKCAKA	BURR	DEBENE	FIELDE	FLYNN2	FREEM2	GOREN3	GOREN4	GOREN5	GOREN6	KALY01	KEARNE	LEVES1	LEVES2	LEVES3	MONTEF
	RUDNIK	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	ZEJDA	ZHANG							
15	ALFRA2	FARBE1	FARBE3	SPIEKE												

Appendix Table C10 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP																		
GILLIL	GILLIL	1	MCCON1/GILLIL																		
MCCON1	MCCON1	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																		
NICOLA	NICOLA	1	KABESC/NICOLA																		
RONMA2	RONMA1	2	RONMA1/RONMA2/RONMA3																		
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3																		
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				
FREEM2	1	b	4	5	all	NAMer	1998	2003	CS	2	AnyHh	NoHhMemb	current	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				
LEVES1	1	b	9	9	all	NAMer	1999	2004	CS	0	AnyHh	None	unspec	non	-	*	n				
LEVES2	1	b	13	13	all	NAMer	1999	2004	CS	0	AnyHh	None	unspec	non	-	*	n				
LEVES3	1	b	16	16	all	NAMer	1999	2004	CS	0	AnyHh	None	unspec	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				
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	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				
ZHANG	1	b	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	-	1.04	n				

Appendix Table C11 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C3 - 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 C11 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Current Asthma
Adjusted

REF	NRR	CompC3	SEX	AGE1	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	-
AGUDOT	4		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
ANNES2	3		b	13	14	all	Eu:wst	1993	2004	CS	2	TotETS	None	current	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	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	-
DUHME1	3		b	5	8	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME2	1		b	12	15	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME3	3		b	5	8	all	Eu:Ger	1995	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME4	1		b	12	15	all	Eu:Ger	1995	1998	CS	2	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	-
JANG	1		b	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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	-
MAVALE	7		b	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	unspec	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	-
MILLER	4		b	2	2	all	NAmer	*	2004	Pr	5	AnyHh	NoHhMemb	current	othr	-
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
NICOLA	2		b	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	non	-
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	-
RIBEIR	1		b	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non	-
RONMA1	1		b	7	8	all	Eu:Sca	1996	1998	CS	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	-
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	non	-
SHOHAT	4		b	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non	-

Appendix Table C11 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

REF	NRR	CompC3	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
SOTOQU	1		b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non	-
SPENGL	2		b	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	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	-
STURM	10		b	12	14	all	NAmer	1999	2004	CS	7	TotETS	None	unspec	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	-
WIJGA	2		b	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WILLE1	7		b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-
WOLF01	1		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	1		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	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 C11 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)
ANNES2	3	b	2	412	-	323	-	1.00 (	0.90-	1.20)
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	0	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)
DUHME1	3	b	2	-	-	-	-	1.15 (	0.90-	1.47)
DUHME2	1	b	2	-	-	-	-	1.10 (	0.90-	1.34)
DUHME3	3	b	2	-	-	-	-	0.96 (	0.70-	1.32)
DUHME4	1	b	2	-	-	-	-	1.47 (	1.18-	1.83)
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)
JAAKKO	2	b	7	71	-	93	-	1.21 (	0.85-	1.72)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
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)
MILLER	4	b	5	-	-	-	-	2.36 (	0.91-	6.10)
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)
NICOLA	2	b	0	62	1131	95	1836	1.06 (	0.76-	1.47)
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)
RONMA1	1	b	5	-	-	-	-	1.60 (	1.12-	2.28)
SARRAZ	1	b	0	6	8	8	13	1.22 (	0.31-	4.83)

Appendix Table C11 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
SCHMIT	1	b	4	-	-	-	-	2.07 (	1.21-	3.54)
SELCUK	4	b	6	240	-	68	-	1.28 (	0.94-	1.75)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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)
SPENGL	2	b	5	-	-	-	-	1.22 (	0.75-	2.03)
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)
STURM	10	b	7	-	-	-	-	1.59 (	1.49-	1.70)
TARIQ	16	b	7	-	-	-	-	1.20 (	0.30-	2.70)
TOMINA	2	b	0	2	479	24	1995	0.35 (	0.08-	1.47)
WANG	2	b	8	12212	-	8425	-	1.08 (	1.05-	1.12)
WIJGA	2	b	17	-	-	-	-	0.80 (	0.53-	1.20)
WILLE1	7	b	0	37	47	12	30	1.97 (	0.89-	4.36)
WOLF01	1	b	7	-	-	-	-	1.17 (	0.57-	2.43)
WOLF02	1	b	7	-	-	-	-	1.01 (	0.42-	2.41)
WOLF03	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				18642	11885	15229	17404			
*prospective study				~ With 0.5 adjustment for zero						

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDYOY	1	b	0	1.32	2.85	3.83	0.0262
AGABI1	14	b	11	0.29	107.50	1.95	0.0024
AGABI2	14	b	12	0.16	133.43	0.00	0.0697
AGUDOT	4	b	4	1.18	3.39	3.58	0.0291
ANNES2	3	b	2	0.00	185.67	4.64	1.0000
ARSHAD	1	b	7	1.20	1.82	1.99	0.1044
BERGMA	1	b	8	0.28	23.66	0.34	0.1769
CALL	1	b	0	-0.06	4.55	0.21	0.9029
CHEN2	50	b	1	0.07	12.24	0.10	0.8128
CHHABR	1	b	0	0.48	67.93	7.07	0.0001
CLARK	2	b	0	0.63	2.97	0.67	0.2753
CSONKA	1	b	0	0.47	16.83	1.64	0.0538
CUNNI1	1	b	0	-0.03	187.78	6.69	0.6744
DAIGLE	3	b	7	0.67	11.64	3.09	0.0217
DEKKER	6	b	9	0.40	117.58	6.81	0.0000
DIJKST	1	b	0	0.67	6.59	1.71	0.0865
DOTTER	1	m	6	-0.69	10.60	7.68	0.0240
DOTTER	2	f	6	-0.69	5.29	3.83	0.1110
Subtotal	DOTTER			-1.70	15.89	11.51	
DUHME1	3	b	2	0.14	63.84	0.02	0.2641
DUHME2	1	b	2	0.10	96.99	0.38	0.3479
DUHME3	3	b	2	-0.04	38.19	1.51	0.8008
DUHME4	1	b	2	0.39	79.80	4.12	0.0006
FAGBUL	2	b	1	0.34	14.40	0.50	0.1923
FORSB1	1	b	14	-0.36	24.72	6.55	0.0762
FORSB2	1	b	14	0.00	4.79	0.12	1.0000
FORSB3	1	b	15	-0.69	36.30	26.31	0.0000
FUJI	1	b	0	-0.27	15.01	2.76	0.2946
GILLIL	34	b	8	0.22	40.88	0.13	0.1690
GOLD	6	b	11	0.10	123.03	0.49	0.2904
GUPTA	2	b	2	0.58	47.97	8.40	0.0001
HABY	4	b	9	0.48	13.60	1.43	0.0752
HJERN1	16	b	9	-0.14	23.59	2.09	0.4988
HJERN2	16	b	9	-0.21	10.97	1.49	0.4853
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	0.83	0.0864
JAAKKO	2	b	7	0.19	30.93	0.03	0.2891
JANG	1	b	0	0.46	26.78	2.46	0.0170
JONES	2	b	0	0.16	9.47	0.00	0.6266
KARUNA	1	b	0	0.12	36.46	0.04	0.4564

Appendix Table C11 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
LAM1	16	b	4	-0.17	15.51	1.71	0.4923
LAM2	2	b	4	-0.27	16.06	3.00	0.2714
LAU	1	b	0	0.30	5.74	0.12	0.4716
LEE1	1	b	8	0.31	395.94	9.72	0.0000
LEE2	1	b	8	-0.01	224.74	6.35	0.8802
LEEN	1	b	0	-0.28	12.81	2.46	0.3157
LILLJE	1	b	0	0.09	42.18	0.22	0.5801
LINDFO	1	b	0	0.50	29.55	3.47	0.0065
MAVALE	7	b	0	0.78	9.68	3.74	0.0153
MELSOM	5	m	0	1.10	5.71	5.06	0.0086
MELSOM	6	f	0	0.00	2.82	0.07	1.0000
Subtotal	MELSOM			0.78	8.53	5.13	
MILLER	4	b	5	0.86	4.24	2.08	0.0769
MOHAME	1	b	0	0.47	8.00	0.78	0.1838
MOUSSA	1	b	0	1.10	0.37	0.33	0.5000
MUMCUO	6	b	0	-0.07	17.74	0.92	0.7676
NHANE3	61	b	6	0.22	14.00	0.06	0.4038
NICOLA	2	b	0	0.06	35.61	0.36	0.7304
NITTA	1	b	5	-0.09	14.17	0.90	0.7226
OHARA	6	b	4	-0.09	34.25	2.18	0.5810
PALMIE	3	b	0	-0.00	30.71	0.78	0.9963
PETERS	6	b	6	-0.15	44.74	4.27	0.3131
PIC	1	b	0	0.09	26.03	0.11	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMA1	1	b	5	0.47	30.41	2.96	0.0095
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
SHIVA	1	b	0	0.39	4.36	0.23	0.4160
SHOHAT	4	b	12	0.19	64.12	0.07	0.1269
SOTOQU	1	b	0	0.42	46.33	3.25	0.0040
SPENGL	2	b	5	0.20	15.50	0.03	0.4337
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	2.78	0.0006
STRACH	9	b	4	0.21	27.70	0.07	0.2759
STURM	10	b	7	0.46	883.86	82.56	0.0000
TARIQ	16	b	7	0.18	3.18	0.00	0.7450
TOMINA	2	b	0	-1.06	1.84	2.72	0.1515
WANG	2	b	8	0.08	3689.08	24.29	0.0000
WIJGA	2	b	17	-0.22	23.01	3.34	0.2845
WILLE1	7	b	0	0.68	6.06	1.63	0.0955
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	2.83	0.4310
ZHENG	19	b	6	0.34	51.44	1.64	0.0158

RR data

N	87
NS	85
Wt	7805.40
Het Chi	308.06
Het df	86
Het P	***
Fixed RR	1.17
RRl	1.15
RRu	1.20
P	+++
Random RR	1.18
RRl	1.11
RRu	1.26
P	+++
Asymm P	N.S.

Appendix Table C11 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

RR data

	N	87			
	NS	85			
	Wt	7805.40			
Het	Chi	308.06			
Het	df	86			
Het	P	***			
Fixed	RR	1.17			
	RRl	1.15			
	RRu	1.20			
	P	+++			
Random	RR	1.18			
	RRl	1.11			
	RRu	1.26			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	83	2	2	87
	NS	83	2	2	87
	Wt	7780.98	16.32	8.10	7805.40
Het	Chi	291.41	11.92	0.88	308.06
Het	df	82	1	1	86
Het	P	***	***	N.S.	***
Fixed	RR	1.17	0.94	0.64	1.17
	RRl	1.15	0.58	0.32	1.15
	RRu	1.20	1.52	1.27	1.20
	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				3.84
Between	df				2
Between	P				N.S.

Appendix Table C11 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR ZEJDA	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAACK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LIS POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LISTER PONSON SHAMSS VONMAF
3	CELEDO	LOPEZC	OLIVET	WEITZ1	WEITZ2											
4	CHINN	EHRLI1	KABESC	KNIGHT	SOMERV											
5	AZIZI	BALL	DEKOK	FIELDE	HALONE	HUGHES	KALY01	KALY02	MCCON2	MELIA	STERN2					
14	WILLE2															

Appendix Table C11 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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														
WOLF01	WOLF01	1	WOLF01/WOLF02/WOLF03														
WOLF02	WOLF02	1	WOLF01/WOLF02/WOLF03														
WOLF03	WOLF03	1	WOLF01/WOLF02/WOLF03														
CSONKA	CSONKA	1	JAAKK2/CSONKA														
NICOLA	NICOLA	1	KABESC/NICOLA														
DUHME1	BEHREN	2	DUHME1/BEHREN														
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3														
Adjusted - insufficient data for metaanalysis																	
REF	NRR	SEX	AGEI	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG
ADDOY0	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
HALONE	1	b	6	6	all	NAmer	1980	1999	Pr	0	Mother	NotMothr	in life	non	-	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	-	*	n
KALY01	2	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KALY02	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
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 C12 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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, CUNNI1(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 C11 - 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 C12 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma
Adjusted

REF	NRR	CompC11	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	-
AGUDOT	4		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
ANNES2	3		b	13	14	all	Eu:wst	1993	2004	CS	2	TotETS	None	current	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	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	-
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	-
DUHME1	3		b	5	8	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME2	1		b	12	15	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME3	3		b	5	8	all	Eu:Ger	1995	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME4	1		b	12	15	all	Eu:Ger	1995	1998	CS	2	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	-
JANG	1		b	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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	-
MAVALE	7		b	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	unspec	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	-
MILLER	4		b	2	2	all	NAmer	*	2004	Pr	5	AnyHh	NoHhMemb	current	othr	-
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
NICOLA	2		b	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	non	-
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	-
RIBEIR	1		b	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non	-
RONMA1	1		b	7	8	all	Eu:Sca	1996	1998	CS	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	-
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	non	-
SHOHAT	4		b	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non	-

Appendix Table C12 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma
Adjusted

REF	NRR	CompC11	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
SOTOQU	1		b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non	-
SPENGL	2		b	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	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	-
STURM	10		b	12	14	all	NAmer	1999	2004	CS	7	TotETS	None	unspec	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	-
WIJGA	2		b	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WILLE1	7		b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-
WOLF01	1		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	1		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	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 C12 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)
ANNES2	3	b	2	412	-	323	-	1.00 (	0.90-	1.20)
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	0	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)
DUHME1	3	b	2	-	-	-	-	1.15 (	0.90-	1.47)
DUHME2	1	b	2	-	-	-	-	1.10 (	0.90-	1.34)
DUHME3	3	b	2	-	-	-	-	0.96 (	0.70-	1.32)
DUHME4	1	b	2	-	-	-	-	1.47 (	1.18-	1.83)
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)
JAAKKO	2	b	7	71	-	93	-	1.21 (	0.85-	1.72)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
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)
MILLER	4	b	5	-	-	-	-	2.36 (	0.91-	6.10)
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)
NICOLA	2	b	0	62	1131	95	1836	1.06 (	0.76-	1.47)
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)
RONMA1	1	b	5	-	-	-	-	1.60 (	1.12-	2.28)
SARRAZ	1	b	0	6	8	8	13	1.22 (	0.31-	4.83)

Appendix Table C12 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma

Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
SCHMIT	1	b	4	-	-	-	-	2.07 (	1.21-	3.54)
SELCUK	4	b	6	240	-	68	-	1.28 (	0.94-	1.75)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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)
SPENGL	2	b	5	-	-	-	-	1.22 (	0.75-	2.03)
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)
STURM	10	b	7	-	-	-	-	1.59 (	1.49-	1.70)
TARIQ	16	b	7	-	-	-	-	1.20 (	0.30-	2.70)
TOMINA	2	b	0	2	479	24	1995	0.35 (	0.08-	1.47)
WANG	2	b	8	12212	-	8425	-	1.08 (	1.05-	1.12)
WIJGA	2	b	17	-	-	-	-	0.80 (	0.53-	1.20)
WILLE1	7	b	0	37	47	12	30	1.97 (	0.89-	4.36)
WOLF01	1	b	7	-	-	-	-	1.17 (	0.57-	2.43)
WOLF02	1	b	7	-	-	-	-	1.01 (	0.42-	2.41)
WOLF03	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				18642	11885	15081	17404			
*prospective study										
										~ With 0.5 adjustment for zero

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDYOY	1	b	0	1.32	2.85	3.83	0.0262
AGABI1	14	b	11	0.29	107.50	1.96	0.0024
AGABI2	14	b	12	0.16	133.43	0.00	0.0697
AGUDOT	4	b	4	1.18	3.39	3.58	0.0291
ANNES2	3	b	2	0.00	185.67	4.62	1.0000
ARSHAD	1	b	7	1.20	1.82	1.99	0.1044
BERGMA	1	b	8	0.28	23.66	0.34	0.1769
CALL	1	b	0	-0.06	4.55	0.21	0.9029
CHEN2	50	b	1	0.07	12.24	0.10	0.8128
CHHABR	1	b	0	0.48	67.93	7.09	0.0001
CLARK	2	b	0	0.63	2.97	0.67	0.2753
CSONKA	1	b	0	0.47	16.83	1.64	0.0538
CUNNI1	1	b	0	-0.03	187.78	6.66	0.6744
DAIGLE	3	b	7	0.67	11.64	3.09	0.0217
DEKKER	6	b	9	0.40	117.58	6.83	0.0000
DIJKST	1	b	0	0.67	6.59	1.72	0.0865
DOTTER	1	m	6	-0.69	10.60	7.67	0.0240
DOTTER	2	f	6	-0.69	5.29	3.83	0.1110
Subtotal	DOTTER			-1.70	15.89	11.50	
DUHME1	3	b	2	0.14	63.84	0.02	0.2641
DUHME2	1	b	2	0.10	96.99	0.38	0.3479
DUHME3	3	b	2	-0.04	38.19	1.50	0.8008
DUHME4	1	b	2	0.39	79.80	4.13	0.0006
FAGBUL	2	b	1	0.34	14.40	0.50	0.1923
FORSB1	1	b	14	-0.36	24.72	6.54	0.0762
FORSB2	1	b	14	0.00	4.79	0.12	1.0000
FORSB3	1	b	15	-0.69	36.30	26.28	0.0000
FUJI	1	b	0	-0.27	15.01	2.75	0.2946
GILLIL	33	b	8	0.26	37.99	0.42	0.1059
GOLD	5	b	11	0.05	103.06	1.22	0.6204
GUPTA	2	b	2	0.58	47.97	8.42	0.0001
HABY	4	b	9	0.48	13.60	1.43	0.0752
HJERN1	12	b	9	-0.27	20.69	3.86	0.2119
HJERN2	12	b	9	-0.21	9.64	1.31	0.5130
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	1.15	0.0697
INFANT	10	b	19	0.34	25.97	0.83	0.0864
JAAKKO	2	b	7	0.19	30.93	0.03	0.2891
JANG	1	b	0	0.46	26.78	2.47	0.0170
JONES	2	b	0	0.16	9.47	0.00	0.6266
KARUNA	1	b	0	0.12	36.46	0.04	0.4564

Appendix Table C12 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
LAM1	16	b	4	-0.17	15.51	1.71	0.4923
LAM2	2	b	4	-0.27	16.06	3.00	0.2714
LAU	1	b	0	0.30	5.74	0.12	0.4716
LEE1	1	b	8	0.31	395.94	9.78	0.0000
LEE2	1	b	8	-0.01	224.74	6.32	0.8802
LEEN	1	b	0	-0.28	12.81	2.46	0.3157
LILLJE	1	b	0	0.09	42.18	0.22	0.5801
LINDFO	1	b	0	0.50	29.55	3.48	0.0065
MAVALE	7	b	0	0.78	9.68	3.75	0.0153
MELSOM	5	m	0	1.10	5.71	5.06	0.0086
MELSOM	6	f	0	0.00	2.82	0.07	1.0000
Subtotal	MELSOM			0.78	8.53	5.13	
MILLER	4	b	5	0.86	4.24	2.09	0.0769
MOHAME	1	b	0	0.47	8.00	0.78	0.1838
MOUSSA	1	b	0	1.10	0.37	0.33	0.5000
MUMCUO	6	b	0	-0.07	17.74	0.92	0.7676
NHANE3	61	b	6	0.22	14.00	0.06	0.4038
NICOLA	2	b	0	0.06	35.61	0.36	0.7304
NITTA	1	b	5	-0.09	14.17	0.90	0.7226
OHARA	6	b	4	-0.09	34.25	2.17	0.5810
PALMIE	3	b	0	-0.00	30.71	0.77	0.9963
PETERS	6	b	6	-0.15	44.74	4.26	0.3131
PIC	1	b	0	0.09	26.03	0.11	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMA1	1	b	5	0.47	30.41	2.97	0.0095
SARRAZ	1	b	0	0.20	2.03	0.00	0.7783
SCHMIT	1	b	4	0.73	13.33	4.33	0.0079
SELCUK	4	b	6	0.25	39.78	0.32	0.1195
SHIVA	1	b	0	0.39	4.36	0.23	0.4160
SHOHAT	4	b	12	0.19	64.12	0.07	0.1269
SOTOQU	1	b	0	0.42	46.33	3.26	0.0040
SPENGL	2	b	5	0.20	15.50	0.03	0.4337
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	2.79	0.0006
STRACH	9	b	4	0.21	27.70	0.07	0.2759
STURM	10	b	7	0.46	883.86	82.79	0.0000
TARIQ	16	b	7	0.18	3.18	0.00	0.7450
TOMINA	2	b	0	-1.06	1.84	2.72	0.1515
WANG	2	b	8	0.08	3689.08	24.03	0.0000
WIJGA	2	b	17	-0.22	23.01	3.34	0.2845
WILLE1	7	b	0	0.68	6.06	1.64	0.0955
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	3.62	0.0159
YANG	2	b	10	-0.14	31.98	2.82	0.4310
ZHENG	19	b	6	0.34	51.44	1.64	0.0158

RR data

N	87
NS	85
Wt	7778.32
Het Chi	310.69
Het df	86
Het P	***
Fixed RR	1.17
RRl	1.15
RRu	1.20
P	+++
Random RR	1.18
RRl	1.11
RRu	1.26
P	+++
Asymm P	N.S.

Appendix Table C12 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

RR data

	N	87			
	NS	85			
	Wt	7778.32			
Het	Chi	310.69			
Het	df	86			
Het	P	***			
Fixed	RR	1.17			
	RRl	1.15			
	RRu	1.20			
	P	+++			
Random	RR	1.18			
	RRl	1.11			
	RRu	1.26			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	83	2	2	87
	NS	83	2	2	87
	Wt	7753.90	16.32	8.10	7778.32
Het	Chi	294.05	11.92	0.88	310.69
Het	df	82	1	1	86
Het	P	***	***	N.S.	***
Fixed	RR	1.17	0.94	0.64	1.17
	RRl	1.15	0.58	0.32	1.15
	RRu	1.20	1.52	1.27	1.20
	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				3.84
Between	df				2
Between	P				N.S.

Appendix Table C12 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR ZEJDA	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAACK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LIS POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LISTER PONSON SHAMSS VONMAF
3	CELEDO	LOPEZC	OLIVET	WEITZ1	WEITZ2											
4	CHINN	EHRLI1	KABESC	KNIGHT	SOMERV											
5	AZIZI	BALL	DEKOK	FIELDE	HALONE	HUGHES	KALY01	KALY02	MCCON2	MELIA	STERN2					
14	WILLE2															

Appendix Table C12 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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	
WOLF01	WOLF01	1	WOLF01/WOLF02/WOLF03	
WOLF02	WOLF02	1	WOLF01/WOLF02/WOLF03	
WOLF03	WOLF03	1	WOLF01/WOLF02/WOLF03	
CSONKA	CSONKA	1	JAAKK2/CSONKA	
NICOLA	NICOLA	1	KABESC/NICOLA	
DUHME1	BEHREN	2	DUHME1/BEHREN	
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3	

Adjusted - insufficient data for metaanalysis																	RR SIG
REF	NRR	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA		
ADDOY0	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
FIELD	2	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
HALONE	1	b	6	6	all	NAmer	1980	1999	Pr	0	Mother	NotMothr	in life	non	-	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	-	*	n
KALY01	2	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KALY02	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
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 C13 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C5 - 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 C13 - 1

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

REF	NRR	CompC5	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAW0	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
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	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
FAR00Q	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
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	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
NILSS0	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
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never
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
RONMA2	1		b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non
RONMA3	2		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
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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
STANH0	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
WARKE	1		b	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non

Appendix Table C13 - 1

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

REF	NRR	CompC5	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
WICKMA	2		b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non
WITHER	6		b	14	16	all	Eu:UK	1995	1998	CS	5	Mother	NotMothr	current	non

Appendix Table C13 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
AGUDOT 2		b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA 2		b	0	32	30	70	72	1.10 (	0.60-	1.99)
ALDAW0 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)
BENCIV 3		b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
MONTEI 1		b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)
NILSS0 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)
QIAN 1		b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
RONMA2 1		b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3 2		b	9	-	-	-	-	1.36 (	0.82-	2.25)
ROSASV 1		b	0	9	6	65	68	1.57 (	0.53-	4.66)
SHAMS2 2		b	0	-	-	-	-	0.99 (	0.81-	1.18)
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)
STANHO 2		b	0	7	169	20	193	0.40 (	0.16-	0.97)

Appendix Table C13 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
*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)
WARKE	1	b	0	55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA	2	b	8	64	-	251	-	1.65 (	1.21-	2.25)
WITHER	6	b	5	103	-	395	-	1.50 (	1.14-	1.98)
Partial Totals				6142	20989	9555	37911			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.20	0.3979
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
BENCIV	3	b	2	0.43	116.67	4.34	0.0000
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	3	b	0	0.11	6.23	0.10	0.7761
CHEN2	33	b	6	0.54	10.99	1.01	0.0723
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	0.26	0.0734
ECE	7	b	0	0.12	63.38	0.89	0.3376
EHRLI2	2	b	0	0.64	10.93	1.78	0.0338
FARBE2	2	b	3	0.41	57.72	1.73	0.0017
FAROOQ	1	b	0	0.25	72.93	0.02	0.0297
*FERGUS	7	b	0	0.04	37.52	1.50	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	5	b	1	-0.26	27.45	6.87	0.1709
KUHR	3	b	0	0.64	9.58	1.57	0.0461
LAM1	18	b	4	0.28	10.02	0.02	0.3796
LAM2	9	b	4	-0.14	42.22	6.04	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			0.76	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	3	b	0	0.27	962.51	0.99	0.0000
MONTEI	1	b	0	0.22	56.12	0.01	0.0946
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	0.16	
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	3.88	0.6131

Appendix Table C13 - 2

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

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
QIAN	1	b	7	0.75	3.96	1.02	0.1372
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
RONMA2	1	b	7	0.36	43.54	0.61	0.0183
*RONMA3	2	b	9	0.31	15.08	0.07	0.2324
ROSASV	1	b	0	0.45	3.25	0.15	0.4168
SHAMS2	2	b	0	-0.01	108.55	6.73	0.9166
SHAMSS	2	b	0	0.33	79.17	0.65	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	4	b	0	0.16	11.68	0.08	0.5953
STANHO	2	b	0	-0.92	4.90	6.55	0.0423
*TAYLOR	4	b	0	-0.04	72.55	5.68	0.7281
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	1	b	0	-0.30	19.94	5.89	0.1737
WARKE	1	b	0	-0.12	12.07	1.52	0.6860
*WICKMA	2	b	8	0.50	39.93	2.74	0.0016
WITHER	6	b	5	0.41	50.42	1.40	0.0040

RR data

	N	72
	NS	68
	Wt	3526.07
Het	Chi	106.06
Het	df	71
Het	P	**
Fixed	RR	1.27
	RRl	1.23
	RRu	1.31
	P	+++
Random	RR	1.26
	RRl	1.20
	RRu	1.33
	P	+++
Asymm	P	N.S.

Appendix Table C13 - 3

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

RR data

	N	72			
	NS	68			
	Wt	3526.07			
Het	Chi	106.06			
Het	df	71			
Het	P	**			
Fixed	RR	1.27			
	RRl	1.23			
	RRu	1.31			
	P	+++			
Random	RR	1.26			
	RRl	1.20			
	RRu	1.33			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both		male	female	Total
	N	63	5	4	72
	NS	63	5	4	72
	Wt	3363.29	94.79	68.00	3526.07
Het	Chi	99.15	4.01	2.27	106.06
Het	df	62	4	3	71
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	1.26	1.34	1.18	1.26
	RRl	1.20	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.

Appendix Table C13 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
2	AKCAKA	ANNES2	ARIF	BARRET	BECKET	BRABIN	CHEN1	FIELDE	FLYNN1	FLYNN2	FREEM1	FREEM2	GURKAN	KALY01	KASPER	KEARNE
	KENDIR	LEVES1	LEVES2	LEVES3	MAIER	MONTEF	MOYES1	MOYES2	NICOLA	ODDY	PIROGO	POKHAR	RONCH1	RONCH2	RONCH3	RUDNIK
	SELCUK	SENNHA	SPIEKE	SQUILL	TIMONE	TSIMOY	VARELA	VAVILI	WIJGA	WOLF01	WOLF02	WOLF03				
3	CUNNI2	GILLIL	JAAKK2	KAPLAN	KELLY	LEE3	NHANE3	NYSTAD	WEITZ1	XU	YUAN					
5	BURR	DEBENE	GOREN3	GOREN4	GOREN5	GOREN6	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	VONMAF	ZEIGER	ZEJDA	ZHANG
13	ALFRA2	FARBE1	FARBE3													

Appendix Table C13 - 8

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

REF REFGP PRINC			OVERLAP												
MCCON1	MCCON1	1	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												
RONMA2	RONMA1	2	RONMA1/RONMA2/RONMA3												
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3												
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
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	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
ZHANG	1	b	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	1.04 n

Appendix Table C14 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C13 - 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 C14 - 1

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

REF	NRR	CompC13	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAW0	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
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	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
FAR00Q	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
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	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
NILSS0	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
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never
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
RONMA2	1		b	8	9	all	Eu:UK	1997	2001	CS	7	Mother	NotMothr	unspec	non
RONMA3	2		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
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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
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
WARKE	1		b	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non

Appendix Table C14 - 1

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

REF	NRR	CompC13	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
WICKMA	2		b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non
WITHER	4	x	b	14	16	all	Eu:UK	1995	1998	CS	0	Mother	NoHhMemb	current	non

Appendix Table C14 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
AGUDOT 2		b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA 2		b	0	32	30	70	72	1.10 (	0.60-	1.99)
ALDAW0 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)
BENCIV 3		b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
MONTEI 1		b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)
NILSS0 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)
QIAN 1		b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
RONMA2 1		b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3 2		b	9	-	-	-	-	1.36 (	0.82-	2.25)
ROSASV 1		b	0	9	6	65	68	1.57 (	0.53-	4.66)
SHAMS2 2		b	0	-	-	-	-	0.99 (	0.81-	1.18)
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)
STANHO 2		b	0	7	169	20	193	0.40 (	0.16-	0.97)

Appendix Table C14 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
*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)
WARKE	1	b	0	55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA	2	b	8	64	-	251	-	1.65 (	1.21-	2.25)
WITHER	4	b	0	103	299	296	1107	1.29 (	1.00-	1.67)
Partial Totals				6142	21449	8499	34462			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.19	0.3979
ALBA	2	b	0	0.09	10.78	0.27	0.7608
ALDAWO	2	m	0	0.76	8.40	2.18	0.0274
ALFRA1	2	b	0	0.41	22.65	0.58	0.0498
ANDRAE	2	b	3	-0.01	54.89	3.76	0.9406
ANNESI	1	b	0	0.25	89.09	0.00	0.0166
BENCIV	3	b	2	0.43	116.67	3.79	0.0000
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	1.58	1.0000
Subtotal	BURCHF			-0.29	57.49	1.62	
BUTZ	2	b	0	0.21	5.62	0.01	0.6222
CHEN2	32	b	6	0.71	9.26	1.93	0.0312
DELL	2	b	0	0.42	18.30	0.51	0.0733
DODGE	12	b	1	0.41	7.12	0.17	0.2794
DOLD	7	b	0	0.19	92.36	0.39	0.0734
ECE	2	b	0	0.22	47.66	0.05	0.1329
EHRLI2	2	b	0	0.64	10.93	1.66	0.0338
FARBE2	2	b	3	0.41	57.72	1.49	0.0017
FAROOQ	1	b	0	0.25	72.93	0.00	0.0297
*FERGUS	7	b	0	0.04	37.52	1.69	0.8106
FORAST	20	b	9	0.25	37.10	0.00	0.1327
GOLD	11	b	0	0.26	211.41	0.00	0.0002
GOREN1	1	b	0	0.31	19.03	0.06	0.1764
GOREN2	5	b	2	0.22	99.84	0.13	0.0316
GORTM1	3	b	7	0.40	36.85	0.80	0.0155
GORTM2	1	b	0	0.63	6.99	0.98	0.0978
HAJNAL	3	b	13	0.15	49.92	0.53	0.2943
HU1	4	b	7	-0.22	12.73	2.87	0.4259
HU2	23	b	3	0.44	31.16	1.09	0.0144
JENKIN	5	b	7	0.23	116.41	0.05	0.0126
KAY	20	b	1	0.35	38.89	0.38	0.0288
KERSHA	6	b	1	1.28	10.88	11.59	0.0000
KIVITY	4	b	0	0.59	13.44	1.52	0.0311
KUEHR	5	b	1	-0.26	27.45	7.22	0.1709
KUHR	6	b	6	0.95	4.95	2.40	0.0350
LAM1	18	b	4	0.28	10.02	0.01	0.3796
LAM2	9	b	4	-0.14	42.22	6.45	0.3655
*LEEDER	2	b	1	0.29	8.17	0.01	0.4149
LEROUX	2	b	10	0.58	14.02	1.53	0.0293
LIS	1	b	0	0.31	37.30	0.12	0.0604
LISTER	3	b	8	0.42	64.33	1.80	0.0008
*MARTIN	5	m	1	0.56	11.93	1.13	0.0533
*MARTIN	6	f	1	0.68	5.55	1.03	0.1075
Subtotal	MARTIN			0.74	17.48	2.16	
*MCCON1	2	b	5	-0.01	24.89	1.70	0.9600
MCCON2	1	b	0	0.79	3.43	1.00	0.1420
*MCKEEV	2	b	0	0.31	891.60	2.78	0.0000
MONTEI	1	b	0	0.22	56.12	0.05	0.0946
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	0.12	
NILSSO	1	b	0	0.00	31.98	2.03	1.0000
OCONNE	1	b	0	0.25	33.98	0.00	0.1384
*PONSON	9	b	0	0.12	76.77	1.23	0.2736

Appendix Table C14 - 2

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

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
QIAN	1	b	7	0.75	3.96	0.97	0.1372
RASANE	3	b	3	0.46	27.24	1.23	0.0155
RATAGE	3	b	0	-0.09	9.55	1.15	0.7697
RENNIE	1	b	6	0.02	13.41	0.72	0.9422
RONMA2	1	b	7	0.36	43.54	0.49	0.0183
*RONMA3	2	b	9	0.31	15.08	0.05	0.2324
ROSASV	1	b	0	0.45	3.25	0.13	0.4168
SHAMS2	2	b	0	-0.01	108.55	7.43	0.9166
SHAMSS	2	b	0	0.33	79.17	0.48	0.0034
*SHERMA	2	b	2	0.17	19.90	0.15	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	6.70	0.0423
*TAYLOR	4	b	0	-0.04	72.55	6.21	0.7281
VENNER	6	m	0	0.09	27.66	0.68	0.6182
VENNER	3	f	0	0.18	28.98	0.16	0.3399
Subtotal	VENNER			-0.23	56.63	0.84	
VERHOE	2	b	0	-0.31	15.83	5.05	0.2126
WARKE	1	b	0	-0.12	12.07	1.63	0.6860
*WICKMA	2	b	8	0.50	39.93	2.48	0.0016
WITHER	4	b	0	0.25	57.69	0.00	0.0543

RR data

	N	72
	NS	68
	Wt	3391.76
Het	Chi	106.75
Het	df	71
Het	P	**
Fixed	RR	1.29
	RRl	1.24
	RRu	1.33
	P	+++
Random	RR	1.27
	RRl	1.21
	RRu	1.33
	P	+++
Asymm	P	N.S.

Appendix Table C14 - 3

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

RR data

	N	72			
	NS	68			
	Wt	3391.76			
Het	Chi	106.75			
Het	df	71			
Het	P	**			
Fixed	RR	1.29			
	RRl	1.24			
	RRu	1.33			
	P	+++			
Random	RR	1.27			
	RRl	1.21			
	RRu	1.33			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both		male	female	Total
	N	63	5	4	72
	NS	63	5	4	72
	Wt	3228.97	94.79	68.00	3391.76
Het	Chi	99.82	4.01	2.27	106.75
Het	df	62	4	3	71
Het	P	**	N.S.	N.S.	**
Fixed	RR	1.29	1.34	1.18	1.29
	RRl	1.24	1.09	0.93	1.24
	RRu	1.33	1.64	1.50	1.33
	P	+++	++	N.S.	+++
Random	RR	1.27	1.34	1.18	1.27
	RRl	1.20	1.09	0.93	1.21
	RRu	1.34	1.64	1.50	1.33
	P	+++	++	N.S.	+++
Between	Chi				0.66
Between	df				2
Between	P				N.S.

Appendix Table C14 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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 DEKOK HJERN1 LILLJE RIBEIR WEITZ2	AGABI1 DIJKST HJERN2 LINDFO RONMA1 WILLE1	AGABI2 DOTTER HOST LOPEZC SARRAZ WILLE2	ARSHAD DUHME1 HUGHES MAVALE SCHMIT YANG	AZIZI DUHME2 INFANT MELIA SHIVA ZHENG	BALL DUHME3 JAAKKO MELSOM SHOHAT	BERGMA DUHME4 JANG MILLER SOMERV	CALL EHRLI1 JONES MOHAME SOTOQU	CELEDO FAGBUL KABESC MOUSSA SPENGL	CHHABR FORSB1 KALY02 MUMCUO STERN1	CHINN FORSB2 KARUNA NITTA STODDA	CLARK FORSB3 KNIGHT OHARA STRACH	CSONKA FUJI LAU OLIVET STURM	CUNNI1 GUPTA LEE1 PALMIE TARIQ	DAIGLE HABY LEE2 PETERS TOMINA	DEKKER HALONE LEEN PIC WANG
2	AKCAKA KENDIR SELCUK	ANNES2 LEVES1 SENNHA	ARIF LEVES2 SPIEKE	BARRET LEVES3 SQUILL	BECKET MAIER TIMONE	BRABIN MONTEF TSIMOY	CHEN1 MOYES1 VARELA	FIELDE MOYES2 VAVILI	FLYNN1 NICOLA WIJGA	FLYNN2 ODDY WOLF01	FREEM1 PIROGO WOLF02	FREEM2 POKHAR WOLF03	GURKAN RONCH1	KALY01 RONCH2	KASPER RONCH3	KEARNE RUDNIK
3	CUNNI2	GILLIL	JAAKK2	KAPLAN	KELLY	LEE3	NHANE3	NYSTAD	WEITZ1	XU	YUAN					
5	BURR	DEBENE	GOREN3	GOREN4	GOREN5	GOREN6	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	VONMAF	ZEIGER	ZEJDA	ZHANG
13	ALFRA2	FARBE1	FARBE3													

Appendix Table C14 - 8

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

REF REFGP PRINC			OVERLAP													
MCCON1	MCCON1	1	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													
RONMA2	RONMA1	2	RONMA1/RONMA2/RONMA3													
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3													
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
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	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
ZHANG	1	b	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	1.04	n

Appendix Table C15 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C7 - 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 C15 - 1

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

REF	NRR	CompC7	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
AGUDOT	4		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	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
JANG	1		b	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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
MAVALE	7		b	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	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
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
RONMA1	1		b	7	8	all	Eu:Sca	1996	1998	CS	5	Mother	NotMothr	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	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
SPENGL	2		b	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	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 C15 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
AGABI1	14	b	11	558	-	148	-	1.34 (	1.11-	1.62)
AGABI2	14	b	12	700	-	203	-	1.17 (	0.99-	1.39)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)
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)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
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)
RONMA1	1	b	5	-	-	-	-	1.60 (	1.12-	2.28)
SCHMIT	1	b	4	-	-	-	-	2.07 (	1.21-	3.54)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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)
SPENGL	2	b	5	-	-	-	-	1.22 (	0.75-	2.03)
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				3438	4188	4752	8667			
*prospective study				~ With 0.5 adjustment for zero						

Appendix Table C15 - 2

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

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	14	b	11	0.29	107.50	0.68	0.0024
AGABI2	14	b	12	0.16	133.43	0.42	0.0697
AGUDOT	4	b	4	1.18	3.39	3.20	0.0291
ARSHAD	1	b	7	1.20	1.82	1.78	0.1044
CHEN2	46	b	1	0.02	10.00	0.37	0.9501
DAIGLE	3	b	7	0.67	11.64	2.46	0.0217
FAGBUL	2	b	1	0.34	14.40	0.24	0.1923
GILLIL	36	b	8	-0.11	12.73	1.29	0.7070
GOLD	6	b	11	0.10	123.03	1.71	0.2904
HABY	4	b	9	0.48	13.60	0.99	0.0752
HJERN1	16	b	9	-0.14	23.59	2.93	0.4988
HJERN2	16	b	9	-0.21	10.97	1.97	0.4853
HOST	1	b	0	-0.12	7.87	0.85	0.7459
HU1	6	b	0	0.02	14.41	0.52	0.9302
HU2	24	b	3	0.39	22.17	0.66	0.0697
INFANT	10	b	19	0.34	25.97	0.39	0.0864
JANG	1	b	0	0.46	26.78	1.64	0.0170
JONES	2	b	0	0.16	9.47	0.03	0.6266
LAM1	20	b	4	0.76	3.25	0.96	0.1727
LAM2	12	b	4	-0.37	11.81	4.03	0.2022
LAU	1	b	0	0.30	5.74	0.04	0.4716
LEEN	1	b	0	-0.28	12.81	3.12	0.3157
LILLJE	1	b	0	0.09	42.18	0.69	0.5801
LINDFO	1	b	0	0.50	29.55	2.44	0.0065
MAVALE	7	b	0	0.78	9.68	3.11	0.0153
MOUSSA	1	b	0	1.10	0.37	0.30	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.62	0.0258
OHARA	6	b	4	-0.09	34.25	3.24	0.5810
PALMIE	3	b	0	-0.00	30.71	1.41	0.9963
PIC	1	b	0	0.09	26.03	0.38	0.6397
RIBEIR	1	b	0	0.18	7.76	0.01	0.6116
RONMA1	1	b	5	0.47	30.41	2.00	0.0095
SCHMIT	1	b	4	0.73	13.33	3.53	0.0079
SHIVA	1	b	0	0.39	4.36	0.14	0.4160
SHOHAT	4	b	12	0.19	64.12	0.03	0.1269
SOTOQU	1	b	0	0.42	46.33	2.04	0.0040
SPENGL	2	b	5	0.20	15.50	0.00	0.4337
STANHO	1	b	0	-1.02	3.66	5.58	0.0507
STERN1	1	b	0	0.11	11.71	0.13	0.7107
STODDA	10	b	9	0.31	124.44	1.10	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	2.97	0.1515
WILLE1	7	b	0	0.68	6.06	1.30	0.0955
ZHENG	26	b	0	0.71	6.34	1.56	0.0739

RR data

	N	45
	NS	45
	Wt	1146.36
Het	Chi	67.90
Het	df	44
Het	P	*
Fixed	RR	1.24
	RRl	1.17
	RRu	1.31
	P	+++
Random	RR	1.24
	RRl	1.14
	RRu	1.35
	P	+++
Asymm	P	N.S.

Appendix Table C15 - 3

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

RR data

	N	45			
	NS	45			
	Wt	1146.36			
Het	Chi	67.90			
Het	df	44			
Het	P	*			
Fixed	RR	1.24			
	RRl	1.17			
	RRu	1.31			
	P	+++			
Random	RR	1.24			
	RRl	1.14			
	RRu	1.35			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	45			45
	NS	45			45
	Wt	1146.36			1146.36
Het	Chi	67.90			67.90
Het	df	44			44
Het	P	*			*
Fixed	RR	1.24			1.24
	RRl	1.17			1.17
	RRu	1.31			1.31
	P	+++			+++
Random	RR	1.24			1.24
	RRl	1.14			1.14
	RRu	1.35			1.35
	P	+++			+++
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C15 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR TIMONE	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAAKK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LEVES3 POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LIS PONSON SHAMSS VONMAF
2	ADDOYO FUJI PETERS	ANNES2 GUPTA SARRAZ	CALL JAAKKO SELCUK	CHHABR KABESC STURM	CLARK KALY01 WANG	DEKKER KALY02 WIJGA	DIJKST KARUNA WILLE2	DOTTER KNIGHT WOLF01	DUHME1 LEE1 WOLF02	DUHME2 LEE2 WOLF03	DUHME3 MELIA YANG	DUHME4 MELSOM	FIELDE MILLER	FORSB1 NHANE3	FORSB2 NICOLA	FORSB3 NITTA
3	BERGMA	CELEDO	CSONKA	EHRLI1	LOPEZC	OLIVET	WEITZ1	WEITZ2								
4	CHINN	SOMERV														
5	AZIZI	BALL	CUNNI1	DEKOK	HALONE	HUGHES	MCCON2	MOHAME	STERN2							

Appendix Table C15 - 8

Children - Meta-analysis of Parental Exposure during Lifetime, 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													
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3													
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
HALONE	1	b	6	6	all	NAmer	1980	1999	Pr	0	Mother	NotMothr	in life	non	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	*	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 C16 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C15 - 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 C16 - 1

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

REF	NRR	CompC15	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
AGUDOT	4		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	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
JANG	1		b	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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
MAVALE	7		b	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	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
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
RONMA1	1		b	7	8	all	Eu:Sca	1996	1998	CS	5	Mother	NotMothr	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	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
SPENGL	2		b	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	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 C16 - 2

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

				Numbers Exposed		Non-exposed			
REF	NRR	SEX	ADJ	Case	Control	Case	Control	RR	95.00%CI
AGABI1	14	b	11	558	-	148	-	1.34 (	1.11- 1.62)
AGABI2	14	b	12	700	-	203	-	1.17 (	0.99- 1.39)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13- 9.49)
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)
JANG	1	b	0	205	145	74	83	1.59 (	1.09- 2.32)
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16- 4.10)
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)
RONMA1	1	b	5	-	-	-	-	1.60 (	1.12- 2.28)
SCHMIT	1	b	4	-	-	-	-	2.07 (	1.21- 3.54)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58- 3.77)
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)
SPENGL	2	b	5	-	-	-	-	1.22 (	0.75- 2.03)
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				3438	4188	4668	8667		
*prospective study				~ With 0.5 adjustment for zero					

Appendix Table C16 - 2

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

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	14	b	11	0.29	107.50	0.72	0.0024
AGABI2	14	b	12	0.16	133.43	0.38	0.0697
AGUDOT	4	b	4	1.18	3.39	3.22	0.0291
ARSHAD	1	b	7	1.20	1.82	1.79	0.1044
CHEN2	45	b	1	0.07	8.99	0.18	0.8392
DAIGLE	3	b	7	0.67	11.64	2.49	0.0217
FAGBUL	2	b	1	0.34	14.40	0.25	0.1923
GILLIL	36	b	8	-0.11	12.73	1.27	0.7070
GOLD	5	b	11	0.05	103.06	2.70	0.6204
HABY	4	b	9	0.48	13.60	1.01	0.0752
HJERN1	12	b	9	-0.27	20.69	4.87	0.2119
HJERN2	12	b	9	-0.21	9.64	1.71	0.5130
HOST	1	b	0	-0.12	7.87	0.84	0.7459
HU1	6	b	0	0.02	14.41	0.51	0.9302
HU2	24	b	3	0.39	22.17	0.68	0.0697
INFANT	10	b	19	0.34	25.97	0.41	0.0864
JANG	1	b	0	0.46	26.78	1.68	0.0170
JONES	2	b	0	0.16	9.47	0.03	0.6266
LAM1	20	b	4	0.76	3.25	0.97	0.1727
LAM2	12	b	4	-0.37	11.81	4.00	0.2022
LAU	1	b	0	0.30	5.74	0.05	0.4716
LEEN	1	b	0	-0.28	12.81	3.09	0.3157
LILLJE	1	b	0	0.09	42.18	0.66	0.5801
LINDFO	1	b	0	0.50	29.55	2.49	0.0065
MAVALE	7	b	0	0.78	9.68	3.14	0.0153
MOUSSA	1	b	0	1.10	0.37	0.30	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.62	0.0258
OHARA	6	b	4	-0.09	34.25	3.18	0.5810
PALMIE	3	b	0	-0.00	30.71	1.37	0.9963
PIC	1	b	0	0.09	26.03	0.37	0.6397
RIBEIR	1	b	0	0.18	7.76	0.01	0.6116
RONMA1	1	b	5	0.47	30.41	2.05	0.0095
SCHMIT	1	b	4	0.73	13.33	3.56	0.0079
SHIVA	1	b	0	0.39	4.36	0.14	0.4160
SHOHAT	4	b	12	0.19	64.12	0.03	0.1269
SOTOQU	1	b	0	0.42	46.33	2.09	0.0040
SPENGL	2	b	5	0.20	15.50	0.00	0.4337
STANHO	1	b	0	-1.02	3.66	5.55	0.0507
STERN1	1	b	0	0.11	11.71	0.12	0.7107
STODDA	10	b	9	0.31	124.44	1.17	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	2.96	0.1515
WILLE1	7	b	0	0.68	6.06	1.32	0.0955
ZHENG	26	b	0	0.71	6.34	1.58	0.0739

RR data

	N	45
	NS	45
	Wt	1121.16
Het	Chi	70.54
Het	df	44
Het	P	**
Fixed	RR	1.23
	RRl	1.16
	RRu	1.31
	P	+++
Random	RR	1.24
	RRl	1.13
	RRu	1.35
	P	+++
Asymm	P	N.S.

Appendix Table C16 - 3

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

RR data

	N	45			
	NS	45			
	Wt	1121.16			
Het	Chi	70.54			
Het	df	44			
Het	P	**			
Fixed	RR	1.23			
	RRl	1.16			
	RRu	1.31			
	P	+++			
Random	RR	1.24			
	RRl	1.13			
	RRu	1.35			
	P	+++			
Asymm	P	N.S.			
	both		<u>Sex</u>		
			male	female	Total
	N	45			45
	NS	45			45
	Wt	1121.16			1121.16
Het	Chi	70.54			70.54
Het	df	44			44
Het	P	**			**
Fixed	RR	1.23			1.23
	RRl	1.16			1.16
	RRu	1.31			1.31
	P	+++			+++
Random	RR	1.24			1.24
	RRl	1.13			1.13
	RRu	1.35			1.35
	P	+++			+++
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C16 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR TIMONE	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAAKK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LEVES3 POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LIS PONSON SHAMSS VONMAF
2	ADDOYO FUJI PETERS	ANNES2 GUPTA SARRAZ	CALL JAAKKO SELCUK	CHHABR KABESC STURM	CLARK KALY01 WANG	DEKKER KALY02 WIJGA	DIJKST KARUNA WILLE2	DOTTER KNIGHT WOLF01	DUHME1 LEE1 WOLF02	DUHME2 LEE2 WOLF03	DUHME3 MELIA YANG	DUHME4 MELSOM	FIELDE MILLER	FORSB1 NHANE3	FORSB2 NICOLA	FORSB3 NITTA
3	BERGMA	CELEDO	CSONKA	EHRLI1	LOPEZC	OLIVET	WEITZ1	WEITZ2								
4	CHINN	SOMERV														
5	AZIZI	BALL	CUNNI1	DEKOK	HALONE	HUGHES	MCCON2	MOHAME	STERN2							

Appendix Table C16 - 8

Children - Meta-analysis of Parental Exposure during Lifetime, 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	
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3	

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
HALONE	1	b	6	6	all	NAmer	1980	1999	Pr	0	Mother	NotMothr	in life	non	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	*	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 C17 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C1 - 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 C17 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	CompC1	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
ALBA	1		b	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALDAW0	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	-
ANNES2	4		b	13	14	all	Eu:wst	1993	2004	CS	2	TotETS	None	current	non	-
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
ARIF	2		b	0	16	all	NAmer	2001	2004	CS	10	AnyHh	NoHhMemb	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	-
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	unspec	non	-
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	-
FREEM1	2		b	7	11	all	NAmer	1998	2003	CS	2	AnyHh	NoHhMemb	current	non	-
GILLIL	70	x	b	8	12	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	ever	never	-
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	-
LEE3	5		b	6	15	all	As:FE	2001	2003	CS	0	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	-
MAIER	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	-
MCCON1	3		m	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	non	-
MCCON1	4		f	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	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	-
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	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
NICOLA	1		b	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	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	-
ODDY	1		b	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-

Appendix Table C17 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma
 Adjusted

REF	NRR	CompC1	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	
PIROGO	3		b	0	15	all	Eu:est	*	2004	CS	0	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	-	
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never	-	
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	-	
RONMA2	1		b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non	-	
RONMA3	2		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	-	
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	-	
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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	every1yr	ago	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	-	
WARKE	1		b	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non	-	
WICKMA	2		b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non	-	
WIJGA	1		b	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-	
WITHER	1		b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-	
WOLF01	2		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-	
WOLF02	2		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-	
WOLF03	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 C17 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	1	b	0	68	70	34	32	0.91 (	0.51-	1.64)
ALDAW0	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)
ANNES2	4	b	2	904	-	699	-	1.10 (	0.90-	1.20)
ANNESI	1	b	0	164	1243	255	2491	1.29 (	1.05-	1.59)
ARIF	2	b	10	46	-	161	-	0.98 (	0.65-	1.47)
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)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
FREEM1	2	b	2	-	-	-	-	2.10 (	1.72-	2.56)
GILLIL	70	b	0	48	303	217	1264	0.92 (	0.66-	1.29)
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)
LEE3	5	b	0	1114	16604	1094	13428	0.82 (	0.76-	0.90)
*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)
*MCCON1	3	m	3	-	-	-	-	1.53 (	1.03-	2.26)
*MCCON1	4	f	3	-	-	-	-	0.84 (	0.59-	1.19)
Subtotal	MCCON1							1.10 (	0.84-	1.42)
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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)

Appendix Table C17 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
Subtotal	MURRAY									
NHANE3	28	b	6	424	-	175	-	1.37 (	0.91-	2.07)
NICOLA	1	b	0	126	1043	192	1710	1.16 (	0.77-	1.76)
NILSSO	1	b	0	-	-	-	-	1.08 (	0.85-	1.36)
OCONE	1	b	0	-	-	-	-	1.00 (	0.70-	1.40)
*ODDY	1	b	0	264	137	136	91	1.29 (	0.92-	1.80)
PIROGO	3	b	4	-	-	-	-	1.27 (	1.04-	1.55)
POKHAR	2	b	0	13	82	4	37	1.47 (	0.45-	4.80)
*PONSON	8	b	5	27	-	13	-	3.33 (	1.85-	7.65)
QIAN	1	b	6	185	-	88	-	1.03 (	0.83-	1.26)
RASANE	3	b	7	-	-	-	-	2.11 (	0.79-	5.66)
RATAGE	1	b	3	101	-	76	-	1.59 (	1.09-	2.31)
RENNIE	1	b	0	62	30	58	30	1.07 (	0.58-	1.99)
RONCH1	7	b	6	-	-	-	-	1.02 (	0.60-	1.75)
RONCH2	3	b	2	40	-	83	-	1.40 (	1.02-	1.91)
RONCH3	3	b	0	60	351	93	726	1.33 (	0.94-	1.89)
RONMA2	1	b	0	40	312	91	696	0.98 (	0.66-	1.46)
*RONMA3	2	b	7	-	-	-	-	1.43 (	1.06-	1.92)
ROSASV	1	b	9	-	-	-	-	1.36 (	0.82-	2.25)
SELCUK	2	b	0	9	6	65	68	1.57 (	0.53-	4.66)
SENNHA	1	b	6	689	-	193	-	1.35 (	1.12-	1.62)
SHAMS2	2	b	0	119	1631	132	2268	1.25 (	0.97-	1.62)
SHAMSS	2	b	0	-	-	-	-	0.99 (	0.81-	1.18)
*SHERMA	1	b	0	-	-	-	-	1.39 (	1.12-	1.74)
*SIGURS	1	b	2	-	-	-	-	1.09 (	0.68-	1.74)
SOYSET	3	b	0	-	-	-	-	1.20 (	0.41-	3.60)
SQUILL	1	b	0	24	237	27	330	1.24 (	0.70-	2.20)
STANHO	2	b	0	38	80	97	226	1.11 (	0.70-	1.74)
*TAYLOR	4	b	0	7	169	20	193	0.40 (	0.16-	0.97)
TIMONE	1	b	0	-	4855	-	4815	0.96 (	0.77-	1.22)
TSIMOY	1	b	0	10	225	170	2139	0.56 (	0.29-	1.07)
VARELA	1	b	0	9	123	4	57	1.04 (	0.31-	3.53)
VAVILI	1	b	0	27	13	7	10	2.97 (	0.92-	9.57)
VENNER	6	b	0	60	74	40	30	0.61 (	0.34-	1.09)
VENNER	3	m	0	217	477	48	116	1.10 (	0.76-	1.60)
Subtotal	VENNER	f	0	214	466	50	130	1.19 (	0.83-	1.72)
VERHOE	3	b	0	-	-	-	-	1.15 (	0.88-	1.49)
VONMAF	1	b	0	78	185	39	72	0.78 (	0.49-	1.25)
WARKE	1	b	0	166	766	217	1260	1.26 (	1.01-	1.57)
*WICKMA	2	b	0	55	27	119	52	0.89 (	0.51-	1.56)
WIJGA	1	b	8	64	-	251	-	1.65 (	1.21-	2.25)
WITHER	1	b	17	-	-	-	-	0.83 (	0.59-	1.19)
WOLF01	2	b	0	202	633	296	1107	1.19 (	0.97-	1.46)
WOLF02	2	b	7	-	-	-	-	1.12 (	0.63-	1.98)
WOLF03	2	b	7	-	-	-	-	1.35 (	0.75-	2.43)
*ZEIGER	1	b	10	-	-	-	-	1.39 (	0.93-	2.06)
Partial Totals		b	0	8	22	42	143	1.24 (	0.67-	2.28)
*prospective study				12574	50152	13378	57803			

Appendix Table C17 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.30	0.3979
ALBA	1	b	0	-0.09	11.15	0.82	0.7647
ALDAW0	2	m	0	0.76	8.40	2.82	0.0274
ALFRA1	2	b	0	0.41	22.65	1.21	0.0498
ANDRAE	2	b	3	-0.01	54.89	2.01	0.9406
ANNES2	4	b	2	0.10	185.67	1.37	0.1941
ANNESI	1	b	0	0.25	89.09	0.47	0.0166
ARIF	2	b	10	-0.02	23.07	0.94	0.9227
BARRET	1	b	0	0.52	5.17	0.59	0.2373
BECKET	6	b	7	0.27	67.46	0.53	0.0266
BENCIV	3	b	2	0.43	116.67	7.33	0.0000
BENER	1	b	0	0.24	19.32	0.08	0.2839
BRABIN	2	b	1	0.06	58.33	0.88	0.6563
BURCHF	5	m	1	0.22	32.51	0.04	0.2200
BURCHF	8	f	1	0.00	24.97	0.82	1.0000
Subtotal	BURCHF			-0.15	57.49	0.86	
BUTZ	7	b	1	0.17	9.31	0.00	0.6135
CHEN1	1	b	0	0.25	11.14	0.05	0.4102
CHEN2	37	b	6	0.51	12.65	1.39	0.0681
DELL	2	b	0	0.42	18.30	1.03	0.0733
DODGE	12	b	1	0.41	7.12	0.36	0.2794
DOLD	21	b	1	0.10	113.12	0.83	0.3107
ECE	3	b	0	0.18	79.23	0.00	0.1041
EHRLI2	3	b	0	0.63	11.17	2.22	0.0363
FARBE2	2	b	3	0.41	57.72	3.08	0.0017
FAROOQ	1	b	0	0.25	72.93	0.39	0.0297
*FERGUS	7	b	0	0.04	37.52	0.76	0.8106
FLYNN1	1	b	0	0.23	47.28	0.12	0.1120
FORAST	20	b	9	0.25	37.10	0.16	0.1327
FREEM1	2	b	2	0.74	97.16	30.55	0.0000
GILLIL	70	b	0	-0.08	33.86	2.32	0.6399
GOLD	11	b	0	0.26	211.41	1.17	0.0002
GOREN1	3	b	0	0.07	27.97	0.34	0.7071
GOREN2	5	b	2	0.22	99.84	0.11	0.0316
GORTM1	3	b	7	0.40	36.85	1.74	0.0155
GORTM2	1	b	0	0.63	6.99	1.38	0.0978
GURKAN	1	b	0	0.63	11.10	2.19	0.0372
HAJNAL	1	b	13	0.18	63.05	0.00	0.1477
HU1	4	b	7	-0.22	12.73	2.08	0.4259
HU2	23	b	3	0.44	31.16	2.06	0.0144
JENKIN	5	b	7	0.23	116.41	0.29	0.0126
KAY	20	b	1	0.35	38.89	1.12	0.0288
KENDIR	1	b	0	0.34	99.03	2.61	0.0006
KERSHA	7	b	1	1.14	11.69	10.69	0.0001
KIVITY	4	b	0	0.59	13.44	2.22	0.0311
KUEHR	6	b	1	-0.39	19.88	6.39	0.0855
KUHR	4	b	0	0.70	5.57	1.49	0.0997
LAM1	8	b	4	-0.08	79.06	5.53	0.4585
LAM2	1	b	4	-0.09	53.37	4.05	0.4908
LEE3	5	b	0	-0.19	513.76	72.40	0.0000
*LEEDER	2	b	1	0.29	8.17	0.09	0.4149
LEROUX	2	b	10	0.58	14.02	2.25	0.0293
LIS	1	b	0	0.31	37.30	0.59	0.0604
LISTER	3	b	8	0.42	64.33	3.63	0.0008
MAIER	5	b	8	0.82	13.60	5.47	0.0026
*MARTIN	5	m	1	0.56	11.93	1.71	0.0533
*MARTIN	6	f	1	0.68	5.55	1.40	0.1075
Subtotal	MARTIN			0.88	17.48	3.11	
*MCCON1	3	m	3	0.43	24.88	1.48	0.0339
*MCCON1	4	f	3	-0.17	31.22	3.95	0.3300
Subtotal	MCCON1			-0.11	56.10	5.43	
MCCON2	2	b	0	-0.58	1.65	0.97	0.4523
*MCKEEV	4	b	0	0.27	1119.12	8.99	0.0000
MONTEI	1	b	0	0.22	56.12	0.10	0.0946
MOYES1	1	b	0	0.06	120.55	1.90	0.5411
MOYES2	1	b	0	-0.06	115.09	6.57	0.5355
MURRAY	5	m	1	0.34	14.28	0.38	0.1941
MURRAY	7	f	1	0.27	8.50	0.07	0.4311
Subtotal	MURRAY			0.25	22.78	0.44	

Appendix Table C17 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
NHANE3	28	b	6	0.15	22.48	0.02	0.4816
NICOLA	1	b	0	0.07	68.08	0.79	0.5460
NILSS0	1	b	0	0.00	31.98	1.05	1.0000
OCONNE	1	b	0	0.25	33.98	0.18	0.1384
*ODDY	1	b	4	0.24	96.50	0.32	0.0189
PIROGO	3	b	0	0.38	2.73	0.11	0.5269
POKHAR	2	b	5	1.20	7.63	7.96	0.0009
*PONSON	8	b	6	0.03	88.18	2.03	0.7813
QIAN	1	b	7	0.75	3.96	1.27	0.1372
RASANE	3	b	3	0.46	27.24	2.17	0.0155
RATAGE	1	b	0	0.07	10.00	0.13	0.8330
RENNIE	1	b	6	0.02	13.41	0.35	0.9422
RONCH1	7	b	2	0.34	39.05	0.94	0.0355
RONCH2	3	b	0	0.29	31.60	0.36	0.1048
RONCH3	3	b	0	-0.02	24.61	0.99	0.9224
RONMA2	1	b	7	0.36	43.54	1.36	0.0183
*RONMA3	2	b	9	0.31	15.08	0.24	0.2324
ROSASV	1	b	0	0.45	3.25	0.24	0.4168
SELCUK	2	b	6	0.30	112.79	1.59	0.0014
SENNHA	1	b	0	0.23	58.71	0.12	0.0833
SHAMS2	2	b	0	-0.01	108.55	3.97	0.9166
SHAMSS	2	b	0	0.33	79.17	1.74	0.0034
*SHERMA	1	b	2	0.09	17.41	0.16	0.7192
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOYSET	3	b	0	0.21	11.63	0.01	0.4670
SQUILL	1	b	0	0.10	18.67	0.12	0.6613
STANHO	2	b	0	-0.92	4.90	5.91	0.0423
*TAYLOR	4	b	0	-0.04	72.55	3.58	0.7281
TIMONE	1	b	0	-0.58	9.03	5.25	0.0808
TSIMOY	1	b	0	0.04	2.59	0.05	0.9464
VARELA	1	b	0	1.09	2.80	2.30	0.0687
VAVILI	1	b	0	-0.50	11.30	5.20	0.0945
VENNER	6	m	0	0.09	27.66	0.21	0.6182
VENNER	3	f	0	0.18	28.98	0.00	0.3399
Subtotal	VENNER			-0.09	56.63	0.21	
VERHOE	3	b	0	-0.25	17.31	3.23	0.2972
VONMAF	1	b	0	0.23	78.55	0.19	0.0417
WARKE	1	b	0	-0.12	12.07	1.07	0.6860
*WICKMA	2	b	8	0.50	39.93	4.08	0.0016
WIJGA	1	b	17	-0.19	31.22	4.22	0.2978
WITHER	1	b	0	0.18	92.49	0.00	0.0890
WOLF01	2	b	7	0.11	11.72	0.05	0.6981
WOLF02	2	b	7	0.30	11.12	0.16	0.3170
WOLF03	2	b	10	0.33	24.30	0.53	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.01	0.4914

RR data

N	109
NS	104
Wt	5928.56
Het Chi	285.14
Het df	108
Het P	***
Fixed RR	1.20
RRl	1.17
RRu	1.23
P	+++
Random RR	1.23
RRl	1.17
RRu	1.29
P	+++
Asymm P	N.S.

Appendix Table C17 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma
 Adjusted

RR data

	N	109			
	NS	104			
	Wt	5928.56			
Het	Chi	285.14			
Het	df	108			
Het	P	***			
Fixed	RR	1.20			
	RRl	1.17			
	RRu	1.23			
	P	+++			
Random	RR	1.23			
	RRl	1.17			
	RRu	1.29			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both	male	female	Total	
	N	98	6	5	109
	NS	98	6	5	109
	Wt	5709.68	119.67	99.22	5928.56
Het	Chi	272.26	4.36	4.73	285.14
Het	df	97	5	4	108
Het	P	***	N.S.	N.S.	***
Fixed	RR	1.20	1.38	1.06	1.20
	RRl	1.17	1.15	0.87	1.17
	RRu	1.23	1.65	1.29	1.23
	P	+++	+++	N.S.	+++
Random	RR	1.22	1.38	1.07	1.23
	RRl	1.16	1.15	0.86	1.17
	RRu	1.29	1.65	1.34	1.29
	P	+++	+++	N.S.	+++
Between	Chi				3.77
Between	df				2
Between	P				N.S.

Appendix Table C17 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

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	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
3	CUNNI2	JAAKK2	KAPLAN	KELLY	NYSTAD	WEITZ1	XU	YUAN								
4	KASPER															
5	AKCAKA	BURR	DEBENE	FIELDE	FLYNN2	FREEM2	GOREN3	GOREN4	GOREN5	GOREN6	KALY01	KEARNE	LEVES1	LEVES2	LEVES3	MONTEF
	RUDNIK	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	ZEJDA	ZHANG							
15	ALFRA2	FARBE1	FARBE3	SPIEKE												

Appendix Table C17 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP	Adjusted - insufficient data for metaanalysis														RR	SIG
REF	NRR	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA				
GILLIL	GILLIL	1				MCCON1/GILLIL												*	n
MCCON1	MCCON1	1				MCCON1/GILLIL												1.01	?
FARBE2	FARBE2	1				FARBE1/FARBE2/FARBE3												*	n
BRABIN	BRABIN	1				KELLY/BRABIN												*	n
KUEHR	KUEHR	1				KUEHR/SPIEKE												*	n
ALFRA1	ALFRA1	1				ALFRA1/ALFRA2												*	n
GOREN1	GOREN1	1				GOREN1/GOREN3/4/5/6												1.46	y
WOLF01	WOLF01	1				WOLF01/WOLF02/WOLF03												*	n
WOLF02	WOLF02	1				WOLF01/WOLF02/WOLF03												*	n
WOLF03	WOLF03	1				WOLF01/WOLF02/WOLF03												*	n
NICOLA	NICOLA	1				KABESC/NICOLA												*	n
RONMA2	RONMA1	2				RONMA1/RONMA2/RONMA3												*	y
RONMA3	RONMA3	1				RONMA1/RONMA2/RONMA3												*	n
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
FIELD	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
FREEM2	1	b	4	5	all	Namer	1998	2003	CS	2	AnyHh	NoHhMemb	current	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
LEVES1	1	b	9	9	all	Namer	1999	2004	CS	0	AnyHh	None	unspec	non	-			*	n
LEVES2	1	b	13	13	all	Namer	1999	2004	CS	0	AnyHh	None	unspec	non	-			*	n
LEVES3	1	b	16	16	all	Namer	1999	2004	CS	0	AnyHh	None	unspec	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
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	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
ZHANG	1	b	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	-			1.04	n

Appendix Table C18 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C17 - 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 C18 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	CompC17	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
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	-
ANNES2	4		b	13	14	all	Eu:wst	1993	2004	CS	2	TotETS	None	current	non	-
ANNESI	1		b	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
ARIF	2		b	0	16	all	NAmer	2001	2004	CS	10	AnyHh	NoHhMemb	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	-
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	unspec	non	-
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	-
FREEM1	2		b	7	11	all	NAmer	1998	2003	CS	2	AnyHh	NoHhMemb	current	non	-
GILLIL	70		b	8	12	all	NAmer	1993	2001	CS	0	AnyHh	NoHhMemb	ever	never	-
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	-
LEE3	5		b	6	15	all	As:FE	2001	2003	CS	0	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	-
MAIER	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	-
MCCON1	3		m	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	non	-
MCCON1	4		f	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	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	-
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	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
NICOLA	1		b	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	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	-
ODDY	1		b	0	6	all	Auslia	1989	1999	Pr	4	AnyHh	NoHhMemb	unspec	non	-

Appendix Table C18 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	CompC17	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
PIROGO	3		b	0	15	all Eu:est	*	2004	CS	0	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	-	
QIAN	1		b	5	14	all As:FE	1988	2000	CS	7	Father	NotFathr	ever	never	-	
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	-	
RONMA2	1		b	8	9	all Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non	-	
RONMA3	2		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	-	
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	-	
SHAMS2	2		b	13	14	all Eu:UK	*	2001	CS	0	Mother	NotMothr	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	ever1yrago	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	-	
WARKE	1		b	5	14	all Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non	-	
WICKMA	2		b	0	2	all Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non	-	
WIJGA	1		b	3	3	all Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-	
WITHER	1		b	14	16	all Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-	
WOLF01	2		b	8	8	all Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-	
WOLF02	2		b	10	10	all Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-	
WOLF03	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 C18 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	1	b	0	68	70	34	32	0.91 (	0.51-	1.64)
ALDAW0	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)
ANNES2	4	b	2	904	-	699	-	1.10 (	0.90-	1.20)
ANNESI	1	b	0	164	1243	255	2491	1.29 (	1.05-	1.59)
ARIF	2	b	10	46	-	161	-	0.98 (	0.65-	1.47)
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)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
FREEM1	2	b	2	-	-	-	-	2.10 (	1.72-	2.56)
GILLIL	70	b	0	48	303	217	1264	0.92 (	0.66-	1.29)
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)
LEE3	5	b	0	1114	16604	1094	13428	0.82 (	0.76-	0.90)
*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)
*MCCON1	3	m	3	-	-	-	-	1.53 (	1.03-	2.26)
*MCCON1	4	f	3	-	-	-	-	0.84 (	0.59-	1.19)
Subtotal MCCON1								1.10 (	0.84-	1.42)
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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)

Appendix Table C18 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
Subtotal	MURRAY									
NHANE3	28	b	6	424	-	175	-	1.37 (	0.91-	2.07)
NICOLA	1	b	0	126	1043	192	1710	1.16 (	0.77-	1.76)
NILSSO	1	b	0	-	-	-	-	1.08 (	0.85-	1.36)
OCONE	1	b	0	-	-	-	-	1.00 (	0.70-	1.40)
*ODDY	1	b	0	264	137	136	91	1.29 (	0.92-	1.80)
PIROGO	3	b	4	-	-	-	-	1.27 (	1.04-	1.55)
POKHAR	2	b	0	13	82	4	37	1.47 (	0.45-	4.80)
*PONSON	8	b	5	27	-	13	-	3.33 (	1.85-	7.65)
QIAN	1	b	6	185	-	88	-	1.03 (	0.83-	1.26)
RASANE	3	b	7	-	-	-	-	2.11 (	0.79-	5.66)
RATAGE	1	b	3	101	-	76	-	1.59 (	1.09-	2.31)
RENNIE	1	b	0	62	30	58	30	1.07 (	0.58-	1.99)
RONCH1	7	b	6	-	-	-	-	1.02 (	0.60-	1.75)
RONCH2	3	b	2	40	-	83	-	1.40 (	1.02-	1.91)
RONCH3	3	b	0	60	351	93	726	1.33 (	0.94-	1.89)
RONMA2	1	b	0	40	312	91	696	0.98 (	0.66-	1.46)
*RONMA3	2	b	7	-	-	-	-	1.43 (	1.06-	1.92)
ROSASV	1	b	9	-	-	-	-	1.36 (	0.82-	2.25)
SELCUK	2	b	0	9	6	65	68	1.57 (	0.53-	4.66)
SENNHA	1	b	6	689	-	193	-	1.35 (	1.12-	1.62)
SHAMS2	2	b	0	119	1631	132	2268	1.25 (	0.97-	1.62)
SHAMSS	2	b	0	-	-	-	-	0.99 (	0.81-	1.18)
*SHERMA	1	b	0	-	-	-	-	1.39 (	1.12-	1.74)
*SIGURS	1	b	2	-	-	-	-	1.09 (	0.68-	1.74)
SOYSET	3	b	0	-	-	-	-	1.20 (	0.41-	3.60)
SQUILL	1	b	0	24	237	27	330	1.24 (	0.70-	2.20)
STANHO	2	b	0	38	80	97	226	1.11 (	0.70-	1.74)
*TAYLOR	4	b	0	7	169	20	193	0.40 (	0.16-	0.97)
TIMONE	1	b	0	-	4855	-	4815	0.96 (	0.77-	1.22)
TSIMOY	1	b	0	10	225	170	2139	0.56 (	0.29-	1.07)
VARELA	1	b	0	9	123	4	57	1.04 (	0.31-	3.53)
VAVILI	1	b	0	27	13	7	10	2.97 (	0.92-	9.57)
VENNER	6	b	0	60	74	40	30	0.61 (	0.34-	1.09)
VENNER	3	m	0	217	477	48	116	1.10 (	0.76-	1.60)
Subtotal	VENNER	f	0	214	466	50	130	1.19 (	0.83-	1.72)
VERHOE	3	b	0	-	-	-	-	1.15 (	0.88-	1.49)
VONMAF	1	b	0	78	185	39	72	0.78 (	0.49-	1.25)
WARKE	1	b	0	166	766	217	1260	1.26 (	1.01-	1.57)
*WICKMA	2	b	0	55	27	119	52	0.89 (	0.51-	1.56)
WIJGA	1	b	8	64	-	251	-	1.65 (	1.21-	2.25)
WITHER	1	b	17	-	-	-	-	0.83 (	0.59-	1.19)
WOLF01	2	b	0	202	633	296	1107	1.19 (	0.97-	1.46)
WOLF02	2	b	7	-	-	-	-	1.12 (	0.63-	1.98)
WOLF03	2	b	7	-	-	-	-	1.35 (	0.75-	2.43)
*ZEIGER	1	b	10	-	-	-	-	1.39 (	0.93-	2.06)
Partial Totals		b	0	8	22	42	143	1.24 (	0.67-	2.28)
*prospective study				12574	50152	13378	57803			

Appendix Table C18 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.30	0.3979
ALBA	1	b	0	-0.09	11.15	0.82	0.7647
ALDAW0	2	m	0	0.76	8.40	2.82	0.0274
ALFRA1	2	b	0	0.41	22.65	1.21	0.0498
ANDRAE	2	b	3	-0.01	54.89	2.01	0.9406
ANNES2	4	b	2	0.10	185.67	1.37	0.1941
ANNESI	1	b	0	0.25	89.09	0.47	0.0166
ARIF	2	b	10	-0.02	23.07	0.94	0.9227
BARRET	1	b	0	0.52	5.17	0.59	0.2373
BECKET	6	b	7	0.27	67.46	0.53	0.0266
BENCIV	3	b	2	0.43	116.67	7.33	0.0000
BENER	1	b	0	0.24	19.32	0.08	0.2839
BRABIN	2	b	1	0.06	58.33	0.88	0.6563
BURCHF	5	m	1	0.22	32.51	0.04	0.2200
BURCHF	8	f	1	0.00	24.97	0.82	1.0000
Subtotal	BURCHF			-0.15	57.49	0.86	
BUTZ	7	b	1	0.17	9.31	0.00	0.6135
CHEN1	1	b	0	0.25	11.14	0.05	0.4102
CHEN2	37	b	6	0.51	12.65	1.39	0.0681
DELL	2	b	0	0.42	18.30	1.03	0.0733
DODGE	12	b	1	0.41	7.12	0.36	0.2794
DOLD	21	b	1	0.10	113.12	0.83	0.3107
ECE	3	b	0	0.18	79.23	0.00	0.1041
EHRLI2	3	b	0	0.63	11.17	2.22	0.0363
FARBE2	2	b	3	0.41	57.72	3.08	0.0017
FAROOQ	1	b	0	0.25	72.93	0.39	0.0297
*FERGUS	7	b	0	0.04	37.52	0.76	0.8106
FLYNN1	1	b	0	0.23	47.28	0.12	0.1120
FORAST	20	b	9	0.25	37.10	0.16	0.1327
FREEM1	2	b	2	0.74	97.16	30.55	0.0000
GILLIL	70	b	0	-0.08	33.86	2.32	0.6399
GOLD	11	b	0	0.26	211.41	1.17	0.0002
GOREN1	3	b	0	0.07	27.97	0.34	0.7071
GOREN2	5	b	2	0.22	99.84	0.11	0.0316
GORTM1	3	b	7	0.40	36.85	1.74	0.0155
GORTM2	1	b	0	0.63	6.99	1.38	0.0978
GURKAN	1	b	0	0.63	11.10	2.19	0.0372
HAJNAL	1	b	13	0.18	63.05	0.00	0.1477
HU1	4	b	7	-0.22	12.73	2.08	0.4259
HU2	23	b	3	0.44	31.16	2.06	0.0144
JENKIN	5	b	7	0.23	116.41	0.29	0.0126
KAY	20	b	1	0.35	38.89	1.12	0.0288
KENDIR	1	b	0	0.34	99.03	2.61	0.0006
KERSHA	7	b	1	1.14	11.69	10.69	0.0001
KIVITY	4	b	0	0.59	13.44	2.22	0.0311
KUEHR	6	b	1	-0.39	19.88	6.39	0.0855
KUHR	4	b	0	0.70	5.57	1.49	0.0997
LAM1	8	b	4	-0.08	79.06	5.53	0.4585
LAM2	1	b	4	-0.09	53.37	4.05	0.4908
LEE3	5	b	0	-0.19	513.76	72.40	0.0000
*LEEDER	2	b	1	0.29	8.17	0.09	0.4149
LEROUX	2	b	10	0.58	14.02	2.25	0.0293
LIS	1	b	0	0.31	37.30	0.59	0.0604
LISTER	3	b	8	0.42	64.33	3.63	0.0008
MAIER	5	b	8	0.82	13.60	5.47	0.0026
*MARTIN	5	m	1	0.56	11.93	1.71	0.0533
*MARTIN	6	f	1	0.68	5.55	1.40	0.1075
Subtotal	MARTIN			0.88	17.48	3.11	
*MCCON1	3	m	3	0.43	24.88	1.48	0.0339
*MCCON1	4	f	3	-0.17	31.22	3.95	0.3300
Subtotal	MCCON1			-0.11	56.10	5.43	
MCCON2	2	b	0	-0.58	1.65	0.97	0.4523
*MCKEEV	4	b	0	0.27	1119.12	8.99	0.0000
MONTEI	1	b	0	0.22	56.12	0.10	0.0946
MOYES1	1	b	0	0.06	120.55	1.90	0.5411
MOYES2	1	b	0	-0.06	115.09	6.57	0.5355
MURRAY	5	m	1	0.34	14.28	0.38	0.1941
MURRAY	7	f	1	0.27	8.50	0.07	0.4311
Subtotal	MURRAY			0.25	22.78	0.44	

Appendix Table C18 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
NHANE3	28	b	6	0.15	22.48	0.02	0.4816
NICOLA	1	b	0	0.07	68.08	0.79	0.5460
NILSS0	1	b	0	0.00	31.98	1.05	1.0000
OCONNE	1	b	0	0.25	33.98	0.18	0.1384
*ODDY	1	b	4	0.24	96.50	0.32	0.0189
PIROGO	3	b	0	0.38	2.73	0.11	0.5269
POKHAR	2	b	5	1.20	7.63	7.96	0.0009
*PONSON	8	b	6	0.03	88.18	2.03	0.7813
QIAN	1	b	7	0.75	3.96	1.27	0.1372
RASANE	3	b	3	0.46	27.24	2.17	0.0155
RATAGE	1	b	0	0.07	10.00	0.13	0.8330
RENNIE	1	b	6	0.02	13.41	0.35	0.9422
RONCH1	7	b	2	0.34	39.05	0.94	0.0355
RONCH2	3	b	0	0.29	31.60	0.36	0.1048
RONCH3	3	b	0	-0.02	24.61	0.99	0.9224
RONMA2	1	b	7	0.36	43.54	1.36	0.0183
*RONMA3	2	b	9	0.31	15.08	0.24	0.2324
ROSASV	1	b	0	0.45	3.25	0.24	0.4168
SELCUK	2	b	6	0.30	112.79	1.59	0.0014
SENNHA	1	b	0	0.23	58.71	0.12	0.0833
SHAMS2	2	b	0	-0.01	108.55	3.97	0.9166
SHAMSS	2	b	0	0.33	79.17	1.74	0.0034
*SHERMA	1	b	2	0.09	17.41	0.16	0.7192
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOYSET	3	b	0	0.21	11.63	0.01	0.4670
SQUILL	1	b	0	0.10	18.67	0.12	0.6613
STANHO	2	b	0	-0.92	4.90	5.91	0.0423
*TAYLOR	4	b	0	-0.04	72.55	3.58	0.7281
TIMONE	1	b	0	-0.58	9.03	5.25	0.0808
TSIMOY	1	b	0	0.04	2.59	0.05	0.9464
VARELA	1	b	0	1.09	2.80	2.30	0.0687
VAVILI	1	b	0	-0.50	11.30	5.20	0.0945
VENNER	6	m	0	0.09	27.66	0.21	0.6182
VENNER	3	f	0	0.18	28.98	0.00	0.3399
Subtotal	VENNER			-0.09	56.63	0.21	
VERHOE	3	b	0	-0.25	17.31	3.23	0.2972
VONMAF	1	b	0	0.23	78.55	0.19	0.0417
WARKE	1	b	0	-0.12	12.07	1.07	0.6860
*WICKMA	2	b	8	0.50	39.93	4.08	0.0016
WIJGA	1	b	17	-0.19	31.22	4.22	0.2978
WITHER	1	b	0	0.18	92.49	0.00	0.0890
WOLF01	2	b	7	0.11	11.72	0.05	0.6981
WOLF02	2	b	7	0.30	11.12	0.16	0.3170
WOLF03	2	b	10	0.33	24.30	0.53	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.01	0.4914

RR data

N	109
NS	104
Wt	5928.56
Het Chi	285.14
Het df	108
Het P	***
Fixed RR	1.20
RRl	1.17
RRu	1.23
P	+++
Random RR	1.23
RRl	1.17
RRu	1.29
P	+++
Asymm P	N.S.

Appendix Table C18 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma
 Adjusted

RR data

	N	109			
	NS	104			
	Wt	5928.56			
Het	Chi	285.14			
Het	df	108			
Het	P	***			
Fixed	RR	1.20			
	RRl	1.17			
	RRu	1.23			
	P	+++			
Random	RR	1.23			
	RRl	1.17			
	RRu	1.29			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both	male	female	Total	
	N	98	6	5	109
	NS	98	6	5	109
	Wt	5709.68	119.67	99.22	5928.56
Het	Chi	272.26	4.36	4.73	285.14
Het	df	97	5	4	108
Het	P	***	N.S.	N.S.	***
Fixed	RR	1.20	1.38	1.06	1.20
	RRl	1.17	1.15	0.87	1.17
	RRu	1.23	1.65	1.29	1.23
	P	+++	+++	N.S.	+++
Random	RR	1.22	1.38	1.07	1.23
	RRl	1.16	1.15	0.86	1.17
	RRu	1.29	1.65	1.34	1.29
	P	+++	+++	N.S.	+++
Between	Chi				3.77
Between	df				2
Between	P				N.S.

Appendix Table C18 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
3	CUNNI2	JAAKK2	KAPLAN	KELLY	NYSTAD	WEITZ1		XU	YUAN							
4	KASPER															
5	AKCAKA	BURR	DEBENE	FIELDE	FLYNN2	FREEM2	GOREN3	GOREN4	GOREN5	GOREN6	KALY01	KEARNE	LEVES1	LEVES2	LEVES3	MONTEF
	RUDNIK	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	ZEJDA	ZHANG							
15	ALFRA2	FARBE1	FARBE3	SPIEKE												

Appendix Table C18 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP	
GILLIL	GILLIL	1	MCCON1/GILLIL	
MCCON1	MCCON1	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	
NICOLA	NICOLA	1	KABESC/NICOLA	
RONMA2	RONMA1	2	RONMA1/RONMA2/RONMA3	
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3	

Adjusted - insufficient data for metaanalysis															
REF	NRR	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
AKCAKA	1	b	6	15	all	Eu:est	1996	2000	CS	0	AnyHh	NoHhMemb	unspec	non	-
ALFRA1	4	b	7	12	all	As:ME	1986	1990	CS	6	Mother	NotMothr	unspec	non	-
BRABIN	3	b	5	11	all	Eu:UK	1991	1994	CS	6	AnyHh	NoHhMemb	unspec	non	-
BURR	1	b	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	-
DEBENE	1	b	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	-
ECE	8	b	6	15	all	Eu:est	1999	2001	CS	3	AnyHh	NoHhMemb	current	non	-
FIELD	1	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-
FLYNN2	1	b	9	10	all	Auslia	1991	1994	CS	0	AnyHh	NoHhMemb	unspec	non	-
FREEM2	1	b	4	5	all	Namer	1998	2003	CS	2	AnyHh	NoHhMemb	current	non	-
GOREN3	1	b	13	14	all	As:ME	1980	1997	CS	5	Mother	NotMothr	current	non	-
GOREN6	1	b	13	14	all	As:ME	1989	1997	CS	5	Mother	NotMothr	current	non	-
KALY01	1	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-
KEARNE	1	m	6	12	all	Eu:wst	1997	1998	CS	0	AnyHh	NoHhMemb	current	non	-
KIVITY	5	b	8	17	all	As:ME	*	2001	CS	4	AnyPar	NoParent	unspec	non	-
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	-
LEVES1	1	b	9	9	all	Namer	1999	2004	CS	0	AnyHh	None	unspec	non	-
LEVES2	1	b	13	13	all	Namer	1999	2004	CS	0	AnyHh	None	unspec	non	-
LEVES3	1	b	16	16	all	Namer	1999	2004	CS	0	AnyHh	None	unspec	non	-
LISTER	9	b	0	4	all	Auslia	1989	1998	CS	0	AnyHh	NoHhMemb	current	non	-
MONTEF	1	b	5	8	all	Eu:wst	*	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-
RASANE	2	b	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	-
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	non	-
RUDNIK	1	b	8	10	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-
RUDNIK	2	b	11	13	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-
RUDNIK	3	b	14	16	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-
SANZOR	1	b	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	-
SCHENK	1	b	5	14	all	Namer	1979	1983	CS	3	Mother	NotMothr	unspec	non	-
SOYSET	9	b	7	13	all	Eu:Sca	1989	1995	CS	1	Mother	NotMothr	<1y	non	-
STAZI	7	b	0	5	all	Eu:Ita	1993	2002	CS	7	Mother	NotMothr	in life	non	-
STERN2	7	b	7	12	all	Namer	*	1989	CS	0	Mother	NotMothr	<2y	non	-
TIMONE	2	b	7	12	all	Eu:Sca	1993	1995	CS	0	AnyHh	NoHhMemb	<2y	non	-
ULRIK	1	b	7	23	all	Eu:Sca	1986	1996	Pr	4	AnyPar	NoParent	unspec	non	-
VOLKME	2	b	4	5	all	Auslia	1993	1995	CS	7	AnyPar	NoParent	unspec	non	-
ZEIGER	3	b	0	7	all	Namer	1981	1995	Pr	4	AnyHh	NoHhMemb	unspec	non	-
ZEJDA	1	b	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	-
ZHANG	1	b	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	-

Appendix Table C19 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C3 - 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 C19 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma

Adjusted

REF	NRR	CompC3	SEX	AGE1	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	-
AGUDOT	4		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
ANNES2	3		b	13	14	all	Eu:wst	1993	2004	CS	2	TotETS	None	current	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	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
CONKA	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	-
DUHME1	3		b	5	8	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME2	1		b	12	15	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME3	3		b	5	8	all	Eu:Ger	1995	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME4	1		b	12	15	all	Eu:Ger	1995	1998	CS	2	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	Aus:lia	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	-
JANG	1		b	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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	-
MAVALE	7		b	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	unspec	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	-
MILLER	4		b	2	2	all	NAmer	*	2004	Pr	5	AnyHh	NoHhMemb	current	othr	-
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
NICOLA	2		b	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	non	-
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	-
RIBEIR	1		b	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non	-
RONMA1	1		b	7	8	all	Eu:Sca	1996	1998	CS	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	-
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	non	-
SHOHAT	4		b	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non	-

Appendix Table C19 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

REF	NRR	CompC3	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
SOTOQU	1		b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non	-
SPENGL	2		b	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	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	-
STURM	10		b	12	14	all	NAmer	1999	2004	CS	7	TotETS	None	unspec	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	-
WIJGA	2		b	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WILLE1	7		b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-
WOLF01	1		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	1		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	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 C19 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)
ANNES2	3	b	2	412	-	323	-	1.00 (	0.90-	1.20)
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)
CSOKA	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)
DUHME1	3	b	2	-	-	-	-	1.15 (	0.90-	1.47)
DUHME2	1	b	2	-	-	-	-	1.10 (	0.90-	1.34)
DUHME3	3	b	2	-	-	-	-	0.96 (	0.70-	1.32)
DUHME4	1	b	2	-	-	-	-	1.47 (	1.18-	1.83)
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)
JAAKKO	2	b	7	71	-	93	-	1.21 (	0.85-	1.72)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
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)
MILLER	4	b	5	-	-	-	-	2.36 (	0.91-	6.10)
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)
NICOLA	2	b	0	62	1131	95	1836	1.06 (	0.76-	1.47)
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)
RONMA1	1	b	5	-	-	-	-	1.60 (	1.12-	2.28)
SARRAZ	1	b	0	6	8	8	13	1.22 (	0.31-	4.83)

Appendix Table C19 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
SCHMIT	1	b	4	-	-	-	-	2.07 (	1.21-	3.54)
SELCUK	4	b	6	240	-	68	-	1.28 (	0.94-	1.75)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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)
SPENGL	2	b	5	-	-	-	-	1.22 (	0.75-	2.03)
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)
STURM	10	b	7	-	-	-	-	1.59 (	1.49-	1.70)
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)
WANG	2	b	8	12212	-	8425	-	1.08 (	1.05-	1.12)
WIJGA	2	b	17	-	-	-	-	0.80 (	0.53-	1.20)
WILLE1	7	b	0	37	47	12	30	1.97 (	0.89-	4.36)
WOLF01	1	b	7	-	-	-	-	1.17 (	0.57-	2.43)
WOLF02	1	b	7	-	-	-	-	1.01 (	0.42-	2.41)
WOLF03	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				18831	11885	15171	17404			
*prospective study								~ With 0.5 adjustment for zero		

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDYOY	1	b	0	1.32	2.85	3.81	0.0262
AGABI1	14	b	11	0.29	107.50	1.89	0.0024
AGABI2	14	b	12	0.16	133.43	0.00	0.0697
AGUDOT	4	b	4	1.18	3.39	3.56	0.0291
ANNES2	3	b	2	0.00	185.67	4.76	1.0000
ARSHAD	1	b	7	1.20	1.82	1.98	0.1044
BERGMA	1	b	8	0.28	23.66	0.33	0.1769
CALL	1	b	0	-0.06	4.55	0.21	0.9029
CHEN2	50	b	1	0.07	12.24	0.10	0.8128
CHHABR	1	b	0	0.48	67.93	6.98	0.0001
CLARK	2	b	0	0.63	2.97	0.66	0.2753
CSONKA	4	b	4	0.74	12.12	4.10	0.0098
CUNNI1	1	b	0	-0.03	187.78	6.83	0.6744
DAIGLE	3	b	7	0.67	11.64	3.06	0.0217
DEKKER	6	b	9	0.40	117.58	6.70	0.0000
DIJKST	1	b	0	0.67	6.59	1.70	0.0865
DOTTER	1	m	6	-0.69	10.60	7.72	0.0240
DOTTER	2	f	6	-0.69	5.29	3.85	0.1110
Subtotal	DOTTER			-1.71	15.89	11.57	
DUHME1	3	b	2	0.14	63.84	0.03	0.2641
DUHME2	1	b	2	0.10	96.99	0.41	0.3479
DUHME3	3	b	2	-0.04	38.19	1.54	0.8008
DUHME4	1	b	2	0.39	79.80	4.05	0.0006
FAGBUL	2	b	1	0.34	14.40	0.49	0.1923
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	4.08	0.0016
FUJI	1	b	0	-0.27	15.01	2.78	0.2946
GILLIL	28	b	9	-0.01	58.28	1.69	0.9388
GOLD	7	b	11	-0.01	124.12	3.59	0.9108
GUPTA	2	b	2	0.58	47.97	8.32	0.0001
HABY	4	b	9	0.48	13.60	1.41	0.0752
HJERN1	13	b	9	-0.33	34.86	8.32	0.0524
HJERN2	13	b	9	-0.06	22.00	1.08	0.7716
HOST	1	b	0	-0.12	7.87	0.60	0.7459
HU1	6	b	0	0.02	14.41	0.27	0.9302
HU2	24	b	3	0.39	22.17	1.12	0.0697
INFANT	10	b	19	0.34	25.97	0.81	0.0864
JAAKKO	2	b	7	0.19	30.93	0.03	0.2891
JANG	1	b	0	0.46	26.78	2.43	0.0170
JONES	2	b	0	0.16	9.47	0.00	0.6266
KARUNA	1	b	0	0.12	36.46	0.05	0.4564

Appendix Table C19 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
LAM1	16	b	4	-0.17	15.51	1.73	0.4923
LAM2	2	b	4	-0.27	16.06	3.03	0.2714
LAU	1	b	0	0.30	5.74	0.11	0.4716
LEE1	1	b	8	0.31	395.94	9.48	0.0000
LEE2	1	b	8	-0.01	224.74	6.50	0.8802
LEEN	1	b	0	-0.28	12.81	2.48	0.3157
LILLJE	1	b	0	0.09	42.18	0.24	0.5801
LINDFO	1	b	0	0.50	29.55	3.43	0.0065
MAVALE	7	b	0	0.78	9.68	3.72	0.0153
MELSOM	5	m	0	1.10	5.71	5.03	0.0086
MELSOM	6	f	0	0.00	2.82	0.07	1.0000
Subtotal	MELSOM			0.78	8.53	5.11	
MILLER	4	b	5	0.86	4.24	2.07	0.0769
MOHAME	1	b	0	0.47	8.00	0.77	0.1838
MOUSSA	1	b	0	1.10	0.37	0.33	0.5000
MUMCUO	6	b	0	-0.07	17.74	0.94	0.7676
NHANE3	61	b	6	0.22	14.00	0.06	0.4038
NICOLA	2	b	0	0.06	35.61	0.37	0.7304
NITTA	1	b	5	-0.09	14.17	0.92	0.7226
OHARA	6	b	4	-0.09	34.25	2.22	0.5810
PALMIE	3	b	0	-0.00	30.71	0.79	0.9963
PETERS	6	b	6	-0.15	44.74	4.32	0.3131
PIC	1	b	0	0.09	26.03	0.12	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMA1	1	b	5	0.47	30.41	2.92	0.0095
SARRAZ	1	b	0	0.20	2.03	0.00	0.7783
SCHMIT	1	b	4	0.73	13.33	4.29	0.0079
SELCUK	4	b	6	0.25	39.78	0.30	0.1195
SHIVA	1	b	0	0.39	4.36	0.23	0.4160
SHOHAT	4	b	12	0.19	64.12	0.06	0.1269
SOTOQU	1	b	0	0.42	46.33	3.20	0.0040
SPENGL	2	b	5	0.20	15.50	0.02	0.4337
STANHO	1	b	0	-1.02	3.66	5.11	0.0507
STERN1	1	b	0	0.11	11.71	0.03	0.7107
STODDA	10	b	9	0.31	124.44	2.71	0.0006
STRACH	9	b	4	0.21	27.70	0.06	0.2759
STURM	10	b	7	0.46	883.86	81.51	0.0000
TARIQ	12	b	1	-0.12	19.03	1.46	0.6112
TOMINA	2	b	0	-1.06	1.84	2.73	0.1515
WANG	2	b	8	0.08	3689.08	25.47	0.0000
WIJGA	2	b	17	-0.22	23.01	3.38	0.2845
WILLE1	7	b	0	0.68	6.06	1.62	0.0955
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	3.59	0.0159
YANG	2	b	10	-0.14	31.98	2.87	0.4310
ZHENG	19	b	6	0.34	51.44	1.60	0.0158

RR data

N	87
NS	85
Wt	7866.91
Het Chi	294.93
Het df	86
Het P	***
Fixed RR	1.17
RRl	1.15
RRu	1.20
P	+++
Random RR	1.20
RRl	1.13
RRu	1.27
P	+++
Asymm P	N.S.

Appendix Table C19 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

RR data

	N	87			
	NS	85			
	Wt	7866.91			
Het	Chi	294.93			
Het	df	86			
Het	P	***			
Fixed	RR	1.17			
	RRl	1.15			
	RRu	1.20			
	P	+++			
Random	RR	1.20			
	RRl	1.13			
	RRu	1.27			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	83	2	2	87
	NS	83	2	2	87
	Wt	7842.49	16.32	8.10	7866.91
Het	Chi	278.25	11.92	0.88	294.93
Het	df	82	1	1	86
Het	P	***	***	N.S.	***
Fixed	RR	1.17	0.94	0.64	1.17
	RRl	1.15	0.58	0.32	1.15
	RRu	1.20	1.52	1.27	1.20
	P	+++	N.S.	N.S.	+++
Random	RR	1.20	1.20	0.64	1.20
	RRl	1.13	0.21	0.32	1.13
	RRu	1.28	6.93	1.27	1.27
	P	+++	N.S.	N.S.	+++
Between	Chi				3.88
Between	df				2
Between	P				N.S.

Appendix Table C19 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR ZEJDA	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAAKK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LIS POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LISTER PONSON SHAMSS VONMAF
3	CELEDO	LOPEZC	OLIVET	WEITZ1	WEITZ2											
4	CHINN	EHRLI1	KABESC	KNIGHT	SOMERV											
5	AZIZI	BALL	DEKOK	FIELDE	HALONE	HUGHES	KALY01	KALY02	MCCON2	MELIA	STERN2					
14	WILLE2															

Appendix Table C19 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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														
WOLF01	WOLF01	1	WOLF01/WOLF02/WOLF03														
WOLF02	WOLF02	1	WOLF01/WOLF02/WOLF03														
WOLF03	WOLF03	1	WOLF01/WOLF02/WOLF03														
CSONKA	CSONKA	1	JAAKK2/CSONKA														
NICOLA	NICOLA	1	KABESC/NICOLA														
DUHME1	BEHREN	2	DUHME1/BEHREN														
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3														
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
ADDOY0	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
FIELDE	2	b	8	11	all	Eu:UK	1995	1999	CS	5	AnyHh	NoHhMemb	current	non	-	*	n
HALONE	1	b	6	6	all	NAmer	1980	1999	Pr	0	Mother	NotMothr	in life	non	-	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	-	*	n
KALY01	2	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KALY02	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
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 C20 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C19 - 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 C20 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma
Adjusted

REF	NRR	CompC19	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	-
AGUDOT	4		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
ANNES2	3		b	13	14	all	Eu:wst	1993	2004	CS	2	TotETS	None	current	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	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	-
DUHME1	3		b	5	8	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME2	1		b	12	15	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME3	3		b	5	8	all	Eu:Ger	1995	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME4	1		b	12	15	all	Eu:Ger	1995	1998	CS	2	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	-
JANG	1		b	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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	-
MAVALE	7		b	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	unspec	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	-
MILLER	4		b	2	2	all	NAmer	*	2004	Pr	5	AnyHh	NoHhMemb	current	othr	-
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
NICOLA	2		b	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	non	-
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	-
RIBEIR	1		b	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non	-
RONMA1	1		b	7	8	all	Eu:Sca	1996	1998	CS	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	-
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	non	-
SHOHAT	4		b	13	14	all	As:ME	1997	2002	CS	12	Mother	NotMothr	unspec	non	-

Appendix Table C20 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

REF	NRR	CompC19	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
SOTOQU	1		b	5	17	all	SCAmer	1987	1994	CS	0	Mother	NotMothr	current	non	-
SPENGL	2		b	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	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	-
STURM	10		b	12	14	all	NAmer	1999	2004	CS	7	TotETS	None	unspec	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	-
WIJGA	2		b	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WILLE1	7		b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-
WOLF01	1		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	1		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	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 C20 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)
ANNES2	3	b	2	412	-	323	-	1.00 (	0.90-	1.20)
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)
DUHME1	3	b	2	-	-	-	-	1.15 (	0.90-	1.47)
DUHME2	1	b	2	-	-	-	-	1.10 (	0.90-	1.34)
DUHME3	3	b	2	-	-	-	-	0.96 (	0.70-	1.32)
DUHME4	1	b	2	-	-	-	-	1.47 (	1.18-	1.83)
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)
JAAKKO	2	b	7	71	-	93	-	1.21 (	0.85-	1.72)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
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)
MILLER	4	b	5	-	-	-	-	2.36 (	0.91-	6.10)
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)
NICOLA	2	b	0	62	1131	95	1836	1.06 (	0.76-	1.47)
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)
RONMA1	1	b	5	-	-	-	-	1.60 (	1.12-	2.28)
SARRAZ	1	b	0	6	8	8	13	1.22 (	0.31-	4.83)

Appendix Table C20 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
SCHMIT	1	b	4	-	-	-	-	2.07 (	1.21-	3.54)
SELCUK	4	b	6	240	-	68	-	1.28 (	0.94-	1.75)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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)
SPENGL	2	b	5	-	-	-	-	1.22 (	0.75-	2.03)
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)
STURM	10	b	7	-	-	-	-	1.59 (	1.49-	1.70)
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)
WANG	2	b	8	12212	-	8425	-	1.08 (	1.05-	1.12)
WIJGA	2	b	17	-	-	-	-	0.80 (	0.53-	1.20)
WILLE1	7	b	0	37	47	12	30	1.97 (	0.89-	4.36)
WOLF01	1	b	7	-	-	-	-	1.17 (	0.57-	2.43)
WOLF02	1	b	7	-	-	-	-	1.01 (	0.42-	2.41)
WOLF03	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				18831	11885	15171	17404			
*prospective study								~ With 0.5 adjustment for zero		

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDYOY	1	b	0	1.32	2.85	3.81	0.0262
AGABI1	14	b	11	0.29	107.50	1.89	0.0024
AGABI2	14	b	12	0.16	133.43	0.00	0.0697
AGUDOT	4	b	4	1.18	3.39	3.56	0.0291
ANNES2	3	b	2	0.00	185.67	4.76	1.0000
ARSHAD	1	b	7	1.20	1.82	1.98	0.1044
BERGMA	1	b	8	0.28	23.66	0.33	0.1769
CALL	1	b	0	-0.06	4.55	0.21	0.9029
CHEN2	50	b	1	0.07	12.24	0.10	0.8128
CHHABR	1	b	0	0.48	67.93	6.98	0.0001
CLARK	2	b	0	0.63	2.97	0.66	0.2753
CSOKKA	4	b	4	0.74	12.12	4.10	0.0098
CUNNI1	1	b	0	-0.03	187.78	6.83	0.6744
DAIGLE	3	b	7	0.67	11.64	3.06	0.0217
DEKKER	6	b	9	0.40	117.58	6.70	0.0000
DIJKST	1	b	0	0.67	6.59	1.70	0.0865
DOTTER	1	m	6	-0.69	10.60	7.72	0.0240
DOTTER	2	f	6	-0.69	5.29	3.85	0.1110
Subtotal	DOTTER			-1.71	15.89	11.57	
DUHME1	3	b	2	0.14	63.84	0.03	0.2641
DUHME2	1	b	2	0.10	96.99	0.41	0.3479
DUHME3	3	b	2	-0.04	38.19	1.54	0.8008
DUHME4	1	b	2	0.39	79.80	4.05	0.0006
FAGBUL	2	b	1	0.34	14.40	0.49	0.1923
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	4.08	0.0016
FUJI	1	b	0	-0.27	15.01	2.78	0.2946
GILLIL	28	b	9	-0.01	58.28	1.69	0.9388
GOLD	7	b	11	-0.01	124.12	3.59	0.9108
GUPTA	2	b	2	0.58	47.97	8.32	0.0001
HABY	4	b	9	0.48	13.60	1.41	0.0752
HJERN1	13	b	9	-0.33	34.86	8.32	0.0524
HJERN2	13	b	9	-0.06	22.00	1.08	0.7716
HOST	1	b	0	-0.12	7.87	0.60	0.7459
HU1	6	b	0	0.02	14.41	0.27	0.9302
HU2	24	b	3	0.39	22.17	1.12	0.0697
INFANT	10	b	19	0.34	25.97	0.81	0.0864
JAARKO	2	b	7	0.19	30.93	0.03	0.2891
JANG	1	b	0	0.46	26.78	2.43	0.0170
JONES	2	b	0	0.16	9.47	0.00	0.6266
KARUNA	1	b	0	0.12	36.46	0.05	0.4564

Appendix Table C20 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
LAM1	16	b	4	-0.17	15.51	1.73	0.4923
LAM2	2	b	4	-0.27	16.06	3.03	0.2714
LAU	1	b	0	0.30	5.74	0.11	0.4716
LEE1	1	b	8	0.31	395.94	9.48	0.0000
LEE2	1	b	8	-0.01	224.74	6.50	0.8802
LEEN	1	b	0	-0.28	12.81	2.48	0.3157
LILLJE	1	b	0	0.09	42.18	0.24	0.5801
LINDFO	1	b	0	0.50	29.55	3.43	0.0065
MAVALE	7	b	0	0.78	9.68	3.72	0.0153
MELSOM	5	m	0	1.10	5.71	5.03	0.0086
MELSOM	6	f	0	0.00	2.82	0.07	1.0000
Subtotal	MELSOM			0.78	8.53	5.11	
MILLER	4	b	5	0.86	4.24	2.07	0.0769
MOHAME	1	b	0	0.47	8.00	0.77	0.1838
MOUSSA	1	b	0	1.10	0.37	0.33	0.5000
MUMCUO	6	b	0	-0.07	17.74	0.94	0.7676
NHANE3	61	b	6	0.22	14.00	0.06	0.4038
NICOLA	2	b	0	0.06	35.61	0.37	0.7304
NITTA	1	b	5	-0.09	14.17	0.92	0.7226
OHARA	6	b	4	-0.09	34.25	2.22	0.5810
PALMIE	3	b	0	-0.00	30.71	0.79	0.9963
PETERS	6	b	6	-0.15	44.74	4.32	0.3131
PIC	1	b	0	0.09	26.03	0.12	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMA1	1	b	5	0.47	30.41	2.92	0.0095
SARRAZ	1	b	0	0.20	2.03	0.00	0.7783
SCHMIT	1	b	4	0.73	13.33	4.29	0.0079
SELCUK	4	b	6	0.25	39.78	0.30	0.1195
SHIVA	1	b	0	0.39	4.36	0.23	0.4160
SHOHAT	4	b	12	0.19	64.12	0.06	0.1269
SOTOQU	1	b	0	0.42	46.33	3.20	0.0040
SPENGL	2	b	5	0.20	15.50	0.02	0.4337
STANHO	1	b	0	-1.02	3.66	5.11	0.0507
STERN1	1	b	0	0.11	11.71	0.03	0.7107
STODDA	10	b	9	0.31	124.44	2.71	0.0006
STRACH	9	b	4	0.21	27.70	0.06	0.2759
STURM	10	b	7	0.46	883.86	81.51	0.0000
TARIQ	12	b	1	-0.12	19.03	1.46	0.6112
TOMINA	2	b	0	-1.06	1.84	2.73	0.1515
WANG	2	b	8	0.08	3689.08	25.47	0.0000
WIJGA	2	b	17	-0.22	23.01	3.38	0.2845
WILLE1	7	b	0	0.68	6.06	1.62	0.0955
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	3.59	0.0159
YANG	2	b	10	-0.14	31.98	2.87	0.4310
ZHENG	19	b	6	0.34	51.44	1.60	0.0158

RR data

N	87
NS	85
Wt	7866.91
Het Chi	294.93
Het df	86
Het P	***
Fixed RR	1.17
RRl	1.15
RRu	1.20
P	+++
Random RR	1.20
RRl	1.13
RRu	1.27
P	+++
Asymm P	N.S.

Appendix Table C20 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma
 Adjusted

RR data

	N	87			
	NS	85			
	Wt	7866.91			
Het	Chi	294.93			
Het	df	86			
Het	P	***			
Fixed	RR	1.17			
	RRl	1.15			
	RRu	1.20			
	P	+++			
Random	RR	1.20			
	RRl	1.13			
	RRu	1.27			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	83	2	2	87
	NS	83	2	2	87
	Wt	7842.49	16.32	8.10	7866.91
Het	Chi	278.25	11.92	0.88	294.93
Het	df	82	1	1	86
Het	P	***	***	N.S.	***
Fixed	RR	1.17	0.94	0.64	1.17
	RRl	1.15	0.58	0.32	1.15
	RRu	1.20	1.52	1.27	1.20
	P	+++	N.S.	N.S.	+++
Random	RR	1.20	1.20	0.64	1.20
	RRl	1.13	0.21	0.32	1.13
	RRu	1.28	6.93	1.27	1.27
	P	+++	N.S.	N.S.	+++
Between	Chi				3.88
Between	df				2
Between	P				N.S.

Appendix Table C20 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR ZEJDA	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAACK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LIS POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LISTER PONSON SHAMSS VONMAF
3	CELEDO	LOPEZC	OLIVET	WEITZ1	WEITZ2											
4	CHINN	EHRLI1	KABESC	KNIGHT	SOMERV											
5	AZIZI	BALL	DEKOK	FIELDE	HALONE	HUGHES	KALY01	KALY02	MCCON2	MELIA	STERN2					
14	WILLE2															

Appendix Table C20 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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														
WOLF01	WOLF01	1	WOLF01/WOLF02/WOLF03														
WOLF02	WOLF02	1	WOLF01/WOLF02/WOLF03														
WOLF03	WOLF03	1	WOLF01/WOLF02/WOLF03														
CSONKA	CSONKA	1	JAAKK2/CSONKA														
NICOLA	NICOLA	1	KABESC/NICOLA														
DUHME1	BEHREN	2	DUHME1/BEHREN														
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3														
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
ADDOY0	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
HALONE	1	b	6	6	all	NAmer	1980	1999	Pr	0	Mother	NotMothr	in life	non	-	*	n
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	-	*	n
KALY01	2	b	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n
KALY02	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
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 C21 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C5 - 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 C21 - 1

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

REF	NRR	CompC5	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAW0	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
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	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
FAR00Q	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
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	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
NILSS0	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
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never
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
RONMA2	1		b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non
RONMA3	2		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
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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	ever1yrago	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
STANH0	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
WARKE	1		b	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non

Appendix Table C21 - 1

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

REF	NRR	CompC5	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
WICKMA	2		b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non
WITHER	6		b	14	16	all	Eu:UK	1995	1998	CS	5	Mother	NotMothr	current	non

Appendix Table C21 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	2	b	0	32	30	70	72	1.10 (	0.60-	1.99)
ALDAW0	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)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)
NILSS0	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)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
RONMA2	1	b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3	2	b	9	-	-	-	-	1.36 (	0.82-	2.25)
ROSASV	1	b	0	9	6	65	68	1.57 (	0.53-	4.66)
SHAMS2	2	b	0	-	-	-	-	0.99 (	0.81-	1.18)
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)
STANHO	2	b	0	7	169	20	193	0.40 (	0.16-	0.97)

Appendix Table C21 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
*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)
WARKE	1	b	0	55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA	2	b	8	64	-	251	-	1.65 (	1.21-	2.25)
WITHER	6	b	5	103	-	395	-	1.50 (	1.14-	1.98)
Partial Totals				6751	23963	8946	34937			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.20	0.3979
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	3.46	0.9406
ANNESI	1	b	0	0.25	89.09	0.01	0.0166
BENCIV	3	b	2	0.43	116.67	4.24	0.0000
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	1.11	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	0.28	0.0734
ECE	7	b	0	0.12	63.38	0.92	0.3376
EHRLI2	4	b	0	0.69	10.00	2.04	0.0284
FARBE2	2	b	3	0.41	57.72	1.69	0.0017
FAROOQ	1	b	0	0.25	72.93	0.01	0.0297
*FERGUS	7	b	0	0.04	37.52	1.53	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	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	1.21	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	8.04	0.0001
KIVITY	4	b	0	0.59	13.44	1.62	0.0311
KUEHR	6	b	1	-0.39	19.88	7.81	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	6.11	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	2.03	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	1.57	0.9600
MCCON2	1	b	0	0.79	3.43	1.04	0.1420
*MCKEEV	4	b	0	0.27	1119.12	0.99	0.0000
MONTEI	1	b	0	0.22	56.12	0.02	0.0946
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	1.86	1.0000
OCONNE	1	b	0	0.25	33.98	0.01	0.1384
*PONSON	4	b	6	0.05	107.38	3.97	0.6131

Appendix Table C21 - 2

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

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
QIAN	1	b	7	0.75	3.96	1.01	0.1372
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	0.66	0.9422
RONMA2	1	b	7	0.36	43.54	0.59	0.0183
*RONMA3	2	b	9	0.31	15.08	0.07	0.2324
ROSASV	1	b	0	0.45	3.25	0.14	0.4168
SHAMS2	2	b	0	-0.01	108.55	6.85	0.9166
SHAMSS	2	b	0	0.33	79.17	0.62	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	5.77	0.7281
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
WARKE	1	b	0	-0.12	12.07	1.54	0.6860
*WICKMA	2	b	8	0.50	39.93	2.69	0.0016
WITHER	6	b	5	0.41	50.42	1.36	0.0040

RR data

	N	72
	NS	68
	Wt	3675.78
Het	Chi	105.48
Het	df	71
Het	P	**
Fixed	RR	1.27
	RRl	1.23
	RRu	1.31
	P	+++
Random	RR	1.26
	RRl	1.20
	RRu	1.33
	P	+++
Asymm	P	N.S.

Appendix Table C21 - 3

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

RR data

	N	72			
	NS	68			
	Wt	3675.78			
Het	Chi	105.48			
Het	df	71			
Het	P	**			
Fixed	RR	1.27			
	RRl	1.23			
	RRu	1.31			
	P	+++			
Random	RR	1.26			
	RRl	1.20			
	RRu	1.33			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both		male	female	Total
	N	63	5	4	72
	NS	63	5	4	72
	Wt	3513.00	94.79	68.00	3675.78
Het	Chi	98.57	4.01	2.27	105.48
Het	df	62	4	3	71
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	1.31
	P	+++	++	N.S.	+++
Random	RR	1.26	1.34	1.18	1.26
	RRl	1.20	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.

Appendix Table C21 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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 DEKOK HJERN1 LILLJE RIBEIR WEITZ2	AGABI1 DIJKST HJERN2 LINDFO RONMA1 WILLE1	AGABI2 DOTTER HOST LOPEZC SARRAZ WILLE2	ARSHAD DUHME1 HUGHES MAVALE SCHMIT YANG	AZIZI DUHME2 INFANT MELIA SHIVA ZHENG	BALL DUHME3 JAAKKO MELSOM SHOHAT	BERGMA DUHME4 JANG MILLER SOMERV	CALL EHRLI1 JONES MOHAME SOTOQU	CELEDO FAGBUL KABESC MOUSSA SPENGL	CHHABR FORSB1 KALY02 MUMCUO STERN1	CHINN FORSB2 KARUNA NITTA STODDA	CLARK FORSB3 KNIGHT OHARA STRACH	CSONKA FUJI LAU OLIVET STURM	CUNNI1 GUPTA LEE1 PALMIE TARIQ	DAIGLE HABY LEE2 PETERS TOMINA	DEKKER HALONE LEEN PIC WANG
2	AKCAKA KENDIR SELCUK	ANNES2 LEVES1 SENNHA	ARIF LEVES2 SPIEKE	BARRET LEVES3 SQUILL	BECKET MAIER TIMONE	BRABIN MONTEF TSIMOY	CHEN1 MOYES1 VARELA	FIELDE MOYES2 VAVILI	FLYNN1 NICOLA WIJGA	FLYNN2 ODDY WOLF01	FREEM1 PIROGO WOLF02	FREEM2 POKHAR WOLF03	GURKAN RONCH1	KALY01 RONCH2	KASPER RONCH3	KEARNE RUDNIK
3	CUNNI2	GILLIL	JAAKK2	KAPLAN	KELLY	LEE3	NHANE3	NYSTAD	WEITZ1	XU	YUAN					
5	BURR	DEBENE	GOREN3	GOREN4	GOREN5	GOREN6	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	VONMAF	ZEIGER	ZEJDA	ZHANG
13	ALFRA2	FARBE1	FARBE3													

Appendix Table C21 - 8

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

REF REFGP PRINC			OVERLAP												
MCCON1	MCCON1	1	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												
RONMA2	RONMA1	2	RONMA1/RONMA2/RONMA3												
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3												
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
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	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
ZHANG	1	b	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	1.04 n

Appendix Table C22 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C21 - 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 C22 - 1

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

REF	NRR	CompC21	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAW0	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
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	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
FAR00Q	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
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	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
NILSS0	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
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never
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
RONMA2	1		b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non
RONMA3	2		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
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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	ever1yr ago	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
WARKE	1		b	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non

Appendix Table C22 - 1

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

REF	NRR	CompC21	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
WICKMA	2		b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non
WITHER	4	x	b	14	16	all	Eu:UK	1995	1998	CS	0	Mother	NoHhMemb	current	non

Appendix Table C22 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	2	b	0	32	30	70	72	1.10 (	0.60-	1.99)
ALDAW0	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)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)
NILSS0	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)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
RONMA2	1	b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3	2	b	9	-	-	-	-	1.36 (	0.82-	2.25)
ROSASV	1	b	0	9	6	65	68	1.57 (	0.53-	4.66)
SHAMS2	2	b	0	-	-	-	-	0.99 (	0.81-	1.18)
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)
STANHO	2	b	0	7	169	20	193	0.40 (	0.16-	0.97)

Appendix Table C22 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
*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)
WARKE	1	b	0	55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA	2	b	8	64	-	251	-	1.65 (	1.21-	2.25)
WITHER	4	b	0	103	299	296	1107	1.29 (	1.00-	1.67)
Partial Totals				6751	24644	8513	34675			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.20	0.3979
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	3.54	0.9406
ANNESI	1	b	0	0.25	89.09	0.01	0.0166
BENCIV	3	b	2	0.43	116.67	4.12	0.0000
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	2.78	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
MONTEI	1	b	0	0.22	56.12	0.02	0.0946
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

Appendix Table C22 - 2

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

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
QIAN	1	b	7	0.75	3.96	1.00	0.1372
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
RONMA2	1	b	7	0.36	43.54	0.56	0.0183
*RONMA3	2	b	9	0.31	15.08	0.06	0.2324
ROSASV	1	b	0	0.45	3.25	0.14	0.4168
SHAMS2	2	b	0	-0.01	108.55	6.99	0.9166
SHAMSS	2	b	0	0.33	79.17	0.58	0.0034
*SHERMA	1	b	2	0.09	17.41	0.43	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	6.61	0.0423
*TAYLOR	4	b	0	-0.04	72.55	5.88	0.7281
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
WARKE	1	b	0	-0.12	12.07	1.57	0.6860
*WICKMA	2	b	8	0.50	39.93	2.64	0.0016
WITHER	4	b	0	0.25	57.69	0.01	0.0543

RR data

	N	72
	NS	68
	Wt	3623.45
Het	Chi	102.66
Het	df	71
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 C22 - 3

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

RR data

	N	72			
	NS	68			
	Wt	3623.45			
Het	Chi	102.66			
Het	df	71			
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.			
			<u>Sex</u>		
	both		male	female	Total
	N	63	5	4	72
	NS	63	5	4	72
	Wt	3460.66	94.79	68.00	3623.45
Het	Chi	95.75	4.01	2.27	102.66
Het	df	62	4	3	71
Het	P	**	N.S.	N.S.	**
Fixed	RR	1.28	1.34	1.18	1.28
	RRl	1.23	1.09	0.93	1.24
	RRu	1.32	1.64	1.50	1.32
	P	+++	++	N.S.	+++
Random	RR	1.27	1.34	1.18	1.27
	RRl	1.20	1.09	0.93	1.21
	RRu	1.33	1.64	1.50	1.33
	P	+++	++	N.S.	+++
Between	Chi				0.63
Between	df				2
Between	P				N.S.

Appendix Table C22 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
2	AKCAKA	ANNES2	ARIF	BARRET	BECKET	BRABIN	CHEN1	FIELDE	FLYNN1	FLYNN2	FREEM1	FREEM2	GURKAN	KALY01	KASPER	KEARNE
	KENDIR	LEVES1	LEVES2	LEVES3	MAIER	MONTEF	MOYES1	MOYES2	NICOLA	ODDY	PIROGO	POKHAR	RONCH1	RONCH2	RONCH3	RUDNIK
	SELCUK	SENNHA	SPIEKE	SQUILL	TIMONE	TSIMOY	VARELA	VAVILI	WIJGA	WOLF01	WOLF02	WOLF03				
3	CUNNI2	GILLIL	JAAKK2	KAPLAN	KELLY	LEE3	NHANE3	NYSTAD	WEITZ1	XU	YUAN					
5	BURR	DEBENE	GOREN3	GOREN4	GOREN5	GOREN6	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	VONMAF	ZEIGER	ZEJDA	ZHANG
13	ALFRA2	FARBE1	FARBE3													

Appendix Table C22 - 8

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

REF REFGP PRINC			OVERLAP												
MCCON1	MCCON1	1	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												
RONMA2	RONMA1	2	RONMA1/RONMA2/RONMA3												
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3												
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
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	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
ZHANG	1	b	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	1.04 n

Appendix Table C23 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C7 - 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 C23 - 1

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

REF	NRR	CompC7	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
AGUDOT	4		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	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
JANG	1		b	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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
MAVALE	7		b	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	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
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
RONMA1	1		b	7	8	all	Eu:Sca	1996	1998	CS	5	Mother	NotMothr	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	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
SPENGL	2		b	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	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 C23 - 2

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

				Numbers Exposed		Non-exposed				
REF	NRR	SEX	ADJ	Case	Control	Case	Control	RR	95.00%CI	
AGABI1	14	b	11	558	-	148	-	1.34 (	1.11-	1.62)
AGABI2	14	b	12	700	-	203	-	1.17 (	0.99-	1.39)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)
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)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
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)
RONMA1	1	b	5	-	-	-	-	1.60 (	1.12-	2.28)
SCHMIT	1	b	4	-	-	-	-	2.07 (	1.21-	3.54)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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)
SPENGL	2	b	5	-	-	-	-	1.22 (	0.75-	2.03)
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				3570	4188	4801	8667			
*prospective study				~ With 0.5 adjustment for zero						

Appendix Table C23 - 2

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

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	14	b	11	0.29	107.50	1.20	0.0024
AGABI2	14	b	12	0.16	133.43	0.12	0.0697
AGUDOT	4	b	4	1.18	3.39	3.38	0.0291
ARSHAD	1	b	7	1.20	1.82	1.88	0.1044
CHEN2	47	b	1	0.10	15.22	0.10	0.6839
DAIGLE	3	b	7	0.67	11.64	2.75	0.0217
FAGBUL	2	b	1	0.34	14.40	0.35	0.1923
GILLIL	36	b	8	-0.11	12.73	1.09	0.7070
GOLD	7	b	11	-0.01	124.12	4.83	0.9108
HABY	4	b	9	0.48	13.60	1.19	0.0752
HJERN1	13	b	9	-0.33	34.86	9.27	0.0524
HJERN2	13	b	9	-0.06	22.00	1.36	0.7716
HOST	1	b	0	-0.12	7.87	0.72	0.7459
HU1	6	b	0	0.02	14.41	0.39	0.9302
HU2	24	b	3	0.39	22.17	0.87	0.0697
INFANT	10	b	19	0.34	25.97	0.58	0.0864
JANG	1	b	0	0.46	26.78	2.01	0.0170
JONES	2	b	0	0.16	9.47	0.01	0.6266
LAM1	20	b	4	0.76	3.25	1.05	0.1727
LAM2	12	b	4	-0.37	11.81	3.68	0.2022
LAU	1	b	0	0.30	5.74	0.07	0.4716
LEEN	1	b	0	-0.28	12.81	2.80	0.3157
LILLJE	1	b	0	0.09	42.18	0.44	0.5801
LINDFO	1	b	0	0.50	29.55	2.90	0.0065
MAVALE	7	b	0	0.78	9.68	3.40	0.0153
MOUSSA	1	b	0	1.10	0.37	0.31	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.54	0.0258
OHARA	6	b	4	-0.09	34.25	2.71	0.5810
PALMIE	3	b	0	-0.00	30.71	1.09	0.9963
PIC	1	b	0	0.09	26.03	0.24	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMA1	1	b	5	0.47	30.41	2.43	0.0095
SCHMIT	1	b	4	0.73	13.33	3.89	0.0079
SHIVA	1	b	0	0.39	4.36	0.18	0.4160
SHOHAT	4	b	12	0.19	64.12	0.00	0.1269
SOTOQU	1	b	0	0.42	46.33	2.57	0.0040
SPENGL	2	b	5	0.20	15.50	0.00	0.4337
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	1.80	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	7	b	0	0.68	6.06	1.45	0.0955
ZHENG	26	b	0	0.71	6.34	1.73	0.0739

RR data

	N	45
	NS	45
	Wt	1190.84
Het	Chi	80.44
Het	df	44
Het	P	***
Fixed	RR	1.21
	RRl	1.14
	RRu	1.28
	P	+++
Random	RR	1.21
	RRl	1.11
	RRu	1.33
	P	+++
Asymm	P	N.S.

Appendix Table C23 - 3

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

RR data

	N	45			
	NS	45			
	Wt	1190.84			
Het	Chi	80.44			
Het	df	44			
Het	P	***			
Fixed	RR	1.21			
	RRl	1.14			
	RRu	1.28			
	P	+++			
Random	RR	1.21			
	RRl	1.11			
	RRu	1.33			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	45			45
	NS	45			45
	Wt	1190.84			1190.84
Het	Chi	80.44			80.44
Het	df	44			44
Het	P	***			***
Fixed	RR	1.21			1.21
	RRl	1.14			1.14
	RRu	1.28			1.28
	P	+++			+++
Random	RR	1.21			1.21
	RRl	1.11			1.11
	RRu	1.33			1.33
	P	+++			+++
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C23 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR TIMONE	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAAKK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LEVES3 POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LIS PONSON SHAMSS VONMAF
2	ADDOYO FUJI PETERS	ANNES2 GUPTA SARRAZ	CALL JAAKKO SELCUK	CHHABR KABESC STURM	CLARK KALY01 WANG	DEKKER KALY02 WIJGA	DIJKST KARUNA WILLE2	DOTTER KNIGHT WOLF01	DUHME1 LEE1 WOLF02	DUHME2 LEE2 WOLF03	DUHME3 MELIA YANG	DUHME4 MELSOM	FIELDE MILLER	FORSB1 NHANE3	FORSB2 NICOLA	FORSB3 NITTA
3	BERGMA	CELEDO	CSONKA	EHRLI1	LOPEZC	OLIVET	WEITZ1	WEITZ2								
4	CHINN	SOMERV														
5	AZIZI	BALL	CUNNI1	DEKOK	HALONE	HUGHES	MCCON2	MOHAME	STERN2							

Appendix Table C23 - 8

Children - Meta-analysis of Parental Exposure during Lifetime, 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									
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3									
Adjusted - insufficient data for metaanalysis												
REF	NRR	SEX	AGEI	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
HALONE	1	b	6	6	all	NAmer 1980 1999	Pr 0	Mother NotMothr	in life	non	*	n
HUGHES	1	b	4	16	all	Eu:UK 1993 1995	CC 0	AnyPar NoParent	unspec	non	*	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 C24 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C23 - 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 C24 - 1

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

REF	NRR	CompC23	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
AGUDOT	4		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	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
JANG	1		b	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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
MAVALE	7		b	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	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
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
RONMA1	1		b	7	8	all	Eu:Sca	1996	1998	CS	5	Mother	NotMothr	unspec	non
SCHMIT	1		b	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	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
SPENGL	2		b	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	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 C24 - 2

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

				Numbers							
REF	NRR	SEX	ADJ	Exposed		Non-exposed		RR	95.00%CI		
				Case	Control	Case	Control				
AGABI1	14	b	11	558	-	148	-	1.34 (	1.11-	1.62)	
AGABI2	14	b	12	700	-	203	-	1.17 (	0.99-	1.39)	
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)	
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)	
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)	
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)	
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)	
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)	
RONMA1	1	b	5	-	-	-	-	1.60 (	1.12-	2.28)	
SCHMIT	1	b	4	-	-	-	-	2.07 (	1.21-	3.54)	
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)	
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)	
SPENGL	2	b	5	-	-	-	-	1.22 (	0.75-	2.03)	
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				3570	4188	4801	8667				
*prospective study											
				~ With 0.5 adjustment for zero							

Appendix Table C24 - 2

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

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	14	b	11	0.29	107.50	1.20	0.0024
AGABI2	14	b	12	0.16	133.43	0.12	0.0697
AGUDOT	4	b	4	1.18	3.39	3.38	0.0291
ARSHAD	1	b	7	1.20	1.82	1.88	0.1044
CHEN2	47	b	1	0.10	15.22	0.10	0.6839
DAIGLE	3	b	7	0.67	11.64	2.75	0.0217
FAGBUL	2	b	1	0.34	14.40	0.35	0.1923
GILLIL	36	b	8	-0.11	12.73	1.09	0.7070
GOLD	7	b	11	-0.01	124.12	4.83	0.9108
HABY	4	b	9	0.48	13.60	1.19	0.0752
HJERN1	13	b	9	-0.33	34.86	9.27	0.0524
HJERN2	13	b	9	-0.06	22.00	1.36	0.7716
HOST	1	b	0	-0.12	7.87	0.72	0.7459
HU1	6	b	0	0.02	14.41	0.39	0.9302
HU2	24	b	3	0.39	22.17	0.87	0.0697
INFANT	10	b	19	0.34	25.97	0.58	0.0864
JANG	1	b	0	0.46	26.78	2.01	0.0170
JONES	2	b	0	0.16	9.47	0.01	0.6266
LAM1	20	b	4	0.76	3.25	1.05	0.1727
LAM2	12	b	4	-0.37	11.81	3.68	0.2022
LAU	1	b	0	0.30	5.74	0.07	0.4716
LEEN	1	b	0	-0.28	12.81	2.80	0.3157
LILLJE	1	b	0	0.09	42.18	0.44	0.5801
LINDFO	1	b	0	0.50	29.55	2.90	0.0065
MAVALE	7	b	0	0.78	9.68	3.40	0.0153
MOUSSA	1	b	0	1.10	0.37	0.31	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.54	0.0258
OHARA	6	b	4	-0.09	34.25	2.71	0.5810
PALMIE	3	b	0	-0.00	30.71	1.09	0.9963
PIC	1	b	0	0.09	26.03	0.24	0.6397
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONMA1	1	b	5	0.47	30.41	2.43	0.0095
SCHMIT	1	b	4	0.73	13.33	3.89	0.0079
SHIVA	1	b	0	0.39	4.36	0.18	0.4160
SHOHAT	4	b	12	0.19	64.12	0.00	0.1269
SOTOQU	1	b	0	0.42	46.33	2.57	0.0040
SPENGL	2	b	5	0.20	15.50	0.00	0.4337
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	1.80	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	7	b	0	0.68	6.06	1.45	0.0955
ZHENG	26	b	0	0.71	6.34	1.73	0.0739

RR data

	N	45
	NS	45
	Wt	1190.84
Het	Chi	80.44
Het	df	44
Het	P	***
Fixed	RR	1.21
	RRl	1.14
	RRu	1.28
	P	+++
Random	RR	1.21
	RRl	1.11
	RRu	1.33
	P	+++
Asymm	P	N.S.

Appendix Table C24 - 3

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

RR data

	N	45			
	NS	45			
	Wt	1190.84			
Het	Chi	80.44			
Het	df	44			
Het	P	***			
Fixed	RR	1.21			
	RRl	1.14			
	RRu	1.28			
	P	+++			
Random	RR	1.21			
	RRl	1.11			
	RRu	1.33			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both		male	female	Total
	N	45			45
	NS	45			45
	Wt	1190.84			1190.84
Het	Chi	80.44			80.44
Het	df	44			44
Het	P	***			***
Fixed	RR	1.21			1.21
	RRl	1.14			1.14
	RRu	1.28			1.28
	P	+++			+++
Random	RR	1.21			1.21
	RRl	1.11			1.11
	RRu	1.33			1.33
	P	+++			+++
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C24 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR TIMONE	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE Zhang	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAAKK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LEVES3 POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LIS PONSON SHAMSS VONMAF
2	ADDOYO FUJI PETERS	ANNES2 GUPTA SARRAZ	CALL JAAKKO SELCUK	CHHABR KABESC STURM	CLARK KALY01 WANG	DEKKER KALY02 WIJGA	DIJKST KARUNA WILLE2	DOTTER KNIGHT WOLF01	DUHME1 LEE1 WOLF02	DUHME2 LEE2 WOLF03	DUHME3 MELIA YANG	DUHME4 MELSOM	FIELDE MILLER	FORSB1 NHANE3	FORSB2 NICOLA	FORSB3 NITTA
3	BERGMA	CELEDO	CSONKA	EHRLI1	LOPEZC	OLIVET	WEITZ1	WEITZ2								
4	CHINN	SOMERV														
5	AZIZI	BALL	CUNNI1	DEKOK	HALONE	HUGHES	MCCON2	MOHAME	STERN2							

Appendix Table C24 - 8

Children - Meta-analysis of Parental Exposure during Lifetime, 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	
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3	
Adjusted - insufficient data for metaanalysis				
REF NRR SEX AGE 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	
HALONE 1 b 6 6 all NAmer	1980 1999 Pr 0 Mother	NotMothr in life non	* n	
HUGHES 1 b 4 16 all Eu:UK	1993 1995 CC 0 AnyPar	NoParent unspec non	* 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 C25 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C1 - 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 C25 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	CompC1	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	
ADDOYO	1		x	b	c	8	17	all	Africa	*	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
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	-
AGUDOT	2			b	l	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
ALBA	1			b	l	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALDAW0	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	-
ANNES2	4			b	l	13	14	all	Eu:wst	1993	2004	CS	2	TotETS	None	current	non	-
ANNESI	1			b	l	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
ARIF	2			b	l	0	16	all	NAmer	2001	2004	CS	10	AnyHh	NoHhMemb	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	-
BENCIV	3			b	l	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	unspec	non	-
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	-
CUNNI1	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	-
DUHME1	3		x	b	c	5	8	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME2	1		x	b	c	12	15	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME3	3		x	b	c	5	8	all	Eu:Ger	1995	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME4	1		x	b	c	12	15	all	Eu:Ger	1995	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
ECE	3			b	l	6	15	all	Eu:est	1999	2001	CS	0	AnyHh	NoHhMemb	current	non	-
EHLI2	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	-
FAROQ0	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	-
FREEM1	2			b	l	7	11	all	NAmer	1998	2003	CS	2	AnyHh	NoHhMemb	current	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	-

Appendix Table C25 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	CompC1	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
JAAKKO	2	x	b	c	4	4	all	Eu:Sca	1992	2001	Pr	7	AnyHh	NoHhMemb	<1m	non	-
JANG	1	x	b	c	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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	-
KUHR	4		b	l	7	16	all	Eu:Ger	1987	1991	CS	0	AnyPar	NoParent	in life	non	-
LAM1	8		b	l	12	15	all	As:FE	1994	1998	CS	4	AnyHh	NoHhMemb	unspec	non	-
LAM2	1		b	l	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	-
LEE3	5		b	l	6	15	all	As:FE	2001	2003	CS	0	AnyHh	NoHhMemb	unspec	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	-
MAIER	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	-
MAVALE	7	x	b	c	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	unspec	non	-
MCCON1	3		m	l	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	non	-
MCCON1	4		f	l	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	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	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	-
MILLER	4	x	b	c	2	2	all	NAmer	*	2004	Pr	5	AnyHh	NoHhMemb	current	othr	-
MOHAME	1	x	b	c	9	11	all	Africa	1990	1995	CC	0	AnyHh	NoHhMemb	unspec	non	-
MONTEI	1		b	l	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	current	non	-
MOUSSA	1	x	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	x	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	28		b	l	4	16	w+b	NAmer	1988	2001	CS	6	Biochem	Low	-	-	blood
NICOLA	1		b	l	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	non	-
NILSSO	1		b	l	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	-
OCONE	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	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	-
PIROGO	3		b	l	0	15	all	Eu:est	*	2004	CS	0	AnyHh	NoHhMemb	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	-
QIAN	1		b	l	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never	-
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	-
RIBEIR	1	x	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	-
RONMA1	1	x	b	c	7	8	all	Eu:Sca	1996	1998	CS	5	Mother	NotMothr	unspec	non	-
RONMA3	2		b	l	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non	-
ROSASV	1		b	l	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	l	7	12	all	Eu:est	1994	1997	CS	6	AnyHh	NoHhMemb	unspec	non	-

Appendix Table C25 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	CompC1	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
SENNHA	1		b	l	1	16	all	Eu:wst	1990	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
SHAMS2	2		b	l	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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	-
SHIVA	1	x	b	c	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	non	-
SHOHAT	4	x	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	x	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	-
SPENGL	2	x	b	c	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	non	-
SQUILL	1		b	l	8	12	all	NAmer	1992	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
STANHO	2		b	l	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	-
STURM	10	x	b	c	12	14	all	NAmer	1999	2004	CS	7	TotETS	None	unspec	non	-
TARIQ	12	x	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	x	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	-
VENNER	3		f	l	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VERHOE	3		b	l	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never	-
VONMAF	1		b	l	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	-
WARKE	1		b	l	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non	-
WICKMA	2		b	l	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non	-
WIJGA	1		b	l	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WILLE1	7	x	b	c	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-
WITHER	1		b	l	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLF01	2		b	l	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	2		b	l	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	2		b	l	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	l	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 C25 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
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)
ANNES2	4	b	2	904	-	699	-	1.10 (	0.90-	1.20)
ANNESI	1	b	0	164	1243	255	2491	1.29 (	1.05-	1.59)
ARIF	2	b	10	46	-	161	-	0.98 (	0.65-	1.47)
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)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
CSOKA	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)
DUHME1	3	b	2	-	-	-	-	1.15 (	0.90-	1.47)
DUHME2	1	b	2	-	-	-	-	1.10 (	0.90-	1.34)
DUHME3	1	b	2	-	-	-	-	0.96 (	0.70-	1.32)
DUHME4	1	b	2	-	-	-	-	1.47 (	1.18-	1.83)
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)
FREEM1	2	b	2	-	-	-	-	2.10 (	1.72-	2.56)
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)

Appendix Table C25 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
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)
LEE3	5	b	0	1114	16604	1094	13428	0.82 (	0.76-	0.90)
*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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
*MCCON1	3	m	3	-	-	-	-	1.53 (	1.03-	2.26)
*MCCON1	4	f	3	-	-	-	-	0.84 (	0.59-	1.19)
Subtotal MCCON1								1.10 (	0.84-	1.42)
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)
MILLER	4	b	5	-	-	-	-	2.36 (	0.91-	6.10)
MOHAME	1	b	0	-	-	-	-	1.60 (	0.80-	3.20)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)
NICOLA	1	b	0	126	1043	192	1710	1.08 (	0.85-	1.36)
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)
PIROGO	3	b	0	13	82	4	37	1.47 (	0.45-	4.80)
POKHAR	2	b	5	27	-	13	-	3.33 (	1.85-	7.65)
*PONSON	8	b	6	185	-	88	-	1.03 (	0.83-	1.26)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)

Appendix Table C25 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
RONMA1 1	b	5		-	-	-	-	1.60 (	1.12-	2.28)
*RONMA3 2	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)
SELCHUK 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)
SHAMS2 2	b	0		-	-	-	-	0.99 (	0.81-	1.18)
SHAMSS 2	b	0		-	-	-	-	1.39 (	1.12-	1.74)
*SHERMA 2	b	2		-	-	-	-	1.18 (	0.76-	1.83)
SHIVA 1	b	0		9	233	9	344	1.48 (	0.58-	3.77)
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)
SPENGL 2	b	5		-	-	-	-	1.22 (	0.75-	2.03)
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 10	b	9		224	-	443	-	1.36 (	1.14-	1.62)
STRACH 9	b	4		122	-	364	-	1.23 (	0.85-	1.79)
STURM 10	b	7		-	-	-	-	1.59 (	1.49-	1.70)
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)
WARKE 1	b	0		55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA 2	b	8		64	-	251	-	1.65 (	1.21-	2.25)
WIJGA 1	b	17		-	-	-	-	0.83 (	0.59-	1.19)
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)
WOLF01 2	b	7		-	-	-	-	1.12 (	0.63-	1.98)
WOLF02 2	b	7		-	-	-	-	1.35 (	0.75-	2.43)
WOLF03 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				30030	60047	27225	71342			
*prospective study								~ With 0.5 adjustment for zero		

Appendix Table C25 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO	1	b	0	1.32	2.85	3.72	0.0262
AGABI1	14	b	11	0.29	107.50	1.52	0.0024
AGABI2	14	b	12	0.16	133.43	0.04	0.0697
AGUDOT	2	b	4	0.51	2.72	0.31	0.3979
ALBA	1	b	0	-0.09	11.15	0.77	0.7647
ALDAWO	2	m	0	0.76	8.40	2.90	0.0274
ALFRA1	2	b	0	0.41	22.65	1.29	0.0498
ANDRAE	2	b	3	-0.01	54.89	1.85	0.9406
ANNES2	4	b	2	0.10	185.67	1.14	0.1941
ANNESI	1	b	0	0.25	89.09	0.57	0.0166
ARIF	2	b	10	-0.02	23.07	0.87	0.9227
ARSHAD	1	b	7	1.20	1.82	1.93	0.1044
BARRET	1	b	0	0.52	5.17	0.62	0.2373
BECKET	6	b	7	0.27	67.46	0.63	0.0266
BENCIV	3	b	2	0.43	116.67	7.77	0.0000
BENER	1	b	0	0.24	19.32	0.09	0.2839
BERGMA	1	b	8	0.28	23.66	0.26	0.1769
BRABIN	2	b	1	0.06	58.33	0.78	0.6563
BURCHF	5	m	1	0.22	32.51	0.06	0.2200
BURCHF	8	f	1	0.00	24.97	0.75	1.0000
Subtotal BURCHF				-0.13	57.49	0.81	
BUTZ	7	b	1	0.17	9.31	0.00	0.6135
CALL	1	b	0	-0.06	4.55	0.24	0.9029
CHEN1	1	b	0	0.25	11.14	0.06	0.4102
CHEN2	37	b	6	0.51	12.65	1.45	0.0681
CHHABR	1	b	0	0.48	67.93	6.40	0.0001
CLARK	2	b	0	0.63	2.97	0.63	0.2753
CSONKA	4	b	4	0.74	12.12	3.91	0.0098
CUNNI1	1	b	0	-0.03	187.78	7.85	0.6744
DAIGLE	3	b	7	0.67	11.64	2.90	0.0217
DEKKER	6	b	9	0.40	117.58	5.95	0.0000
DELL	2	b	0	0.42	18.30	1.10	0.0733
DIJKST	1	b	0	0.67	6.59	1.61	0.0865
DODGE	12	b	1	0.41	7.12	0.38	0.2794
DOLD	21	b	1	0.10	113.12	0.70	0.3107
DOTTER	1	m	6	-0.69	10.60	7.97	0.0240
DOTTER	2	f	6	-0.69	5.29	3.97	0.1110
Subtotal DOTTER				-1.73	15.89	11.94	
DUHME1	3	b	2	0.14	63.84	0.07	0.2641
DUHME2	1	b	2	0.10	96.99	0.60	0.3479
DUHME3	3	b	2	-0.04	38.19	1.76	0.8008
DUHME4	1	b	2	0.39	79.80	3.57	0.0006
ECE	3	b	0	0.18	79.23	0.01	0.1041
EHRLI2	3	b	0	0.63	11.17	2.29	0.0363
FAGBUL	2	b	1	0.34	14.40	0.42	0.1923
FARBE2	2	b	3	0.41	57.72	3.28	0.0017
FAROOQ	1	b	0	0.25	72.93	0.48	0.0297
*FERGUS	7	b	0	0.04	37.52	0.68	0.8106
FLYNN1	1	b	0	0.23	47.28	0.16	0.1120
FORAST	20	b	9	0.25	37.10	0.20	0.1327
FORSB1	2	b	14	0.10	19.52	0.12	0.6737
FORSB2	2	b	14	-0.36	5.48	1.54	0.4036
FORSB3	2	b	15	0.44	50.37	3.70	0.0016
FREEM1	2	b	2	0.74	97.16	31.37	0.0000
FUJI	1	b	0	-0.27	15.01	2.96	0.2946
GILLIL	4	m	4	-0.07	76.04	4.61	0.5268
GILLIL	12	f	4	0.05	58.89	0.92	0.7081
Subtotal GILLIL				-0.37	134.93	5.53	
GOLD	11	b	0	0.26	211.41	1.42	0.0002
GOREN1	3	b	0	0.07	27.97	0.30	0.7071
GOREN2	5	b	2	0.22	99.84	0.17	0.0316
GORTM1	3	b	7	0.40	36.85	1.87	0.0155
GORTM2	1	b	0	0.63	6.99	1.43	0.0978
GUPTA	2	b	2	0.58	47.97	7.78	0.0001
GURKAN	1	b	0	0.63	11.10	2.26	0.0372
HABY	4	b	9	0.48	13.60	1.30	0.0752
HAJNAL	1	b	13	0.18	63.05	0.00	0.1477
HJERN1	13	b	9	-0.33	34.86	8.79	0.0524
HJERN2	13	b	9	-0.06	22.00	1.22	0.7716

Appendix Table C25 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
HOST	1	b	0	-0.12	7.87	0.66	0.7459
HU1	4	b	7	-0.22	12.73	2.01	0.4259
HU2	23	b	3	0.44	31.16	2.18	0.0144
INFANT	10	b	19	0.34	25.97	0.69	0.0864
JAAKKO	2	b	7	0.19	30.93	0.01	0.2891
JANG	1	b	0	0.46	26.78	2.21	0.0170
JENKIN	5	b	7	0.23	116.41	0.38	0.0126
JONES	2	b	0	0.16	9.47	0.00	0.6266
KARUNA	1	b	0	0.12	36.46	0.09	0.4564
KAY	20	b	1	0.35	38.89	1.22	0.0288
KENDIR	1	b	0	0.34	99.03	2.86	0.0006
KERSHA	7	b	1	1.14	11.69	10.86	0.0001
KIVITY	4	b	0	0.59	13.44	2.31	0.0311
KUEHR	6	b	1	-0.39	19.88	6.22	0.0855
KUHR	4	b	0	0.70	5.57	1.53	0.0997
LAM1	8	b	4	-0.08	79.06	5.23	0.4585
LAM2	1	b	4	-0.09	53.37	3.83	0.4908
LAU	1	b	0	0.30	5.74	0.09	0.4716
LEE1	1	b	8	0.31	395.94	7.88	0.0000
LEE2	1	b	8	-0.01	224.74	7.59	0.8802
LEE3	5	b	0	-0.19	513.76	69.55	0.0000
*LEEDER	2	b	1	0.29	8.17	0.10	0.4149
LEEN	1	b	0	-0.28	12.81	2.64	0.3157
LEROUX	2	b	10	0.58	14.02	2.34	0.0293
LILLJE	1	b	0	0.09	42.18	0.33	0.5801
LINDFO	1	b	0	0.50	29.55	3.16	0.0065
LIS	1	b	0	0.31	37.30	0.67	0.0604
LISTER	3	b	8	0.42	64.33	3.86	0.0008
MAIER	5	b	8	0.82	13.60	5.60	0.0026
*MARTIN	5	m	1	0.56	11.93	1.78	0.0533
*MARTIN	6	f	1	0.68	5.55	1.44	0.1075
Subtotal	MARTIN			0.90	17.48	3.22	
MAVALE	7	b	0	0.78	9.68	3.56	0.0153
*MCCON1	3	m	3	0.43	24.88	1.57	0.0339
*MCCON1	4	f	3	-0.17	31.22	3.78	0.3300
Subtotal	MCCON1			-0.10	56.10	5.36	
MCCON2	2	b	0	-0.58	1.65	0.95	0.4523
*MCKEEV	4	b	0	0.27	1119.12	10.55	0.0000
MELSOM	5	m	0	1.10	5.71	4.89	0.0086
MELSOM	6	f	0	0.00	2.82	0.09	1.0000
Subtotal	MELSOM			0.75	8.53	4.97	
MILLER	4	b	5	0.86	4.24	1.99	0.0769
MOHAME	1	b	0	0.47	8.00	0.70	0.1838
MONTEI	1	b	0	0.22	56.12	0.14	0.0946
MOUSSA	1	b	0	1.10	0.37	0.32	0.5000
MOYES1	1	b	0	0.06	120.55	1.68	0.5411
MOYES2	1	b	0	-0.06	115.09	6.17	0.5355
MUMCUO	6	b	0	-0.07	17.74	1.06	0.7676
MURRAY	5	m	1	0.34	14.28	0.41	0.1941
MURRAY	7	f	1	0.27	8.50	0.08	0.4311
Subtotal	MURRAY			0.27	22.78	0.49	
NHANE3	28	b	6	0.15	22.48	0.01	0.4816
NICOLA	1	b	0	0.07	68.08	0.69	0.5460
NILSSO	1	b	0	0.00	31.98	0.97	1.0000
NITTA	1	b	5	-0.09	14.17	1.02	0.7226
OCONNE	1	b	0	0.25	33.98	0.22	0.1384
*ODDY	1	b	4	0.24	96.50	0.41	0.0189
OHARA	6	b	4	-0.09	34.25	2.46	0.5810
PALMIE	3	b	0	-0.00	30.71	0.94	0.9963
PETERS	6	b	6	-0.15	44.74	4.71	0.3131
PIC	1	b	0	0.09	26.03	0.18	0.6397
PIROGO	3	b	0	0.38	2.73	0.12	0.5269
POKHAR	2	b	5	1.20	7.63	8.08	0.0009
*PONSON	8	b	6	0.03	88.18	1.83	0.7813
QIAN	1	b	7	0.75	3.96	1.30	0.1372
RASANE	3	b	3	0.46	27.24	2.29	0.0155
RATAGE	1	b	0	0.07	10.00	0.11	0.8330
RENNIE	1	b	6	0.02	13.41	0.32	0.9422
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116

Appendix Table C25 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
RONCH1	7	b	2	0.34	39.05	1.03	0.0355
RONCH2	3	b	0	0.29	31.60	0.42	0.1048
RONCH3	3	b	0	-0.02	24.61	0.92	0.9224
RONMA1	1	b	5	0.47	30.41	2.67	0.0095
*RONMA3	2	b	9	0.31	15.08	0.27	0.2324
ROSASV	1	b	0	0.45	3.25	0.25	0.4168
SARRAZ	1	b	0	0.20	2.03	0.00	0.7783
SCHMIT	1	b	4	0.73	13.33	4.09	0.0079
SELCUK	2	b	6	0.30	112.79	1.80	0.0014
SENNHA	1	b	0	0.23	58.71	0.16	0.0833
SHAMS2	2	b	0	-0.01	108.55	3.67	0.9166
SHAMSS	2	b	0	0.33	79.17	1.92	0.0034
*SHERMA	2	b	2	0.17	19.90	0.00	0.4603
SHIVA	1	b	0	0.39	4.36	0.20	0.4160
SHOHAT	4	b	12	0.19	64.12	0.02	0.1269
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOTOQU	1	b	0	0.42	46.33	2.87	0.0040
SOYSET	14	b	5	1.03	6.43	4.71	0.0090
SPENGL	2	b	5	0.20	15.50	0.01	0.4337
SQUILL	1	b	0	0.10	18.67	0.10	0.6613
STANHO	2	b	0	-0.92	4.90	5.83	0.0423
STERN1	1	b	0	0.11	11.71	0.05	0.7107
STODDA	10	b	9	0.31	124.44	2.23	0.0006
STRACH	9	b	4	0.21	27.70	0.03	0.2759
STURM	10	b	7	0.46	883.86	74.32	0.0000
TARIQ	12	b	1	-0.12	19.03	1.60	0.6112
*TAYLOR	4	b	0	-0.04	72.55	3.34	0.7281
TIMONE	1	b	0	-0.58	9.03	5.14	0.0808
TOMINA	2	b	0	-1.06	1.84	2.79	0.1515
TSIMOY	1	b	0	0.04	2.59	0.05	0.9464
VARELA	1	b	0	1.09	2.80	2.34	0.0687
VAVILI	1	b	0	-0.50	11.30	5.09	0.0945
VENNER	6	m	0	0.09	27.66	0.17	0.6182
VENNER	3	f	0	0.18	28.98	0.00	0.3399
Subtotal	VENNER			-0.08	56.63	0.17	
VERHOE	3	b	0	-0.25	17.31	3.12	0.2972
VONMAF	1	b	0	0.23	78.55	0.25	0.0417
WANG	2	b	8	0.08	3689.08	34.56	0.0000
WARKE	1	b	0	-0.12	12.07	1.02	0.6860
*WICKMA	2	b	8	0.50	39.93	4.27	0.0016
WIJGA	1	b	17	-0.19	31.22	4.05	0.2978
WILLE1	7	b	0	0.68	6.06	1.54	0.0955
WITHER	1	b	0	0.18	92.49	0.00	0.0890
WOLF01	2	b	7	0.11	11.72	0.04	0.6981
WOLF02	2	b	7	0.30	11.12	0.18	0.3170
WOLF03	2	b	10	0.33	24.30	0.59	0.1046
YANG	2	b	10	-0.14	31.98	3.13	0.4310
*ZEIGER	1	b	0	0.21	10.38	0.02	0.4914
ZHENG	19	b	6	0.34	51.44	1.36	0.0158

Appendix Table C25 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

RR data

	N	179
	NS	171
	Wt	13259.60
Het	Chi	553.37
Het	df	178
Het	P	***
Fixed	RR	1.19
	RRl	1.17
	RRu	1.21
	P	+++
Random	RR	1.23
	RRl	1.18
	RRu	1.28
	P	+++
Asymm	P	*

Appendix Table C25 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

RR data

		N	179						
		NS	171						
		Wt	13259.60						
	Het	Chi	553.37						
	Het	df	178						
	Het	P	***						
Fixed	RR	1.19							
	RRl	1.17							
	RRu	1.21							
	P	+++							
Random	RR	1.23							
	RRl	1.18							
	RRu	1.28							
	P	+++							
Asymm	P	*							
				Sex					
		both		male	female		Total		
	N	162		9	8		179		
	NS	162		9	8		179		
		Wt	12881.37	212.03	166.21		13259.60		
	Het	Chi	517.91	24.23	7.60		553.37		
	Het	df	161	8	7		178		
	Het	P	***	**	N.S.		***		
Fixed	RR	1.19	1.16	1.03			1.19		
	RRl	1.17	1.01	0.89			1.17		
	RRu	1.21	1.33	1.20			1.21		
	P	+++	+	N.S.			+++		
Random	RR	1.23	1.28	1.03			1.23		
	RRl	1.19	0.99	0.88			1.18		
	RRu	1.28	1.65	1.21			1.28		
	P	+++	(+)	N.S.			+++		
Between	Chi						3.63		
Between	df						2		
Between	P						N.S.		
				Continent					
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total	
	N	43	6	80	36	10	4	179	
	NS	38	6	79	34	10	4	171	
		Wt	2478.87	118.29	4212.80	5710.35	704.36	34.92	13259.60
	Het	Chi	111.76	2.90	155.53	138.12	21.16	2.83	553.37
	Het	df	42	5	79	35	9	3	178
	Het	P	***	N.S.	***	***	*	N.S.	***
Fixed	RR	1.39	1.38	1.23	1.08	1.14	1.77		1.19
	RRl	1.33	1.16	1.20	1.06	1.06	1.27		1.17
	RRu	1.44	1.66	1.27	1.11	1.23	2.47		1.21
	P	+++	+++	+++	+++	+++	+++		+++
Random	RR	1.32	1.38	1.20	1.17	1.15	1.77		1.23
	RRl	1.21	1.16	1.14	1.07	1.02	1.27		1.18
	RRu	1.43	1.66	1.27	1.28	1.30	2.47		1.28
	P	+++	+++	+++	+++	+	+++		+++
Between	Chi								121.06
Between	df								5
Between	P								***

Appendix Table C25 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Lifetime Asthma (or Current if Lifetime not available)

Adjusted

		Country in Europe						Total	
		UK	Italy	Germany	Scand	othWest	East/Bal		
RR data		N	17	9	12	20	12	10	80
		NS	17	9	12	20	12	9	79
		Wt	1824.03	525.85	556.26	479.19	442.61	384.86	4212.80
		Het Chi	32.52	9.60	15.61	46.64	19.20	23.56	155.53
		Het df	16	8	11	19	11	9	79
		Het P	**	N.S.	N.S.	***	(*)	**	***
	Fixed	RR	1.26	1.30	1.15	1.23	1.13	1.26	1.23
		RRl	1.20	1.19	1.06	1.12	1.03	1.14	1.20
		RRu	1.32	1.41	1.25	1.34	1.24	1.39	1.27
		P	+++	+++	+++	+++	+	+++	+++
	Random	RR	1.22	1.29	1.15	1.23	1.14	1.15	1.20
		RRl	1.11	1.17	1.04	1.06	0.99	0.95	1.14
		RRu	1.34	1.42	1.28	1.43	1.32	1.39	1.27
		P	+++	+++	++	++	(+)	N.S.	+++
	Between	Chi							8.40
	Between	df							5
	Between	P							N.S.

		Country in Asia			
		FarEast	Cent/SE	MidlEast	Total
N		19	7	10	36
NS		18	6	10	34
Wt		5253.63	178.51	278.21	5710.35
Het	Chi	83.57	13.49	7.67	138.12
Het	df	18	6	9	35
Het	P	***	*	N.S.	***
Fixed	RR	1.06	1.57	1.26	1.08
	RRL	1.03	1.36	1.12	1.06
	RRu	1.09	1.82	1.42	1.11
Random	P	+++	+++	+++	+++
	RR	1.04	1.61	1.26	1.17
	RRL	0.94	1.24	1.12	1.07
	RRu	1.16	2.09	1.42	1.28
	P	N.S.	+++	+++	+++
Between	Chi				33.40
Between	df				2
Between	P				***

		Start year of study					
		<1970	1970-79	1980-89	1990+	unknown	Total
	N	5	14	41	95	24	179
	NS	4	13	40	90	24	171
	Wt	216.04	544.38	1485.85	9151.95	1861.38	13259.60
Het	Chi	1.27	20.58	73.95	387.64	56.29	553.37
Het	df	4	13	40	94	23	178
Het	P	N.S.	(*)	***	***	***	***
Fixed	RR	1.23	1.23	1.25	1.16	1.25	1.19
	RRl	1.08	1.13	1.19	1.14	1.20	1.17
	RRu	1.41	1.34	1.32	1.19	1.31	1.21
Random	P	++	+++	+++	+++	+++	+++
	RR	1.23	1.22	1.30	1.20	1.23	1.23
	RRl	1.08	1.08	1.20	1.13	1.11	1.18
	RRu	1.41	1.39	1.41	1.26	1.38	1.28
	P	++	++	+++	+++	+++	+++
Between	Chi						13.64
Between	df						4
Between	P						**

Appendix Table C25 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

Publication year
<1990 1990-94 1995-99 2000+ Total

RR data

	N	18	33	58	70	179
	NS	17	31	58	65	171
	Wt	389.03	1108.79	6501.76	5260.01	13259.60
Het	Chi	30.76	45.58	126.81	319.74	553.37
Het	df	17	32	57	69	178
Het	P	*	(*)	***	***	***
Fixed	RR	1.14	1.27	1.14	1.25	1.19
	RRl	1.03	1.20	1.11	1.21	1.17
	RRu	1.26	1.35	1.16	1.28	1.21
	P	+	+++	+++	+++	+++
Random	RR	1.17	1.27	1.22	1.23	1.23
	RRl	1.00	1.17	1.16	1.14	1.18
	RRu	1.35	1.38	1.29	1.32	1.28
	P	+	+++	+++	+++	+++
Between	Chi					30.48
Between	df					3
Between	P					***

Study type
CC Pr CS Total

	N	37	25	117	179
	NS	36	23	112	171
	Wt	840.08	1989.50	10430.02	13259.60
Het	Chi	63.04	43.10	430.88	553.37
Het	df	36	24	116	178
Het	P	**	**	***	***
Fixed	RR	1.31	1.25	1.17	1.19
	RRl	1.22	1.20	1.15	1.17
	RRu	1.40	1.31	1.19	1.21
	P	+++	+++	+++	+++
Random	RR	1.32	1.20	1.21	1.23
	RRl	1.19	1.10	1.16	1.18
	RRu	1.47	1.31	1.27	1.28
	P	+++	+++	+++	+++
Between	Chi				16.34
Between	df				2
Between	P				***

Highest age in RR
0-9 10-14 15+ unknown Total

	N	41	67	69	2	179
	NS	41	66	62	2	171
	Wt	1402.71	5141.97	6693.95	20.95	13259.60
Het	Chi	73.42	198.88	206.73	1.33	553.37
Het	df	40	66	68	1	178
Het	P	***	***	***	N.S.	***
Fixed	RR	1.27	1.28	1.11	1.56	1.19
	RRl	1.21	1.25	1.08	1.02	1.17
	RRu	1.34	1.32	1.13	2.40	1.21
	P	+++	+++	+++	+	+++
Random	RR	1.28	1.20	1.22	1.55	1.23
	RRl	1.19	1.13	1.14	0.95	1.18
	RRu	1.39	1.28	1.29	2.55	1.28
	P	+++	+++	+++	(+)	+++
Between	Chi					73.01
Between	df					3
Between	P					***

Appendix Table C25 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

general Population setting
 school medical allergy other Total

RR data

N	30	98	42	4	5	179
NS	28	94	41	3	5	171
Wt	1049.23	9911.45	2087.38	68.83	142.71	13259.60
Het Chi	50.85	425.04	48.82	2.12	8.04	553.37
Het df	29	97	41	3	4	178
Het P	**	***	N.S.	N.S.	(*)	***
Fixed RR	1.22	1.17	1.29	1.19	1.07	1.19
RRl	1.15	1.15	1.23	0.94	0.91	1.17
RRu	1.30	1.19	1.34	1.51	1.26	1.21
P	+++	+++	+++	N.S.	N.S.	+++
Random RR	1.23	1.21	1.27	1.19	1.06	1.23
RRl	1.13	1.15	1.20	0.94	0.79	1.18
RRu	1.35	1.28	1.36	1.51	1.41	1.28
P	+++	+++	+++	N.S.	N.S.	+++
Between Chi						18.50
Between df						4
Between P						***

Respondent for ETS exposure
 child parent med rec mix/oth Total

N	19	121	3	36	179
NS	19	119	3	30	171
Wt	2038.13	8754.63	1226.03	1240.80	13259.60
Het Chi	122.60	304.48	0.03	85.74	553.37
Het df	18	120	2	35	178
Het P	***	***	N.S.	***	***
Fixed RR	1.29	1.14	1.31	1.25	1.19
RRl	1.23	1.12	1.24	1.18	1.17
RRu	1.35	1.17	1.38	1.32	1.21
P	+++	+++	+++	+++	+++
Random RR	1.20	1.23	1.31	1.22	1.23
RRl	1.04	1.18	1.24	1.10	1.18
RRu	1.39	1.29	1.38	1.34	1.28
P	+	+++	+++	+++	+++
Between Chi					40.52
Between df					3
Between P					***

Child smokers
 exc/none included ignored Total

N	25	20	134	179
NS	20	18	133	171
Wt	899.63	5421.68	6938.29	13259.60
Het Chi	33.75	141.65	371.58	553.37
Het df	24	19	133	178
Het P	(*)	***	***	***
Fixed RR	1.12	1.17	1.21	1.19
RRl	1.05	1.14	1.18	1.17
RRu	1.20	1.21	1.24	1.21
P	+++	+++	+++	+++
Random RR	1.14	1.26	1.24	1.23
RRl	1.04	1.12	1.18	1.18
RRu	1.24	1.43	1.29	1.28
P	++	+++	+++	+++
Between Chi				6.38
Between df				2
Between P				*

Appendix Table C25 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

Physician diagnosis (lifetime/current)
 yes no/mixed Total

RR data

	N	94	85	179		
	NS	90	81	171		
	Wt	4581.55	8678.05	13259.60		
Het	Chi	266.19	286.64	553.37		
Het	df	93	84	178		
Het	P	***	***	***		
Fixed	RR	1.18	1.20	1.19		
	RRl	1.15	1.17	1.17		
	RRu	1.21	1.22	1.21		
	P	+++	+++	+++		
Random	RR	1.22	1.24	1.23		
	RRl	1.14	1.18	1.18		
	RRu	1.29	1.31	1.28		
	P	+++	+++	+++		
Between	Chi			0.54		
Between	df			1		
Between	P			N.S.		
	Respondent for diagnosis (lifetime/current)					
	medrec	parent	child	mixed	Total	
	N	29	105	27	179	
	NS	28	102	25	171	
	Wt	1584.08	5359.12	5696.98	619.42	13259.60
Het	Chi	35.43	254.00	178.88	62.15	553.37
Het	df	28	104	26	17	178
Het	P	N.S.	***	***	***	***
Fixed	RR	1.30	1.19	1.15	1.30	1.19
	RRl	1.24	1.16	1.12	1.20	1.17
	RRu	1.37	1.22	1.18	1.40	1.21
	P	+++	+++	+++	+++	+++
Random	RR	1.29	1.23	1.16	1.20	1.23
	RRl	1.18	1.18	1.04	1.00	1.18
	RRu	1.42	1.29	1.29	1.43	1.28
	P	+++	+++	++	+	+++
Between	Chi					22.90
Between	df					3
Between	P					***
	Questionnaire for symptoms					
	ISAAC	ATS	other	Total		
	N	39	20	120	179	
	NS	38	19	114	171	
	Wt	7676.33	646.85	4936.42	13259.60	
Het	Chi	245.51	23.32	256.09	553.37	
Het	df	38	19	119	178	
Het	P	***	N.S.	***	***	
Fixed	RR	1.14	1.22	1.26	1.19	
	RRl	1.12	1.13	1.23	1.17	
	RRu	1.17	1.32	1.30	1.21	
	P	+++	+++	+++	+++	
Random	RR	1.20	1.20	1.25	1.23	
	RRl	1.11	1.09	1.19	1.18	
	RRu	1.29	1.32	1.31	1.28	
	P	+++	+++	+++	+++	
Between	Chi				28.45	
Between	df				2	
Between	P				***	

Appendix Table C25 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

Analysis type
 prevlncce onset Total

RR data

	N	164	15	179			
	NS	158	13	171			
	Wt	11675.43	1584.17	13259.60			
Het	Chi	522.45	23.64	553.37			
Het	df	163	14	178			
Het	P	***	(*)	***			
Fixed	RR	1.18	1.27	1.19			
	RRl	1.16	1.21	1.17			
	RRu	1.20	1.33	1.21			
	P	+++	+++	+++			
Random	RR	1.23	1.22	1.23			
	RRl	1.18	1.10	1.18			
	RRu	1.28	1.35	1.28			
	P	+++	+++	+++			
Between	Chi			7.27			
Between	df			1			
Between	P			**			
	Number of cases (lifetime/current asthma)						
	1-50	51-100	101-200	201+	unknown	Total	
	N	26	28	44	78	3	179
	NS	26	26	43	73	3	171
	Wt	133.29	317.03	1158.91	11586.69	63.68	13259.60
Het	Chi	28.70	58.33	89.91	364.81	0.14	553.37
Het	df	25	27	43	77	2	178
Het	P	N.S.	***	***	***	N.S.	***
Fixed	RR	1.49	1.24	1.13	1.19	1.36	1.19
	RRl	1.25	1.11	1.06	1.17	1.06	1.17
	RRu	1.76	1.38	1.19	1.21	1.73	1.21
	P	+++	+++	+++	+++	+	+++
Random	RR	1.49	1.24	1.17	1.23	1.36	1.23
	RRl	1.24	1.05	1.07	1.17	1.06	1.18
	RRu	1.80	1.46	1.28	1.29	1.73	1.28
	P	+++	+	+++	+++	+	+++
Between	Chi						11.48
Between	df						4
Between	P						*

Study adjusts for or is matched on sex

Yes No Total

N	91	88	179
NS	88	83	171
Wt	8879.35	4380.25	13259.60
Het Chi	297.77	255.58	553.37
Het df	90	87	178
Het P	***	***	***
Fixed RR	1.19	1.19	1.19
RRl	1.17	1.15	1.17
RRu	1.22	1.22	1.21
P	+++	+++	+++
Random RR	1.24	1.22	1.23
RRl	1.17	1.14	1.18
RRu	1.30	1.30	1.28
P	+++	+++	+++
Between Chi			0.02
Between df			1
Between P			N.S.

Appendix Table C25 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

Study adjusts for or is matched on age
 Yes No Total

RR data

N	65	114	179
NS	62	109	171
Wt	6911.02	6348.58	13259.60
Het Chi	161.01	368.34	553.37
Het df	64	113	178
Het P	***	***	***
Fixed RR	1.14	1.24	1.19
RRl	1.12	1.21	1.17
RRu	1.17	1.27	1.21
P	+++	+++	+++
Random RR	1.21	1.24	1.23
RRl	1.15	1.17	1.18
RRu	1.28	1.31	1.28
P	+++	+++	+++
Between Chi			24.02
Between df			1
Between P			***

Study adjusts for or is matched on race

N	24	155	179
NS	21	150	171
Wt	2114.16	11145.44	13259.60
Het Chi	86.32	414.01	553.37
Het df	23	154	178
Het P	***	***	***
Fixed RR	1.38	1.16	1.19
RRl	1.32	1.14	1.17
RRu	1.44	1.18	1.21
P	+++	+++	+++
Random RR	1.31	1.21	1.23
RRl	1.18	1.16	1.18
RRu	1.45	1.26	1.28
P	+++	+++	+++
Between Chi			53.04
Between df			1
Between P			***

Study adjusts for or is matched on location

N	49	130	179
NS	46	125	171
Wt	6611.70	6647.90	13259.60
Het Chi	125.05	392.67	553.37
Het df	48	129	178
Het P	***	***	***
Fixed RR	1.13	1.25	1.19
RRl	1.10	1.22	1.17
RRu	1.16	1.28	1.21
P	+++	+++	+++
Random RR	1.18	1.25	1.23
RRl	1.12	1.18	1.18
RRu	1.25	1.31	1.28
P	+++	+++	+++
Between Chi			35.65
Between df			1
Between P			***

Appendix Table C25 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)

Adjusted
Study adjusts for or is matched on SES
Yes No Total

RR data

N	54	125	179
NS	53	118	171
Wt	7423.46	5836.13	13259.60
Het Chi	228.03	323.77	553.37
Het df	53	124	178
Het P	***	***	***
Fixed RR	1.18	1.20	1.19
RRl	1.15	1.17	1.17
RRu	1.21	1.24	1.21
P	+++	+++	+++
Random RR	1.22	1.23	1.23
RRl	1.15	1.17	1.18
RRu	1.31	1.29	1.28
P	+++	+++	+++
Between Chi			1.56
Between df			1
Between P			N.S.

Study adjusts for family medical history

N	59	120	179
NS	57	114	171
Wt	3465.69	9793.91	13259.60
Het Chi	138.23	374.17	553.37
Het df	58	119	178
Het P	***	***	***
Fixed RR	1.31	1.15	1.19
RRl	1.26	1.13	1.17
RRu	1.35	1.17	1.21
P	+++	+++	+++
Random RR	1.27	1.20	1.23
RRl	1.20	1.14	1.18
RRu	1.35	1.26	1.28
P	+++	+++	+++
Between Chi			40.97
Between df			1
Between P			***

Study adjusts for family composition

N	27	152	179
NS	27	144	171
Wt	1174.08	12085.52	13259.60
Het Chi	41.75	510.42	553.37
Het df	26	151	178
Het P	*	***	***
Fixed RR	1.23	1.19	1.19
RRl	1.16	1.17	1.17
RRu	1.30	1.21	1.21
P	+++	+++	+++
Random RR	1.22	1.23	1.23
RRl	1.12	1.18	1.18
RRu	1.32	1.28	1.28
P	+++	+++	+++
Between Chi			1.20
Between df			1
Between P			N.S.

Appendix Table C25 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)

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

RR data

	N	35	144	179
	NS	33	138	171
	Wt	6098.72	7160.88	13259.60
Het	Chi	190.05	363.23	553.37
Het	df	34	143	178
Het	P	***	***	***
Fixed	RR	1.19	1.19	1.19
	RRl	1.16	1.17	1.17
	RRu	1.22	1.22	1.21
	P	+++	+++	+++
Random	RR	1.29	1.21	1.23
	RRl	1.18	1.16	1.18
	RRu	1.42	1.27	1.28
	P	+++	+++	+++
Between	Chi			0.08
Between	df			1
Between	P			N.S.

Study adjusts for housing quality, crowding, damp, mould

	N	36	143	179
	NS	35	136	171
	Wt	1530.54	11729.06	13259.60
Het	Chi	103.27	446.80	553.37
Het	df	35	142	178
Het	P	***	***	***
Fixed	RR	1.24	1.18	1.19
	RRl	1.18	1.16	1.17
	RRu	1.31	1.20	1.21
	P	+++	+++	+++
Random	RR	1.24	1.22	1.23
	RRl	1.13	1.17	1.18
	RRu	1.37	1.28	1.28
	P	+++	+++	+++
Between	Chi			3.29
Between	df			1
Between	P			(*)

Study adjusts for pets, animal contact, farming

	N	32	147	179
	NS	29	142	171
	Wt	1435.75	11823.85	13259.60
Het	Chi	96.11	448.72	553.37
Het	df	31	146	178
Het	P	***	***	***
Fixed	RR	1.28	1.18	1.19
	RRl	1.22	1.16	1.17
	RRu	1.35	1.20	1.21
	P	+++	+++	+++
Random	RR	1.26	1.22	1.23
	RRl	1.13	1.17	1.18
	RRu	1.41	1.27	1.28
	P	+++	+++	+++
Between	Chi			8.54
Between	df			1
Between	P			**

Appendix Table C25 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)

Adjusted
Study adjusts for child's medical history
Yes No Total

RR data

N	51	128	179
NS	47	124	171
Wt	2532.51	10727.09	13259.60
Het Chi	124.45	382.77	553.37
Het df	50	127	178
Het P	***	***	***
Fixed RR	1.34	1.16	1.19
RRl	1.29	1.13	1.17
RRu	1.40	1.18	1.21
P	+++	+++	+++
Random RR	1.29	1.21	1.23
RRl	1.19	1.15	1.18
RRu	1.39	1.26	1.28
P	+++	+++	+++
Between Chi			46.15
Between df			1
Between P			***

Study adjusts for in utero exposure

N	11	168	179
NS	10	161	171
Wt	644.50	12615.09	13259.60
Het Chi	21.96	526.98	553.37
Het df	10	167	178
Het P	*	***	***
Fixed RR	1.10	1.19	1.19
RRl	1.02	1.17	1.17
RRu	1.19	1.22	1.21
P	+	+++	+++
Random RR	1.13	1.23	1.23
RRl	0.99	1.19	1.18
RRu	1.29	1.29	1.28
P	(+)	+++	+++
Between Chi			4.43
Between df			1
Between P			*

Study adjusts for in life exposure

N	35	144	179
NS	34	137	171
Wt	1783.94	11475.65	13259.60
Het Chi	65.80	484.92	553.37
Het df	34	143	178
Het P	***	***	***
Fixed RR	1.23	1.18	1.19
RRl	1.18	1.16	1.17
RRu	1.29	1.21	1.21
P	+++	+++	+++
Random RR	1.26	1.21	1.23
RRl	1.17	1.16	1.18
RRu	1.36	1.27	1.28
P	+++	+++	+++
Between Chi			2.64
Between df			1
Between P			N.S.

Appendix Table C25 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

Asthma definition (lifetime/current)
 lifetime current Total

RR data

	N	109	70	179				
	NS	103	68	171				
	Wt	5983.38	7276.22	13259.60				
Het	Chi	291.79	261.38	553.37				
Het	df	108	69	178				
Het	P	***	***	***				
Fixed	RR	1.19	1.19	1.19				
	RRl	1.16	1.16	1.17				
	RRu	1.23	1.21	1.21				
	P	+++	+++	+++				
Random	RR	1.23	1.23	1.23				
	RRl	1.17	1.15	1.18				
	RRu	1.29	1.31	1.28				
	P	+++	+++	+++				
Between	Chi			0.19				
Between	df			1				
Between	P			N.S.				
Exposed group : Source/who is smoker								
	Biochem	TotETS	AnyHh	AnyPar	Mother	Father	Total	
	N	3	7	80	39	45	5	179
	NS	3	7	76	38	43	4	171
	Wt	36.62	1142.58	8023.11	1112.43	2857.90	86.95	13259.60
Het	Chi	2.00	27.35	278.99	41.04	82.29	2.71	553.37
Het	df	2	6	79	38	44	4	178
Het	P	N.S.	***	***	N.S.	***	N.S.	***
Fixed	RR	1.40	1.48	1.11	1.22	1.30	1.14	1.19
	RRl	1.01	1.40	1.09	1.15	1.26	0.92	1.17
	RRu	1.93	1.57	1.14	1.30	1.35	1.40	1.21
	P	+	+++	+++	+++	+++	N.S.	+++
Random	RR	1.40	1.39	1.17	1.22	1.31	1.14	1.23
	RRl	1.01	1.11	1.11	1.15	1.23	0.92	1.18
	RRu	1.93	1.75	1.24	1.30	1.40	1.40	1.28
	P	+	++	+++	+++	+++	N.S.	+++
Between	Chi							119.00
Between	df							5
Between	P							***
Exposed group : when Exposed								
	lif/ev	age<7y	current	unspec	other	Total		
	N	33	16	51	73	6	179	
	NS	31	15	50	70	5	171	
	Wt	2099.41	605.01	2797.30	7634.00	123.88	13259.60	
Het	Chi	55.35	42.22	115.18	314.11	9.74	553.37	
Het	df	32	15	50	72	5	178	
Het	P	**	***	***	***	(*)	***	
Fixed	RR	1.23	1.29	1.23	1.16	1.28	1.19	
	RRl	1.18	1.19	1.19	1.13	1.08	1.17	
	RRu	1.29	1.39	1.28	1.18	1.53	1.21	
	P	+++	+++	+++	+++	++	+++	
Random	RR	1.17	1.33	1.23	1.22	1.32	1.23	
	RRl	1.08	1.14	1.15	1.14	1.02	1.18	
	RRu	1.27	1.55	1.32	1.31	1.72	1.28	
	P	+++	+++	+++	+++	+	+++	
Between	Chi						16.76	
Between	df						4	
Between	P						**	

Appendix Table C25 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

Unexposed group : who is smoker
NoHhMemb NoParent NotSpPar Total

RR data

	N	92	41	46	179			
	NS	88	39	44	171			
	Wt	9208.51	1169.06	2882.02	13259.60			
Het	Chi	396.47	41.35	82.34	553.37			
Het	df	91	40	45	178			
Het	P	***	N.S.	***	***			
Fixed	RR	1.15	1.22	1.30	1.19			
	RRl	1.13	1.15	1.26	1.17			
	RRu	1.18	1.29	1.35	1.21			
	P	+++	+++	+++	+++			
Random	RR	1.19	1.22	1.31	1.23			
	RRl	1.12	1.15	1.22	1.18			
	RRu	1.26	1.29	1.39	1.28			
	P	+++	+++	+++	+++			
Between	Chi				33.21			
Between	df				2			
Between	P				***			
	Unexposed group : time							
		non	never	non+othr	NA	Total		
	N	158	17	1	3	179		
	NS	151	16	1	3	171		
	Wt	11346.87	1871.86	4.24	36.62	13259.60		
Het	Chi	513.16	25.54	0.00	2.00	553.37		
Het	df	157	16	0	2	178		
Het	P	***	(*)	N.S.	N.S.	***		
Fixed	RR	1.18	1.27	2.36	1.40	1.19		
	RRl	1.15	1.21	0.91	1.01	1.17		
	RRu	1.20	1.33	6.11	1.93	1.21		
	P	+++	+++	(+)	+	+++		
Random	RR	1.23	1.23	2.36	1.40	1.23		
	RRl	1.17	1.13	0.91	1.01	1.18		
	RRu	1.28	1.33	6.11	1.93	1.28		
	P	+++	+++	(+)	+	+++		
Between	Chi					12.67		
Between	df					3		
Between	P					**		
	Number of adjustment variables							
		0	1	2	3-5	6-9	10+	Total
	N	83	16	11	22	34	13	179
	NS	81	13	11	20	33	13	171
	Wt	4257.33	397.67	885.07	759.47	6366.03	594.03	13259.60
Het	Chi	198.55	26.79	44.13	59.11	192.97	18.46	553.37
Het	df	82	15	10	21	33	12	178
Het	P	***	*	***	***	***	N.S.	***
Fixed	RR	1.16	1.19	1.33	1.17	1.19	1.21	1.19
	RRl	1.13	1.07	1.25	1.09	1.16	1.12	1.17
	RRu	1.20	1.31	1.42	1.26	1.22	1.31	1.21
	P	+++	+++	+++	+++	+++	+++	+++
Random	RR	1.19	1.24	1.34	1.26	1.25	1.20	1.23
	RRl	1.12	1.07	1.16	1.11	1.14	1.08	1.18
	RRu	1.27	1.43	1.55	1.44	1.37	1.33	1.28
	P	+++	++	+++	+++	+++	++	+++
Between	Chi							13.38
Between	df							5
Between	P							*

Appendix Table C25 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma (or Current if Lifetime not available)
 Adjusted

RR adjusted for sex
 Yes No Total

RR data

N	63	116	179
NS	63	108	171
Wt	7941.90	5317.70	13259.60
Het Chi	247.29	304.83	553.37
Het df	62	115	178
Het P	***	***	***
Fixed RR	1.20	1.18	1.19
RRl	1.17	1.14	1.17
RRu	1.23	1.21	1.21
P	+++	+++	+++
Random RR	1.26	1.20	1.23
RRl	1.19	1.14	1.18
RRu	1.34	1.27	1.28
P	+++	+++	+++
Between Chi			1.24
Between df			1
Between P			N.S.

RR adjusted for age

N	50	129	179
NS	47	124	171
Wt	6502.19	6757.40	13259.60
Het Chi	128.87	394.76	553.37
Het df	49	128	178
Het P	***	***	***
Fixed RR	1.13	1.25	1.19
RRl	1.11	1.22	1.17
RRu	1.16	1.28	1.21
P	+++	+++	+++
Random RR	1.20	1.24	1.23
RRl	1.13	1.18	1.18
RRu	1.27	1.31	1.28
P	+++	+++	+++
Between Chi			29.73
Between df			1
Between P			***

RR adjusted for other ETS

N	18	161	179
NS	17	154	171
Wt	825.69	12433.91	13259.60
Het Chi	30.83	520.19	553.37
Het df	17	160	178
Het P	*	***	***
Fixed RR	1.25	1.19	1.19
RRl	1.17	1.17	1.17
RRu	1.34	1.21	1.21
P	+++	+++	+++
Random RR	1.26	1.22	1.23
RRl	1.13	1.17	1.18
RRu	1.39	1.28	1.28
P	+++	+++	+++
Between Chi			2.35
Between df			1
Between P			N.S.

Appendix Table C25 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)

Adjusted
RR adjusted for factor other than sex, age, other ETS
Yes No Total

RR data

	N	85	94	179		
	NS	80	91	171		
	Wt	8390.69	4868.91	13259.60		
Het	Chi	334.16	216.29	553.37		
Het	df	84	93	178		
Het	P	***	***	***		
Fixed	RR	1.20	1.17	1.19		
	RRl	1.18	1.13	1.17		
	RRu	1.23	1.20	1.21		
	P	+++	+++	+++		
Random	RR	1.26	1.19	1.23		
	RRl	1.19	1.13	1.18		
	RRu	1.34	1.26	1.28		
	P	+++	+++	+++		
Between	Chi			2.92		
Between	df			1		
Between	P			(*)		
	Original	Derivation of RR/CI		Other	Total	
		Numbers	SumNumbs			
	N	71	50	21	37	179
	NS	68	48	20	35	171
	Wt	7140.95	2196.37	461.41	3460.87	13259.60
Het	Chi	202.69	136.04	28.24	126.44	553.37
Het	df	70	49	20	36	178
Het	P	***	***	N.S.	***	***
Fixed	RR	1.16	1.10	1.10	1.32	1.19
	RRl	1.14	1.05	1.01	1.28	1.17
	RRu	1.19	1.15	1.21	1.37	1.21
	P	+++	+++	+	+++	+++
Random	RR	1.26	1.24	1.10	1.21	1.23
	RRl	1.20	1.14	0.97	1.12	1.18
	RRu	1.34	1.36	1.23	1.31	1.28
	P	+++	+++	N.S.	+++	+++
Between	Chi					59.96
Between	df					3
Between	P					***

Appendix Table C25 - 4

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

REF	NRR	X	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	-
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	-
AGUDOT	2		b	l	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
ALBA	1		b	l	0	13	all	Eu:wst	1993	1996	CC	0	AnyHh	NoHhMemb	current	non	-
ALDAW0	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	-
ANNES2	2	x	b	l	13	14	all	Eu:wst	1993	2004	CS	0	TotETS	None	current	non	-
ANNESI	1		b	l	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
ARIF	1	x	b	l	0	16	all	NAmer	2001	2004	CS	0	AnyHh	NoHhMemb	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	-
BENCIV	1	x	b	l	8	14	all	Eu:Ita	2001	2004	CS	0	Mother	NotMothr	unspec	non	-
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	-
DUHME1	3		b	c	5	8	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME2	1		b	c	12	15	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME3	3		b	c	5	8	all	Eu:Ger	1995	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME4	1		b	c	12	15	all	Eu:Ger	1995	1998	CS	2	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	-
FAROQ0	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	-
FREEM1	1	x	b	l	7	11	all	NAmer	1998	2003	CS	0	AnyHh	NoHhMemb	current	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	-

Appendix Table C25 - 4

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

REF	NRR	X	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
JAAKKO	1	x	b	c	4	4	all	Eu:Sca	1992	2001	Pr	0	AnyHh	NoHhMemb	<1m	non	-
JANG	1		b	c	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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	-
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	4	x	b	l	12	15	all	As:FE	1994	1998	CS	0	AnyHh	NoHhMemb	unspec	non	-
LAM2	1		b	l	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	-
LEE3	5		b	l	6	15	all	As:FE	2001	2003	CS	0	AnyHh	NoHhMemb	unspec	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	-
MAIER	6	x	b	l	5	9	all	NAmer	1994	1997	CS	0	TotETS	None	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	-
MAVALE	7		b	c	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	unspec	non	-
MCCON1	3		m	l	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	non	-
MCCON1	4		f	l	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	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	-
MILLER	4		b	c	2	2	all	NAmer	*	2004	Pr	5	AnyHh	NoHhMemb	current	othr	-
MOHAME	1		b	c	9	11	all	Africa	1990	1995	CC	0	AnyHh	NoHhMemb	unspec	non	-
MONTEI	1		b	l	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	current	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	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	-
NHANE3	37	x	b	l	4	16	w+b	NAmer	1988	2001	CS	0	Biochem	Low	-	-	blood
NICOLA	1		b	l	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	non	-
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	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	-
PIROGO	3		b	l	0	15	all	Eu:est	*	2004	CS	0	AnyHh	NoHhMemb	unspec	non	-
POKHAR	1	x	b	l	11	15	all	As:cen	1995	2001	CC	0	AnyHh	NoHhMemb	unspec	non	-
PONSON	7	x	b	l	0	7	all	Auslia	1988	2000	Pr	0	AnyHh	NoHhMemb	<1m	non	-
QIAN	1		b	l	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never	-
RASANE	1	x	b	l	16	16	all	Eu:Sca	1991	2000	CS	0	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	-
RIBEIR	1		b	c	4	9	all	SCAmer	1996	2002	CS	0	AnyPar	NoParent	current	non	-
RONCH1	3	x	m	l	6	13	all	Eu:Ita	1974	2001	CS	0	AnyHh	Low	current	non	-
RONCH1	6	x	f	l	6	13	all	Eu:Ita	1974	2001	CS	0	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	-
RONMA1	1		b	c	7	8	all	Eu:Sca	1996	1998	CS	5	Mother	NotMothr	unspec	non	-
RONMA3	1	x	b	l	7	10	all	Eu:Sca	1996	2002	Pr	0	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	-

Appendix Table C25 - 4

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

REF	NRR	X	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
SCHMIT	1		b	c	6	15	all	Eu:wst	1989	1993	CS	4	Mother	NotMothr	unspec	non	-
SELCUK	1	x	b	l	7	12	all	Eu:est	1994	1997	CS	0	AnyHh	NoHhMemb	unspec	non	-
SENNHA	1		b	l	1	16	all	Eu:wst	1990	1992	CS	0	AnyHh	NoHhMemb	unspec	non	-
SHAMS2	2		b	l	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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	-
SHIVA	1		b	c	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	non	-
SHOHAT	2	x	b	c	13	14	all	As:ME	1997	2002	CS	0	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	2	x	b	l	7	13	all	Eu:Sca	1989	1995	CS	0	Mother	NotMothr	in life	non	-
SPENGL	2		b	c	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	non	-
SQUILL	1		b	l	8	12	all	NAmer	1992	1997	CC	0	AnyHh	NoHhMemb	unspec	non	-
STANHO	2		b	l	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	-
STURM	1	x	b	c	12	14	all	NAmer	1999	2004	CS	0	TotETS	Low	unspec	non	-
TARIQ	10	x	b	c	4	4	all	Eu:UK	1989	2000	Pr	0	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	-
VENNER	3		f	l	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VERHOE	3		b	l	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never	-
VONMAF	1		b	l	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	-
WARKE	1		b	l	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non	-
WICKMA	1	x	b	l	0	2	all	Eu:Sca	1994	2003	Pr	0	Mother	NotMothr	utero/2m	non	-
WIJGA	1		b	l	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WILLE1	7		b	c	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-
WITHER	1		b	l	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLF01	2		b	l	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	2		b	l	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	2		b	l	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	l	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 C25 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	1	b	0	68	70	34	32	0.91 (	0.51-	1.64)
ALDAW0	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)
ANNES2	2	b	0	904	6449	699	5172	1.04 (	0.93-	1.15)
ANNESI	1	b	0	164	1243	255	2491	1.29 (	1.05-	1.59)
ARIF	1	b	0	46	-	161	-	1.45 (	1.01-	2.08)
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)
BENCIV	1	b	0	290	1162	413	2535	1.53 (	1.30-	1.81)
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)
CSOKA	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)
DUHME1	3	b	2	-	-	-	-	1.15 (	0.90-	1.47)
DUHME2	1	b	2	-	-	-	-	1.10 (	0.90-	1.34)
DUHME3	1	b	2	-	-	-	-	0.96 (	0.70-	1.32)
DUHME4	1	b	2	-	-	-	-	1.47 (	1.18-	1.83)
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)
FREEM1	1	b	0	-	-	-	-	2.27 (	1.89-	2.74)
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)

Appendix Table C25 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
JAACKO	1	b	0	71	932	93	1427	1.17 (	0.85-	1.61)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
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)
LEE3	5	b	0	1114	16604	1094	13428	0.82 (	0.76-	0.90)
*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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
*MCCON1	3	m	3	-	-	-	-	1.53 (	1.03-	2.26)
*MCCON1	4	f	3	-	-	-	-	0.84 (	0.59-	1.19)
Subtotal	MCCON1							1.10 (	0.84-	1.42)
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)
MILLER	4	b	5	-	-	-	-	2.36 (	0.91-	6.10)
MOHAME	1	b	0	-	-	-	-	1.60 (	0.80-	3.20)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)
NICOLA	1	b	0	126	1043	192	1710	1.08 (	0.85-	1.36)
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)
PIROGO	3	b	0	13	82	4	37	1.47 (	0.45-	4.80)
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)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)

Appendix Table C25 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
RONMA1 1		b	5	-	-	-	-	1.60 (	1.12-	2.28)
*RONMA3 1		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)
SHAMS2 2		b	0	-	-	-	-	0.99 (	0.81-	1.18)
SHAMSS 2		b	0	-	-	-	-	1.39 (	1.12-	1.74)
*SHERMA 2		b	2	-	-	-	-	1.18 (	0.76-	1.83)
SHIVA 1		b	0	9	233	9	344	1.48 (	0.58-	3.77)
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)
SPENGL 2		b	5	-	-	-	-	1.22 (	0.75-	2.03)
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)
STURM 1		b	0	8445	65637	2900	38534	1.71 (	1.64-	1.79)
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	1203	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)
WARKE 1		b	0	55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA 1		b	0	64	480	251	3212	1.71 (	1.32-	2.21)
WIJGA 1		b	17	-	-	-	-	0.83 (	0.59-	1.19)
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)
WOLF01 2		b	7	-	-	-	-	1.12 (	0.63-	1.98)
WOLF02 2		b	7	-	-	-	-	1.35 (	0.75-	2.43)
WOLF03 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				38754	279363	30553	254572			
*prospective study										
									~ With 0.5 adjustment for zero	

Appendix Table C25 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO	1	b	0	1.32	2.85	3.61	0.0262
AGABI1	7	b	0	0.28	110.77	0.97	0.0027
AGABI2	7	b	0	0.23	146.28	0.27	0.0047
AGUDOT	2	b	4	0.51	2.72	0.28	0.3979
ALBA	1	b	0	-0.09	11.15	0.88	0.7647
ALDAWO	2	m	0	0.76	8.40	2.73	0.0274
ALFRA1	2	b	0	0.41	22.65	1.11	0.0498
ANDRAE	1	b	0	-0.12	57.05	5.50	0.3670
ANNES2	2	b	0	0.04	346.59	8.29	0.4967
ANNESI	1	b	0	0.25	89.09	0.35	0.0166
ARIF	1	b	0	0.37	29.44	0.96	0.0438
ARSHAD	1	b	7	1.20	1.82	1.87	0.1044
BARRET	1	b	0	0.52	5.17	0.56	0.2373
BECKET	5	b	0	0.39	84.17	3.27	0.0004
BENCIV	1	b	0	0.43	140.36	7.77	0.0000
BENER	1	b	0	0.24	19.32	0.05	0.2839
BERGMA	1	b	8	0.28	23.66	0.18	0.1769
BRABIN	1	b	0	0.09	60.59	0.64	0.4910
BURCHF	5	m	1	0.22	32.51	0.02	0.2200
BURCHF	8	f	1	0.00	24.97	0.91	1.0000
Subtotal BURCHF				-0.17	57.49	0.93	
BUTZ	6	b	0	0.19	9.83	0.00	0.5487
CALL	1	b	0	-0.06	4.55	0.28	0.9029
CHEN1	1	b	0	0.25	11.14	0.03	0.4102
CHEN2	11	b	0	0.13	18.71	0.07	0.5742
CHHABR	1	b	0	0.48	67.93	5.69	0.0001
CLARK	2	b	0	0.63	2.97	0.58	0.2753
CSONKA	2	b	0	0.79	15.67	5.59	0.0018
CUNNI1	1	b	0	-0.03	187.78	9.24	0.6744
DAIGLE	1	b	0	0.36	19.66	0.56	0.1106
DEKKER	3	b	0	0.43	142.02	8.13	0.0000
DELL	2	b	0	0.42	18.30	0.95	0.0733
DIJKST	1	b	0	0.67	6.59	1.50	0.0865
DODGE	9	b	0	0.48	7.26	0.59	0.2000
DOLD	17	b	0	0.14	114.83	0.28	0.1294
DOTTER	1	m	6	-0.69	10.60	8.29	0.0240
DOTTER	2	f	6	-0.69	5.29	4.13	0.1110
Subtotal DOTTER				-1.77	15.89	12.42	
DUHME1	3	b	2	0.14	63.84	0.17	0.2641
DUHME2	1	b	2	0.10	96.99	0.89	0.3479
DUHME3	3	b	2	-0.04	38.19	2.05	0.8008
DUHME4	1	b	2	0.39	79.80	3.01	0.0006
ECE	3	b	0	0.18	79.23	0.01	0.1041
EHRLI2	3	b	0	0.63	11.17	2.12	0.0363
FAGBUL	1	b	0	0.75	16.88	5.31	0.0020
FARBE2	1	b	0	0.39	49.72	1.93	0.0062
FAROOQ	1	b	0	0.25	72.93	0.29	0.0297
*FERGUS	7	b	0	0.04	37.52	0.87	0.8106
FLYNN1	1	b	0	0.23	47.28	0.08	0.1120
FORAST	7	b	0	0.31	36.81	0.55	0.0570
FORSB1	2	b	14	0.10	19.52	0.18	0.6737
FORSB2	2	b	14	-0.36	5.48	1.65	0.4036
FORSB3	2	b	15	0.44	50.37	3.24	0.0016
FREEM1	1	b	0	0.82	111.41	44.03	0.0000
FUJI	1	b	0	-0.27	15.01	3.20	0.2946
GILLIL	59	m	0	-0.04	79.01	4.36	0.6979
GILLIL	68	f	0	0.22	63.42	0.04	0.0831
Subtotal GILLIL				-0.21	142.43	4.40	
GOLD	11	b	0	0.26	211.41	0.88	0.0002
GOREN1	3	b	0	0.07	27.97	0.40	0.7071
GOREN2	2	b	0	0.18	124.95	0.01	0.0411
GORTM1	1	b	0	0.46	43.97	3.25	0.0021
GORTM2	1	b	0	0.63	6.99	1.32	0.0978
GUPTA	1	b	0	0.58	48.25	7.23	0.0001
GURKAN	1	b	0	0.63	11.10	2.09	0.0372
HABY	2	b	0	0.29	37.52	0.39	0.0720
HAJNAL	1	b	13	0.18	63.05	0.00	0.1477
HJERN1	5	b	0	-0.17	28.32	3.73	0.3611
HJERN2	5	b	0	0.16	18.42	0.02	0.4983

Appendix Table C25 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
HOST	1	b	0	-0.12	7.87	0.74	0.7459
HU1	2	b	0	0.20	19.79	0.00	0.3785
HU2	21	b	0	0.84	29.22	12.42	0.0000
INFANT	3	b	0	0.15	53.83	0.10	0.2761
JAAKKO	1	b	0	0.16	37.58	0.05	0.3387
JANG	1	b	0	0.46	26.78	1.95	0.0170
JENKIN	1	m	0	0.23	153.77	0.26	0.0040
JENKIN	3	f	0	0.37	112.42	3.67	0.0001
Subtotal	JENKIN			0.22	266.19	3.92	
JONES	2	b	0	0.16	9.47	0.01	0.6266
KARUNA	1	b	0	0.12	36.46	0.17	0.4564
KAY	7	b	0	0.35	42.07	1.07	0.0231
KENDIR	1	b	0	0.34	99.03	2.30	0.0006
KERSHA	3	b	0	1.17	11.87	11.33	0.0001
KIVITY	4	b	0	0.59	13.44	2.12	0.0311
KUEHR	2	b	0	-0.34	20.93	5.99	0.1158
KUHR	4	b	0	0.70	5.57	1.43	0.0997
LAM1	4	b	0	-0.11	82.75	7.48	0.3195
LAM2	1	b	4	-0.09	53.37	4.35	0.4908
LAU	1	b	0	0.30	5.74	0.07	0.4716
LEE1	1	b	8	0.31	395.94	6.06	0.0000
LEE2	1	b	8	-0.01	224.74	9.10	0.8802
LEE3	5	b	0	-0.19	513.76	76.28	0.0000
*LEEDER	1	b	0	0.30	9.19	0.12	0.3569
LEEN	1	b	0	-0.28	12.81	2.85	0.3157
LEROUX	1	b	0	0.26	21.30	0.10	0.2285
LILLJE	1	b	0	0.09	42.18	0.47	0.5801
LINDFO	1	b	0	0.50	29.55	2.83	0.0065
LIS	1	b	0	0.31	37.30	0.50	0.0604
LISTER	1	b	0	0.39	82.96	3.13	0.0004
MAIER	6	b	0	0.74	19.09	5.80	0.0012
*MARTIN	1	m	0	0.49	14.81	1.32	0.0593
*MARTIN	2	f	0	0.58	6.43	0.97	0.1422
Subtotal	MARTIN			0.69	21.23	2.29	
MAVALE	7	b	0	0.78	9.68	3.36	0.0153
*MCCON1	3	m	3	0.43	24.88	1.36	0.0339
*MCCON1	4	f	3	-0.17	31.22	4.17	0.3300
Subtotal	MCCON1			-0.13	56.10	5.53	
MCCON2	2	b	0	-0.58	1.65	0.99	0.4523
*MCKEEV	4	b	0	0.27	1119.12	7.11	0.0000
MELSOM	5	m	0	1.10	5.71	4.71	0.0086
MELSOM	6	f	0	0.00	2.82	0.10	1.0000
Subtotal	MELSOM			0.72	8.53	4.81	
MILLER	4	b	5	0.86	4.24	1.89	0.0769
MOHAME	1	b	0	0.47	8.00	0.62	0.1838
MONTEI	1	b	0	0.22	56.12	0.06	0.0946
MOUSSA	1	b	0	1.10	0.37	0.31	0.5000
MOYES1	1	b	0	0.06	120.55	2.21	0.5411
MOYES2	1	b	0	-0.06	115.09	7.13	0.5355
MUMCUO	6	b	0	-0.07	17.74	1.21	0.7676
MURRAY	1	m	0	0.36	15.96	0.45	0.1513
MURRAY	3	f	0	0.27	9.66	0.06	0.3967
Subtotal	MURRAY			0.25	25.62	0.51	
NHANE3	37	b	0	0.05	110.40	2.07	0.5693
NICOLA	1	b	0	0.07	68.08	0.95	0.5460
NILSSO	1	b	0	0.00	31.98	1.17	1.0000
NITTA	1	b	5	-0.09	14.17	1.15	0.7226
OCONNE	1	b	0	0.25	33.98	0.14	0.1384
*ODDY	1	b	4	0.24	96.50	0.22	0.0189
OHARA	5	b	0	-0.11	32.01	2.82	0.5504
PALMIE	3	b	0	-0.00	30.71	1.13	0.9963
PETERS	6	b	6	-0.15	44.74	5.23	0.3131
PIC	1	b	0	0.09	26.03	0.26	0.6397
PIROGO	3	b	0	0.38	2.73	0.10	0.5269
POKHAR	1	b	0	0.98	6.07	3.80	0.0155
*PONSON	7	b	0	0.10	86.48	0.74	0.3581
QIAN	1	b	7	0.75	3.96	1.22	0.1372
RASANE	1	b	0	0.40	41.70	1.81	0.0099
RATAGE	1	b	0	0.07	10.00	0.15	0.8330

Appendix Table C25 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
RENNIE	1	b	6	0.02	13.41	0.39	0.9422
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONCH1	3	m	0	0.48	14.32	1.17	0.0712
RONCH1	6	f	0	0.50	10.74	1.00	0.1042
Subtotal	RONCH1			0.59	25.06	2.17	
RONCH2	3	b	0	0.29	31.60	0.30	0.1048
RONCH3	3	b	0	-0.02	24.61	1.09	0.9224
RONMA1	1	b	5	0.47	30.41	2.36	0.0095
*RONMA3	1	b	0	0.11	20.00	0.12	0.6123
ROSASV	1	b	0	0.45	3.25	0.22	0.4168
SARRAZ	1	b	0	0.20	2.03	0.00	0.7783
SCHMIT	1	b	4	0.73	13.33	3.84	0.0079
SELCUK	1	b	0	0.34	129.52	2.98	0.0001
SENNHA	1	b	0	0.23	58.71	0.07	0.0833
SHAMS2	2	b	0	-0.01	108.55	4.39	0.9166
SHAMSS	2	b	0	0.33	79.17	1.51	0.0034
*SHERMA	2	b	2	0.17	19.90	0.01	0.4603
SHIVA	1	b	0	0.39	4.36	0.17	0.4160
SHOHAT	2	b	0	0.44	123.73	7.61	0.0000
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOTOQU	1	b	0	0.42	46.33	2.49	0.0040
SOYSET	2	b	0	0.69	10.19	2.51	0.0282
SPENGL	2	b	5	0.20	15.50	0.00	0.4337
SQUILL	1	b	0	0.10	18.67	0.15	0.6613
STANHO	2	b	0	-0.92	4.90	6.02	0.0423
STERN1	1	b	0	0.11	11.71	0.08	0.7107
STODDA	5	b	0	0.32	133.49	2.08	0.0003
STRACH	3	b	0	0.32	41.13	0.68	0.0403
STURM	1	b	0	0.54	1982.45	236.14	0.0000
TARIQ	10	b	0	0.08	29.85	0.36	0.6591
*TAYLOR	4	b	0	-0.04	72.55	3.90	0.7281
TIMONE	1	b	0	-0.58	9.03	5.38	0.0808
TOMINA	2	b	0	-1.06	1.84	2.87	0.1515
TSIMOY	1	b	0	0.04	2.59	0.06	0.9464
VARELA	1	b	0	1.09	2.80	2.25	0.0687
VAVILI	1	b	0	-0.50	11.30	5.36	0.0945
VENNER	6	m	0	0.09	27.66	0.26	0.6182
VENNER	3	f	0	0.18	28.98	0.01	0.3399
Subtotal	VENNER			-0.11	56.63	0.26	
VERHOE	3	b	0	-0.25	17.31	3.38	0.2972
VONMAF	1	b	0	0.23	78.55	0.12	0.0417
WANG	1	b	0	0.02	4324.61	132.53	0.2904
WARKE	1	b	0	-0.12	12.07	1.14	0.6860
*WICKMA	1	b	0	0.53	58.09	6.84	0.0000
WIJGA	1	b	17	-0.19	31.22	4.45	0.2978
WILLE1	7	b	0	0.68	6.06	1.43	0.0955
WITHER	1	b	0	0.18	92.49	0.02	0.0890
WOLF01	2	b	7	0.11	11.72	0.07	0.6981
WOLF02	2	b	7	0.30	11.12	0.13	0.3170
WOLF03	2	b	10	0.33	24.30	0.46	0.1046
YANG	1	b	0	-0.31	39.48	10.00	0.0498
*ZEIGER	1	b	0	0.21	10.38	0.01	0.4914
ZHENG	7	b	0	0.39	57.94	2.19	0.0033

Appendix Table C25 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
 Unadjusted

RR data

	N	181
	NS	171
	Wt	15798.57
Het	Chi	863.76
Het	df	180
Het	P	***
Fixed	RR	1.21
	RRl	1.19
	RRu	1.23
	P	+++
Random	RR	1.25
	RRl	1.19
	RRu	1.30
	P	+++
Asymm	P	N.S.

Appendix Table C25 - 6

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

RR data

	N	181						
	NS	171						
	Wt	15798.57						
Het	Chi	863.76						
Het	df	180						
Het	P	***						
Fixed	RR	1.21						
	RRl	1.19						
	RRu	1.23						
	P	+++						
Random	RR	1.25						
	RRl	1.19						
	RRu	1.30						
	P	+++						
Asymm	P	N.S.						
			Sex					
		both	male	female			Total	
	N	160	11	10			181	
	NS	160	11	10			181	
	Wt	15115.00	387.64	295.94			15798.57	
Het	Chi	823.77	24.89	14.91			863.76	
Het	df	159	10	9			180	
Het	P	***	**	(*)			***	
Fixed	RR	1.21	1.22	1.24			1.21	
	RRl	1.19	1.11	1.11			1.19	
	RRu	1.23	1.35	1.39			1.23	
	P	+++	+++	+++			+++	
Random	RR	1.25	1.28	1.18			1.25	
	RRl	1.19	1.07	1.00			1.19	
	RRu	1.31	1.54	1.41			1.30	
	P	+++	++	(+)			+++	
Between	Chi						0.19	
Between	df						2	
Between	P						N.S.	
			Continent					
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	43	6	81	36	11	4	181
	NS	38	6	79	34	10	4	171
	Wt	3802.63	118.29	4500.47	6444.78	895.00	37.40	15798.57
Het	Chi	171.19	2.90	161.33	165.11	24.57	1.55	863.76
Het	df	42	5	80	35	10	3	180
Het	P	***	N.S.	***	***	**	N.S.	***
Fixed	RR	1.51	1.38	1.23	1.05	1.20	2.10	1.21
	RRl	1.46	1.16	1.20	1.02	1.12	1.52	1.19
	RRu	1.56	1.66	1.27	1.07	1.28	2.89	1.23
	P	+++	+++	+++	+++	+++	+++	+++
Random	RR	1.35	1.38	1.22	1.17	1.19	2.10	1.25
	RRl	1.23	1.16	1.16	1.07	1.07	1.52	1.19
	RRu	1.48	1.66	1.28	1.28	1.32	2.89	1.30
	P	+++	+++	+++	+++	++	+++	+++
Between	Chi							337.12
Between	df							5
Between	P							***

Appendix Table C25 - 6

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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	41	95	24	181
	NS	4	13	40	90	24	171
	Wt	366.85	541.41	1696.94	11322.78	1870.59	15798.57
Het	Chi	3.30	22.86	84.94	680.71	62.50	863.76
Het	df	5	14	40	94	23	180
Het	P	N.S.	(*)	***	***	***	***
Fixed	RR	1.30	1.25	1.25	1.19	1.26	1.21
	RRl	1.17	1.15	1.19	1.17	1.20	1.19
	RRu	1.44	1.36	1.31	1.21	1.32	1.23
	P	+++	+++	+++	+++	+++	+++
Random	RR	1.30	1.25	1.31	1.21	1.26	1.25
	RRl	1.17	1.09	1.20	1.14	1.13	1.19
	RRu	1.44	1.42	1.41	1.29	1.42	1.30
	P	+++	+++	+++	+++	+++	+++
Between	Chi						9.45
Between	df						4
Between	P						(*)
	Study type						
	CC	Pr	CS	Total			
	N	37	25	119	181		
	NS	36	23	112	171		
	Wt	938.07	2031.33	12829.17	15798.57		
Het	Chi	63.41	51.36	733.30	863.76		
Het	df	36	24	118	180		
Het	P	**	***	***	***		
Fixed	RR	1.33	1.27	1.19	1.21		
	RRl	1.25	1.21	1.17	1.19		
	RRu	1.42	1.32	1.21	1.23		
	P	+++	+++	+++	+++		
Random	RR	1.33	1.23	1.23	1.25		
	RRl	1.20	1.12	1.16	1.19		
	RRu	1.47	1.35	1.30	1.30		
	P	+++	+++	+++	+++		
Between	Chi				15.69		
Between	df				2		
Between	P				***		

Appendix Table C25 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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	CELEDO	CUNNI2	JAAKK2	KAPLAN	KELLY	LOPEZC	NYSTAD	OLIVET	WEITZ1	WEITZ2		XU	YUAN			
3	CHINN	EHRLI1	KABESC	KASPER	KNIGHT	SOMERV										
4	AKCAKA	AZIZI	BALL	BURR	DEBENE	DEKOK	FIELDE	FLYNN2	FREEM2	GOREN3	GOREN4	GOREN5	GOREN6	HALONE	HUGHES	KALY01
	KALY02	KEARNE	LEVES1	LEVES2	LEVES3	MELIA	MONTEF	RUDNIK	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	ZEJDA	ZHANG
15	ALFRA2	FARBE1	FARBE3	RONMA2	SPIEKE	WILLE2										

Appendix Table C25 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma (or Current if Lifetime not available)
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP																
GILLIL	GILLIL	1	MCCON1/GILLIL																
MCCON1	MCCON1	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																
WOLF01	WOLF01	1	WOLF01/WOLF02/WOLF03																
WOLF02	WOLF02	1	WOLF01/WOLF02/WOLF03																
WOLF03	WOLF03	1	WOLF01/WOLF02/WOLF03																
CSONKA	CSONKA	1	JAAKK2/CSONKA																
NICOLA	NICOLA	1	KABESC/NICOLA																
DUHME1	BEHREN	2	DUHME1/BEHREN																
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3																
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3																
Adjusted - insufficient data for metaanalysis																			
REF	NRR	SEX	AST	AGEI	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	RR	SIG	
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	
AZZIZI	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	utero/life	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	
FREEM2	1	b	l	4	5	all	Namer	1998	2003	CS	2	AnyHh	NoHhMemb	current	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	
HALONE	1	b	c	6	6	all	Namer	1980	1999	Pr	0	Mother	NotMothr	in life	non	-	*	n	
HUGHES	1	b	c	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	-	*	n	
KALY01	1	b	l	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n	
KALY02	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	
LEVES1	1	b	l	9	9	all	Namer	1999	2004	CS	0	AnyHh	None	unspec	non	-	*	n	
LEVES2	1	b	l	13	13	all	Namer	1999	2004	CS	0	AnyHh	None	unspec	non	-	*	n	
LEVES3	1	b	l	16	16	all	Namer	1999	2004	CS	0	AnyHh	None	unspec	non	-	*	n	
LISTER	9	b	l	0	4	all	Auslia	1989	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	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	
RONMA3	4	b	l	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	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	

Appendix Table C25 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma (or Current if Lifetime not available)
 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
ZHANG	1	b	l	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	-	1.04	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	BIOMEA	RR	SIG
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 C26 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C5 - 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 C26 - 1

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

REF	NRR	CompC5	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	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
AGUDOT	2			b	l	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never
ALBA	2			b	l	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAW0	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
BENCIV	3			b	l	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	unspec	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
JANG	1		x	b	c	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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
MAVALE	7		x	b	c	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	unspec	non
MCCON1	2			b	l	9	18	all	NAmer	1993	2002	Pr	5	Mother	NotMothr	9-16y	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
MONTEI	1			b	l	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	current	non
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

Appendix Table C26 - 1

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

REF	NRR	CompC5	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
OCONNE	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
QIAN	1		b	l	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never
RASANE	3		b	l	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never
RATAGE	2		b	l	5	15	all	As:cen	1996	2000	CC	0	Father	NotFathr	unspec	non
RENNIE	1		b	l	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
RONMA1	1	x	b	c	7	8	all	Eu:Sca	1996	1998	CS	5	Mother	NotMothr	unspec	non
RONMA3	2		b	l	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non
ROSASV	1		b	l	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
SHAMS2	2		b	l	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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
SHIVA	1	x	b	c	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	non
SHOHAT	4	x	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	x	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
SPENGL	2	x	b	c	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	non
STANHO	2		b	l	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	l	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	l	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VENNER	3		f	l	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VERHOE	3		b	l	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never
WARKE	1		b	l	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non
WICKMA	2		b	l	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non
WILLE1	7	x	b	c	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non
WITHER	6		b	l	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 C26 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
AGABI1	14	b	11	558	-	148	-	1.34 (	1.11-	1.62)
AGABI2	14	b	12	700	-	203	-	1.17 (	0.99-	1.39)
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
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)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
*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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
MOUSSA	1	b	0	1	0	202	203	3.01~(	0.12-	74.44)

Appendix Table C26 - 2

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

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed Case	Control	Case	Control			
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)
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)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
RONMA1	1	b	5	-	-	-	-	1.60 (	1.12-	2.28)
*RONMA3	2	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)
SHAMS2	2	b	0	-	-	-	-	0.99 (	0.81-	1.18)
SHAMSS	2	b	0	-	-	-	-	1.39 (	1.12-	1.74)
*SHERMA	2	b	2	-	-	-	-	1.18 (	0.76-	1.83)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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)
SPENGL	2	b	5	-	-	-	-	1.22 (	0.75-	2.03)
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)
WARKE	1	b	0	55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA	2	b	8	64	-	251	-	1.65 (	1.21-	2.25)
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				10228	27595	13520	42839			
*prospective study								~ With 0.5 adjustment for zero		

Appendix Table C26 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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
AGABI1	14	b	11	0.29	107.50	0.34	0.0024
AGABI2	14	b	12	0.16	133.43	0.84	0.0697
AGUDOT	2	b	4	0.51	2.72	0.21	0.3979
ALBA	2	b	0	0.09	10.78	0.22	0.7608
ALDAW0	2	m	0	0.76	8.40	2.31	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
ARSHAD	1	b	7	1.20	1.82	1.70	0.1044
BENCIV	3	b	2	0.43	116.67	4.46	0.0000
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	4	b	0	0.21	12.89	0.01	0.4416
CHEN2	34	b	6	0.51	15.10	1.16	0.0463
DAIGLE	3	b	7	0.67	11.64	2.22	0.0217
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	4	b	0	0.69	10.00	2.09	0.0284
FAGBUL	2	b	1	0.34	14.40	0.17	0.1923
FARBE2	2	b	3	0.41	57.72	1.79	0.0017
FAROOQ	1	b	0	0.25	72.93	0.02	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
GILLIL	36	b	8	-0.11	12.73	1.49	0.7070
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	0.97	0.0155
GORTM2	1	b	0	0.63	6.99	1.06	0.0978
HABY	4	b	9	0.48	13.60	0.82	0.0752
HAJNAL	3	b	13	0.15	49.92	0.38	0.2943
HJERN1	13	b	9	-0.33	34.86	11.12	0.0524
HJERN2	13	b	9	-0.06	22.00	1.95	0.7716
HOST	1	b	0	-0.12	7.87	0.97	0.7459
HU1	4	b	7	-0.22	12.73	2.69	0.4259
HU2	23	b	3	0.44	31.16	1.27	0.0144
INFANT	10	b	19	0.34	25.97	0.26	0.0864
JANG	1	b	0	0.46	26.78	1.35	0.0170
JENKIN	5	b	7	0.23	116.41	0.00	0.0126
JONES	2	b	0	0.16	9.47	0.06	0.6266
KAY	20	b	1	0.35	38.89	0.51	0.0288
KERSHA	5	b	1	0.89	19.22	8.16	0.0001
KIVITY	4	b	0	0.59	13.44	1.66	0.0311
KUEHR	6	b	1	-0.39	19.88	7.69	0.0855
KUHR	4	b	0	0.70	5.57	1.19	0.0997
LAM1	18	b	4	0.28	10.02	0.02	0.3796
LAM2	9	b	4	-0.14	42.22	5.95	0.3655
LAU	1	b	0	0.30	5.74	0.02	0.4716
*LEEDER	2	b	1	0.29	8.17	0.02	0.4149
LEEN	1	b	0	-0.28	12.81	3.42	0.3157
LEROUX	2	b	10	0.58	14.02	1.68	0.0293
LILLJE	1	b	0	0.09	42.18	0.96	0.5801
LINDFO	1	b	0	0.50	29.55	2.07	0.0065
LIS	1	b	0	0.31	37.30	0.19	0.0604
LISTER	3	b	8	0.42	64.33	2.14	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	
MAVALE	7	b	0	0.78	9.68	2.86	0.0153
*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	4	b	0	0.27	1119.12	1.34	0.0000
MONTEI	1	b	0	0.22	56.12	0.01	0.0946
MOUSSA	1	b	0	1.10	0.37	0.28	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.70	0.0258

Appendix Table C26 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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
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	1.78	1.0000
OCONNE	1	b	0	0.25	33.98	0.01	0.1384
OHARA	6	b	4	-0.09	34.25	3.74	0.5810
PALMIE	3	b	0	-0.00	30.71	1.73	0.9963
PIC	1	b	0	0.09	26.03	0.54	0.6397
*PONSON	4	b	6	0.05	107.38	3.77	0.6131
QIAN	1	b	7	0.75	3.96	1.03	0.1372
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
RIBEIR	1	b	0	0.18	7.76	0.02	0.6116
RONMA1	1	b	5	0.47	30.41	1.66	0.0095
*RONMA3	2	b	9	0.31	15.08	0.08	0.2324
ROSASV	1	b	0	0.45	3.25	0.15	0.4168
SCHMIT	1	b	4	0.73	13.33	3.22	0.0079
SHAMS2	2	b	0	-0.01	108.55	6.58	0.9166
SHAMSS	2	b	0	0.33	79.17	0.69	0.0034
*SHERMA	2	b	2	0.17	19.90	0.10	0.4603
SHIVA	1	b	0	0.39	4.36	0.10	0.4160
SHOHAT	4	b	12	0.19	64.12	0.13	0.1269
*SIGURS	1	b	0	0.18	3.26	0.01	0.7422
SOTOQU	1	b	0	0.42	46.33	1.61	0.0040
SOYSET	14	b	5	1.03	6.43	4.05	0.0090
SPENGL	2	b	5	0.20	15.50	0.02	0.4337
STANHO	2	b	0	-0.92	4.90	6.52	0.0423
STERN1	1	b	0	0.11	11.71	0.19	0.7107
STODDA	10	b	9	0.31	124.44	0.63	0.0006
STRACH	9	b	4	0.21	27.70	0.02	0.2759
TARIQ	12	b	1	-0.12	19.03	2.37	0.6112
*TAYLOR	4	b	0	-0.04	72.55	5.57	0.7281
TOMINA	2	b	0	-1.06	1.84	3.08	0.1515
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	3	b	0	-0.25	17.31	4.10	0.2972
WARKE	1	b	0	-0.12	12.07	1.50	0.6860
*WICKMA	2	b	8	0.50	39.93	2.80	0.0016
WILLE1	7	b	0	0.68	6.06	1.18	0.0955
WITHER	6	b	5	0.41	50.42	1.44	0.0040
ZHENG	26	b	0	0.71	6.34	1.42	0.0739

RR data

	N	108
	NS	104
	Wt	4622.32
Het	Chi	168.96
Het	df	107
Het	P	***
Fixed	RR	1.27
	RRl	1.23
	RRu	1.30
	P	+++
Random	RR	1.26
	RRl	1.21
	RRu	1.32
	P	+++
Asymm	P	N.S.

Appendix Table C26 - 3

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

RR data

	N	108						
	NS	104						
	Wt	4622.32						
Het	Chi	168.96						
Het	df	107						
Het	P	***						
Fixed	RR	1.27						
	RRl	1.23						
	RRu	1.30						
	P	+++						
Random	RR	1.26						
	RRl	1.21						
	RRu	1.32						
	P	+++						
Asymm	P	N.S.						
			<u>Sex</u>					
		both	male	female			Total	
	N	99	5	4			108	
	NS	99	5	4			108	
	Wt	4459.54	94.79	68.00			4622.32	
Het	Chi	162.06	4.01	2.27			168.96	
Het	df	98	4	3			107	
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	1.30	1.64	1.50			1.30	
	P	+++	++	N.S.			+++	
Random	RR	1.26	1.34	1.18			1.26	
	RRl	1.20	1.09	0.93			1.21	
	RRu	1.32	1.64	1.50			1.32	
	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	27	4	48	21	6	2	108
	NS	24	4	48	20	6	2	104
	Wt	800.11	113.46	2886.27	454.26	344.14	24.08	4622.32
Het	Chi	21.88	1.20	94.57	30.08	13.71	1.10	168.96
Het	df	26	3	47	20	5	1	107
Het	P	N.S.	N.S.	***	(*)	*	N.S.	***
Fixed	RR	1.33	1.36	1.26	1.22	1.20	1.68	1.27
	RRl	1.24	1.13	1.21	1.11	1.08	1.13	1.23
	RRu	1.43	1.64	1.30	1.34	1.33	2.51	1.30
	P	+++	++	+++	+++	+++	+	+++
Random	RR	1.33	1.36	1.23	1.24	1.18	1.69	1.26
	RRl	1.24	1.13	1.15	1.09	0.97	1.11	1.21
	RRu	1.43	1.64	1.31	1.41	1.44	2.57	1.32
	P	+++	++	+++	+++	(+)	+	+++
Between	Chi							6.42
Between	df							5
Between	P							N.S.

Appendix Table C26 - 3

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

		Country in Europe						Total
		UK	Italy	Germany	Scand	othWest	East/Bal	
RR data	N	15	5	3	14	8	3	48
	NS	15	5	3	14	8	3	48
	Wt	1728.20	425.41	117.81	351.75	146.93	116.17	2886.27
Het	Chi	29.85	7.06	7.34	32.63	12.70	0.82	94.57
Het	df	14	4	2	13	7	2	47
Het	P	**	N.S.	*	**	(*)	N.S.	***
Fixed	RR	1.28	1.30	1.12	1.21	1.16	1.21	1.26
	RRl	1.22	1.18	0.94	1.09	0.99	1.01	1.21
	RRu	1.34	1.43	1.34	1.34	1.37	1.45	1.30
	P	+++	+++	N.S.	+++	(+)	+	+++
Random	RR	1.26	1.29	1.09	1.25	1.18	1.21	1.23
	RRl	1.13	1.13	0.67	1.05	0.93	1.01	1.15
	RRu	1.39	1.47	1.78	1.49	1.49	1.45	1.31
	P	+++	+++	N.S.	+	N.S.	+	+++
Between	Chi							4.16
Between	df							5
Between	P							N.S.

		Country in Asia			Total
		FarEast	Cent/SE	MidlEast	
	N	10	1	10	21
	NS	9	1	10	20
	Wt	187.79	9.92	256.56	454.26
Het	Chi	14.37	0.00	10.85	30.08
Het	df	9	0	9	20
Het	P	N.S.	N.S.	N.S.	(*)
Fixed	RR	1.12	0.79	1.32	1.22
	RRl	0.97	0.42	1.17	1.11
	RRu	1.29	1.47	1.49	1.34
	P	N.S.	N.S.	+++	+++
Random	RR	1.16	0.79	1.35	1.24
	RRl	0.95	0.42	1.16	1.09
	RRu	1.41	1.47	1.57	1.41
	P	N.S.	N.S.	+++	+++
Between	Chi				4.86
Between	df				2
Between	P				(*)

		Start year of study					
		<1970	1970-79	1980-89	1990+	unknown	Total
	N	5	11	31	47	14	108
	NS	4	10	30	46	14	104
	Wt	216.04	482.49	950.28	1453.93	1519.58	4622.32
Het	Chi	1.27	19.69	46.92	72.20	23.79	168.96
Het	df	4	10	30	46	13	107
Het	P	N.S.	*	*	**	*	***
Fixed	RR	1.23	1.22	1.34	1.23	1.28	1.27
	RRl	1.08	1.12	1.26	1.17	1.21	1.23
	RRu	1.41	1.33	1.43	1.30	1.34	1.30
	P	++	+++	+++	+++	+++	+++
Random	RR	1.23	1.20	1.39	1.22	1.23	1.26
	RRl	1.08	1.03	1.27	1.13	1.10	1.21
	RRu	1.41	1.40	1.52	1.31	1.38	1.32
	P	++	+	+++	+++	+++	+++
Between	Chi						5.10
Between	df						4
Between	P						N.S.

Appendix Table C26 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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	30	36	108
	NS	15	24	30	35	104
	Wt	380.26	777.14	1258.32	2206.61	4622.32
Het	Chi	31.19	40.83	31.54	61.58	168.96
Het	df	15	25	29	35	107
Het	P	**	*	N.S.	**	***
Fixed	RR	1.17	1.28	1.31	1.26	1.27
	RRL	1.06	1.19	1.24	1.20	1.23
	RRu	1.30	1.37	1.38	1.31	1.30
	P	++	+++	+++	+++	+++
Random	RR	1.21	1.29	1.31	1.22	1.26
	RRL	1.03	1.16	1.24	1.13	1.21
	RRu	1.42	1.43	1.39	1.31	1.32
	P	+	+++	+++	+++	+++
Between	Chi					3.82
Between	df					3
Between	P					N.S.
	Study type					
	CC	Pr	CS	Total		
	N	24	17	67	108	
	NS	24	16	64	104	
	Wt	555.51	1735.82	2330.99	4622.32	
Het	Chi	40.94	24.59	103.23	168.96	
Het	df	23	16	66	107	
Het	P	*	(*)	**	***	
Fixed	RR	1.28	1.27	1.26	1.27	
	RRL	1.18	1.21	1.21	1.23	
	RRu	1.39	1.33	1.31	1.30	
	P	+++	+++	+++	+++	
Random	RR	1.30	1.23	1.26	1.26	
	RRL	1.14	1.13	1.19	1.21	
	RRu	1.48	1.35	1.33	1.32	
	P	+++	+++	+++	+++	
Between	Chi				0.19	
Between	df				2	
Between	P				N.S.	
	Highest age in RR					
	0-9	10-14	15+	unknown	Total	
	N	27	37	42	2	108
	NS	27	36	39	2	104
	Wt	854.72	2409.21	1333.86	24.53	4622.32
Het	Chi	47.86	56.81	60.32	1.29	168.96
Het	df	26	36	41	1	107
Het	P	**	*	*	N.S.	***
Fixed	RR	1.31	1.25	1.27	1.54	1.27
	RRL	1.23	1.20	1.20	1.04	1.23
	RRu	1.40	1.30	1.34	2.29	1.30
	P	+++	+++	+++	+	+++
Random	RR	1.34	1.21	1.26	1.54	1.26
	RRL	1.20	1.13	1.17	0.99	1.21
	RRu	1.48	1.29	1.36	2.42	1.32
	P	+++	+++	+++	(+)	+++
Between	Chi					2.68
Between	df					3
Between	P					N.S.

Appendix Table C26 - 3

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

general Population setting
 school medical allergy other Total

RR data

N	24	49	29	3	3	108
NS	22	49	28	2	3	104
Wt	883.17	1885.91	1646.76	58.45	148.03	4622.32
Het Chi	46.63	71.44	38.25	2.10	3.90	168.96
Het df	23	48	28	2	2	107
Het P	**	*	(*)	N.S.	N.S.	***
Fixed RR	1.21	1.27	1.32	1.19	1.13	1.27
RRl	1.13	1.21	1.25	0.92	0.96	1.23
RRu	1.29	1.32	1.38	1.53	1.33	1.30
P	+++	+++	+++	N.S.	N.S.	+++
Random RR	1.23	1.26	1.33	1.19	1.18	1.26
RRl	1.11	1.18	1.22	0.91	0.90	1.21
RRu	1.37	1.34	1.46	1.55	1.56	1.32
P	+++	+++	+++	N.S.	N.S.	+++
Between Chi						6.64
Between df						4
Between P						N.S.

Respondent for ETS exposure
 child parent med rec mix/oth Total

N	8	71	3	26	108
NS	8	70	3	23	104
Wt	296.60	2304.98	1226.03	794.71	4622.32
Het Chi	15.20	118.51	0.03	27.74	168.96
Het df	7	70	2	25	107
Het P	*	***	N.S.	N.S.	***
Fixed RR	1.10	1.26	1.31	1.29	1.27
RRl	0.98	1.21	1.24	1.20	1.23
RRu	1.23	1.31	1.38	1.38	1.30
P	(+)	+++	+++	+++	+++
Random RR	1.12	1.27	1.31	1.29	1.26
RRl	0.93	1.20	1.24	1.19	1.21
RRu	1.36	1.35	1.38	1.39	1.32
P	N.S.	+++	+++	+++	+++
Between Chi					7.49
Between df					3
Between P					(*)

Child smokers
 exc/none included ignored Total

N	19	12	77	108
NS	15	12	77	104
Wt	441.33	547.84	3633.16	4622.32
Het Chi	24.68	14.80	127.16	168.96
Het df	18	11	76	107
Het P	N.S.	N.S.	***	***
Fixed RR	1.18	1.29	1.27	1.27
RRl	1.08	1.19	1.23	1.23
RRu	1.30	1.40	1.32	1.30
P	+++	+++	+++	+++
Random RR	1.18	1.30	1.27	1.26
RRl	1.05	1.16	1.20	1.21
RRu	1.33	1.46	1.33	1.32
P	++	+++	+++	+++
Between Chi				2.32
Between df				2
Between P				N.S.

Appendix Table C26 - 3

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

Adjusted
Physician diagnosis (lifetime/current)
yes no/mixed Total

RR data

		N	56	52	108		
		NS	54	50	104		
		Wt	2349.79	2272.54	4622.32		
	Het	Chi	97.75	70.37	168.96		
	Het	df	55	51	107		
	Het	P	***	*	***		
Fixed	RR		1.28	1.25	1.27		
	RRL		1.23	1.20	1.23		
	RRu		1.34	1.30	1.30		
	P		+++	+++	+++		
Random	RR		1.27	1.25	1.26		
	RRL		1.18	1.19	1.21		
	RRu		1.37	1.32	1.32		
	P		+++	+++	+++		
Between	Chi				0.83		
Between	df				1		
Between	P				N.S.		
		Respondent for diagnosis (lifetime/current)					
			medrec	parent	child	mixed	Total
		N	23	64	14	7	108
		NS	22	62	14	6	104
		Wt	1518.20	2305.11	454.23	344.79	4622.32
	Het	Chi	33.92	84.13	26.91	7.26	168.96
	Het	df	22	63	13	6	107
	Het	P	(*)	*	*	N.S.	***
Fixed	RR		1.31	1.29	1.06	1.24	1.27
	RRL		1.24	1.24	0.97	1.12	1.23
	RRu		1.38	1.34	1.16	1.38	1.30
	P		+++	+++	N.S.	+++	+++
Random	RR		1.31	1.29	1.06	1.23	1.26
	RRL		1.18	1.23	0.92	1.07	1.21
	RRu		1.46	1.36	1.22	1.41	1.32
	P		+++	+++	N.S.	++	+++
Between	Chi						16.74
Between	df						3
Between	P						***
		Questionnaire for symptoms					
			ISAAC	ATS	other	Total	
		N	19	11	78	108	
		NS	19	10	75	104	
		Wt	1049.71	481.03	3091.58	4622.32	
	Het	Chi	20.52	5.11	140.08	168.96	
	Het	df	18	10	77	107	
	Het	P	N.S.	N.S.	***	***	
Fixed	RR		1.21	1.28	1.29	1.27	
	RRL		1.14	1.17	1.24	1.23	
	RRu		1.28	1.40	1.33	1.30	
	P		+++	+++	+++	+++	
Random	RR		1.21	1.28	1.27	1.26	
	RRL		1.13	1.17	1.20	1.21	
	RRu		1.29	1.40	1.35	1.32	
	P		+++	+++	+++	+++	
Between	Chi					3.26	
Between	df					2	
Between	P					N.S.	

Appendix Table C26 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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	96	12	108		
	NS	93	11	104		
	Wt	3157.04	1465.28	4622.32		
Het	Chi	149.96	19.00	168.96		
Het	df	95	11	107		
Het	P	***	(*)	***		
Fixed	RR	1.27	1.27	1.27		
	RRl	1.22	1.20	1.23		
	RRu	1.31	1.33	1.30		
	P	+++	+++	+++		
Random	RR	1.27	1.21	1.26		
	RRl	1.21	1.07	1.21		
	RRu	1.33	1.36	1.32		
	P	+++	++	+++		
Between	Chi			0.00		
Between	df			1		
Between	P			N.S.		
	Number of cases (lifetime/current asthma)					
		1-50	51-100	101-200	201+	unknown
	N	14	18	27	47	2
	NS	14	17	27	44	2
	Wt	80.54	223.20	552.16	3726.41	40.01
Het	Chi	14.91	24.82	57.05	63.85	0.11
Het	df	13	17	26	46	1
Het	P	N.S.	(*)	***	*	N.S.
Fixed	RR	1.35	1.47	1.18	1.27	1.38
	RRl	1.09	1.29	1.08	1.23	1.01
	RRu	1.68	1.67	1.28	1.31	1.88
	P	++	+++	+++	+++	+
Random	RR	1.36	1.48	1.19	1.25	1.38
	RRl	1.08	1.26	1.05	1.20	1.01
	RRu	1.73	1.74	1.35	1.31	1.88
	P	+	+++	++	+++	+
Between	Chi					8.23
Between	df					4
Between	P					(*)

Study adjusts for or is matched on sex
 Yes No Total

	N	56	52	108		
	NS	55	49	104		
	Wt	1964.81	2657.51	4622.32		
Het	Chi	89.19	79.76	168.96		
Het	df	55	51	107		
Het	P	**	**	***		
Fixed	RR	1.26	1.27	1.27		
	RRl	1.21	1.22	1.23		
	RRu	1.32	1.32	1.30		
	P	+++	+++	+++		
Random	RR	1.26	1.26	1.26		
	RRl	1.18	1.18	1.21		
	RRu	1.34	1.34	1.32		
	P	+++	+++	+++		
Between	Chi			0.01		
Between	df			1		
Between	P			N.S.		

Appendix Table C26 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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	38	70	108
NS	37	67	104
Wt	1277.07	3345.26	4622.32
Het Chi	62.42	105.65	168.96
Het df	37	69	107
Het P	**	**	***
Fixed RR	1.24	1.28	1.27
RRl	1.17	1.23	1.23
RRu	1.31	1.32	1.30
P	+++	+++	+++
Random RR	1.23	1.27	1.26
RRl	1.13	1.21	1.21
RRu	1.34	1.34	1.32
P	+++	+++	+++
Between Chi			0.89
Between df			1
Between P			N.S.

Study adjusts for or is matched on race

N	13	95	108
NS	13	91	104
Wt	590.11	4032.21	4622.32
Het Chi	15.26	152.12	168.96
Het df	12	94	107
Het P	N.S.	***	***
Fixed RR	1.33	1.26	1.27
RRl	1.23	1.22	1.23
RRu	1.44	1.30	1.30
P	+++	+++	+++
Random RR	1.34	1.25	1.26
RRl	1.21	1.19	1.21
RRu	1.48	1.31	1.32
P	+++	+++	+++
Between Chi			1.58
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	27	81	108
NS	27	77	104
Wt	1269.94	3352.38	4622.32
Het Chi	43.04	124.18	168.96
Het df	26	80	107
Het P	*	**	***
Fixed RR	1.23	1.28	1.27
RRl	1.16	1.24	1.23
RRu	1.30	1.33	1.30
P	+++	+++	+++
Random RR	1.21	1.28	1.26
RRl	1.12	1.21	1.21
RRu	1.31	1.35	1.32
P	+++	+++	+++
Between Chi			1.74
Between df			1
Between P			N.S.

Appendix Table C26 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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	34	74	108
NS	33	71	104
Wt	1466.96	3155.37	4622.32
Het Chi	62.23	105.85	168.96
Het df	33	73	107
Het P	**	**	***
Fixed RR	1.24	1.28	1.27
RRl	1.18	1.23	1.23
RRu	1.31	1.32	1.30
P	+++	+++	+++
Random RR	1.26	1.26	1.26
RRl	1.16	1.20	1.21
RRu	1.36	1.33	1.32
P	+++	+++	+++
Between Chi			0.87
Between df			1
Between P			N.S.

Study adjusts for family medical history

N	35	73	108
NS	34	70	104
Wt	1505.96	3116.36	4622.32
Het Chi	46.91	121.68	168.96
Het df	34	72	107
Het P	(*)	***	***
Fixed RR	1.25	1.27	1.27
RRl	1.19	1.23	1.23
RRu	1.31	1.32	1.30
P	+++	+++	+++
Random RR	1.27	1.25	1.26
RRl	1.19	1.18	1.21
RRu	1.35	1.32	1.32
P	+++	+++	+++
Between Chi			0.37
Between df			1
Between P			N.S.

Study adjusts for family composition

N	17	91	108
NS	17	87	104
Wt	878.90	3743.42	4622.32
Het Chi	31.54	136.64	168.96
Het df	16	90	107
Het P	*	**	***
Fixed RR	1.23	1.27	1.27
RRl	1.15	1.23	1.23
RRu	1.32	1.32	1.30
P	+++	+++	+++
Random RR	1.23	1.27	1.26
RRl	1.11	1.21	1.21
RRu	1.36	1.33	1.32
P	+++	+++	+++
Between Chi			0.78
Between df			1
Between P			N.S.

Appendix Table C26 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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	13	95	108
	NS	13	91	104
	Wt	851.61	3770.71	4622.32
Het	Chi	17.51	151.06	168.96
Het	df	12	94	107
Het	P	N.S.	***	***
Fixed	RR	1.29	1.26	1.27
	RRl	1.21	1.22	1.23
	RRu	1.38	1.30	1.30
	P	+++	+++	+++
Random	RR	1.31	1.25	1.26
	RRl	1.19	1.19	1.21
	RRu	1.43	1.31	1.32
	P	+++	+++	+++
Between	Chi			0.38
Between	df			1
Between	P			N.S.

Study adjusts for housing quality, crowding, damp, mould

	N	17	91	108
	NS	17	87	104
	Wt	746.21	3876.11	4622.32
Het	Chi	16.49	151.65	168.96
Het	df	16	90	107
Het	P	N.S.	***	***
Fixed	RR	1.23	1.27	1.27
	RRl	1.14	1.23	1.23
	RRu	1.32	1.31	1.30
	P	+++	+++	+++
Random	RR	1.23	1.27	1.26
	RRl	1.14	1.20	1.21
	RRu	1.32	1.33	1.32
	P	+++	+++	+++
Between	Chi			0.82
Between	df			1
Between	P			N.S.

Study adjusts for pets, animal contact, farming

	N	15	93	108
	NS	14	90	104
	Wt	386.28	4236.05	4622.32
Het	Chi	16.34	152.61	168.96
Het	df	14	92	107
Het	P	N.S.	***	***
Fixed	RR	1.27	1.27	1.27
	RRl	1.15	1.23	1.23
	RRu	1.41	1.30	1.30
	P	+++	+++	+++
Random	RR	1.28	1.26	1.26
	RRl	1.14	1.20	1.21
	RRu	1.43	1.32	1.32
	P	+++	+++	+++
Between	Chi			0.01
Between	df			1
Between	P			N.S.

Appendix Table C26 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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	32	76	108
	NS	30	74	104
	Wt	914.69	3707.63	4622.32
Het	Chi	44.87	124.08	168.96
Het	df	31	75	107
Het	P	(*)	***	***
Fixed	RR	1.27	1.27	1.27
	RRl	1.19	1.23	1.23
	RRu	1.35	1.31	1.30
	P	+++	+++	+++
Random	RR	1.29	1.25	1.26
	RRl	1.19	1.18	1.21
	RRu	1.41	1.31	1.32
	P	+++	+++	+++
Between	Chi			0.01
Between	df			1
Between	P			N.S.

Study adjusts for in utero exposure

	N	7	101	108
	NS	7	97	104
	Wt	305.45	4316.87	4622.32
Het	Chi	12.04	156.33	168.96
Het	df	6	100	107
Het	P	(*)	***	***
Fixed	RR	1.21	1.27	1.27
	RRl	1.09	1.23	1.23
	RRu	1.36	1.31	1.30
	P	+++	+++	+++
Random	RR	1.20	1.26	1.26
	RRl	0.98	1.21	1.21
	RRu	1.46	1.32	1.32
	P	(+)	+++	+++
Between	Chi			0.59
Between	df			1
Between	P			N.S.

Study adjusts for in life exposure

	N	27	81	108
	NS	27	77	104
	Wt	1296.92	3325.41	4622.32
Het	Chi	33.86	132.76	168.96
Het	df	26	80	107
Het	P	N.S.	***	***
Fixed	RR	1.31	1.25	1.27
	RRl	1.24	1.21	1.23
	RRu	1.39	1.29	1.30
	P	+++	+++	+++
Random	RR	1.32	1.23	1.26
	RRl	1.23	1.17	1.21
	RRu	1.41	1.30	1.32
	P	+++	+++	+++
Between	Chi			2.34
Between	df			1
Between	P			N.S.

Appendix Table C26 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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	71	37	108
NS	67	37	104
Wt	3629.53	992.79	4622.32
Het Chi	108.57	59.92	168.96
Het df	70	36	107
Het P	**	**	***
Fixed RR	1.27	1.24	1.27
RRl	1.23	1.17	1.23
RRu	1.32	1.32	1.30
P	+++	+++	+++
Random RR	1.27	1.24	1.26
RRl	1.20	1.13	1.21
RRu	1.33	1.36	1.32
P	+++	+++	+++
Between Chi			0.47
Between df			1
Between P			N.S.

Exposed group : who is smoker

AnyPar Mother Father Total

N	41	60	7	108
NS	40	58	6	104
Wt	1217.68	3265.55	139.09	4622.32
Het Chi	41.06	112.56	5.43	168.96
Het df	40	59	6	107
Het P	N.S.	***	N.S.	***
Fixed RR	1.22	1.30	1.02	1.27
RRl	1.15	1.25	0.86	1.23
RRu	1.29	1.34	1.21	1.30
P	+++	+++	N.S.	+++
Random RR	1.22	1.31	1.02	1.26
RRl	1.15	1.23	0.86	1.21
RRu	1.29	1.39	1.21	1.32
P	+++	+++	N.S.	+++
Between Chi				9.92
Between df				2
Between P				**

Exposed group : when Exposed

lif/ev age<7y current unspec other Total

N	31	9	29	37	2	108
NS	30	8	28	36	2	104
Wt	1802.01	458.46	1217.11	1088.70	56.04	4622.32
Het Chi	51.50	27.42	38.15	48.26	2.78	168.96
Het df	30	8	28	36	1	107
Het P	**	***	(*)	(*)	(*)	***
Fixed RR	1.26	1.30	1.25	1.29	1.27	1.27
RRl	1.20	1.19	1.18	1.21	0.98	1.23
RRu	1.32	1.43	1.32	1.36	1.65	1.30
P	+++	+++	+++	+++	(+)	+++
Random RR	1.21	1.41	1.24	1.29	1.25	1.26
RRl	1.10	1.15	1.16	1.20	0.81	1.21
RRu	1.33	1.74	1.33	1.39	1.94	1.32
P	+++	++	+++	+++	N.S.	+++
Between Chi						0.85
Between df						4
Between P						N.S.

Appendix Table C26 - 3

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

Unexposed group : who is smoker
 NoHhMemb NoParent NotSpPar Total

RR data

	N	6	42	60	108
	NS	6	40	58	104
	Wt	81.94	1261.42	3278.96	4622.32
Het	Chi	4.38	41.36	113.04	168.96
Het	df	5	41	59	107
Het	P	N.S.	N.S.	***	***
Fixed	RR	0.96	1.22	1.30	1.27
	RRl	0.77	1.15	1.25	1.23
	RRu	1.19	1.29	1.34	1.30
	P	N.S.	+++	+++	+++
Random	RR	0.96	1.22	1.31	1.26
	RRl	0.77	1.15	1.23	1.21
	RRu	1.19	1.29	1.39	1.32
	P	N.S.	+++	+++	+++
Between	Chi				10.18
Between	df				2
Between	P				**

Unexposed group : time
 non never non+othr Total

	N	90	18	108
	NS	87	17	104
	Wt	2858.48	1763.84	4622.32
Het	Chi	140.16	28.63	168.96
Het	df	89	17	107
Het	P	***	*	***
Fixed	RR	1.26	1.28	1.27
	RRl	1.22	1.22	1.23
	RRu	1.31	1.34	1.30
	P	+++	+++	+++
Random	RR	1.27	1.23	1.26
	RRl	1.20	1.13	1.21
	RRu	1.33	1.35	1.32
	P	+++	+++	+++
Between	Chi			0.17
Between	df			1
Between	P			N.S.

Number of adjustment variables

		0	1	2	3-5	6-9	10+	Total
	N	53	13	3	15	18	6	108
	NS	52	10	3	15	18	6	104
	Wt	2654.22	224.45	236.41	428.89	683.39	394.96	4622.32
Het	Chi	72.72	23.02	3.03	29.62	35.17	3.59	168.96
Het	df	52	12	2	14	17	5	107
Het	P	*	*	N.S.	**	**	N.S.	***
Fixed	RR	1.26	1.28	1.37	1.28	1.26	1.25	1.27
	RRl	1.21	1.12	1.21	1.16	1.17	1.13	1.23
	RRu	1.31	1.46	1.56	1.40	1.36	1.38	1.30
	P	+++	+++	+++	+++	+++	+++	+++
Random	RR	1.23	1.30	1.36	1.31	1.26	1.25	1.26
	RRl	1.16	1.08	1.15	1.13	1.12	1.13	1.21
	RRu	1.31	1.57	1.61	1.51	1.43	1.38	1.32
	P	+++	++	+++	+++	+++	+++	+++
Between	Chi							1.80
Between	df							5
Between	P							N.S.

Appendix Table C26 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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	38	70	108
	NS	38	66	104
	Wt	1511.26	3111.06	4622.32
Het	Chi	66.74	102.03	168.96
Het	df	37	69	107
Het	P	**	**	***
Fixed	RR	1.28	1.26	1.27
	RRl	1.22	1.22	1.23
	RRu	1.34	1.31	1.30
	P	+++	+++	+++
Random	RR	1.28	1.24	1.26
	RRl	1.19	1.18	1.21
	RRu	1.38	1.31	1.32
	P	+++	+++	+++
Between	Chi			0.18
Between	df			1
Between	P			N.S.

RR adjusted for age

	N	27	81	108
	NS	26	78	104
	Wt	941.09	3681.23	4622.32
Het	Chi	43.91	123.60	168.96
Het	df	26	80	107
Het	P	*	**	***
Fixed	RR	1.22	1.28	1.27
	RRl	1.15	1.24	1.23
	RRu	1.30	1.32	1.30
	P	+++	+++	+++
Random	RR	1.22	1.27	1.26
	RRl	1.11	1.21	1.21
	RRu	1.33	1.34	1.32
	P	+++	+++	+++
Between	Chi			1.45
Between	df			1
Between	P			N.S.

RR adjusted for other ETS

	N	12	96	108
	NS	12	92	104
	Wt	611.15	4011.17	4622.32
Het	Chi	14.90	153.42	168.96
Het	df	11	95	107
Het	P	N.S.	***	***
Fixed	RR	1.31	1.26	1.27
	RRl	1.21	1.22	1.23
	RRu	1.41	1.30	1.30
	P	+++	+++	+++
Random	RR	1.31	1.25	1.26
	RRl	1.18	1.19	1.21
	RRu	1.45	1.31	1.32
	P	+++	+++	+++
Between	Chi			0.64
Between	df			1
Between	P			N.S.

Appendix Table C26 - 3

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

Adjusted
RR adjusted for factor other than sex, age, other ETS
Yes No Total

RR data

	N	50	58	108		
	NS	48	56	104		
	Wt	1868.97	2753.35	4622.32		
Het	Chi	91.60	76.58	168.96		
Het	df	49	57	107		
Het	P	***	*	***		
Fixed	RR	1.29	1.25	1.27		
	RRl	1.23	1.21	1.23		
	RRu	1.35	1.30	1.30		
	P	+++	+++	+++		
Random	RR	1.30	1.22	1.26		
	RRl	1.21	1.16	1.21		
	RRu	1.39	1.29	1.32		
	P	+++	+++	+++		
Between	Chi			0.78		
Between	df			1		
Between	P			N.S.		
	Original	Derivation of RR/CI		Other	Total	
		Numbers	SumNumbs			
	N	41	26	18	23	108
	NS	41	24	17	22	104
	Wt	1679.32	692.05	404.59	1846.36	4622.32
Het	Chi	56.72	30.20	22.93	55.17	168.96
Het	df	40	25	17	22	107
Het	P	*	N.S.	N.S.	***	***
Fixed	RR	1.26	1.33	1.18	1.27	1.27
	RRl	1.20	1.24	1.07	1.21	1.23
	RRu	1.32	1.44	1.30	1.33	1.30
	P	+++	+++	+++	+++	+++
Random	RR	1.27	1.35	1.18	1.19	1.26
	RRl	1.20	1.23	1.04	1.07	1.21
	RRu	1.35	1.49	1.33	1.32	1.32
	P	+++	+++	++	+++	+++
Between	Chi					3.94
Between	df					3
Between	P					N.S.

Appendix Table C26 - 4

Children - Meta-analysis of Parental Exposure during Lifetime, 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	STTYP	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
AGUDOT	2		b	l	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never
ALBA	2		b	l	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAW0	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
BENCIV	1	x	b	l	8	14	all	Eu:Ita	2001	2004	CS	0	Mother	NotMothr	unspec	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
JANG	1		b	c	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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
MAVALE	7		b	c	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	unspec	non
MCCON1	1	x	b	l	9	18	all	NAmer	1993	2002	Pr	0	Mother	NotMothr	9-16y	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
MONTEI	1		b	l	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	current	non
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

Appendix Table C26 - 4

Children - Meta-analysis of Parental Exposure during Lifetime, 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	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
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
QIAN	1		b	l	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never
RASANE	1	x	b	l	16	16	all	Eu:Sca	1991	2000	CS	0	Mother	NotMothr	ever	never
RATAGE	2		b	l	5	15	all	As:cen	1996	2000	CC	0	Father	NotFathr	unspec	non
RENNIE	1		b	l	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
RONMA1	1		b	c	7	8	all	Eu:Sca	1996	1998	CS	5	Mother	NotMothr	unspec	non
RONMA3	1	x	b	l	7	10	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	non
ROSASV	1		b	l	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
SHAMS2	2		b	l	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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
SHIVA	1		b	c	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	non
SHOHAT	2	x	b	c	13	14	all	As:ME	1997	2002	CS	0	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	2	x	b	l	7	13	all	Eu:Sca	1989	1995	CS	0	Mother	NotMothr	in life	non
SPENGL	2		b	c	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	in life	non
STANHO	2		b	l	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	l	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	l	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VENNER	3		f	l	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VERHOE	3		b	l	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never
WARKE	1		b	l	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non
WICKMA	1	x	b	l	0	2	all	Eu:Sca	1994	2003	Pr	0	Mother	NotMothr	utero/2m	non
WILLE1	7		b	c	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non
WITHER	2	x	b	l	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 C26 - 5

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
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)
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
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)
BENCIV	1	b	0	290	1162	413	2535	1.53 (	1.30-	1.81)
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)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
*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)

Appendix Table C26 - 5

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
MONTEI 1		b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)
NILSSO 1		b	0	-	-	-	-	1.00 (	0.70-	1.40)
OCONEE 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)
QIAN 1		b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
RONMA1 1		b	5	-	-	-	-	1.60 (	1.12-	2.28)
*RONMA3 1		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)
SHAMS2 2		b	0	-	-	-	-	0.99 (	0.81-	1.18)
SHAMSS 2		b	0	-	-	-	-	1.39 (	1.12-	1.74)
*SHERMA 2		b	2	-	-	-	-	1.18 (	0.76-	1.83)
SHIVA 1		b	0	9	233	9	344	1.48 (	0.58-	3.77)
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)
SPENGL 2		b	5	-	-	-	-	1.22 (	0.75-	2.03)
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)
WARKE 1		b	0	55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA 1		b	0	64	480	251	3212	1.71 (	1.32-	2.21)
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				10228	70675	13520	105052			
*prospective study								~ With 0.5 adjustment for zero		

Appendix Table C26 - 5

Children - Meta-analysis of Parental Exposure during Lifetime, 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
AGABI1	7	b	0	0.28	110.77	0.12	0.0027
AGABI2	7	b	0	0.23	146.28	0.05	0.0047
AGUDOT	2	b	4	0.51	2.72	0.18	0.3979
ALBA	2	b	0	0.09	10.78	0.27	0.7608
ALDAW0	2	m	0	0.76	8.40	2.18	0.0274
ALFRA1	2	b	0	0.41	22.65	0.58	0.0498
ANDRAE	1	b	0	-0.12	57.05	7.88	0.3670
ANNESI	1	b	0	0.25	89.09	0.00	0.0166
ARSHAD	1	b	7	1.20	1.82	1.65	0.1044
BENCIV	1	b	0	0.43	140.36	4.27	0.0000
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	1.59	1.0000
Subtotal	BURCHF			-0.29	57.49	1.63	
BUTZ	4	b	0	0.21	12.89	0.02	0.4416
CHEN2	8	b	0	0.30	20.64	0.05	0.1702
DAIGLE	1	b	0	0.36	19.66	0.23	0.1106
DELL	2	b	0	0.42	18.30	0.51	0.0733
DODGE	9	b	0	0.48	7.26	0.36	0.2000
DOLD	7	b	0	0.19	92.36	0.40	0.0734
ECE	7	b	0	0.12	63.38	1.10	0.3376
EHRLI2	4	b	0	0.69	10.00	1.94	0.0284
FAGBUL	1	b	0	0.75	16.88	4.22	0.0020
FARBE2	1	b	0	0.39	49.72	0.92	0.0062
FAROOQ	1	b	0	0.25	72.93	0.00	0.0297
*FERGUS	7	b	0	0.04	37.52	1.70	0.8106
FORAST	7	b	0	0.31	36.81	0.14	0.0570
GILLIL	36	b	8	-0.11	12.73	1.63	0.7070
GOLD	11	b	0	0.26	211.41	0.00	0.0002
GOREN1	4	b	0	0.36	23.61	0.25	0.0838
GOREN2	2	b	0	0.18	124.95	0.60	0.0411
GORTM1	1	b	0	0.46	43.97	1.95	0.0021
GORTM2	1	b	0	0.63	6.99	0.98	0.0978
HABY	2	b	0	0.29	37.52	0.06	0.0720
HAJNAL	3	b	13	0.15	49.92	0.54	0.2943
HJERN1	5	b	0	-0.17	28.32	5.09	0.3611
HJERN2	5	b	0	0.16	18.42	0.16	0.4983
HOST	1	b	0	-0.12	7.87	1.06	0.7459
HU1	2	b	0	0.20	19.79	0.06	0.3785
HU2	21	b	0	0.84	29.22	10.20	0.0000
INFANT	3	b	0	0.15	53.83	0.58	0.2761
JANG	1	b	0	0.46	26.78	1.17	0.0170
JENKIN	1	m	0	0.23	153.77	0.06	0.0040
JENKIN	3	f	0	0.37	112.42	1.61	0.0001
Subtotal	JENKIN			0.10	266.19	1.67	
JONES	2	b	0	0.16	9.47	0.08	0.6266
KAY	7	b	0	0.35	42.07	0.41	0.0231
KERSHA	1	b	0	0.89	19.33	7.77	0.0001
KIVITY	4	b	0	0.59	13.44	1.52	0.0311
KUEHR	2	b	0	-0.34	20.93	7.43	0.1158
KUHR	4	b	0	0.70	5.57	1.11	0.0997
LAM1	18	b	4	0.28	10.02	0.01	0.3796
LAM2	9	b	4	-0.14	42.22	6.47	0.3655
LAU	1	b	0	0.30	5.74	0.01	0.4716
*LEEDER	1	b	0	0.30	9.19	0.02	0.3569
LEEN	1	b	0	-0.28	12.81	3.63	0.3157
LEROUX	1	b	0	0.26	21.30	0.00	0.2285
LILLJE	1	b	0	0.09	42.18	1.18	0.5801
LINDFO	1	b	0	0.50	29.55	1.83	0.0065
LIS	1	b	0	0.31	37.30	0.11	0.0604
LISTER	1	b	0	0.39	82.96	1.47	0.0004
*MARTIN	1	m	0	0.49	14.81	0.84	0.0593
*MARTIN	2	f	0	0.58	6.43	0.69	0.1422
Subtotal	MARTIN			0.56	21.23	1.53	
MAVALE	7	b	0	0.78	9.68	2.70	0.0153
*MCCON1	1	b	0	0.04	21.09	0.94	0.8526
MCCON2	1	b	0	0.79	3.43	1.00	0.1420
*MCKEEV	4	b	0	0.27	1119.12	0.39	0.0000
MONTEI	1	b	0	0.22	56.12	0.05	0.0946

Appendix Table C26 - 5

Children - Meta-analysis of Parental Exposure during Lifetime, 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
MOUSSA	1	b	0	1.10	0.37	0.27	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.75	0.0258
MURRAY	1	m	0	0.36	15.96	0.18	0.1513
MURRAY	3	f	0	0.27	9.66	0.00	0.3967
Subtotal	MURRAY			0.13	25.62	0.19	
NILSSO	1	b	0	0.00	31.98	2.03	1.0000
OCONNE	1	b	0	0.25	33.98	0.00	0.1384
OHARA	5	b	0	-0.11	32.01	4.09	0.5504
PALMIE	3	b	0	-0.00	30.71	1.97	0.9963
PIC	1	b	0	0.09	26.03	0.67	0.6397
*PONSON	3	b	0	0.10	101.94	2.43	0.3244
QIAN	1	b	7	0.75	3.96	0.97	0.1372
RASANE	1	b	0	0.40	41.70	0.91	0.0099
RATAGE	2	b	0	-0.24	9.92	2.36	0.4582
RENNIE	1	b	6	0.02	13.41	0.72	0.9422
RIBEIR	1	b	0	0.18	7.76	0.04	0.6116
RONMA1	1	b	5	0.47	30.41	1.44	0.0095
*RONMA3	1	b	0	0.11	20.00	0.39	0.6123
ROSASV	1	b	0	0.45	3.25	0.13	0.4168
SCHMIT	1	b	4	0.73	13.33	3.01	0.0079
SHAMS2	2	b	0	-0.01	108.55	7.46	0.9166
SHAMSS	2	b	0	0.33	79.17	0.47	0.0034
*SHERMA	2	b	2	0.17	19.90	0.15	0.4603
SHIVA	1	b	0	0.39	4.36	0.08	0.4160
SHOHAT	2	b	0	0.44	123.73	4.33	0.0000
*SIGURS	1	b	0	0.18	3.26	0.02	0.7422
SOTOQU	1	b	0	0.42	46.33	1.35	0.0040
SOYSET	2	b	0	0.69	10.19	1.93	0.0282
SPENGL	2	b	5	0.20	15.50	0.04	0.4337
STANHO	2	b	0	-0.92	4.90	6.70	0.0423
STERN1	1	b	0	0.11	11.71	0.24	0.7107
STODDA	5	b	0	0.32	133.49	0.55	0.0003
STRACH	3	b	0	0.32	41.13	0.19	0.0403
TARIQ	10	b	0	0.08	29.85	0.88	0.6591
*TAYLOR	4	b	0	-0.04	72.55	6.23	0.7281
TOMINA	2	b	0	-1.06	1.84	3.15	0.1515
VENNER	6	m	0	0.09	27.66	0.68	0.6182
VENNER	3	f	0	0.18	28.98	0.16	0.3399
Subtotal	VENNER			-0.23	56.63	0.85	
VERHOE	3	b	0	-0.25	17.31	4.37	0.2972
WARKE	1	b	0	-0.12	12.07	1.64	0.6860
*WICKMA	1	b	0	0.53	58.09	4.63	0.0000
WILLE1	7	b	0	0.68	6.06	1.09	0.0955
WITHER	2	b	0	0.23	61.43	0.03	0.0724
ZHENG	26	b	0	0.71	6.34	1.33	0.0739

RR data

	N	109
	NS	104
	Wt	5072.60
Het	Chi	171.14
Het	df	108
Het	P	***
Fixed	RR	1.29
	RRl	1.25
	RRu	1.32
	P	+++
Random	RR	1.28
	RRl	1.23
	RRu	1.33
	P	+++
Asymm	P	N.S.

Appendix Table C26 - 6

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

RR data

	N	109						
	NS	104						
	Wt	5072.60						
Het	Chi	171.14						
Het	df	108						
Het	P	***						
Fixed	RR	1.29						
	RRl	1.25						
	RRu	1.32						
	P	+++						
Random	RR	1.28						
	RRl	1.23						
	RRu	1.33						
	P	+++						
Asymm	P	N.S.						
			Sex					
		both	male	female				Total
	N	98	6	5				109
	NS	98	6	5				109
	Wt	4637.03	253.11	182.46				5072.60
Het	Chi	163.08	3.99	3.76				171.14
Het	df	97	5	4				108
Het	P	***	N.S.	N.S.				***
Fixed	RR	1.28	1.29	1.34				1.29
	RRl	1.25	1.14	1.16				1.25
	RRu	1.32	1.46	1.55				1.32
	P	+++	+++	+++				+++
Random	RR	1.28	1.29	1.34				1.28
	RRl	1.22	1.14	1.16				1.23
	RRu	1.33	1.46	1.55				1.33
	P	+++	+++	+++				+++
Between	Chi							0.31
Between	df							2
Between	P							N.S.
			Continent					
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	27	4	48	21	7	2	109
	NS	24	4	48	20	6	2	104
	Wt	857.78	113.46	3007.03	536.74	531.04	26.56	5072.60
Het	Chi	24.81	1.20	85.50	35.96	13.96	0.00	171.14
Het	df	26	3	47	20	6	1	108
Het	P	N.S.	N.S.	***	*	*	N.S.	***
Fixed	RR	1.34	1.36	1.27	1.28	1.27	2.14	1.29
	RRl	1.26	1.13	1.22	1.18	1.17	1.47	1.25
	RRu	1.44	1.64	1.31	1.39	1.38	3.14	1.32
	P	+++	++	+++	+++	+++	+++	+++
Random	RR	1.34	1.36	1.24	1.27	1.24	2.14	1.28
	RRl	1.26	1.13	1.17	1.11	1.08	1.47	1.23
	RRu	1.44	1.64	1.32	1.46	1.43	3.14	1.33
	P	+++	++	+++	+++	++	+++	+++
Between	Chi							9.69
Between	df							5
Between	P							(*)

Appendix Table C26 - 6

Children - Meta-analysis of Parental Exposure during Lifetime, 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	31	47	14	109
	NS	4	10	30	46	14	104
	Wt	366.85	493.52	1042.98	1644.02	1525.24	5072.60
Het	Chi	3.30	20.83	53.20	63.41	27.99	171.14
Het	df	5	10	30	46	13	108
Het	P	N.S.	*	**	*	**	***
Fixed	RR	1.30	1.23	1.33	1.28	1.28	1.29
	RRl	1.17	1.13	1.25	1.22	1.22	1.25
	RRu	1.44	1.35	1.42	1.34	1.35	1.32
	P	+++	+++	+++	+++	+++	+++
Random	RR	1.30	1.21	1.39	1.25	1.26	1.28
	RRl	1.17	1.03	1.27	1.18	1.11	1.23
	RRu	1.44	1.42	1.53	1.33	1.42	1.33
	P	+++	+	+++	+++	+++	+++
Between	Chi						2.41
Between	df						4
Between	P						N.S.
	Study type						
	CC	Pr	CS	Total			
	N	24	17	68	109		
	NS	24	16	64	104		
	Wt	623.52	1763.45	2685.63	5072.60		
Het	Chi	42.45	31.50	97.03	171.14		
Het	df	23	16	67	108		
Het	P	**	*	**	***		
Fixed	RR	1.30	1.29	1.28	1.29		
	RRl	1.20	1.23	1.23	1.25		
	RRu	1.41	1.35	1.33	1.32		
	P	+++	+++	+++	+++		
Random	RR	1.31	1.28	1.27	1.28		
	RRl	1.16	1.16	1.21	1.23		
	RRu	1.49	1.42	1.34	1.33		
	P	+++	+++	+++	+++		
Between	Chi				0.16		
Between	df				2		
Between	P				N.S.		

Appendix Table C26 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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	ANNES2	ARIF	BARRET	BECKET	BRABIN	CALL	CHEN1	CHHABR	CLARK	DEKKER	DIJKST	DOTTER	DUHME1	DUHME2
	DUHME3	DUHME4	FIELDE	FLYNN1	FLYNN2	FORSB1	FORSB2	FORSB3	FREEM1	FREEM2	FUJI	GUPTA	GURKAN	JAAKKO	KABESC	KALY01
	KALY02	KARUNA	KASPER	KEARNE	KENDIR	KNIGHT	LEE1	LEE2	LEVES1	LEVES2	LEVES3	MAIER	MELIA	MELSOM	MILLER	MONTEF
	MOYES1	MOYES2	NICOLA	NITTA	ODDY	PETERS	PIROGO	POKHAR	RONCH1	RONCH2	RONCH3	RUDNIK	SARRAZ	SELCUK	SENNHA	SPIEKE
	SQUILL	STURM	TIMONE	TSIMOY	VARELA	VAVILI	WANG	WIJGA	WILLE2	WOLFO1	WOLFO2	WOLFO3	YANG			
2	BERGMA	CELEDO	CSONKA	CUNNI2	EHRLI1	JAAKK2	KAPLAN	KELLY	LEE3	LOPEZC	NHANE3	NYSTAD	OLIVET	WEITZ1	WEITZ2	XU
	YUAN															
3	CHINN	SOMERV														
4	AZIZI	BALL	BURR	CUNNI1	DEBENE	DEKOK	GOREN3	GOREN4	GOREN5	GOREN6	HALONE	HUGHES	MOHAME	SANZOR	SCHENK	STAZI
	STERN2	ULRIK	VOLKME	VONMAF	ZEIGER	ZEJDA	ZHANG									
13	ALFRA2	FARBE1	FARBE3	RONMA2												

Appendix Table C26 - 8

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

REF REFPG PRINC			OVERLAP														
GILLIL	GILLIL	1	MCCON1/GILLIL														
MCCON1	MCCON1	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														
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3														
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3														
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	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	NAmr	1980	2000	Pr	0	AnyPar	NoParent	unspec	non	*	n
BURR	1	b	l	0	7	all	Eu:UK	1982	1993	Pr	0	AnyPar	NoParent	utero/life	non	*	n
CUNNI1	11	b	c	8	11	all	NAmr	1988	1996	CS	9	Mother	NotMothr	current	non	0.84	?
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
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
HALONE	1	b	c	6	6	all	NAmr	1980	1999	Pr	0	Mother	NotMothr	in life	non	*	n
HUGHES	1	b	c	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	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
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	l	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	*	n
RONMA3	4	b	l	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	non	*	n
SANZOR	1	b	l	7	14	all	Eu:wst	*	1990	CS	0	AnyPar	NoParent	unspec	non	*	n
SCHENK	1	b	l	5	14	all	NAmr	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	NAmr	*	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	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
VONMAF	3	b	l	0	17	all	NAmr	1993	2001	CS	7	Mother	NotMothr	ever	never	*	y
ZEIGER	4	b	l	0	7	all	NAmr	1981	1995	Pr	4	Mother	NotMothr	unspec	non	*	n
ZEJDA	1	b	l	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	*	n
ZHANG	1	b	l	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	1.04	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	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 C27 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 : current, lifetime
- 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 C25 - 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 C27 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	CompC25	SEX	AST	AGEI	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	-
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	-
AGUDOT	4		x	b	c	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	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	-
ANNES2	3		x	b	c	13	14	all	Eu:wst	1993	2004	CS	2	TotETS	None	current	non	-
ANNESI	1			b	l	1	18	all	Eu:UK	1991	2001	CS	0	AnyPar	NoParent	unspec	non	-
ARIF	2			b	l	0	16	all	Namer	2001	2004	CS	10	AnyHh	NoHhMemb	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	-
BENCIV	3			b	l	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	unspec	non	-
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
CSOKNA	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	-
DUHME1	3			b	c	5	8	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME2	1			b	c	12	15	all	Eu:Ger	1994	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME3	3			b	c	5	8	all	Eu:Ger	1995	1998	CS	2	AnyHh	NoHhMemb	unspec	non	-
DUHME4	1			b	c	12	15	all	Eu:Ger	1995	1998	CS	2	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	-
FAROQO	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	-
FREEM1	2			b	l	7	11	all	Namer	1998	2003	CS	2	AnyHh	NoHhMemb	current	non	-
FUJI	1			b	c	8	11	all	As:FE	1994	2002	CS	0	AnyHh	NoHhMemb	unspec	non	-
GILLIL	28		x	b	c	7	19	all	Namer	1993	2001	CS	9	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	-

Appendix Table C27 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma (or Lifetime if Current not available)
 Adjusted

REF	NRR	CompC25	SEX	AST	AGEI	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA	
JANG	1			b	c	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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	-
KUHR	4			b	l	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	-
LEE3	5			b	l	6	15	all	As:FE	2001	2003	CS	0	AnyHh	NoHhMemb	unspec	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	-
MAIER	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	-
MAVALE	7			b	c	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	unspec	non	-
MCCON1	3			m	l	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	non	-
MCCON1	4			f	l	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	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	-
MILLER	4			b	c	2	2	all	NAmer	*	2004	Pr	5	AnyHh	NoHhMemb	current	othr	-
MOHAME	1			b	c	9	11	all	Africa	1990	1995	CC	0	AnyHh	NoHhMemb	unspec	non	-
MONTEI	1			b	l	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	current	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
NICOLA	2	x		b	c	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	non	-
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	-
PIROGO	3			b	l	0	15	all	Eu:est	*	2004	CS	0	AnyHh	NoHhMemb	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	-
QIAN	1			b	l	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never	-
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	-
RIBEIR	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	-
RONMA1	1			b	c	7	8	all	Eu:Sca	1996	1998	CS	5	Mother	NotMothr	unspec	non	-
RONMA3	2			b	l	7	10	all	Eu:Sca	1996	2002	Pr	9	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	-

Appendix Table C27 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	CompC25	SEX	AST	AGEI	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
SHAMS2	2		b	l	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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	-
SHIVA	1		b	c	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	non	-
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	-
SPENGL	2		b	c	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	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	-
STURM	10		b	c	12	14	all	Namer	1999	2004	CS	7	TotETS	None	unspec	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	-
VENNER	3		f	l	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never	-
VERHOE	3		b	l	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never	-
VONMAF	1		b	l	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	-
WARKE	1		b	l	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non	-
WICKMA	2		b	l	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non	-
WIJGA	2	x	b	c	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WILLE1	7		b	c	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non	-
WITHER	1		b	l	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLF01	1	x	b	c	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	1	x	b	c	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	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	l	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 C27 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma (or Lifetime if Current not available)
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)
ALBA	1	b	0	68	70	34	32	0.91 (	0.51-	1.64)
ALDAW0	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)
ANNES2	3	b	2	412	-	323	-	1.00 (	0.90-	1.20)
ANNESI	1	b	0	164	1243	255	2491	1.29 (	1.05-	1.59)
ARIF	2	b	10	46	-	161	-	0.98 (	0.65-	1.47)
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)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
CSOKA	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)
DUHME1	3	b	2	-	-	-	-	1.15 (	0.90-	1.47)
DUHME2	1	b	2	-	-	-	-	1.10 (	0.90-	1.34)
DUHME3	1	b	2	-	-	-	-	0.96 (	0.70-	1.32)
DUHME4	1	b	2	-	-	-	-	1.47 (	1.18-	1.83)
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)
FREEM1	2	b	2	-	-	-	-	2.10 (	1.72-	2.56)
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)
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)

Appendix Table C27 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
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)
LEE3	5	b	0	1114	16604	1094	13428	0.82 (	0.76-	0.90)
*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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
*MCCON1	3	m	3	-	-	-	-	1.53 (	1.03-	2.26)
*MCCON1	4	f	3	-	-	-	-	0.84 (	0.59-	1.19)
Subtotal	MCCON1							1.10 (	0.84-	1.42)
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)
MILLER	4	b	5	-	-	-	-	2.36 (	0.91-	6.10)
MOHAME	1	b	0	-	-	-	-	1.60 (	0.80-	3.20)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)
NICOLA	2	b	0	62	1131	95	1836	1.06 (	0.76-	1.47)
NILSSO	1	b	0	-	-	-	-	1.00 (	0.70-	1.40)
NITTA	1	b	5	-	-	-	-	0.91 (	0.54-	1.53)
OCONE	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)
PIROGO	3	b	0	13	82	4	37	1.47 (	0.45-	4.80)
POKHAR	2	b	5	27	-	13	-	3.33 (	1.85-	7.65)
*PONSON	8	b	6	185	-	88	-	1.03 (	0.83-	1.26)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)

Appendix Table C27 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma (or Lifetime if Current not available)
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
RONMA1	1	b	5	-	-	-	-	1.60	(	1.12- 2.28)
*RONMA3	2	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	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)
SHAMS2	2	b	0	-	-	-	-	0.99	(	0.81- 1.18)
SHAMSS	2	b	0	-	-	-	-	1.39	(	1.12- 1.74)
*SHERMA	2	b	2	-	-	-	-	1.18	(	0.76- 1.83)
SHIVA	1	b	0	9	233	9	344	1.48	(	0.58- 3.77)
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)
SPENGL	2	b	5	-	-	-	-	1.22	(	0.75- 2.03)
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)
STODDA	10	b	9	224	-	443	-	1.36	(	1.14- 1.62)
STRACH	9	b	4	122	-	364	-	1.23	(	0.85- 1.79)
STURM	10	b	7	-	-	-	-	1.59	(	1.49- 1.70)
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)
WARKE	1	b	0	55	27	119	52	0.89	(	0.51- 1.56)
*WICKMA	2	b	8	64	-	251	-	1.65	(	1.21- 2.25)
WIJGA	2	b	17	-	-	-	-	0.80	(	0.53- 1.20)
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)
WOLF01	1	b	7	-	-	-	-	1.17	(	0.57- 2.43)
WOLF02	1	b	7	-	-	-	-	1.01	(	0.42- 2.41)
WOLF03	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				28372	56289	26203	67854			
*prospective study									~ With 0.5 adjustment for zero	

Appendix Table C27 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma (or Lifetime if Current not available)
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO	1	b	0	1.32	2.85	3.74	0.0262
AGABI1	14	b	11	0.29	107.50	1.58	0.0024
AGABI2	14	b	12	0.16	133.43	0.03	0.0697
AGUDOT	4	b	4	1.18	3.39	3.48	0.0291
ALBA	1	b	0	-0.09	11.15	0.76	0.7647
ALDAWO	2	m	0	0.76	8.40	2.92	0.0274
ALFRA1	2	b	0	0.41	22.65	1.31	0.0498
ANDRAE	2	b	3	-0.01	54.89	1.81	0.9406
ANNES2	3	b	2	0.00	185.67	5.47	1.0000
ANNESI	1	b	0	0.25	89.09	0.60	0.0166
ARIF	2	b	10	-0.02	23.07	0.85	0.9227
ARSHAD	1	b	7	1.20	1.82	1.94	0.1044
BARRET	1	b	0	0.52	5.17	0.63	0.2373
BECKET	6	b	7	0.27	67.46	0.65	0.0266
BENCIV	3	b	2	0.43	116.67	7.90	0.0000
BENER	1	b	0	0.24	19.32	0.10	0.2839
BERGMA	1	b	8	0.28	23.66	0.27	0.1769
BRABIN	2	b	1	0.06	58.33	0.75	0.6563
BURCHF	5	m	1	0.22	32.51	0.06	0.2200
BURCHF	8	f	1	0.00	24.97	0.74	1.0000
Subtotal	BURCHF			-0.13	57.49	0.80	
BUTZ	7	b	1	0.17	9.31	0.00	0.6135
CALL	1	b	0	-0.06	4.55	0.24	0.9029
CHEN1	1	b	0	0.25	11.14	0.06	0.4102
CHEN2	50	b	1	0.07	12.24	0.13	0.8128
CHHABR	1	b	0	0.48	67.93	6.49	0.0001
CLARK	2	b	0	0.63	2.97	0.63	0.2753
CSONKA	4	b	4	0.74	12.12	3.94	0.0098
CUNNI1	1	b	0	-0.03	187.78	7.68	0.6744
DAIGLE	3	b	7	0.67	11.64	2.93	0.0217
DEKKER	6	b	9	0.40	117.58	6.07	0.0000
DELL	2	b	0	0.42	18.30	1.12	0.0733
DIJKST	1	b	0	0.67	6.59	1.62	0.0865
DODGE	12	b	1	0.41	7.12	0.39	0.2794
DOLD	21	b	1	0.10	113.12	0.66	0.3107
DOTTER	1	m	6	-0.69	10.60	7.93	0.0240
DOTTER	2	f	6	-0.69	5.29	3.95	0.1110
Subtotal	DOTTER			-1.73	15.89	11.88	
DUHME1	3	b	2	0.14	63.84	0.06	0.2641
DUHME2	1	b	2	0.10	96.99	0.56	0.3479
DUHME3	3	b	2	-0.04	38.19	1.72	0.8008
DUHME4	1	b	2	0.39	79.80	3.64	0.0006
ECE	3	b	0	0.18	79.23	0.01	0.1041
EHRLI2	3	b	0	0.63	11.17	2.31	0.0363
FAGBUL	2	b	1	0.34	14.40	0.43	0.1923
FARBE2	2	b	3	0.41	57.72	3.34	0.0017
FAROOQ	1	b	0	0.25	72.93	0.50	0.0297
*FERGUS	7	b	0	0.04	37.52	0.66	0.8106
FLYNN1	1	b	0	0.23	47.28	0.17	0.1120
FORAST	20	b	9	0.25	37.10	0.21	0.1327
FORSB1	2	b	14	0.10	19.52	0.11	0.6737
FORSB2	2	b	14	-0.36	5.48	1.53	0.4036
FORSB3	2	b	15	0.44	50.37	3.76	0.0016
FREEM1	2	b	2	0.74	97.16	31.61	0.0000
FUJI	1	b	0	-0.27	15.01	2.93	0.2946
GILLIL	28	b	9	-0.01	58.28	1.92	0.9388
GOLD	7	b	11	-0.01	124.12	4.09	0.9108
GOREN1	3	b	0	0.07	27.97	0.28	0.7071
GOREN2	5	b	2	0.22	99.84	0.19	0.0316
GORTM1	3	b	7	0.40	36.85	1.90	0.0155
GORTM2	1	b	0	0.63	6.99	1.45	0.0978
GUPTA	2	b	2	0.58	47.97	7.87	0.0001
GURKAN	1	b	0	0.63	11.10	2.28	0.0372
HABY	4	b	9	0.48	13.60	1.31	0.0752
HAJNAL	1	b	13	0.18	63.05	0.01	0.1477
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

Appendix Table C27 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma (or Lifetime if Current not available)
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
HU2	24	b	3	0.39	22.17	1.01	0.0697
INFANT	10	b	19	0.34	25.97	0.71	0.0864
JAAKKO	2	b	7	0.19	30.93	0.01	0.2891
JANG	1	b	0	0.46	26.78	2.24	0.0170
JENKIN	5	b	7	0.23	116.41	0.41	0.0126
JONES	2	b	0	0.16	9.47	0.00	0.6266
KARUNA	1	b	0	0.12	36.46	0.08	0.4564
KAY	20	b	1	0.35	38.89	1.25	0.0288
KENDIR	1	b	0	0.34	99.03	2.93	0.0006
KERSHA	7	b	1	1.14	11.69	10.91	0.0001
KIVITY	4	b	0	0.59	13.44	2.33	0.0311
KUEHR	6	b	1	-0.39	19.88	6.17	0.0855
KUHR	4	b	0	0.70	5.57	1.54	0.0997
LAM1	16	b	4	-0.17	15.51	1.86	0.4923
LAM2	2	b	4	-0.27	16.06	3.19	0.2714
LAU	1	b	0	0.30	5.74	0.10	0.4716
LEE1	1	b	8	0.31	395.94	8.12	0.0000
LEE2	1	b	8	-0.01	224.74	7.41	0.8802
LEE3	5	b	0	-0.19	513.76	68.73	0.0000
*LEEDER	2	b	1	0.29	8.17	0.11	0.4149
LEEN	1	b	0	-0.28	12.81	2.62	0.3157
LEROUX	2	b	10	0.58	14.02	2.36	0.0293
LILLJE	1	b	0	0.09	42.18	0.31	0.5801
LINDFO	1	b	0	0.50	29.55	3.20	0.0065
LIS	1	b	0	0.31	37.30	0.69	0.0604
LISTER	3	b	8	0.42	64.33	3.93	0.0008
MAIER	5	b	8	0.82	13.60	5.64	0.0026
*MARTIN	5	m	1	0.56	11.93	1.80	0.0533
*MARTIN	6	f	1	0.68	5.55	1.45	0.1075
Subtotal	MARTIN			0.90	17.48	3.25	
MAVALE	7	b	0	0.78	9.68	3.58	0.0153
*MCCON1	3	m	3	0.43	24.88	1.60	0.0339
*MCCON1	4	f	3	-0.17	31.22	3.74	0.3300
Subtotal	MCCON1			-0.09	56.10	5.34	
MCCON2	2	b	0	-0.58	1.65	0.94	0.4523
*MCKEEV	4	b	0	0.27	1119.12	11.03	0.0000
MELSOM	5	m	0	1.10	5.71	4.91	0.0086
MELSOM	6	f	0	0.00	2.82	0.08	1.0000
Subtotal	MELSOM			0.76	8.53	4.99	
MILLER	4	b	5	0.86	4.24	2.00	0.0769
MOHAME	1	b	0	0.47	8.00	0.71	0.1838
MONTEI	1	b	0	0.22	56.12	0.15	0.0946
MOUSSA	1	b	0	1.10	0.37	0.32	0.5000
MOYES1	1	b	0	0.06	120.55	1.62	0.5411
MOYES2	1	b	0	-0.06	115.09	6.05	0.5355
MUMCUO	6	b	0	-0.07	17.74	1.04	0.7676
MURRAY	5	m	1	0.34	14.28	0.42	0.1941
MURRAY	7	f	1	0.27	8.50	0.08	0.4311
Subtotal	MURRAY			0.27	22.78	0.50	
NHANE3	61	b	6	0.22	14.00	0.04	0.4038
NICOLA	2	b	0	0.06	35.61	0.46	0.7304
NILSSO	1	b	0	0.00	31.98	0.94	1.0000
NITTA	1	b	5	-0.09	14.17	1.00	0.7226
OCONNIE	1	b	0	0.25	33.98	0.23	0.1384
*ODDY	1	b	4	0.24	96.50	0.44	0.0189
OHARA	6	b	4	-0.09	34.25	2.42	0.5810
PALMIE	3	b	0	-0.00	30.71	0.91	0.9963
PETERS	6	b	6	-0.15	44.74	4.65	0.3131
PIC	1	b	0	0.09	26.03	0.17	0.6397
PIROGO	3	b	0	0.38	2.73	0.12	0.5269
POKHAR	2	b	5	1.20	7.63	8.11	0.0009
*PONSON	8	b	6	0.03	88.18	1.78	0.7813
QIAN	1	b	7	0.75	3.96	1.31	0.1372
RASANE	3	b	3	0.46	27.24	2.32	0.0155
RATAGE	1	b	0	0.07	10.00	0.11	0.8330
RENNIE	1	b	6	0.02	13.41	0.31	0.9422
RIBEIR	1	b	0	0.18	7.76	0.00	0.6116
RONCH1	7	b	2	0.34	39.05	1.06	0.0355
RONCH2	3	b	0	0.29	31.60	0.43	0.1048

Appendix Table C27 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma (or Lifetime if Current not available)
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
RONCH3	3	b	0	-0.02	24.61	0.90	0.9224
RONMA1	1	b	5	0.47	30.41	2.71	0.0095
*RONMA3	2	b	9	0.31	15.08	0.28	0.2324
ROSASV	1	b	0	0.45	3.25	0.25	0.4168
SARRAZ	1	b	0	0.20	2.03	0.00	0.7783
SCHMIT	1	b	4	0.73	13.33	4.12	0.0079
SELCUK	4	b	6	0.25	39.78	0.23	0.1195
SENNHA	1	b	0	0.23	58.71	0.17	0.0833
SHAMS2	2	b	0	-0.01	108.55	3.58	0.9166
SHAMSS	2	b	0	0.33	79.17	1.97	0.0034
*SHERMA	2	b	2	0.17	19.90	0.00	0.4603
SHIVA	1	b	0	0.39	4.36	0.21	0.4160
SHOHAT	4	b	12	0.19	64.12	0.02	0.1269
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422
SOTOQU	1	b	0	0.42	46.33	2.93	0.0040
SOYSET	14	b	5	1.03	6.43	4.73	0.0090
SPENGL	2	b	5	0.20	15.50	0.01	0.4337
SQUILL	1	b	0	0.10	18.67	0.09	0.6613
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
STURM	10	b	7	0.46	883.86	75.44	0.0000
TARIQ	12	b	1	-0.12	19.03	1.58	0.6112
*TAYLOR	4	b	0	-0.04	72.55	3.27	0.7281
TIMONE	1	b	0	-0.58	9.03	5.11	0.0808
TOMINA	2	b	0	-1.06	1.84	2.78	0.1515
TSIMOY	1	b	0	0.04	2.59	0.04	0.9464
VARELA	1	b	0	1.09	2.80	2.35	0.0687
VAVILI	1	b	0	-0.50	11.30	5.06	0.0945
VENNER	6	m	0	0.09	27.66	0.16	0.6182
VENNER	3	f	0	0.18	28.98	0.00	0.3399
Subtotal	VENNER			-0.07	56.63	0.16	
VERHOE	3	b	0	-0.25	17.31	3.09	0.2972
VONMAF	1	b	0	0.23	78.55	0.27	0.0417
WANG	2	b	8	0.08	3689.08	33.03	0.0000
WARKE	1	b	0	-0.12	12.07	1.00	0.6860
*WICKMA	2	b	8	0.50	39.93	4.33	0.0016
WIJGA	2	b	17	-0.22	23.01	3.58	0.2845
WILLE1	7	b	0	0.68	6.06	1.55	0.0955
WITHER	1	b	0	0.18	92.49	0.00	0.0890
WOLFO1	1	b	7	0.16	7.31	0.00	0.6712
WOLFO2	1	b	7	0.01	5.03	0.13	0.9822
WOLFO3	1	b	10	0.75	10.43	3.45	0.0159
YANG	2	b	10	-0.14	31.98	3.09	0.4310
*ZEIGER	1	b	0	0.21	10.38	0.02	0.4914
ZHENG	19	b	6	0.34	51.44	1.40	0.0158

RR data

N	178
NS	171
Wt	12839.99
Het Chi	551.94
Het df	177
Het P	***
Fixed RR	1.19
RRl	1.17
RRu	1.21
P	+++
Random RR	1.23
RRl	1.18
RRu	1.28
P	+++
Asymm P	*

Appendix Table C27 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma (or Lifetime if Current not available)
 Adjusted

RR data

	N	178			
	NS	171			
	Wt	12839.99			
Het	Chi	551.94			
Het	df	177			
Het	P	***			
Fixed	RR	1.19			
	RRl	1.17			
	RRu	1.21			
	P	+++			
Random	RR	1.23			
	RRl	1.18			
	RRu	1.28			
	P	+++			
Asymm	P	*			
			Sex		
	both		male	female	Total
	N	163	8	7	178
	NS	163	8	7	178
	Wt	12596.69	135.98	107.32	12839.99
Het	Chi	522.10	18.41	7.57	551.94
Het	df	162	7	6	177
Het	P	***	*	N.S.	***
Fixed	RR	1.19	1.31	1.02	1.19
	RRl	1.17	1.11	0.84	1.17
	RRu	1.21	1.55	1.23	1.21
	P	+++	++	N.S.	+++
Random	RR	1.23	1.36	1.03	1.23
	RRl	1.18	1.02	0.82	1.18
	RRu	1.28	1.81	1.29	1.28
	P	+++	+	N.S.	+++
Between	Chi				3.87
Between	df				2
Between	P				N.S.

Appendix Table C27 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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	CELEDO	CUNNI2	JAAKK2	KAPLAN	KELLY	LOPEZC	NYSTAD	OLIVET	WEITZ1	WEITZ2		XU	YUAN			
3	CHINN	EHRLI1	KABESC	KASPER	KNIGHT	SOMERV										
4	AKCAKA	AZIZI	BALL	BURR	DEBENE	DEKOK	FIELDE	FLYNN2	FREEM2	GOREN3	GOREN4	GOREN5	GOREN6	HALONE	HUGHES	KALY01
	KALY02	KEARNE	LEVES1	LEVES2	LEVES3	MELIA	MONTEF	RUDNIK	SANZOR	SCHENK	STAZI	STERN2	ULRIK	VOLKME	ZEJDA	ZHANG
15	ALFRA2	FARBE1	FARBE3	RONMA2	SPIEKE	WILLE2										

Appendix Table C27 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Current Asthma (or Lifetime if Current not available)
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL
MCCON1	MCCON1	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/WTLLE2
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
CSONKA	CSONKA	1	JAACK2/CSONKA
NICOLA	NICOLA	1	KABESC/NICOLA
DUHME1	BEHREN	2	DUHME1/BEHREN
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3

	REF	NRR	SEX	AST	AGE	AGEH	RACE	Adjusted - insufficient data for metaanalysis							EXPOS-time	UNEXTI	BIOMEA		RR	SIG
								LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEX	source					
ADD0Y0	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	?	n	
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	utero/life	non	-	*	n		
DEBENE	1	b	l	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	unspec	non	-	1.46	y	n	
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	2	b	c	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		
FREEM2	1	b	l	4	5	all	NAmer	1998	2003	CS	2	AnyHh	NoHhMemb	current	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	n	
HALONE	1	b	c	6	6	all	NAmer	1980	1999	Pr	0	Mother	NotMothr	in life	non	-	*	n		
HUGHES	1	b	c	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non	-	*	n		
KALY01	2	b	c	6	12	all	Eu:est	1992	1994	CS	0	AnyHh	NoHhMemb	current	non	-	*	n		
KALY02	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	n	
LEEDER	3	b	l	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	-	*	n		
LEVES1	1	b	l	9	9	all	NAmer	1999	2004	CS	0	AnyHh	None	unspec	non	-	*	n		
LEVES2	1	b	l	13	13	all	NAmer	1999	2004	CS	0	AnyHh	None	unspec	non	-	*	n		
LEVES3	1	b	l	16	16	all	NAmer	1999	2004	CS	0	AnyHh	None	unspec	non	-	*	n		
LISTER	9	b	l	0	4	all	Auslia	1989	1998	CS	0	AnyHh	NoHhMemb	current	non	-	*	n		
MCCON2	5	b	c	5	9	all	NAmer	1980	1986	CS	0	AnyHh	Low	in life	non	-	*	n		
MELIA	1	b	c	5	11	all	Eu:UK	1977	1981	CS	0	AnyHh	NoHhMemb	current	non	-	*	y	n	
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	n	
RASANE	2	b	l	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	-	*	n		
RONMA3	4	b	l	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	non	-	*	n		
RUDNIK	1	b	l	8	10	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	0.74	?	n	
RUDNIK	2	b	l	11	13	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.43	?	n	
RUDNIK	3	b	l	14	16	all	Eu:est	1974	1985	Pr	0	AnyHh	NoHhMemb	unspec	non	-	1.09	?	n	
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	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	n	
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		

Appendix Table C27 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Current Asthma (or Lifetime if Current not available)
 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
ZEJDA	1	b	l	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	-	*	n
ZHANG	1	b	l	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	-	1.04	n

Appendix Table C28 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 : current, lifetime
- 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 C26 - 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 C28 - 1

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

REF	NRR	CompC26	SEX	AST	AGE	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
AGUDOT	4	x	b	c	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never
ALBA	2		b	l	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAW0	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
BENCIV	3		b	l	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	unspec	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
JANG	1		b	c	10	12	all	As:FE	*	2004	CS	0	AnyPar	NoParent	unspec	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
MAVALE	7		b	c	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	unspec	non
MCCON1	2		b	l	9	18	all	NAmer	1993	2002	Pr	5	Mother	NotMothr	9-16y	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
MONTEI	1		b	l	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	current	non
MOUSSA	1		b	c	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCU0	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

Appendix Table C28 - 1

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

REF	NRR	CompC26	SEX	AST	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
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
QIAN	1		b	l	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never
RASANE	3		b	l	16	16	all	Eu:Sca	1991	2000	CS	3	Mother	NotMothr	ever	never
RATAGE	2		b	l	5	15	all	As:cen	1996	2000	CC	0	Father	NotFathr	unspec	non
RENNIE	1		b	l	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
RONMA1	1		b	c	7	8	all	Eu:Sca	1996	1998	CS	5	Mother	NotMothr	unspec	non
RONMA3	2		b	l	7	10	all	Eu:Sca	1996	2002	Pr	9	Mother	NotMothr	unspec	non
ROSASV	1		b	l	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
SHAMS2	2		b	l	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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
SHIVA	1		b	c	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	non
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
SPENGL	2		b	c	8	12	all	Eu:est	*	2004	CS	5	AnyPar	NoParent	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	l	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	l	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VENNER	3		f	l	8	15	all	As:FE	1995	2001	CS	0	Father	NoParent	current	never
VERHOE	3		b	l	7	11	all	Eu:wst	*	1992	CC	0	AnyPar	NoParent	ever	never
WARKE	1		b	l	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non
WICKMA	2		b	l	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non
WILLE1	7		b	c	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non
WITHER	6		b	l	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 C28 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
AGABI1	14	b	11	558	-	148	-	1.34 (	1.11-	1.62)
AGABI2	14	b	12	700	-	203	-	1.17 (	0.99-	1.39)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)
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	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)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
JANG	1	b	0	205	145	74	83	1.59 (	1.09-	2.32)
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
*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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
MOUSSA	1	b	0	1	0	202	203	3.01~(	0.12-	74.44)

Appendix Table C28 - 2

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

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed Case	Control	Case	Control			
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)
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)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
RONMA1	1	b	5	-	-	-	-	1.60 (	1.12-	2.28)
*RONMA3	2	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)
SHAMS2	2	b	0	-	-	-	-	0.99 (	0.81-	1.18)
SHAMSS	2	b	0	-	-	-	-	1.39 (	1.12-	1.74)
*SHERMA	2	b	2	-	-	-	-	1.18 (	0.76-	1.83)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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)
SPENGL	2	b	5	-	-	-	-	1.22 (	0.75-	2.03)
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)
WARKE	1	b	0	55	27	119	52	0.89 (	0.51-	1.56)
*WICKMA	2	b	8	64	-	251	-	1.65 (	1.21-	2.25)
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				9623	23749	12896	39225			
*prospective study									~ With 0.5 adjustment for zero	

Appendix Table C28 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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
AGABI1	14	b	11	0.29	107.50	0.42	0.0024
AGABI2	14	b	12	0.16	133.43	0.71	0.0697
AGUDOT	4	b	4	1.18	3.39	3.09	0.0291
ALBA	2	b	0	0.09	10.78	0.20	0.7608
ALDAW0	2	m	0	0.76	8.40	2.37	0.0274
ALFRA1	2	b	0	0.41	22.65	0.75	0.0498
ANDRAE	2	b	3	-0.01	54.89	3.16	0.9406
ANNESI	1	b	0	0.25	89.09	0.05	0.0166
ARSHAD	1	b	7	1.20	1.82	1.72	0.1044
BENCIV	3	b	2	0.43	116.67	4.75	0.0000
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	1.32	1.0000
Subtotal BURCHF				-0.25	57.49	1.33	
BUTZ	4	b	0	0.21	12.89	0.00	0.4416
CHEN2	47	b	1	0.10	15.22	0.24	0.6839
DAIGLE	3	b	7	0.67	11.64	2.28	0.0217
DELL	2	b	0	0.42	18.30	0.65	0.0733
DODGE	12	b	1	0.41	7.12	0.22	0.2794
DOLD	7	b	0	0.19	92.36	0.18	0.0734
ECE	7	b	0	0.12	63.38	0.76	0.3376
EHRLI2	4	b	0	0.69	10.00	2.14	0.0284
FAGBUL	2	b	1	0.34	14.40	0.19	0.1923
FARBE2	2	b	3	0.41	57.72	1.91	0.0017
FAROOQ	1	b	0	0.25	72.93	0.04	0.0297
*FERGUS	7	b	0	0.04	37.52	1.37	0.8106
FORAST	20	b	9	0.25	37.10	0.01	0.1327
GILLIL	36	b	8	-0.11	12.73	1.43	0.7070
GOLD	7	b	11	-0.01	124.12	7.16	0.9108
GOREN1	4	b	0	0.36	23.61	0.37	0.0838
GOREN2	5	b	2	0.22	99.84	0.02	0.0316
GORTM1	3	b	7	0.40	36.85	1.05	0.0155
GORTM2	1	b	0	0.63	6.99	1.10	0.0978
HABY	4	b	9	0.48	13.60	0.87	0.0752
HAJNAL	3	b	13	0.15	49.92	0.33	0.2943
HJERN1	13	b	9	-0.33	34.86	10.88	0.0524
HJERN2	13	b	9	-0.06	22.00	1.88	0.7716
HOST	1	b	0	-0.12	7.87	0.94	0.7459
HU1	6	b	0	0.02	14.41	0.62	0.9302
HU2	24	b	3	0.39	22.17	0.53	0.0697
INFANT	10	b	19	0.34	25.97	0.29	0.0864
JANG	1	b	0	0.46	26.78	1.43	0.0170
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	0.57	0.0288
KERSHA	5	b	1	0.89	19.22	8.32	0.0001
KIVITY	4	b	0	0.59	13.44	1.72	0.0311
KUEHR	6	b	1	-0.39	19.88	7.54	0.0855
KUHR	4	b	0	0.70	5.57	1.22	0.0997
LAM1	20	b	4	0.76	3.25	0.90	0.1727
LAM2	12	b	4	-0.37	11.81	4.27	0.2022
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	3.34	0.3157
LEROUX	2	b	10	0.58	14.02	1.74	0.0293
LILLJE	1	b	0	0.09	42.18	0.89	0.5801
LINDFO	1	b	0	0.50	29.55	2.16	0.0065
LIS	1	b	0	0.31	37.30	0.22	0.0604
LISTER	3	b	8	0.42	64.33	2.29	0.0008
*MARTIN	5	m	1	0.56	11.93	1.30	0.0533
*MARTIN	6	f	1	0.68	5.55	1.14	0.1075
Subtotal MARTIN				0.78	17.48	2.43	
MAVALE	7	b	0	0.78	9.68	2.93	0.0153
*MCCON1	2	b	5	-0.01	24.89	1.43	0.9600
MCCON2	1	b	0	0.79	3.43	1.09	0.1420
*MCKEEV	4	b	0	0.27	1119.12	1.86	0.0000
MONTEI	1	b	0	0.22	56.12	0.00	0.0946
MOUSSA	1	b	0	1.10	0.37	0.29	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.68	0.0258

Appendix Table C28 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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
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	0.20	
NILSSO	1	b	0	0.00	31.98	1.69	1.0000
OCONNE	1	b	0	0.25	33.98	0.02	0.1384
OHARA	6	b	4	-0.09	34.25	3.60	0.5810
PALMIE	3	b	0	-0.00	30.71	1.64	0.9963
PIC	1	b	0	0.09	26.03	0.50	0.6397
*PONSON	4	b	6	0.05	107.38	3.53	0.6131
QIAN	1	b	7	0.75	3.96	1.06	0.1372
RASANE	3	b	3	0.46	27.24	1.49	0.0155
RATAGE	2	b	0	-0.24	9.92	2.15	0.4582
RENNIE	1	b	6	0.02	13.41	0.59	0.9422
RIBEIR	1	b	0	0.18	7.76	0.02	0.6116
RONMA1	1	b	5	0.47	30.41	1.75	0.0095
*RONMA3	2	b	9	0.31	15.08	0.09	0.2324
ROSASV	1	b	0	0.45	3.25	0.16	0.4168
SCHMIT	1	b	4	0.73	13.33	3.30	0.0079
SHAMS2	2	b	0	-0.01	108.55	6.26	0.9166
SHAMSS	2	b	0	0.33	79.17	0.78	0.0034
*SHERMA	2	b	2	0.17	19.90	0.08	0.4603
SHIVA	1	b	0	0.39	4.36	0.11	0.4160
SHOHAT	4	b	12	0.19	64.12	0.10	0.1269
*SIGURS	1	b	0	0.18	3.26	0.01	0.7422
SOTOQU	1	b	0	0.42	46.33	1.72	0.0040
SOYSET	14	b	5	1.03	6.43	4.11	0.0090
SPENGL	2	b	5	0.20	15.50	0.02	0.4337
STANHO	1	b	0	-1.02	3.66	5.73	0.0507
STERN1	1	b	0	0.11	11.71	0.17	0.7107
STODDA	10	b	9	0.31	124.44	0.75	0.0006
STRACH	9	b	4	0.21	27.70	0.01	0.2759
TARIQ	12	b	1	-0.12	19.03	2.29	0.6112
*TAYLOR	4	b	0	-0.04	72.55	5.32	0.7281
TOMINA	2	b	0	-1.06	1.84	3.05	0.1515
VENNER	6	m	0	0.09	27.66	0.51	0.6182
VENNER	3	f	0	0.18	28.98	0.08	0.3399
Subtotal	VENNER			-0.19	56.63	0.59	
VERHOE	3	b	0	-0.25	17.31	4.00	0.2972
WARKE	1	b	0	-0.12	12.07	1.45	0.6860
*WICKMA	2	b	8	0.50	39.93	2.93	0.0016
WILLE1	7	b	0	0.68	6.06	1.21	0.0955
WITHER	6	b	5	0.41	50.42	1.55	0.0040
ZHENG	26	b	0	0.71	6.34	1.46	0.0739

RR data

	N	108
	NS	104
	Wt	4490.12
Het	Chi	173.92
Het	df	107
Het	P	***
Fixed	RR	1.26
	RRl	1.22
	RRu	1.30
	P	+++
Random	RR	1.25
	RRl	1.20
	RRu	1.31
	P	+++
Asymm	P	N.S.

Appendix Table C28 - 3

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

RR data

	N	108			
	NS	104			
	Wt	4490.12			
Het	Chi	173.92			
Het	df	107			
Het	P	***			
Fixed	RR	1.26			
	RRl	1.22			
	RRu	1.30			
	P	+++			
Random	RR	1.25			
	RRl	1.20			
	RRu	1.31			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	99	5	4	108
	NS	99	5	4	108
	Wt	4327.33	94.79	68.00	4490.12
Het	Chi	167.00	4.01	2.27	173.92
Het	df	98	4	3	107
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	1.20
	RRu	1.31	1.64	1.50	1.31
	P	+++	++	N.S.	+++
Between	Chi				0.64
Between	df				2
Between	P				N.S.

Appendix Table C28 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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	ANNES2	ARIF	BARRET	BECKET	BRABIN	CALL	CHEN1	CHHABR	CLARK	DEKKER	DIJKST	DOTTER	DUHME1	DUHME2
	DUHME3	DUHME4	FIELDE	FLYNN1	FLYNN2	FORSB1	FORSB2	FORSB3	FREEM1	FREEM2	FUJI	GUPTA	GURKAN	JAAKKO	KABESC	KALY01
	KALY02	KARUNA	KASPER	KEARNE	KENDIR	KNIGHT	LEE1	LEE2	LEVES1	LEVES2	LEVES3	MAIER	MELIA	MELSOM	MILLER	MONTEF
	MOYES1	MOYES2	NICOLA	NITTA	ODDY	PETERS	PIROGO	POKHAR	RONCH1	RONCH2	RONCH3	RUDNIK	SARRAZ	SELCUK	SENNHA	SPIEKE
	SQUILL	STURM	TIMONE	TSIMOY	VARELA	VAVILI	WANG	WIJGA	WILLE2	WOLFO1	WOLFO2	WOLFO3	YANG			
2	BERGMA	CELEDO	CSONKA	CUNNI2	EHRLI1	JAAKK2	KAPLAN	KELLY	LEE3	LOPEZC	NHANE3	NYSTAD	OLIVET	WEITZ1	WEITZ2	XU
	YUAN															
3	CHINN	SOMERV														
4	AZIZI	BALL	BURR	CUNNI1	DEBENE	DEKOK	GOREN3	GOREN4	GOREN5	GOREN6	HALONE	HUGHES	MOHAME	SANZOR	SCHENK	STAZI
	STERN2	ULRIK	VOLKME	VONMAF	ZEIGER	ZEJDA	ZHANG									
13	ALFRA2	FARBE1	FARBE3	RONMA2												

Appendix Table C28 - 8

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

REF	REFPG	PRINC	OVERLAP														
GILLIL	GILLIL	1	MCCON1/GILLIL														
MCCON1	MCCON1	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														
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3														
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3														
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	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
BURR	1	b	l	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	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
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
HALONE	1	b	c	6	6	all	NAmer	1980	1999	Pr	0	Mother	NotMothr	in life	non	*	n
HUGHES	1	b	c	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	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
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	l	16	16	all	Eu:Sca	1991	2000	CS	0	AnyPar	NoParent	<7y	non	*	n
RONMA3	4	b	l	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	non	*	n
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	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	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
VONMAF	3	b	l	0	17	all	NAmer	1993	2001	CS	7	Mother	NotMothr	ever	never	*	y
ZEIGER	4	b	l	0	7	all	NAmer	1981	1995	Pr	4	Mother	NotMothr	unspec	non	*	n
ZEJDA	1	b	l	7	9	all	Eu:est	*	1996	CS	3	AnyPar	NoParent	unspec	non	*	n
ZHANG	1	b	l	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	1.04	n

Appendix Table C29 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C1 - 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 C29 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Asthma Onset
 Adjusted

REF	NRR	CompC1	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	3		m	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	non	-
MCCON1	4		f	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	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	-
RONMA3	2		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	-
WICKMA	2		b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	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 C29 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Asthma Onset
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
*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 3		m	3	-	-	-	-	1.53 (	1.03-	2.26)
*MCCON1 4		f	3	-	-	-	-	0.84 (	0.59-	1.19)
Subtotal MCCON1								1.10 (	0.84-	1.42)
*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)
*RONMA3 2		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)
*WICKMA 2		b	8	64	-	251	-	1.65 (	1.21-	2.25)
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				2234	13171	2884	18506			
*prospective study										
REF	NRR	SEX	ADJ	Ys		Ws		Qs	Ps	
*FERGUS 7		b	0	0.04	37.52	1.52	0.8106			
INFANT 10		b	19	0.34	25.97	0.24	0.0864			
*LEEDER 2		b	1	0.29	8.17	0.02	0.4149			
*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 3		m	3	0.43	24.88	0.85	0.0339			
*MCCON1 4		f	3	-0.17	31.22	5.37	0.3300			
Subtotal MCCON1				-0.23	56.10	6.22				
*MCKEEV 4		b	0	0.27	1119.12	1.03	0.0000			
*ODDY 1		b	4	0.24	96.50	0.00	0.0189			
*PONSON 8		b	6	0.03	88.18	3.93	0.7813			
*RONMA3 2		b	9	0.31	15.08	0.07	0.2324			
*SHERMA 2		b	2	0.17	19.90	0.11	0.4603			
*SIGURS 1		b	0	0.18	3.26	0.01	0.7422			
*TAYLOR 4		b	0	-0.04	72.55	5.74	0.7281			
*WICKMA 2		b	8	0.50	39.93	2.70	0.0016			
WILLE1 7		b	0	0.68	6.06	1.15	0.0955			
*ZEIGER 1		b	0	0.21	10.38	0.01	0.4914			

RR data

N	17
NS	15
Wt	1616.21
Het Chi	25.06
Het df	16
Het P	(*)
Fixed RR	1.27
RRl	1.21
RRu	1.34
P	+++
Random RR	1.23
RRl	1.12
RRu	1.36
P	+++
Asymm P	N.S.

Appendix Table C29 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Asthma Onset
 Adjusted

RR data

	N	17			
	NS	15			
	Wt	1616.21			
Het	Chi	25.06			
Het	df	16			
Het	P	(*)			
Fixed	RR	1.27			
	RRl	1.21			
	RRu	1.34			
	P	+++			
Random	RR	1.23			
	RRl	1.12			
	RRu	1.36			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	13	2	2	17
	NS	13	2	2	17
	Wt	1542.63	36.81	36.77	1616.21
Het	Chi	16.53	0.15	3.47	25.06
Het	df	12	1	1	16
Het	P	N.S.	N.S.	(*)	(*)
Fixed	RR	1.27	1.60	0.96	1.27
	RRl	1.21	1.16	0.69	1.21
	RRu	1.34	2.21	1.32	1.34
	P	+++	++	N.S.	+++
Random	RR	1.23	1.60	1.18	1.23
	RRl	1.12	1.16	0.52	1.12
	RRu	1.35	2.21	2.69	1.36
	P	+++	++	N.S.	+++
Between	Chi				4.92
Between	df				2
Between	P				(*)

Appendix Table C29 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

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	AGUDOT	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNES2	ANNESI	ARIF	ARSHAD	BALL	BARRET
	BECKET	BENCIV	BENER	BERGMA	BRABIN	BURCHF	BUTZ	CALL	CELEDO	CHEN1	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI1
	CUNNI2	DAIGLE	DEBENE	DEKKER	DEKOK	DELL	DIJKST	DODGE	DOLD	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	ECE	EHRLI1
	EHRLI2	FAGBUL	FARBE1	FARBE2	FARBE3	FAR00Q	FIELDE	FLYNN1	FLYNN2	FORAST	FORSB1	FORSB2	FORSB3	FREEM1	FREEM2	FUJI
	GILLIL	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN	HABY	HAJNAL	HALONE	HJERN1
	HJERN2	HOST	HU1	HU2	HUGHES	JAAKKO	JANG	JENKIN	JONES	KABESC	KALY01	KALY02	KARUNA	KASPER	KAY	KEARNE
	KELLY	KENDIR	KERSHA	KIVITY	KNIGHT	KUEHR	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEE3	LEEN	LEROUX	LEVES1
	LEVES2	LEVES3	LILLJE	LINDFO	LIS	LISTER	LOPEZC	MAIER	MAVALE	MCCON2	MELIA	MELSOM	MILLER	MOHAME	MONTEF	MONTEI
	MOUSSA	MOYES1	MOYES2	MUMCUO	MURRAY	NHANE3	NICOLA	NILSSO	NITTA	NYSTAD	OCONNE	OHARA	OLIVET	PALMIE	PETERS	PIC
	PIROGO	POKHAR	QIAN	RASANE	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3	RONMA1	RONMA2	ROSASV	RUDNIK	SANZOR	SARRAZ
	SCHENK	SCHMIT	SELCUK	SENNHA	SHAMS2	SHAMSS	SHIVA	SHOHAT	SOMERV	SOTOQU	SOYSET	SPENGL	SPIEKE	SQUILL	STANHO	STAZI
	STERN1	STERN2	STODDA	STRACH	STURM	TARIQ	TIMONE	TOMINA	TSIMOY	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG
	WARKE	WEITZ1	WEITZ2	WIJGA	WILLE2	WITHER	WOLF01	WOLF02	WOLF03	YANG	ZEJDA	ZHANG	ZHENG			
3	JAAKK2	KAPLAN	XU	YUAN												
5	AZIZI	BURR	ULRIK													

Appendix Table C29 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Asthma Onset
 Potentially overlapping studies

REF		REFGP PRINC			OVERLAP														
MCCON1	MCCON1	1			MCCON1/GILLIL														
RONMA3	RONMA3	1			RONMA1/RONMA2/RONMA3														
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		
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	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 C30 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C5 - 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 C30 - 1

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

REF	NRR	CompC5	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
RONMA3	2		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
WICKMA	2		b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non
WILLE1	7	x	b	3	15	all	Eu:Sca	1988	1991	CC	0	AnyPar	NoParent	current	non

Appendix Table C30 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
*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)
*RONMA3 2		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)
*WICKMA 2		b	8	64	-	251	-	1.65 (	1.21-	2.25)
WILLE1 7		b	0	37	47	12	30	1.97 (	0.89-	4.36)
Partial Totals				2194	13149	3093	18363			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
*FERGUS 7		b	0	0.04	37.52	1.53	0.8106
INFANT 10		b	19	0.34	25.97	0.24	0.0864
*LEEDER 2		b	1	0.29	8.17	0.02	0.4149
*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	1.57	0.9600
*MCKEEV 4		b	0	0.27	1119.12	1.00	0.0000
*PONSON 4		b	6	0.05	107.38	3.96	0.6131
*RONMA3 2		b	9	0.31	15.08	0.07	0.2324
*SHERMA 2		b	2	0.17	19.90	0.11	0.4603
*SIGURS 1		b	0	0.18	3.26	0.01	0.7422
*TAYLOR 4		b	0	-0.04	72.55	5.76	0.7281
*WICKMA 2		b	8	0.50	39.93	2.70	0.0016
WILLE1 7		b	0	0.68	6.06	1.15	0.0955

RR data

	N	14
	NS	13
	Wt	1497.32
Het	Chi	20.41
Het	df	13
Het	P	(*)
Fixed	RR	1.27
	RRl	1.21
	RRu	1.34
	P	+++
Random	RR	1.23
	RRl	1.10
	RRu	1.37
	P	+++
Asymm	P	N.S.

Appendix Table C30 - 3

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

RR data

	N	14			
	NS	13			
	Wt	1497.32			
Het	Chi	20.41			
Het	df	13			
Het	P	(*)			
Fixed	RR	1.27			
	RRl	1.21			
	RRu	1.34			
	P	+++			
Random	RR	1.23			
	RRl	1.10			
	RRu	1.37			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both	male	female	Total	
	N	12	1	1	14
	NS	12	1	1	13
	Wt	1479.84	11.93	5.55	1497.32
Het	Chi	18.09	0.00	0.00	20.41
Het	df	11	0	0	13
Het	P	(*)	N.S.	N.S.	(*)
Fixed	RR	1.27	1.75	1.98	1.27
	RRl	1.20	0.99	0.86	1.21
	RRu	1.33	3.09	4.55	1.34
	P	+++	(+)	N.S.	+++
Random	RR	1.20	1.75	1.98	1.23
	RRl	1.08	0.99	0.86	1.10
	RRu	1.35	3.09	4.55	1.37
	P	++	(+)	N.S.	+++
Between	Chi				2.32
Between	df				2
Between	P				N.S.

Appendix Table C30 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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	AGUDOT	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNES2	ANNESI	ARIF	ARSHAD	BALL	BARRET
	BECKET	BENCIV	BENER	BERGMA	BRABIN	BURCHF	BUTZ	CALL	CELEDO	CHEN1	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI1
	CUNNI2	DAIGLE	DEBENE	DEKKER	DEKOK	DELL	DIJKST	DODGE	DOLD	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	ECE	EHRLI1
	EHRLI2	FAGBUL	FARBE1	FARBE2	FARBE3	FAROOQ	FIELDE	FLYNN1	FLYNN2	FORAST	FORSB1	FORSB2	FORSB3	FREEM1	FREEM2	FUJI
	GILLIL	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN	HABY	HAJNAL	HALONE	HJERN1
	HJERN2	HOST	HU1	HU2	HUGHES	JAAKKO	JANG	JENKIN	JONES	KABESC	KALY01	KALY02	KARUNA	KASPER	KAY	KEARNE
	KELLY	KENDIR	KERSHA	KIVITY	KNIGHT	KUEHR	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEE3	LEEN	LEROUX	LEVES1
	LEVES2	LEVES3	LILLJE	LINDFO	LIS	LISTER	LOPEZC	MAIER	MAVALE	MCCON2	MELIA	MELSOM	MILLER	MOHAME	MONTEF	MONTEI
	MOUSSA	MOYES1	MOYES2	MUMCUO	MURRAY	NHANE3	NICOLA	NILSSO	NITTA	NYSTAD	OCONNE	OHARA	OLIVET	PALMIE	PETERS	PIC
	PIROGO	POKHAR	QIAN	RASANE	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3	RONMA1	RONMA2	ROSASV	RUDNIK	SANZOR	SARRAZ
	SCHENK	SCHMIT	SELCUK	SENNHA	SHAMS2	SHAMSS	SHIVA	SHOHAT	SOMERV	SOTOQU	SOYSET	SPENGL	SPIEKE	SQUILL	STANHO	STAZI
	STERN1	STERN2	STODDA	STRACH	STURM	TARIQ	TIMONE	TOMINA	TSIMOY	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG
	WARKE	WEITZ1	WEITZ2	WIJGA	WILLE2	WITHER	WOLF01	WOLF02	WOLF03	YANG	ZEJDA	ZHANG	ZHENG			
2	ODDY															
3	JAAKK2	KAPLAN	XU	YUAN												
5	AZIZI	BURR	ULRIK	ZEIGER												

Appendix Table C30 - 8

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

REF		REFGP PRINC		OVERLAP													
MCCON1	MCCON1	1	MCCON1/GILLIL														
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3														
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	
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	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 C31 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C1 - 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 C31 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Lifetime Asthma
Adjusted

REF	NRR	CompC1	SEX	AGE1	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
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	-
ARIF	2		b	0	16	all	NAmer	2001	2004	CS	10	AnyHh	NoHhMemb	unspec	non	-
BECKET	6		b	0	17	all	NAmer	1993	1996	CS	7	AnyHh	NoHhMemb	ever	never	-
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	unspec	non	-
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
FAR00Q	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	-
FREEM1	2		b	7	11	all	NAmer	1998	2003	CS	2	AnyHh	NoHhMemb	current	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	-
LEE3	5		b	6	15	all	As:FE	2001	2003	CS	0	AnyHh	NoHhMemb	unspec	non	-
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	non	-
MAIER	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	-
MCCON1	3		m	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	non	-
MCCON1	4		f	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	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	-
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	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	-
NHANE3	28		b	4	16	w+b	NAmer	1988	2001	CS	6	Biochem	Low	-	-	blood
NICOLA	1		b	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	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	-
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never	-
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	-
WIJGA	1		b	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WITHER	1		b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLF01	2		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	2		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	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 C31 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	1	b	0	68	70	34	32	0.91 (	0.51-	1.64)
ALFRA1	2	b	0	-	-	-	-	1.51 (	1.04-	2.37)
ARIF	2	b	10	46	-	161	-	0.98 (	0.65-	1.47)
BECKET	6	b	7	133	-	352	-	1.31 (	1.03-	1.66)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
FREEM1	2	b	2	-	-	-	-	2.10 (	1.72-	2.56)
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)
LEE3	5	b	0	1114	16604	1094	13428	0.82 (	0.76-	0.90)
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)
*MCCON1	3	m	3	-	-	-	-	1.53 (	1.03-	2.26)
*MCCON1	4	f	3	-	-	-	-	0.84 (	0.59-	1.19)
Subtotal	MCCON1							1.10 (	0.84-	1.42)
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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)
NICOLA	1	b	0	126	1043	192	1710	1.08 (	0.85-	1.36)
OCONNE	1	b	0	264	137	136	91	1.29 (	0.92-	1.80)
*ODDY	1	b	4	-	-	-	-	1.27 (	1.04-	1.55)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
WIJGA	1	b	17	-	-	-	-	0.83 (	0.59-	1.19)
WITHER	1	b	0	202	633	296	1107	1.19 (	0.97-	1.46)
WOLF01	2	b	7	-	-	-	-	1.12 (	0.63-	1.98)
WOLF02	2	b	7	-	-	-	-	1.35 (	0.75-	2.43)
WOLF03	2	b	10	-	-	-	-	1.39 (	0.93-	2.06)
*ZEIGER	1	b	0	8	22	42	143	1.24 (	0.67-	2.28)

Appendix Table C31 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Control	Case	Control		
Partial Totals				7821	39623	7946	41413		
*prospective study									
REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps		
AGUDOT	2	b	4	0.51	2.72	0.33	0.3979		
ALBA	1	b	0	-0.09	11.15	0.72	0.7647		
ALFRA1	2	b	0	0.41	22.65	1.39	0.0498		
ARIF	2	b	10	-0.02	23.07	0.79	0.9227		
BECKET	6	b	7	0.27	67.46	0.75	0.0266		
BENCIV	3	b	2	0.43	116.67	8.35	0.0000		
BRABIN	2	b	1	0.06	58.33	0.66	0.6563		
BUTZ	7	b	1	0.17	9.31	0.00	0.6135		
CHEN1	1	b	0	0.25	11.14	0.08	0.4102		
CHEN2	37	b	6	0.51	12.65	1.54	0.0681		
DELL	2	b	0	0.42	18.30	1.18	0.0733		
DODGE	12	b	1	0.41	7.12	0.41	0.2794		
DOLD	21	b	1	0.10	113.12	0.54	0.3107		
EHRLI2	3	b	0	0.63	11.17	2.39	0.0363		
FAROOQ	1	b	0	0.25	72.93	0.60	0.0297		
*FERGUS	7	b	0	0.04	37.52	0.59	0.8106		
FLYNN1	1	b	0	0.23	47.28	0.21	0.1120		
FREEEM	2	b	2	0.74	97.16	32.42	0.0000		
GILLIL	4	m	4	-0.07	76.04	4.27	0.5268		
GILLIL	12	f	4	0.05	58.89	0.79	0.7081		
Subtotal	GILLIL			-0.35	134.93	5.05			
HU1	4	b	7	-0.22	12.73	1.91	0.4259		
HU2	23	b	3	0.44	31.16	2.34	0.0144		
KENDIR	1	b	0	0.34	99.03	3.18	0.0006		
KERSHA	7	b	1	1.14	11.69	11.08	0.0001		
KUEHR	6	b	1	-0.39	19.88	6.01	0.0855		
KUHR	4	b	0	0.70	5.57	1.58	0.0997		
LAM1	8	b	4	-0.08	79.06	4.85	0.4585		
LAM2	1	b	4	-0.09	53.37	3.57	0.4908		
LEE3	5	b	0	-0.19	513.76	66.01	0.0000		
LIS	1	b	0	0.31	37.30	0.76	0.0604		
MAIER	5	b	8	0.82	13.60	5.77	0.0026		
*MARTIN	5	m	1	0.56	11.93	1.86	0.0533		
*MARTIN	6	f	1	0.68	5.55	1.49	0.1075		
Subtotal	MARTIN			0.91	17.48	3.36			
*MCCON1	3	m	3	0.43	24.88	1.70	0.0339		
*MCCON1	4	f	3	-0.17	31.22	3.58	0.3300		
Subtotal	MCCON1			-0.08	56.10	5.27			
MCCON2	2	b	0	-0.58	1.65	0.93	0.4523		
*MCKEEV	4	b	0	0.27	1119.12	12.71	0.0000		
MONTEI	1	b	0	0.22	56.12	0.19	0.0946		
MOYES1	1	b	0	0.06	120.55	1.42	0.5411		
MOYES2	1	b	0	-0.06	115.09	5.67	0.5355		
NHANE3	28	b	6	0.15	22.48	0.01	0.4816		
NICOLA	1	b	0	0.07	68.08	0.56	0.5460		
OCONNE	1	b	0	0.25	33.98	0.27	0.1384		
*ODDY	1	b	4	0.24	96.50	0.54	0.0189		
QIAN	1	b	7	0.75	3.96	1.34	0.1372		
RASANE	3	b	3	0.46	27.24	2.44	0.0155		
RATAGE	1	b	0	0.07	10.00	0.10	0.8330		
RENNIE	1	b	6	0.02	13.41	0.28	0.9422		
ROSASV	1	b	0	0.45	3.25	0.27	0.4168		
SELCUK	2	b	6	0.30	112.79	2.08	0.0014		
SENNHA	1	b	0	0.23	58.71	0.22	0.0833		
*SHERMA	2	b	2	0.17	19.90	0.00	0.4603		
*SIGURS	1	b	0	0.18	3.26	0.00	0.7422		
*TAYLOR	4	b	0	-0.04	72.55	3.05	0.7281		
TSIMOY	1	b	0	0.04	2.59	0.04	0.9464		
VENNER	6	m	0	0.09	27.66	0.13	0.6182		
VENNER	3	f	0	0.18	28.98	0.00	0.3399		
Subtotal	VENNER			-0.06	56.63	0.14			
VONMAF	1	b	0	0.23	78.55	0.34	0.0417		
WIJGA	1	b	17	-0.19	31.22	3.84	0.2978		

Appendix Table C31 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
WITHER	1	b	0	0.18	92.49	0.01	0.0890
WOLF01	2	b	7	0.11	11.72	0.03	0.6981
WOLF02	2	b	7	0.30	11.12	0.21	0.3170
WOLF03	2	b	10	0.33	24.30	0.66	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.03	0.4914

RR data

	N	64
	NS	60
	Wt	4103.01
Het	Chi	211.07
Het	df	63
Het	P	***
Fixed	RR	1.18
	RRl	1.14
	RRu	1.22
	P	+++
Random	RR	1.21
	RRl	1.13
	RRu	1.30
	P	+++
Asymm	P	N.S.

Appendix Table C31 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)	
Physician Diagnosed Lifetime Asthma	
Adjusted	
1	1.00
2	1.00
3	1.00
4	1.00
5	1.00
6	1.00
7	1.00
8	1.00
9	1.00
10	1.00
11	1.00
12	1.00
13	1.00
14	1.00
15	1.00
16	1.00
17	1.00
18	1.00
19	1.00
20	1.00
21	1.00
22	1.00
23	1.00
24	1.00
25	1.00
26	1.00
27	1.00
28	1.00
29	1.00
30	1.00
31	1.00
32	1.00
33	1.00
34	1.00
35	1.00
36	1.00
37	1.00
38	1.00
39	1.00
40	1.00
41	1.00
42	1.00
43	1.00
44	1.00
45	1.00
46	1.00
47	1.00
48	1.00
49	1.00
50	1.00
51	1.00
52	1.00
53	1.00
54	1.00
55	1.00
56	1.00
57	1.00
58	1.00
59	1.00
60	1.00
61	1.00
62	1.00
63	1.00
64	1.00
65	1.00
66	1.00
67	1.00
68	1.00
69	1.00
70	1.00
71	1.00
72	1.00
73	1.00
74	1.00
75	1.00
76	1.00
77	1.00
78	1.00
79	1.00
80	1.00
81	1.00
82	1.00
83	1.00
84	1.00
85	1.00
86	1.00
87	1.00
88	1.00
89	1.00
90	1.00
91	1.00
92	1.00
93	1.00
94	1.00
95	1.00
96	1.00
97	1.00
98	1.00
99	1.00
100	1.00

RR data

[illegible]

Appendix Table C31 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

		Physician Diagnosed Lifetime Asthma						Total
		Adjusted						
		Country in Europe						
		UK	Italy	Germany	Scand	othWest	East/Bal	
	N	6	1	7	2	4	3	23
	NS	6	1	7	2	4	3	23
	Wt	1427.10	116.67	253.78	30.49	103.80	249.12	2180.97
Het	Chi	18.46	0.00	8.45	0.23	4.29	0.11	46.55
Het	df	5	0	6	1	3	2	22
Het	P	**	N.S.	N.S.	N.S.	N.S.	N.S.	**
Fixed	RR	1.28	1.54	1.10	1.54	1.08	1.38	1.27
	RRl	1.21	1.28	0.97	1.08	0.89	1.21	1.22
	RRu	1.35	1.85	1.25	2.20	1.31	1.56	1.33
Random	P	+++	+++	N.S.	+	N.S.	+++	+++
	RR	1.24	1.54	1.11	1.54	1.05	1.38	1.24
	RRl	1.06	1.28	0.94	1.08	0.81	1.21	1.14
	RRu	1.46	1.85	1.31	2.20	1.37	1.56	1.34
	P	++	+++	N.S.	+	N.S.	+++	+++
Between	Chi							15.01
Between	df							5
Between	P							*
		Country in Asia						Total
		FarEast	Cent/SE	MidlEast				
	N	7	1	1	9			
	NS	6	1	1	8			
	Wt	717.92	10.00	22.65	750.56			
Het	Chi	11.09	0.00	0.00	18.04			
Het	df	6	0	0	8			
Het	P	(*)	N.S.	N.S.	*			
Fixed	RR	0.87	1.07	1.51	0.89			
	RRl	0.81	0.58	1.00	0.83			
	RRu	0.94	1.99	2.28	0.96			
Random	P	---	N.S.	+	--			
	RR	0.96	1.07	1.51	1.03			
	RRl	0.83	0.58	1.00	0.88			
	RRu	1.12	1.99	2.28	1.21			
	P	N.S.	N.S.	+	N.S.			
Between	Chi				6.95			
Between	df				2			
Between	P				*			
		Start year of study						Total
		<1970	1970-79	1980-89	1990+	unknown		
	N	1	9	16	34	4	64	
	NS	1	8	16	31	4	60	
	Wt	33.98	250.33	380.91	2079.78	1358.01	4103.01	
Het	Chi	0.00	8.21	18.95	152.53	15.17	211.07	
Het	df	0	8	15	33	3	63	
Het	P	N.S.	N.S.	N.S.	***	**	***	
Fixed	RR	1.29	1.17	1.31	1.11	1.25	1.18	
	RRl	0.92	1.03	1.18	1.07	1.19	1.14	
	RRu	1.80	1.32	1.44	1.16	1.32	1.22	
Random	P	N.S.	+	+++	+++	+++	+++	
	RR	1.29	1.17	1.36	1.17	1.12	1.21	
	RRl	0.92	1.03	1.19	1.06	0.91	1.13	
	RRu	1.80	1.33	1.55	1.30	1.38	1.30	
	P	N.S.	+	+++	++	N.S.	+++	
Between	Chi						16.21	
Between	df						4	
Between	P						**	

Appendix Table C31 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Lifetime Asthma
Adjusted

Publication year
<1990 1990-94 1995-99 2000+ Total

RR data

	N	8	12	21	23	64
	NS	8	11	21	20	60
	Wt	178.22	383.39	1088.63	2452.77	4103.01
Het	Chi	16.35	16.33	36.58	141.60	211.07
Het	df	7	11	20	22	63
Het	P	*	N.S.	*	***	***
Fixed	RR	1.15	1.19	1.19	1.18	1.18
	RRl	0.99	1.08	1.12	1.13	1.14
	RRu	1.33	1.31	1.26	1.22	1.22
	P	(+)	+++	+++	+++	+++
Random	RR	1.26	1.22	1.20	1.20	1.21
	RRl	0.97	1.07	1.10	1.05	1.13
	RRu	1.65	1.40	1.31	1.36	1.30
	P	(+)	++	+++	++	+++
Between	Chi					0.20
Between	df					3
Between	P					N.S.

Study type
CC Pr CS Total

	N	7	14	43	64
	NS	7	12	41	60
	Wt	90.55	1502.29	2510.17	4103.01
Het	Chi	11.73	24.04	157.69	211.07
Het	df	6	13	42	63
Het	P	(*)	*	***	***
Fixed	RR	1.42	1.27	1.12	1.18
	RRl	1.15	1.21	1.08	1.14
	RRu	1.74	1.33	1.17	1.22
	P	+++	+++	+++	+++
Random	RR	1.44	1.20	1.20	1.21
	RRl	1.06	1.06	1.10	1.13
	RRu	1.96	1.34	1.31	1.30
	P	+	++	+++	+++
Between	Chi				17.62
Between	df				2
Between	P				***

Highest age in RR
0-9 10-14 15+ unknown Total

	N	15	23	25	1	64
	NS	15	22	22	1	60
	Wt	446.77	2220.68	1426.25	9.31	4103.01
Het	Chi	31.91	69.87	69.53	0.00	211.07
Het	df	14	22	24	0	63
Het	P	**	***	***	N.S.	***
Fixed	RR	1.17	1.28	1.04	1.18	1.18
	RRl	1.07	1.23	0.98	0.62	1.14
	RRu	1.28	1.34	1.09	2.24	1.22
	P	+++	+++	N.S.	N.S.	+++
Random	RR	1.21	1.26	1.17	1.18	1.21
	RRl	1.03	1.14	1.05	0.62	1.13
	RRu	1.43	1.39	1.30	2.24	1.30
	P	+	+++	++	N.S.	+++
Between	Chi					39.76
Between	df					3
Between	P					***

Appendix Table C31 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Lifetime Asthma
 Adjusted

general Population setting
 school medical allergy other Total

RR data

N	11	30	17	3	3	64
NS	10	28	17	2	3	60
Wt	264.60	2036.93	1691.24	67.01	43.23	4103.01
Het Chi	12.80	147.01	22.45	0.15	1.96	211.07
Het df	10	29	16	2	2	63
Het P	N.S.	***	N.S.	N.S.	N.S.	***
Fixed RR	1.23	1.09	1.29	1.16	1.35	1.18
RRl	1.09	1.04	1.23	0.91	1.00	1.14
RRu	1.38	1.14	1.35	1.47	1.82	1.22
P	+++	+++	+++	N.S.	+	+++
Random RR	1.27	1.18	1.25	1.16	1.35	1.21
RRl	1.09	1.05	1.15	0.91	1.00	1.13
RRu	1.47	1.31	1.37	1.47	1.82	1.30
P	++	++	+++	N.S.	+	+++
Between Chi						26.72
Between df						4
Between P						***

Respondent for ETS exposure
 child parent med rec mix/oth Total

N	6	39	3	16	64
NS	6	38	3	13	60
Wt	290.12	1990.67	1226.03	596.20	4103.01
Het Chi	5.56	121.18	0.03	47.14	211.07
Het df	5	38	2	15	63
Het P	N.S.	***	N.S.	***	***
Fixed RR	0.98	1.10	1.31	1.29	1.18
RRl	0.88	1.06	1.24	1.19	1.14
RRu	1.10	1.15	1.38	1.40	1.22
P	N.S.	+++	+++	+++	+++
Random RR	0.99	1.21	1.31	1.29	1.21
RRl	0.87	1.10	1.24	1.11	1.13
RRu	1.12	1.33	1.38	1.50	1.30
P	N.S.	+++	+++	++	+++
Between Chi					37.17
Between df					3
Between P					***

Child smokers
 exc/none included ignored Total

N	15	8	41	64
NS	12	7	41	60
Wt	417.40	252.27	3433.35	4103.01
Het Chi	18.93	12.82	174.99	211.07
Het df	14	7	40	63
Het P	N.S.	(*)	***	***
Fixed RR	1.08	1.24	1.19	1.18
RRl	0.98	1.10	1.15	1.14
RRu	1.18	1.41	1.23	1.22
P	N.S.	+++	+++	+++
Random RR	1.12	1.25	1.22	1.21
RRl	0.99	1.05	1.12	1.13
RRu	1.27	1.50	1.33	1.30
P	(+)	+	+++	+++
Between Chi				4.34
Between df				2
Between P				N.S.

Appendix Table C31 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Lifetime Asthma
 Adjusted

Physician diagnosis (lifetime)
 yes no/mixed Total

RR data

	N	64			64	
	NS	60			60	
	Wt	4103.01			4103.01	
Het	Chi	211.07			211.07	
Het	df	63			63	
Het	P	***			***	
Fixed	RR	1.18			1.18	
	RRL	1.14			1.14	
	RRu	1.22			1.22	
	P	+++			+++	
Random	RR	1.21			1.21	
	RRL	1.13			1.13	
	RRu	1.30			1.30	
	P	+++			+++	
Between	Chi					
Between	df					
Between	P			N.S.		
	Respondent for diagnosis (lifetime)					
	medrec	parent	child	mixed	Total	
	N	12	38	10	64	
	NS	11	36	9	60	
	Wt	1375.96	2184.43	390.10	152.52	4103.01
Het	Chi	13.88	114.93	17.43	7.49	211.07
Het	df	11	37	9	3	63
Het	P	N.S.	***	*	(*)	***
Fixed	RR	1.30	1.10	1.03	1.81	1.18
	RRL	1.23	1.06	0.93	1.54	1.14
	RRu	1.37	1.15	1.13	2.12	1.22
	P	+++	+++	N.S.	+++	+++
Random	RR	1.27	1.20	1.07	1.64	1.21
	RRL	1.14	1.10	0.91	1.21	1.13
	RRu	1.41	1.31	1.24	2.21	1.30
	P	+++	+++	N.S.	++	+++
Between	Chi					57.34
Between	df					3
Between	P					***
	Questionnaire for symptoms					
	ISAAC	ATS	other	Total		
	N	11	5	48	64	
	NS	11	4	45	60	
	Wt	994.24	82.15	3026.62	4103.01	
Het	Chi	33.74	2.41	103.75	211.07	
Het	df	10	4	47	63	
Het	P	***	N.S.	***	***	
Fixed	RR	0.93	1.17	1.27	1.18	
	RRL	0.88	0.94	1.23	1.14	
	RRu	0.99	1.46	1.32	1.22	
	P	-	N.S.	+++	+++	
Random	RR	1.05	1.17	1.25	1.21	
	RRL	0.91	0.94	1.17	1.13	
	RRu	1.22	1.46	1.34	1.30	
	P	N.S.	N.S.	+++	+++	
Between	Chi				71.18	
Between	df				2	
Between	P				***	

Appendix Table C31 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Lifetime Asthma
Adjusted

Analysis type
prevlncce onset Total

RR data

N	53	11	64
NS	51	9	60
Wt	2670.21	1432.81	4103.01
Het Chi	180.91	16.95	211.07
Het df	52	10	63
Het P	***	(*)	***
Fixed RR	1.13	1.27	1.18
RRl	1.09	1.21	1.14
RRu	1.17	1.34	1.22
P	+++	+++	+++
Random RR	1.22	1.20	1.21
RRl	1.12	1.06	1.13
RRu	1.32	1.35	1.30
P	+++	++	+++
Between Chi			13.22
Between df			1
Between P			***

Number of cases (lifetime asthma)
1-50 51-100 101-200 201+ unknown Total

N	7	10	14	31	2	64
NS	7	9	14	28	2	60
Wt	34.52	112.35	296.34	3619.79	40.01	4103.01
Het Chi	3.29	11.60	27.14	161.15	0.11	211.07
Het df	6	9	13	30	1	63
Het P	N.S.	N.S.	*	***	N.S.	***
Fixed RR	1.40	1.46	1.20	1.17	1.38	1.18
RRl	1.00	1.22	1.07	1.13	1.01	1.14
RRu	1.96	1.76	1.34	1.20	1.88	1.22
P	+	+++	++	+++	+	+++
Random RR	1.40	1.48	1.21	1.17	1.38	1.21
RRl	1.00	1.19	1.02	1.07	1.01	1.13
RRu	1.96	1.83	1.43	1.27	1.88	1.30
P	+	+++	+	+++	+	+++
Between Chi						7.79
Between df						4
Between P						(*)

Study adjusts for or is matched on sex
Yes No Total

N	29	35	64
NS	27	33	60
Wt	1024.70	3078.31	4103.01
Het Chi	53.46	157.56	211.07
Het df	28	34	63
Het P	**	***	***
Fixed RR	1.17	1.18	1.18
RRl	1.10	1.14	1.14
RRu	1.25	1.22	1.22
P	+++	+++	+++
Random RR	1.17	1.25	1.21
RRl	1.07	1.13	1.13
RRu	1.28	1.37	1.30
P	+++	+++	+++
Between Chi			0.06
Between df			1
Between P			N.S.

Appendix Table C31 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Lifetime Asthma
 Adjusted

Study adjusts for or is matched on age
 Yes No Total

RR data

N	18	46	64
NS	16	44	60
Wt	592.73	3510.28	4103.01
Het Chi	23.50	183.81	211.07
Het df	17	45	63
Het P	N.S.	***	***
Fixed RR	1.09	1.19	1.18
RRl	1.01	1.15	1.14
RRu	1.19	1.23	1.22
P	+	+++	+++
Random RR	1.10	1.25	1.21
RRl	0.99	1.15	1.13
RRu	1.22	1.36	1.30
P	(+)	+++	+++
Between Chi			3.77
Between df			1
Between P			(*)

Study adjusts for or is matched on race

N	12	52	64
NS	10	50	60
Wt	379.82	3723.19	4103.01
Het Chi	24.56	186.37	211.07
Het df	11	51	63
Het P	*	***	***
Fixed RR	1.16	1.18	1.18
RRl	1.05	1.14	1.14
RRu	1.28	1.22	1.22
P	++	+++	+++
Random RR	1.20	1.22	1.21
RRl	1.02	1.13	1.13
RRu	1.41	1.31	1.30
P	+	+++	+++
Between Chi			0.14
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	13	51	64
NS	11	49	60
Wt	628.21	3474.80	4103.01
Het Chi	21.97	184.89	211.07
Het df	12	50	63
Het P	*	***	***
Fixed RR	1.09	1.19	1.18
RRl	1.01	1.16	1.14
RRu	1.18	1.24	1.22
P	+	+++	+++
Random RR	1.09	1.25	1.21
RRl	0.98	1.15	1.13
RRu	1.22	1.35	1.30
P	N.S.	+++	+++
Between Chi			4.21
Between df			1
Between P			*

Appendix Table C31 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Lifetime Asthma
 Adjusted

Study adjusts for or is matched on SES
 Yes No Total

RR data

N	20	44	64
NS	19	41	60
Wt	557.05	3545.96	4103.01
Het Chi	42.21	168.64	211.07
Het df	19	43	63
Het P	**	***	***
Fixed RR	1.16	1.18	1.18
RRl	1.06	1.14	1.14
RRu	1.26	1.22	1.22
P	+++	+++	+++
Random RR	1.23	1.21	1.21
RRl	1.08	1.11	1.13
RRu	1.41	1.31	1.30
P	++	+++	+++
Between Chi			0.23
Between df			1
Between P			N.S.

Study adjusts for family medical history

N	20	44	64
NS	19	41	60
Wt	845.92	3257.09	4103.01
Het Chi	29.78	181.29	211.07
Het df	19	43	63
Het P	(*)	***	***
Fixed RR	1.18	1.18	1.18
RRl	1.10	1.14	1.14
RRu	1.26	1.22	1.22
P	+++	+++	+++
Random RR	1.19	1.22	1.21
RRl	1.09	1.11	1.13
RRu	1.31	1.33	1.30
P	+++	+++	+++
Between Chi			0.00
Between df			1
Between P			N.S.

Study adjusts for family composition

N	11	53	64
NS	11	49	60
Wt	347.32	3755.69	4103.01
Het Chi	10.92	199.87	211.07
Het df	10	52	63
Het P	N.S.	***	***
Fixed RR	1.21	1.18	1.18
RRl	1.09	1.14	1.14
RRu	1.35	1.21	1.22
P	+++	+++	+++
Random RR	1.21	1.22	1.21
RRl	1.08	1.12	1.13
RRu	1.35	1.31	1.30
P	+++	+++	+++
Between Chi			0.28
Between df			1
Between P			N.S.

Appendix Table C31 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Physician Diagnosed Lifetime Asthma

Adjusted

Study adjusts for cooking, heating, air conditioning

Yes No Total

RR data

	N	9	55	64
	NS	9	51	60
	Wt	332.94	3770.07	4103.01
Het	Chi	7.28	191.00	211.07
Het	df	8	54	63
Het	P	N.S.	***	***
Fixed	RR	1.42	1.16	1.18
	RRl	1.28	1.12	1.14
	RRu	1.58	1.20	1.22
	P	+++	+++	+++
Random	RR	1.42	1.18	1.21
	RRl	1.28	1.10	1.13
	RRu	1.58	1.27	1.30
	P	+++	+++	+++
Between	Chi			12.79
Between	df			1
Between	P			***

Study adjusts for housing quality, crowding, damp, mould

	N	9	55	64
	NS	9	51	60
	Wt	279.70	3823.31	4103.01
Het	Chi	22.62	165.73	211.07
Het	df	8	54	63
Het	P	**	***	***
Fixed	RR	1.55	1.16	1.18
	RRl	1.38	1.12	1.14
	RRu	1.74	1.19	1.22
	P	+++	+++	+++
Random	RR	1.46	1.18	1.21
	RRl	1.17	1.10	1.13
	RRu	1.82	1.26	1.30
	P	+++	+++	+++
Between	Chi			22.72
Between	df			1
Between	P			***

Study adjusts for pets, animal contact, farming

	N	7	57	64
	NS	7	53	60
	Wt	329.09	3773.93	4103.01
Het	Chi	24.39	172.37	211.07
Het	df	6	56	63
Het	P	***	***	***
Fixed	RR	1.44	1.16	1.18
	RRl	1.29	1.12	1.14
	RRu	1.60	1.20	1.22
	P	+++	+++	+++
Random	RR	1.30	1.20	1.21
	RRl	1.03	1.11	1.13
	RRu	1.66	1.28	1.30
	P	+	+++	+++
Between	Chi			14.31
Between	df			1
Between	P			***

Appendix Table C31 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Lifetime Asthma

Adjusted
 Study adjusts for child's medical history
 Yes No Total

RR data

N	21	43	64
NS	19	41	60
Wt	908.82	3194.19	4103.01
Het Chi	39.06	171.69	211.07
Het df	20	42	63
Het P	**	***	***
Fixed RR	1.16	1.18	1.18
RRl	1.09	1.14	1.14
RRu	1.24	1.23	1.22
P	+++	+++	+++
Random RR	1.17	1.24	1.21
RRl	1.06	1.13	1.13
RRu	1.29	1.35	1.30
P	++	+++	+++
Between Chi			0.33
Between df			1
Between P			N.S.

Study adjusts for in utero exposure

N	4	60	64
NS	3	57	60
Wt	170.14	3932.87	4103.01
Het Chi	1.64	203.88	211.07
Het df	3	59	63
Het P	N.S.	***	***
Fixed RR	0.99	1.19	1.18
RRl	0.85	1.15	1.14
RRu	1.15	1.23	1.22
P	N.S.	+++	+++
Random RR	0.99	1.23	1.21
RRl	0.85	1.15	1.13
RRu	1.15	1.32	1.30
P	N.S.	+++	+++
Between Chi			5.55
Between df			1
Between P			*

Study adjusts for in life exposure

N	10	54	64
NS	9	51	60
Wt	555.31	3547.70	4103.01
Het Chi	18.15	192.89	211.07
Het df	9	53	63
Het P	*	***	***
Fixed RR	1.17	1.18	1.18
RRl	1.08	1.14	1.14
RRu	1.27	1.22	1.22
P	+++	+++	+++
Random RR	1.15	1.23	1.21
RRl	1.01	1.14	1.13
RRu	1.31	1.33	1.30
P	+	+++	+++
Between Chi			0.03
Between df			1
Between P			N.S.

Appendix Table C31 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Physician Diagnosed Lifetime Asthma

Adjusted

Exposed group : Source/who is smoker

	Biochem	TotETS	AnyHh	AnyPar	Mother	Father	Total
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RR data

N	2	3	33	9	14	3	64
NS	2	3	31	9	13	2	60
Wt	33.65	25.50	2232.43	206.43	1544.41	60.59	4103.01
Het Chi	1.71	2.94	137.74	5.35	25.64	1.47	211.07
Het df	1	2	32	8	13	2	63
Het P	N.S.	N.S.	***	N.S.	*	N.S.	***
Fixed RR	1.36	1.65	1.08	1.28	1.30	1.19	1.18
RRl	0.97	1.12	1.04	1.12	1.24	0.93	1.14
RRu	1.91	2.43	1.13	1.47	1.37	1.54	1.22
P	(+)	+	+++	+++	+++	N.S.	+++
Random RR	1.41	1.58	1.16	1.28	1.27	1.19	1.21
RRl	0.89	0.96	1.05	1.12	1.13	0.93	1.13
RRu	2.23	2.60	1.28	1.47	1.43	1.54	1.30
P	N.S.	(+)	++	+++	+++	N.S.	+++
Between Chi							36.23
Between df							5
Between P							***

	lif/ev	age<7y	current	unspec	other	Total
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N	17	5	17	20	5	64
NS	16	4	16	20	4	60
Wt	1671.89	80.26	596.99	1632.97	120.91	4103.01
Het Chi	23.51	24.18	36.36	73.73	9.30	211.07
Het df	16	4	16	19	4	63
Het P	N.S.	***	**	***	(*)	***
Fixed RR	1.26	1.14	1.36	1.04	1.27	1.18
RRl	1.20	0.91	1.25	0.99	1.06	1.14
RRu	1.32	1.41	1.47	1.10	1.52	1.22
P	+++	N.S.	+++	(+)	++	+++
Random RR	1.19	1.38	1.32	1.14	1.30	1.21
RRl	1.09	0.78	1.15	1.02	0.99	1.13
RRu	1.31	2.44	1.51	1.27	1.72	1.30
P	+++	N.S.	+++	+	(+)	+++
Between Chi						44.00
Between df						4
Between P						***

Unexposed group : who is smoker

	NoHhMemb	NoParent	NotSpPar	Total
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N	38	11	15	64
NS	36	10	14	60
Wt	2291.58	263.06	1548.37	4103.01
Het Chi	148.44	6.01	26.56	211.07
Het df	37	10	14	63
Het P	***	N.S.	*	***
Fixed RR	1.09	1.25	1.30	1.18
RRl	1.05	1.11	1.24	1.14
RRu	1.14	1.41	1.37	1.22
P	+++	+++	+++	+++
Random RR	1.18	1.25	1.28	1.21
RRl	1.08	1.11	1.14	1.13
RRu	1.30	1.41	1.44	1.30
P	+++	+++	+++	+++
Between Chi				30.07
Between df				2
Between P				***

Appendix Table C31 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Lifetime Asthma
Adjusted

Unexposed group : time
non never non+othr NA Total

RR data

	N	52	10		2	64	
	NS	49	9		2	60	
	Wt	2620.85	1448.51		33.65	4103.01	
Het	Chi	181.12	3.53		1.71	211.07	
Het	df	51	9		1	63	
Het	P	***	N.S.		N.S.	***	
Fixed	RR	1.11	1.31		1.36	1.18	
	RRl	1.07	1.24		0.97	1.14	
	RRu	1.16	1.37		1.91	1.22	
	P	+++	+++		(+)	+++	
Random	RR	1.19	1.31		1.41	1.21	
	RRl	1.10	1.24		0.89	1.13	
	RRu	1.30	1.37		2.23	1.30	
	P	+++	+++		N.S.	+++	
Between	Chi					24.73	
Between	df					2	
Between	P					***	
		Number of adjustment variables					
		0	1	2	3-5	6-9	10+ Total
	N	30	8	3	10	10	3 64
	NS	29	7	3	8	10	3 60
	Wt	2790.78	236.92	233.73	481.07	281.93	78.59 4103.01
Het	Chi	103.09	21.98	8.12	21.48	10.35	3.69 211.07
Het	df	29	7	2	9	9	2 63
Het	P	***	**	*	*	N.S.	N.S. ***
Fixed	RR	1.15	1.16	1.71	1.09	1.32	1.02 1.18
	RRl	1.11	1.02	1.51	1.00	1.17	0.82 1.14
	RRu	1.19	1.31	1.95	1.19	1.48	1.28 1.22
	P	+++	+	+++	(+)	+++	N.S. +++
Random	RR	1.18	1.30	1.63	1.12	1.32	1.03 1.21
	RRl	1.08	0.99	1.23	0.97	1.15	0.76 1.13
	RRu	1.30	1.72	2.18	1.30	1.51	1.39 1.30
	P	+++	(+)	+++	N.S.	+++	N.S. +++
Between	Chi						42.37
Between	df						5
Between	P						***
	RR adjusted for sex						
		Yes	No	Total			
	N	19	45	64			
	NS	19	41	60			
	Wt	692.43	3410.59	4103.01			
Het	Chi	37.29	172.43	211.07			
Het	df	18	44	63			
Het	P	**	***	***			
Fixed	RR	1.23	1.17	1.18			
	RRl	1.14	1.13	1.14			
	RRu	1.32	1.21	1.22			
	P	+++	+++	+++			
Random	RR	1.21	1.21	1.21			
	RRl	1.07	1.12	1.13			
	RRu	1.37	1.32	1.30			
	P	++	+++	+++			
Between	Chi			1.36			
Between	df			1			
Between	P			N.S.			

Appendix Table C31 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Lifetime Asthma
 Adjusted

RR adjusted for age
 Yes No Total

RR data

	N	17	47	64
	NS	15	45	60
	Wt	581.58	3521.44	4103.01
Het	Chi	23.13	184.60	211.07
Het	df	16	46	63
Het	P	N.S.	***	***
Fixed	RR	1.10	1.19	1.18
	RRl	1.01	1.15	1.14
	RRu	1.19	1.23	1.22
	P	+	+++	+++
Random	RR	1.11	1.24	1.21
	RRl	1.00	1.15	1.13
	RRu	1.23	1.35	1.30
	P	(+)	+++	+++
Between	Chi			3.35
Between	df			1
Between	P			(*)

RR adjusted for other ETS

	N	4	60	64
	NS	3	57	60
	Wt	150.37	3952.64	4103.01
Het	Chi	1.78	203.57	211.07
Het	df	3	59	63
Het	P	N.S.	***	***
Fixed	RR	0.97	1.19	1.18
	RRl	0.83	1.15	1.14
	RRu	1.14	1.22	1.22
	P	N.S.	+++	+++
Random	RR	0.97	1.23	1.21
	RRl	0.83	1.14	1.13
	RRu	1.14	1.32	1.30
	P	N.S.	+++	+++
Between	Chi			5.72
Between	df			1
Between	P			*

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

	N	32	32	64
	NS	29	31	60
	Wt	1289.61	2813.40	4103.01
Het	Chi	102.78	103.47	211.07
Het	df	31	31	63
Het	P	***	***	***
Fixed	RR	1.24	1.15	1.18
	RRl	1.17	1.11	1.14
	RRu	1.31	1.19	1.22
	P	+++	+++	+++
Random	RR	1.24	1.18	1.21
	RRl	1.12	1.08	1.13
	RRu	1.39	1.29	1.30
	P	+++	+++	+++
Between	Chi			4.82
Between	df			1
Between	P			*

Appendix Table C31 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Lifetime Asthma
 Adjusted

	Original	Derivation of RR/CI		Other	Total
		Numbers	SumNumbs		

RR data

	N	26	20	7	11	64
	NS	25	19	6	10	60
	Wt	1026.72	1229.33	229.95	1617.01	4103.01
Het	Chi	58.97	61.49	2.89	37.90	211.07
Het	df	25	19	6	10	63
Het	P	***	***	N.S.	***	***
Fixed	RR	1.28	1.00	1.13	1.27	1.18
	RRl	1.21	0.95	0.99	1.21	1.14
	RRu	1.36	1.06	1.28	1.34	1.22
	P	+++	N.S.	(+)	+++	+++
Random	RR	1.25	1.18	1.13	1.21	1.21
	RRl	1.13	1.04	0.99	1.05	1.13
	RRu	1.38	1.35	1.28	1.40	1.30
	P	+++	+	(+)	++	+++
Between	Chi					49.81
Between	df					3
Between	P					***

Appendix Table C31 - 4

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Lifetime Asthma
 Unadjusted

REF	NRR	X	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
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	-
ARIF	1 x		b	0	16	all	NAmer	2001	2004	CS	0	AnyHh	NoHhMemb	unspec	non	-
BECKET	5 x		b	0	17	all	NAmer	1993	1996	CS	0	AnyHh	NoHhMemb	ever	never	-
BENCIV	1 x		b	8	14	all	Eu:Ita	2001	2004	CS	0	Mother	NotMothr	unspec	non	-
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	-
FREEEM1	1 x		b	7	11	all	NAmer	1998	2003	CS	0	AnyHh	NoHhMemb	current	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	-
LEE3	5		b	6	15	all	As:FE	2001	2003	CS	0	AnyHh	NoHhMemb	unspec	non	-
LIS	1		b	12	14	all	Eu:est	1992	1997	CS	0	Mother	NotMothr	unspec	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	-
MCCON1	3		m	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	non	-
MCCON1	4		f	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	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	-
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	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	-
NHANE3	37 x		b	4	16	w+b	NAmer	1988	2001	CS	0	Biochem	Low	-	-	blood
NICOLA	1		b	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	non	-
OCONE	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	-
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never	-
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	-
WIJGA	1		b	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WITHER	1		b	14	16	all	Eu:UK	1995	1998	CS	0	AnyHh	NoHhMemb	current	non	-
WOLF01	2		b	8	8	all	Eu:Ger	1977	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF02	2		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-
WOLF03	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 C31 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Lifetime Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	1	b	0	68	70	34	32	0.91 (	0.51-	1.64)
ALFRA1	2	b	0	-	-	-	-	1.51 (	1.04-	2.37)
ARIF	1	b	0	46	-	161	-	1.45 (	1.01-	2.08)
BECKET	5	b	0	133	826	352	3223	1.47 (	1.19-	1.83)
BENCIV	1	b	0	290	1162	413	2535	1.53 (	1.30-	1.81)
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)
FREEM1	1	b	0	-	-	-	-	2.27 (	1.89-	2.74)
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)
LEE3	5	b	0	1114	16604	1094	13428	0.82 (	0.76-	0.90)
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)
*MCCON1	3	m	3	-	-	-	-	1.53 (	1.03-	2.26)
*MCCON1	4	f	3	-	-	-	-	0.84 (	0.59-	1.19)
Subtotal	MCCON1							1.10 (	0.84-	1.42)
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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)
NICOLA	1	b	0	126	1043	192	1710	1.08 (	0.85-	1.36)
OCONNE	1	b	0	264	137	136	91	1.29 (	0.92-	1.80)
*ODDY	1	b	4	-	-	-	-	1.27 (	1.04-	1.55)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
WIJGA	1	b	17	-	-	-	-	0.83 (	0.59-	1.19)
WITHER	1	b	0	202	633	296	1107	1.19 (	0.97-	1.46)
WOLF01	2	b	7	-	-	-	-	1.12 (	0.63-	1.98)
WOLF02	2	b	7	-	-	-	-	1.35 (	0.75-	2.43)
WOLF03	2	b	10	-	-	-	-	1.39 (	0.93-	2.06)
*ZEIGER	1	b	0	8	22	42	143	1.24 (	0.67-	2.28)

Appendix Table C31 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI
				Case	Control	Case	Control		
Partial Totals				8100	59285	8374	66066		
*prospective study									
REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps		
AGUDOT 2		b	4	0.51	2.72	0.30	0.3979		
ALBA 1		b	0	-0.09	11.15	0.82	0.7647		
ALFRA1 2		b	0	0.41	22.65	1.21	0.0498		
ARIF 1		b	0	0.37	29.44	1.07	0.0438		
BECKET 5		b	0	0.39	84.17	3.61	0.0004		
BENCIV 1		b	0	0.43	140.36	8.44	0.0000		
BRABIN 1		b	0	0.09	60.59	0.52	0.4910		
BUTZ 6		b	0	0.19	9.83	0.00	0.5487		
CHEN1 1		b	0	0.25	11.14	0.05	0.4102		
CHEN2 11		b	0	0.13	18.71	0.05	0.5742		
DELL 2		b	0	0.42	18.30	1.03	0.0733		
DODGE 9		b	0	0.48	7.26	0.63	0.2000		
DOLD 17		b	0	0.14	114.83	0.18	0.1294		
EHRLI2 3		b	0	0.63	11.17	2.22	0.0363		
FAROOQ 1		b	0	0.25	72.93	0.39	0.0297		
*FERGUS 7		b	0	0.04	37.52	0.76	0.8106		
FLYNN1 1		b	0	0.23	47.28	0.12	0.1120		
FREEM1 1		b	0	0.82	111.41	45.43	0.0000		
GILLIL 59		m	0	-0.04	79.01	4.00	0.6979		
GILLIL 68		f	0	0.22	63.42	0.08	0.0831		
Subtotal GILLIL				-0.19	142.43	4.08			
HU1 2		b	0	0.20	19.79	0.01	0.3785		
HU2 21		b	0	0.84	29.22	12.80	0.0000		
KENDIR 1		b	0	0.34	99.03	2.61	0.0006		
KERSHA 3		b	0	1.17	11.87	11.56	0.0001		
KUEHR 2		b	0	-0.34	20.93	5.77	0.1158		
KUHR 4		b	0	0.70	5.57	1.49	0.0997		
LAM1 4		b	0	-0.11	82.75	6.99	0.3195		
LAM2 1		b	4	-0.09	53.37	4.05	0.4908		
LEE3 5		b	0	-0.19	513.76	72.41	0.0000		
LIS 1		b	0	0.31	37.30	0.59	0.0604		
MAIER 6		b	0	0.74	19.09	6.01	0.0012		
*MARTIN 1		m	0	0.49	14.81	1.41	0.0593		
*MARTIN 2		f	0	0.58	6.43	1.02	0.1422		
Subtotal MARTIN				0.71	21.23	2.43			
*MCCON1 3		m	3	0.43	24.88	1.48	0.0339		
*MCCON1 4		f	3	-0.17	31.22	3.95	0.3300		
Subtotal MCCON1				-0.11	56.10	5.43			
MCCON2 2		b	0	-0.58	1.65	0.97	0.4523		
*MCKEEV 4		b	0	0.27	1119.12	8.99	0.0000		
MONTEI 1		b	0	0.22	56.12	0.10	0.0946		
MOYES1 1		b	0	0.06	120.55	1.90	0.5411		
MOYES2 1		b	0	-0.06	115.09	6.57	0.5355		
NHANE3 37		b	0	0.05	110.40	1.78	0.5693		
NICOLA 1		b	0	0.07	68.08	0.79	0.5460		
OCONNE 1		b	0	0.25	33.98	0.18	0.1384		
*ODDY 1		b	4	0.24	96.50	0.32	0.0189		
QIAN 1		b	7	0.75	3.96	1.27	0.1372		
RASANE 1		b	0	0.40	41.70	1.99	0.0099		
RATAGE 1		b	0	0.07	10.00	0.13	0.8330		
RENNIE 1		b	6	0.02	13.41	0.35	0.9422		
ROSASV 1		b	0	0.45	3.25	0.24	0.4168		
SELCUK 1		b	0	0.34	129.52	3.39	0.0001		
SENNHA 1		b	0	0.23	58.71	0.12	0.0833		
*SHERMA 2		b	2	0.17	19.90	0.00	0.4603		
*SIGURS 1		b	0	0.18	3.26	0.00	0.7422		
*TAYLOR 4		b	0	-0.04	72.55	3.58	0.7281		
TSIMOY 1		b	0	0.04	2.59	0.05	0.9464		
VENNER 6		m	0	0.09	27.66	0.21	0.6182		
VENNER 3		f	0	0.18	28.98	0.00	0.3399		
Subtotal VENNER				-0.09	56.63	0.21			
VONMAF 1		b	0	0.23	78.55	0.19	0.0417		
WIJGA 1		b	17	-0.19	31.22	4.22	0.2978		

Appendix Table C31 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
WITHER	1	b	0	0.18	92.49	0.00	0.0890
WOLF01	2	b	7	0.11	11.72	0.05	0.6981
WOLF02	2	b	7	0.30	11.12	0.16	0.3170
WOLF03	2	b	10	0.33	24.30	0.53	0.1046
*ZEIGER	1	b	0	0.21	10.38	0.01	0.4914

RR data

	N	64
	NS	60
	Wt	4320.65
Het	Chi	241.12
Het	df	63
Het	P	***
Fixed	RR	1.20
	RRl	1.16
	RRu	1.23
	P	+++
Random	RR	1.24
	RRl	1.16
	RRu	1.33
	P	+++
Asymm	P	N.S.

Appendix Table C31 - 6

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Lifetime Asthma
Unadjusted

RR data

[illegible]

Appendix Table C31 - 6

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Lifetime Asthma
 Unadjusted

Start year of study
 <1970 1970-79 1980-89 1990+ unknown Total

RR data

	N	1	9	16	34	4	64
	NS	1	8	16	31	4	60
	Wt	33.98	254.23	469.31	2205.12	1358.01	4320.65
Het	Chi	0.00	7.83	31.59	177.07	15.17	241.12
Het	df	0	8	15	33	3	63
Het	P	N.S.	N.S.	**	***	**	***
Fixed	RR	1.29	1.17	1.30	1.15	1.25	1.20
	RRl	0.92	1.03	1.18	1.10	1.19	1.16
	RRu	1.80	1.32	1.42	1.20	1.32	1.23
	P	N.S.	+	+++	+++	+++	+++
Random	RR	1.29	1.17	1.43	1.21	1.12	1.24
	RRl	0.92	1.03	1.21	1.09	0.91	1.16
	RRu	1.80	1.32	1.68	1.34	1.38	1.33
	P	N.S.	+	+++	+++	N.S.	+++
Between	Chi						9.46
Between	df						4
Between	P						(*)
	Study type						
	CC	Pr	CS	Total			
	N	7	14	43	64		
	NS	7	12	41	60		
	Wt	91.25	1504.26	2725.14	4320.65		
Het	Chi	12.34	32.96	182.17	241.12		
Het	df	6	13	42	63		
Het	P	(*)	**	***	***		
Fixed	RR	1.43	1.28	1.15	1.20		
	RRl	1.16	1.22	1.11	1.16		
	RRu	1.75	1.34	1.19	1.23		
	P	+++	+++	+++	+++		
Random	RR	1.45	1.23	1.23	1.24		
	RRl	1.06	1.08	1.12	1.16		
	RRu	1.99	1.42	1.34	1.33		
	P	+	++	+++	+++		
Between	Chi				13.64		
Between	df				2		
Between	P				**		

Appendix Table C31 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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	ANNES2	ANNESI	ARSHAD	AZIZI	BALL	BARRET	BENER	BERGMA	BURCHF	CALL	CELEDO
	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEBENE	DEKKER	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	ECE
	EHRLI1	FAGBUL	FARBE1	FARBE2	FARBE3	FORAST	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5
	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN	HABY	HAJNAL	HALONE	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JENKIN
	JONES	KABESC	KALYO2	KAPLAN	KARUNA	KASPER	KAY	KIVITY	KNIGHT	LAU	LEE1	LEE2	LEEDER	LEEN	LEROUX	LEVES1
	LEVES2	LEVES3	LILLJE	LINDFO	LISTER	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	MURRAY	NILSSO	NITTA
	NYSTAD	OHARA	OLIVET	PALMIE	PETERS	PIC	PIROGO	POKHAR	PONSON	RIBEIR	RONCH1	RONCH2	RONCH3	RONMA1	RONMA2	RONMA3
	RUDNIK	SANZOR	SARRAZ	SCHMIT	SHAMS2	SHAMSS	SHIVA	SHOHAT	SOMERV	SOTOQU	SOYSET	SPENGL	SQUILL	STANHO	STERN1	STODDA
	STRACH	STURM	TARIQ	TIMONE	TOMINA	ULRIK	VARELA	VAVILI	VERHOE	VOLKME	WANG	WARKE	WEITZ1	WEITZ2	WICKMA	WILLE1
	WILLE2	YANG	ZHENG													
3	CUNNI2	JAAKK2	KELLY	XU	YUAN											
5	AKCAKA	BURR	FIELDE	FLYNN2	FREEM2	KALYO1	KEARNE	MONTEF	SCHENK	STAZI	STERN2	ZEJDA	ZHANG			
15	ALFRA2	SPIEKE														

Appendix Table C31 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Lifetime Asthma
Potentially overlapping studies

REF REFGP PRINC			OVERLAP														
GILLIL	GILLIL	1	MCCON1/GILLIL														
MCCON1	MCCON1	1	MCCON1/GILLIL														
BRABIN	BRABIN	1	KELLY/BRABIN														
KUEHR	KUEHR	1	KUEHR/SPIEKE														
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2														
WOLF01	WOLF01	1	WOLF01/WOLF02/WOLF03														
WOLF02	WOLF02	1	WOLF01/WOLF02/WOLF03														
WOLF03	WOLF03	1	WOLF01/WOLF02/WOLF03														
NICOLA	NICOLA	1	KABESC/NICOLA														
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
FIELD	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
FREEEM	1	b	4	5	all	NAmer	1998	2003	CS	2	AnyHh	NoHhMemb	current	non	-	*	n
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
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
ZHANG	1	b	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	-	1.04	n
Unadjusted - insufficient data for metaanalysis: as for adjusted plus the following																	
REF	NRR	SEX	AGE	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 C32 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C5 - 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 C32 - 1

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

REF	NRR	CompC5	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never
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
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	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
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	current	non
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never
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 C32 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	2	b	0	32	30	70	72	1.10 (	0.60-	1.99)
ALFRA1	2	b	0	-	-	-	-	1.51 (	1.04-	2.37)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
FAR00Q	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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
OCONNE	1	b	0	264	137	136	91	1.29 (	0.92-	1.80)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
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				3632	16648	4824	22169			

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.18	0.3979
ALBA	2	b	0	0.09	10.78	0.29	0.7608
ALFRA1	2	b	0	0.41	22.65	0.55	0.0498
BENCIV	3	b	2	0.43	116.67	3.60	0.0000
BUTZ	4	b	0	0.21	12.89	0.02	0.4416
CHEN2	34	b	6	0.51	15.10	0.99	0.0463
DELL	2	b	0	0.42	18.30	0.48	0.0733
DODGE	12	b	1	0.41	7.12	0.16	0.2794
DOLD	7	b	0	0.19	92.36	0.45	0.0734
EHRLI2	4	b	0	0.69	10.00	1.91	0.0284
FAR00Q	1	b	0	0.25	72.93	0.00	0.0297
*FERGUS	7	b	0	0.04	37.52	1.77	0.8106
HU1	4	b	7	-0.22	12.73	2.92	0.4259
HU2	23	b	3	0.44	31.16	1.03	0.0144
KERSHA	5	b	1	0.89	19.22	7.67	0.0001
KUEHR	6	b	1	-0.39	19.88	8.19	0.0855
KUHR	4	b	0	0.70	5.57	1.09	0.0997
LAM1	18	b	4	0.28	10.02	0.00	0.3796
LAM2	9	b	4	-0.14	42.22	6.60	0.3655
LIS	1	b	0	0.31	37.30	0.10	0.0604
*MARTIN	5	m	1	0.56	11.93	1.10	0.0533
*MARTIN	6	f	1	0.68	5.55	1.01	0.1075
Subtotal	MARTIN			0.73	17.48	2.11	

Appendix Table C32 - 2

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

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
*MCCON1	2	b	5	-0.01	24.89	1.76	0.9600
MCCON2	1	b	0	0.79	3.43	0.99	0.1420
*MCKEEV	4	b	0	0.27	1119.12	0.24	0.0000
MONTEI	1	b	0	0.22	56.12	0.06	0.0946
OCONNE	1	b	0	0.25	33.98	0.00	0.1384
QIAN	1	b	7	0.75	3.96	0.95	0.1372
RASANE	3	b	3	0.46	27.24	1.17	0.0155
RATAGE	2	b	0	-0.24	9.92	2.40	0.4582
RENNIE	1	b	6	0.02	13.41	0.75	0.9422
ROSASV	1	b	0	0.45	3.25	0.12	0.4168
*SHERMA	2	b	2	0.17	19.90	0.16	0.4603
*SIGURS	1	b	0	0.18	3.26	0.02	0.7422
*TAYLOR	4	b	0	-0.04	72.55	6.40	0.7281
VENNER	6	m	0	0.09	27.66	0.72	0.6182
VENNER	3	f	0	0.18	28.98	0.18	0.3399
Subtotal	VENNER			-0.24	56.63	0.90	
WITHER	6	b	5	0.41	50.42	1.12	0.0040

RR data

	N	38
	NS	36
	Wt	2112.67
Het	Chi	57.18
Het	df	37
Het	P	*
Fixed	RR	1.29
	RRl	1.24
	RRu	1.35
	P	+++
Random	RR	1.28
	RRl	1.19
	RRu	1.37
	P	+++
Asymm	P	N.S.

Appendix Table C32 - 3

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

RR data

	N	38			
	NS	36			
	Wt	2112.67			
Het	Chi	57.18			
Het	df	37			
Het	P	*			
Fixed	RR	1.29			
	RRl	1.24			
	RRu	1.35			
	P	+++			
Random	RR	1.28			
	RRl	1.19			
	RRu	1.37			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	34	2	2	38
	NS	34	2	2	38
	Wt	2038.55	39.58	34.53	2112.67
Het	Chi	54.16	1.80	1.19	57.18
Het	df	33	1	1	37
Het	P	*	N.S.	N.S.	*
Fixed	RR	1.29	1.26	1.30	1.29
	RRl	1.24	0.93	0.93	1.24
	RRu	1.35	1.73	1.81	1.35
	P	+++	N.S.	N.S.	+++
Random	RR	1.27	1.32	1.33	1.28
	RRl	1.18	0.85	0.89	1.19
	RRu	1.38	2.05	2.00	1.37
	P	+++	N.S.	N.S.	+++
Between	Chi				0.02
Between	df				2
Between	P				N.S.

Appendix Table C32 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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	ANNES2	ANNESI	ARSHAD	AZIZI	BALL	BARRET	BENER	BERGMA	BURCHF	CALL	CELEDO
	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEBENE	DEKKER	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	ECE
	EHRLI1	FAGBUL	FARBE1	FARBE2	FARBE3	FORAST	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5
	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN	HABY	HAJNAL	HALONE	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JENKIN
	JONES	KABESC	KALY02	KAPLAN	KARUNA	KASPER	KAY	KIVITY	KNIGHT	LAU	LEE1	LEE2	LEEDER	LEEN	LEROUX	LEVES1
	LEVES2	LEVES3	LILLJE	LINDFO	LISTER	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	MURRAY	NILSSO	NITTA
	NYSTAD	OHARA	OLIVET	PALMIE	PETERS	PIC	PIROGO	POKHAR	PONSON	RIBEIR	RONCH1	RONCH2	RONCH3	RONMA1	RONMA2	RONMA3
	RUDNIK	SANZOR	SARRAZ	SCHMIT	SHAMS2	SHAMSS	SHIVA	SHOHAT	SOMERV	SOTOQU	SOYSET	SPENGL	SQUILL	STANHO	STERN1	STODDA
	STRACH	STURM	TARIQ	TIMONE	TOMINA	ULRIK	VARELA	VAVILI	VERHOE	VOLKME	WANG	WARKE	WEITZ1	WEITZ2	WICKMA	WILLE1
	WILLE2	YANG	ZHENG													
2	AKCAKA	ARIF	BECKET	BRABIN	CHEN1	FIELDE	FLYNN1	FLYNN2	FREEM1	FREEM2	KALY01	KEARNE	KENDIR	MAIER	MONTEF	MOYES1
	MOYES2	NICOLA	ODDY	SELCUK	SENNHA	SPIEKE	TSIMOY	WIJGA	WOLF01	WOLF02	WOLF03					
3	CUNNI2	GILLIL	JAAKK2	KELLY	LEE3	NHANE3	XU	YUAN								
5	BURR	SCHENK	STAZI	STERN2	VONMAF	ZEIGER	ZEJDA	ZHANG								
13	ALFRA2															

Appendix Table C32 - 8

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

REF REFPG PRINC			OVERLAP												
MCCON1	MCCON1	1	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
ZHANG	1	b	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	1.04 n

Appendix Table C33 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C3 - 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 C33 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Current Asthma
Adjusted

REF	NRR	CompC3	SEX	AGE1	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
MAVALE	7		b	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	unspec	non
MILLER	4		b	2	2	all	NAmer	*	2004	Pr	5		NoHhMemb	current	othr
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
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	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 C33 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Current Asthma
Adjusted

				Numbers Exposed		Non-exposed				
REF	NRR	SEX	ADJ	Case	Control	Case	Control	RR	95.00%CI	
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
MILLER	4	b	5	-	-	-	-	2.36 (	0.91-	6.10)
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)
SELCUK	4	b	6	240	-	68	-	1.28 (	0.94-	1.75)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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	2	b	10	90	-	76	-	0.87 (	0.61-	1.22)
Partial Totals				1613	1976	1596	3585			
*prospective study				~ With 0.5 adjustment for zero						

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO	1	b	0	1.32	2.85	3.72	0.0262
ARSHAD	1	b	7	1.20	1.82	1.93	0.1044
BERGMA	1	b	8	0.28	23.66	0.25	0.1769
CALL	1	b	0	-0.06	4.55	0.24	0.9029
CHEN2	50	b	1	0.07	12.24	0.14	0.8128
CLARK	2	b	0	0.63	2.97	0.63	0.2753
DAIGLE	3	b	7	0.67	11.64	2.89	0.0217
FAGBUL	2	b	1	0.34	14.40	0.41	0.1923
FORSB1	2	b	14	0.10	19.52	0.12	0.6737
FORSB2	2	b	14	-0.36	5.48	1.55	0.4036
FORSB3	2	b	15	0.44	50.37	3.68	0.0016
HJERN1	13	b	9	-0.33	34.86	8.82	0.0524
HJERN2	13	b	9	-0.06	22.00	1.23	0.7716
HOST	1	b	0	-0.12	7.87	0.66	0.7459
INFANT	10	b	19	0.34	25.97	0.68	0.0864
JONES	2	b	0	0.16	9.47	0.00	0.6266
KARUNA	1	b	0	0.12	36.46	0.10	0.4564
LINDFO	1	b	0	0.50	29.55	3.15	0.0065
MAVALE	7	b	0	0.78	9.68	3.55	0.0153
MILLER	4	b	5	0.86	4.24	1.99	0.0769
MOHAME	1	b	0	0.47	8.00	0.70	0.1838
MOUSSA	1	b	0	1.10	0.37	0.32	0.5000
MUMCUO	6	b	0	-0.07	17.74	1.06	0.7676
PALMIE	3	b	0	-0.00	30.71	0.94	0.9963
PETERS	6	b	6	-0.15	44.74	4.73	0.3131
SARRAZ	1	b	0	0.20	2.03	0.00	0.7783
SCHMIT	1	b	4	0.73	13.33	4.08	0.0079
SELCUK	4	b	6	0.25	39.78	0.21	0.1195
SHIVA	1	b	0	0.39	4.36	0.20	0.4160
TOMINA	2	b	0	-1.06	1.84	2.79	0.1515
WILLE1	7	b	0	0.68	6.06	1.53	0.0955

Appendix Table C33 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Current Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
YANG	2	b	10	-0.14	31.98	3.15	0.4310

RR data

	N	32
	NS	32
	Wt	530.56
Het	Chi	55.45
Het	df	31
Het	P	**
Fixed	RR	1.19
	RRl	1.09
	RRu	1.30
	P	+++
Random	RR	1.23
	RRl	1.08
	RRu	1.39
	P	++
Asymm	P	N.S.

Appendix Table C33 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Current Asthma
 Adjusted

RR data

	N	32						
	NS	32						
	Wt	530.56						
Het	Chi	55.45						
Het	df	31						
Het	P	**						
Fixed	RR	1.19						
	RRl	1.09						
	RRu	1.30						
	P	+++						
Random	RR	1.23						
	RRl	1.08						
	RRu	1.39						
	P	++						
Asymm	P	N.S.						
			<u>Sex</u>					
		both	male	female			Total	
	N	32					32	
	NS	32					32	
	Wt	530.56					530.56	
Het	Chi	55.45					55.45	
Het	df	31					31	
Het	P	**					**	
Fixed	RR	1.19					1.19	
	RRl	1.09					1.09	
	RRu	1.30					1.30	
	P	+++					+++	
Random	RR	1.23					1.23	
	RRl	1.08					1.08	
	RRu	1.39					1.39	
	P	++					++	
Between	Chi							
Between	df							
Between	P						N.S.	
			<u>Continent</u>					
	NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total	
	N	5	1	15		4	32	
	NS	5	1	15		4	32	
	Wt	58.66	2.03	297.46	137.49	34.92	530.56	
Het	Chi	4.05	0.00	28.60	5.01	2.83	55.45	
Het	df	4	0	14	6	3	31	
Het	P	N.S.	N.S.	*	N.S.	N.S.	**	
Fixed	RR	1.43	1.22	1.22	0.94	1.77	1.19	
	RRl	1.10	0.31	1.09	0.80	1.27	1.09	
	RRu	1.84	4.83	1.37	1.12	2.47	1.30	
	P	++	N.S.	+++	N.S.	+++	+++	
Random	RR	1.43	1.22	1.23	0.94	1.77	1.23	
	RRl	1.10	0.31	1.03	0.80	1.27	1.08	
	RRu	1.85	4.83	1.46	1.12	2.47	1.39	
	P	++	N.S.	+	N.S.	+++	++	
Between	Chi						14.96	
Between	df						4	
Between	P						**	

Appendix Table C33 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

		Physician Diagnosed Current Asthma Adjusted						
		UK	Italy	Country in Germany	Europe Scand	othWest	East/Bal	Total
RR data	N	3	1	1	8	1	1	15
	NS	3	1	1	8	1	1	15
	Wt	14.26	30.71	23.66	175.71	13.33	39.78	297.46
	Het Chi	1.89	0.00	0.00	20.68	0.00	0.00	28.60
	Het df	2	0	0	7	0	0	14
	Het P	N.S.	N.S.	N.S.	**	N.S.	N.S.	*
Fixed	RR	1.48	1.00	1.32	1.17	2.07	1.28	1.22
	RRl	0.88	0.70	0.88	1.01	1.21	0.94	1.09
	RRu	2.48	1.42	1.97	1.36	3.54	1.75	1.37
Random	P	N.S.	N.S.	N.S.	+	++	N.S.	+++
	RR	1.48	1.00	1.32	1.13	2.07	1.28	1.23
	RRl	0.88	0.70	0.88	0.86	1.21	0.94	1.03
	RRu	2.48	1.42	1.97	1.49	3.54	1.75	1.46
	P	N.S.	N.S.	N.S.	N.S.	++	N.S.	+
Between	Chi							6.03
Between	df							5
Between	P							N.S.
		Country in Asia						
		FarEast	Cent/SE	MidlEast	Total			
	N	3	1	3	7			
	NS	3	1	3	7			
	Wt	78.56	36.46	22.47	137.49			
	Het Chi	1.50	0.00	1.17	5.01			
	Het df	2	0	2	6			
	Het P	N.S.	N.S.	N.S.	N.S.			
Fixed	RR	0.85	1.13	1.04	0.94			
	RRl	0.68	0.82	0.69	0.80			
	RRu	1.06	1.57	1.57	1.12			
Random	P	N.S.	N.S.	N.S.	N.S.			
	RR	0.85	1.13	1.04	0.94			
	RRl	0.68	0.82	0.69	0.80			
	RRu	1.06	1.57	1.57	1.12			
	P	N.S.	N.S.	N.S.	N.S.			
Between	Chi				2.35			
Between	df				2			
Between	P				N.S.			
		Start year of study						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N		1	6	19	6	32	
	NS		1	6	19	6	32	
	Wt		1.84	119.49	352.04	57.20	530.56	
	Het Chi		0.00	14.96	29.95	7.31	55.45	
	Het df		0	5	18	5	31	
	Het P		N.S.	*	*	N.S.	**	
Fixed	RR		0.35	1.21	1.18	1.29	1.19	
	RRl		0.08	1.01	1.06	1.00	1.09	
	RRu		1.47	1.44	1.31	1.67	1.30	
Random	P		N.S.	+	++	(+)	+++	
	RR		0.35	1.36	1.18	1.46	1.23	
	RRl		0.08	0.97	1.02	1.01	1.08	
	RRu		1.47	1.89	1.36	2.11	1.39	
	P		N.S.	(+)	+	+	++	
Between	Chi						3.23	
Between	df						3	
Between	P						N.S.	

Appendix Table C33 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Current Asthma
Adjusted

Publication year
<1990 1990-94 1995-99 2000+ Total

RR data

	N	1	11	12	8	32
	NS	1	11	12	8	32
	Wt	1.84	137.07	253.54	138.12	530.56
Het	Chi	0.00	13.82	17.74	19.24	55.45
Het	df	0	10	11	7	31
Het	P	N.S.	N.S.	(*)	**	**
Fixed	RR	0.35	1.31	1.18	1.11	1.19
	RRL	0.08	1.11	1.05	0.94	1.09
	RRu	1.47	1.55	1.34	1.32	1.30
	P	N.S.	++	++	N.S.	+++
Random	RR	0.35	1.34	1.17	1.29	1.23
	RRL	0.08	1.09	0.99	0.94	1.08
	RRu	1.47	1.66	1.40	1.75	1.39
	P	N.S.	++	(+)	N.S.	++
Between	Chi					4.66
Between	df					3
Between	P					N.S.

Study type
CC Pr CS Total

	N	16	4	12	32
	NS	16	4	12	32
	Wt	212.45	74.47	243.64	530.56
Het	Chi	16.85	8.18	25.25	55.45
Het	df	15	3	11	31
Het	P	N.S.	*	**	**
Fixed	RR	1.34	1.08	1.10	1.19
	RRL	1.17	0.86	0.97	1.09
	RRu	1.54	1.35	1.25	1.30
	P	+++	N.S.	N.S.	+++
Random	RR	1.36	1.33	1.07	1.23
	RRL	1.17	0.82	0.87	1.08
	RRu	1.57	2.15	1.32	1.39
	P	+++	N.S.	N.S.	++
Between	Chi				5.17
Between	df				2
Between	P				(*)

Highest age in RR
0-9 10-14 15+ unknown Total

	N	9	10	12	1	32
	NS	9	10	12	1	32
	Wt	104.09	269.06	145.76	11.64	530.56
Het	Chi	8.18	14.05	20.59	0.00	55.45
Het	df	8	9	11	0	31
Het	P	N.S.	N.S.	*	N.S.	**
Fixed	RR	1.54	1.12	1.07	1.96	1.19
	RRL	1.27	0.99	0.91	1.10	1.09
	RRu	1.87	1.26	1.26	3.48	1.30
	P	+++	(+)	N.S.	+	+++
Random	RR	1.54	1.11	1.16	1.96	1.23
	RRL	1.27	0.94	0.91	1.10	1.08
	RRu	1.88	1.30	1.48	3.48	1.39
	P	+++	N.S.	N.S.	+	++
Between	Chi					12.63
Between	df					3
Between	P					**

Appendix Table C33 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Current Asthma
 Adjusted

general Population setting
 school medical allergy other Total

RR data

N	4	9	18	1	32
NS	4	9	18	1	32
Wt	119.48	171.07	238.19	1.82	530.56
Het Chi	12.96	13.55	21.10	0.00	55.45
Het df	3	8	17	0	31
Het P	**	(*)	N.S.	N.S.	**
Fixed RR	1.09	1.07	1.33	3.33	1.19
RRl	0.91	0.92	1.17	0.78	1.09
RRu	1.31	1.24	1.51	14.23	1.30
P	N.S.	N.S.	+++	N.S.	+++
Random RR	1.04	1.10	1.35	3.33	1.23
RRl	0.70	0.89	1.17	0.78	1.08
RRu	1.54	1.36	1.57	14.23	1.39
P	N.S.	N.S.	+++	N.S.	++
Between Chi					7.84
Between df					3
Between P					*

Respondent for ETS exposure
 child parent med rec mix/oth Total

N	1	22		9	32
NS	1	22		9	32
Wt	2.85	403.18		124.53	530.56
Het Chi	0.00	39.95		10.54	55.45
Het df	0	21		8	31
Het P	N.S.	**		N.S.	**
Fixed RR	3.73	1.22		1.09	1.19
RRl	1.17	1.10		0.91	1.09
RRu	11.91	1.34		1.29	1.30
P	+	+++		N.S.	+++
Random RR	3.73	1.24		1.13	1.23
RRl	1.17	1.07		0.91	1.08
RRu	11.91	1.44		1.40	1.39
P	+	++		N.S.	++
Between Chi					4.96
Between df					2
Between P					(*)

Child smokers
 exc/none included ignored Total

N		5	27	32
NS		5	27	32
Wt		78.56	452.00	530.56
Het Chi		8.55	45.27	55.45
Het df		4	26	31
Het P		(*)	*	**
Fixed RR		1.04	1.22	1.19
RRl		0.84	1.11	1.09
RRu		1.30	1.34	1.30
P		N.S.	+++	+++
Random RR		1.14	1.25	1.23
RRl		0.77	1.09	1.08
RRu		1.69	1.42	1.39
P		N.S.	++	++
Between Chi				1.62
Between df				1
Between P				N.S.

Appendix Table C33 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Current Asthma
 Adjusted

Physician diagnosis (current)
 yes no/mix Total

RR data

	N	32			32	
	NS	32			32	
	Wt	530.56			530.56	
Het	Chi	55.45			55.45	
Het	df	31			31	
Het	P	**			**	
Fixed	RR	1.19			1.19	
	RRL	1.09			1.09	
	RRu	1.30			1.30	
	P	+++			+++	
Random	RR	1.23			1.23	
	RRL	1.08			1.08	
	RRu	1.39			1.39	
	P	++			++	
Between	Chi					
Between	df					
Between	P			N.S.		
	Respondent for diagnosis (current)					
	medrec	parent	child	mixed	Total	
	N	17	10	2	3	32
	NS	17	10	2	3	32
	Wt	208.12	189.18	56.87	76.40	530.56
Het	Chi	21.44	15.28	0.96	4.44	55.45
Het	df	16	9	1	2	31
Het	P	N.S.	(*)	N.S.	N.S.	**
Fixed	RR	1.33	1.25	0.80	1.05	1.19
	RRL	1.16	1.09	0.62	0.84	1.09
	RRu	1.52	1.44	1.04	1.31	1.30
	P	+++	++	(-)	N.S.	+++
Random	RR	1.36	1.24	0.80	1.13	1.23
	RRL	1.15	1.01	0.62	0.78	1.08
	RRu	1.62	1.52	1.04	1.64	1.39
	P	+++	+	(-)	N.S.	++
Between	Chi					13.33
Between	df					3
Between	P					**
	Questionnaire for symptoms					
	ISAAC	ATS	other	Total		
	N	5	27	32		
	NS	5	27	32		
	Wt	110.20	420.36	530.56		
Het	Chi	12.16	43.22	55.45		
Het	df	4	26	31		
Het	P	*	*	**		
Fixed	RR	1.22	1.18	1.19		
	RRL	1.01	1.08	1.09		
	RRu	1.47	1.30	1.30		
	P	+	+++	+++		
Random	RR	1.19	1.23	1.23		
	RRL	0.81	1.08	1.08		
	RRu	1.74	1.41	1.39		
	P	N.S.	++	++		
Between	Chi			0.07		
Between	df			1		
Between	P			N.S.		

Appendix Table C33 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Current Asthma

Adjusted
Number of cases (current asthma)
1-50 51-100 101-200 201+ unknown Total

RR data

N	9	8	6	8	1	32
NS	9	8	6	8	1	32
Wt	36.75	82.05	141.96	246.15	23.66	530.56
Het Chi	8.13	13.86	17.65	11.62	0.00	55.45
Het df	8	7	5	7	0	31
Het P	N.S.	(*)	**	N.S.	N.S.	**
Fixed RR	1.57	1.25	1.10	1.17	1.32	1.19
RRl	1.13	1.00	0.93	1.03	0.88	1.09
RRu	2.16	1.55	1.30	1.32	1.97	1.30
P	++	+	N.S.	+	N.S.	+++
Random RR	1.57	1.23	1.17	1.16	1.32	1.23
RRl	1.13	0.90	0.85	0.98	0.88	1.08
RRu	2.18	1.70	1.61	1.37	1.97	1.39
P	++	N.S.	N.S.	(+)	N.S.	++
Between Chi						4.19
Between df						4
Between P						N.S.

Study adjusts for or is matched on sex
Yes No Total

N	20	12	32
NS	20	12	32
Wt	388.97	141.59	530.56
Het Chi	37.37	17.70	55.45
Het df	19	11	31
Het P	**	(*)	**
Fixed RR	1.17	1.24	1.19
RRl	1.06	1.06	1.09
RRu	1.29	1.47	1.30
P	++	++	+++
Random RR	1.21	1.29	1.23
RRl	1.04	1.01	1.08
RRu	1.40	1.64	1.39
P	+	+	++
Between Chi			0.38
Between df			1
Between P			N.S.

Study adjusts for or is matched on age

N	21	11	32
NS	21	11	32
Wt	439.18	91.38	530.56
Het Chi	42.06	13.27	55.45
Het df	20	10	31
Het P	**	N.S.	**
Fixed RR	1.20	1.15	1.19
RRl	1.09	0.94	1.09
RRu	1.32	1.41	1.30
P	+++	N.S.	+++
Random RR	1.23	1.21	1.23
RRl	1.07	0.93	1.08
RRu	1.43	1.58	1.39
P	++	N.S.	++
Between Chi			0.12
Between df			1
Between P			N.S.

Appendix Table C33 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Current Asthma
 Adjusted

Study adjusts for or is matched on race
 Yes No Total

RR data

	N	32	32
	NS	32	32
	Wt	530.56	530.56
Het	Chi	55.45	55.45
Het	df	31	31
Het	P	**	**
Fixed	RR	1.19	1.19
	RRl	1.09	1.09
	RRu	1.30	1.30
	P	+++	+++
Random	RR	1.23	1.23
	RRl	1.08	1.08
	RRu	1.39	1.39
	P	++	++
Between	Chi		
Between	df		
Between	P		N.S.

Study adjusts for or is matched on location

	N	14	18	32
	NS	14	18	32
	Wt	313.62	216.94	530.56
Het	Chi	28.69	25.64	55.45
Het	df	13	17	31
Het	P	**	(*)	**
Fixed	RR	1.15	1.26	1.19
	RRl	1.03	1.10	1.09
	RRu	1.28	1.44	1.30
	P	+	+++	+++
Random	RR	1.17	1.30	1.23
	RRl	0.98	1.09	1.08
	RRu	1.40	1.56	1.39
	P	(+)	++	++
Between	Chi			1.12
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on SES

	N	10	22	32
	NS	10	22	32
	Wt	247.97	282.60	530.56
Het	Chi	20.40	29.85	55.45
Het	df	9	21	31
Het	P	*	(*)	**
Fixed	RR	1.07	1.31	1.19
	RRl	0.95	1.16	1.09
	RRu	1.21	1.47	1.30
	P	N.S.	+++	+++
Random	RR	1.13	1.31	1.23
	RRl	0.93	1.12	1.08
	RRu	1.37	1.52	1.39
	P	N.S.	+++	++
Between	Chi			5.19
Between	df			1
Between	P			*

Appendix Table C33 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Current Asthma

Adjusted
Study adjusts for family medical history
Yes No Total

RR data

N	11	21	32
NS	11	21	32
Wt	231.20	299.36	530.56
Het Chi	10.59	39.64	55.45
Het df	10	20	31
Het P	N.S.	**	**
Fixed RR	1.33	1.09	1.19
RRl	1.17	0.97	1.09
RRu	1.52	1.22	1.30
P	+++	N.S.	+++
Random RR	1.33	1.18	1.23
RRl	1.16	0.98	1.08
RRu	1.52	1.41	1.39
P	+++	(+)	++
Between Chi			5.23
Between df			1
Between P			*

Study adjusts for family composition

N	4	28	32
NS	4	28	32
Wt	71.96	458.60	530.56
Het Chi	7.90	40.60	55.45
Het df	3	27	31
Het P	*	*	**
Fixed RR	0.89	1.25	1.19
RRl	0.71	1.14	1.09
RRu	1.12	1.37	1.30
P	N.S.	+++	+++
Random RR	1.02	1.27	1.23
RRl	0.67	1.12	1.08
RRu	1.55	1.43	1.39
P	N.S.	+++	++
Between Chi			6.94
Between df			1
Between P			**

Study adjusts for cooking, heating, air conditioning

N	8	24	32
NS	8	24	32
Wt	166.30	364.26	530.56
Het Chi	14.71	37.62	55.45
Het df	7	23	31
Het P	*	*	**
Fixed RR	1.33	1.13	1.19
RRl	1.15	1.02	1.09
RRu	1.55	1.25	1.30
P	+++	+	+++
Random RR	1.34	1.18	1.23
RRl	1.06	1.02	1.08
RRu	1.70	1.36	1.39
P	+	+	++
Between Chi			3.12
Between df			1
Between P			(*)

Appendix Table C33 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)

Physician Diagnosed Current Asthma

Adjusted

Study adjusts for housing quality, crowding, damp, mould

Yes No Total

RR data

	N	9	23	32
	NS	9	23	32
	Wt	229.01	301.55	530.56
Het	Chi	14.64	38.96	55.45
Het	df	8	22	31
Het	P	(*)	*	**
Fixed	RR	1.11	1.25	1.19
	RRl	0.98	1.12	1.09
	RRu	1.27	1.40	1.30
	P	N.S.	+++	+++
Random	RR	1.10	1.32	1.23
	RRl	0.92	1.12	1.08
	RRu	1.33	1.56	1.39
	P	N.S.	++	++
Between	Chi			1.85
Between	df			1
Between	P			N.S.

Study adjusts for pets, animal contact, farming

	N	8	24	32
	NS	8	24	32
	Wt	186.57	343.99	530.56
Het	Chi	13.17	40.68	55.45
Het	df	7	23	31
Het	P	(*)	*	**
Fixed	RR	1.28	1.14	1.19
	RRl	1.11	1.03	1.09
	RRu	1.48	1.27	1.30
	P	+++	+	+++
Random	RR	1.27	1.21	1.23
	RRl	1.03	1.04	1.08
	RRu	1.58	1.42	1.39
	P	+	+	++
Between	Chi			1.60
Between	df			1
Between	P			N.S.

Study adjusts for child's medical history

	N	11	21	32
	NS	11	21	32
	Wt	197.39	333.17	530.56
Het	Chi	12.05	41.01	55.45
Het	df	10	20	31
Het	P	N.S.	**	**
Fixed	RR	1.30	1.13	1.19
	RRl	1.13	1.02	1.09
	RRu	1.49	1.26	1.30
	P	+++	+	+++
Random	RR	1.32	1.16	1.23
	RRl	1.13	0.97	1.08
	RRu	1.55	1.37	1.39
	P	+++	(+)	++
Between	Chi			2.38
Between	df			1
Between	P			N.S.

Appendix Table C33 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Current Asthma
 Adjusted

Study adjusts for in utero exposure
 Yes No Total

RR data

N		32	32
NS		32	32
Wt		530.56	530.56
Het Chi		55.45	55.45
Het df		31	31
Het P		**	**
Fixed RR		1.19	1.19
RRl		1.09	1.09
RRu		1.30	1.30
P		+++	+++
Random RR		1.23	1.23
RRl		1.08	1.08
RRu		1.39	1.39
P		++	++
Between Chi			
Between df			
Between P			N.S.

Study adjusts for in life exposure

N	9	23	32
NS	9	23	32
Wt	134.79	395.77	530.56
Het Chi	9.91	34.80	55.45
Het df	8	22	31
Het P	N.S.	*	**
Fixed RR	1.52	1.10	1.19
RRl	1.28	0.99	1.09
RRu	1.80	1.21	1.30
P	+++	(+)	+++
Random RR	1.53	1.12	1.23
RRl	1.25	0.98	1.08
RRu	1.88	1.29	1.39
P	+++	(+)	++
Between Chi			10.74
Between df			1
Between P			**

Exposed group : Source/who is smoker

	Biochem	TotETS	AnyHh	AnyPar	Mother	Father	Total
N	1	1	14	7	7	2	32
NS	1	1	14	7	7	2	32
Wt	2.97	36.46	267.19	100.08	97.50	26.36	530.56
Het Chi	0.00	0.00	21.29	9.86	19.54	0.74	55.45
Het df	0	0	13	6	6	1	31
Het P	N.S.	N.S.	(*)	N.S.	**	N.S.	**
Fixed RR	1.88	1.13	1.15	1.39	1.16	1.01	1.19
RRl	0.60	0.82	1.02	1.14	0.95	0.69	1.09
RRu	5.88	1.57	1.30	1.69	1.42	1.48	1.30
P	N.S.	N.S.	+	++	N.S.	N.S.	+++
Random RR	1.88	1.13	1.16	1.44	1.24	1.01	1.23
RRl	0.60	0.82	0.98	1.09	0.82	0.69	1.08
RRu	5.88	1.57	1.38	1.89	1.89	1.48	1.39
P	N.S.	N.S.	(+)	++	N.S.	N.S.	++
Between Chi							4.02
Between df							5
Between P							N.S.

Appendix Table C33 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Current Asthma
 Adjusted

Exposed group : when Exposed
 lif/ev age<7y current unspec other Total

RR data

	N	5	5	6	15	1	32
	NS	5	5	6	15	1	32
	Wt	89.02	128.58	111.62	198.37	2.97	530.56
Het	Chi	10.09	5.24	7.38	23.82	0.00	55.45
Het	df	4	4	5	14	0	31
Het	P	*	N.S.	N.S.	*	N.S.	**
Fixed	RR	1.00	1.40	1.05	1.23	1.88	1.19
	RRl	0.81	1.18	0.87	1.07	0.60	1.09
	RRu	1.23	1.67	1.26	1.42	5.88	1.30
	P	N.S.	+++	N.S.	++	N.S.	+++
Random	RR	1.10	1.38	1.10	1.29	1.88	1.23
	RRl	0.75	1.12	0.86	1.06	0.60	1.08
	RRu	1.60	1.69	1.42	1.58	5.88	1.39
	P	N.S.	++	N.S.	+	N.S.	++
Between	Chi						8.93
Between	df						4
Between	P						(*)

Unexposed group : who is smoker
 NoHhMemb NoParent NotSpPar Total

	N	18	7	7	32
	NS	18	7	7	32
	Wt	312.81	100.08	117.66	530.56
Het	Chi	24.93	9.86	17.80	55.45
Het	df	17	6	6	31
Het	P	(*)	N.S.	**	**
Fixed	RR	1.15	1.39	1.14	1.19
	RRl	1.03	1.14	0.95	1.09
	RRu	1.29	1.69	1.37	1.30
	P	+	++	N.S.	+++
Random	RR	1.16	1.44	1.25	1.23
	RRl	1.00	1.09	0.89	1.08
	RRu	1.34	1.89	1.77	1.39
	P	(+)	++	N.S.	++
Between	Chi				2.86
Between	df				2
Between	P				N.S.

Unexposed group : time
 non never non+othr NA Total

	N	28	2	1	1	32
	NS	28	2	1	1	32
	Wt	466.48	56.87	4.24	2.97	530.56
Het	Chi	42.06	0.96	0.00	0.00	55.45
Het	df	27	1	0	0	31
Het	P	*	N.S.	N.S.	N.S.	**
Fixed	RR	1.24	0.80	2.36	1.88	1.19
	RRl	1.13	0.62	0.91	0.60	1.09
	RRu	1.36	1.04	6.11	5.88	1.30
	P	+++	(-)	(+)	N.S.	+++
Random	RR	1.26	0.80	2.36	1.88	1.23
	RRl	1.11	0.62	0.91	0.60	1.08
	RRu	1.43	1.04	6.11	5.88	1.39
	P	+++	(-)	(+)	N.S.	++
Between	Chi					12.43
Between	df					3
Between	P					**

Appendix Table C33 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Current Asthma

Adjusted
Number of adjustment variables
0 1 2 3-5 6-9 10+ Total

RR data

N	16	2	2	7	5	32
NS	16	2	2	7	5	32
Wt	174.50	26.64	17.58	178.51	133.33	530.56
Het Chi	19.07	0.50	0.06	16.76	9.09	55.45
Het df	15	1	1	6	4	31
Het P	N.S.	N.S.	N.S.	*	(*)	**
Fixed RR	1.26	1.24	2.14	1.04	1.22	1.19
RRl	1.08	0.85	1.34	0.90	1.03	1.09
RRu	1.46	1.82	3.41	1.20	1.45	1.30
P	++	N.S.	++	N.S.	+	+++
Random RR	1.28	1.24	2.14	1.11	1.16	1.23
RRl	1.06	0.85	1.34	0.85	0.88	1.08
RRu	1.54	1.82	3.41	1.45	1.53	1.39
P	++	N.S.	++	N.S.	N.S.	++
Between Chi						9.97
Between df						4
Between P						*

RR adjusted for sex

Yes No Total

N	12	20	32
NS	12	20	32
Wt	293.19	237.37	530.56
Het Chi	30.13	25.23	55.45
Het df	11	19	31
Het P	**	N.S.	**
Fixed RR	1.18	1.21	1.19
RRl	1.05	1.06	1.09
RRu	1.32	1.37	1.30
P	++	++	+++
Random RR	1.21	1.24	1.23
RRl	0.99	1.06	1.08
RRu	1.48	1.45	1.39
P	(+)	++	++
Between Chi			0.10
Between df			1
Between P			N.S.

RR adjusted for age

N	10	22	32
NS	10	22	32
Wt	267.71	262.85	530.56
Het Chi	27.76	27.22	55.45
Het df	9	21	31
Het P	**	N.S.	**
Fixed RR	1.16	1.23	1.19
RRl	1.03	1.09	1.09
RRu	1.30	1.38	1.30
P	+	+++	+++
Random RR	1.18	1.26	1.23
RRl	0.94	1.08	1.08
RRu	1.47	1.46	1.39
P	N.S.	++	++
Between Chi			0.46
Between df			1
Between P			N.S.

Appendix Table C33 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Current Asthma
Adjusted

RR adjusted for other ETS
Yes No Total

RR data

	N	5	27	32
	NS	5	27	32
	Wt	105.59	424.97	530.56
Het	Chi	5.51	46.81	55.45
Het	df	4	26	31
Het	P	N.S.	**	**
Fixed	RR	1.39	1.15	1.19
	RRl	1.15	1.04	1.09
	RRu	1.68	1.26	1.30
	P	+++	++	+++
Random	RR	1.36	1.21	1.23
	RRl	1.06	1.05	1.08
	RRu	1.73	1.39	1.39
	P	+	++	++
Between	Chi			3.13
Between	df			1
Between	P			(*)

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

	N	16	16	32
	NS	16	16	32
	Wt	356.06	174.50	530.56
Het	Chi	35.60	19.07	55.45
Het	df	15	15	31
Het	P	**	N.S.	**
Fixed	RR	1.16	1.26	1.19
	RRl	1.04	1.08	1.09
	RRu	1.29	1.46	1.30
	P	++	++	+++
Random	RR	1.20	1.28	1.23
	RRl	1.01	1.06	1.08
	RRu	1.42	1.54	1.39
	P	+	++	++
Between	Chi			0.78
Between	df			1
Between	P			N.S.

	Original	Derivation of RR/CI		Other	Total
		Numbers	SumNumbs		
	N	10	8	6	32
	NS	10	8	6	32
	Wt	160.53	75.88	100.66	530.56
Het	Chi	12.95	8.54	6.96	55.45
Het	df	9	7	5	31
Het	P	N.S.	N.S.	N.S.	**
Fixed	RR	1.24	1.27	1.22	1.19
	RRl	1.06	1.02	1.00	1.09
	RRu	1.44	1.60	1.49	1.30
	P	++	+	+	+++
Random	RR	1.27	1.32	1.23	1.23
	RRl	1.04	1.00	0.96	1.08
	RRu	1.55	1.73	1.57	1.39
	P	+	(+)	(+)	++
Between	Chi				1.67
Between	df				3
Between	P				N.S.

Appendix Table C33 - 4

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Current Asthma
Unadjusted

REF	NRR	X	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	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
MAVALE	7		b	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	unspec	non
MILLER	4		b	2	2	all	NAmer	*	2004	Pr	5		NoHhMemb	current	othr
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
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	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 C33 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Current Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
MILLER	4	b	5	-	-	-	-	2.36 (	0.91-	6.10)
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)
SELCUK	3	b	0	240	3697	68	1407	1.34 (	1.02-	1.77)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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				1613	11021	1596	9587			
*prospective study				~ With 0.5 adjustment for zero						

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ADDOYO	1	b	0	1.32	2.85	3.66	0.0262
ARSHAD	1	b	7	1.20	1.82	1.89	0.1044
BERGMA	1	b	8	0.28	23.66	0.21	0.1769
CALL	1	b	0	-0.06	4.55	0.26	0.9029
CHEN2	24	b	0	0.03	14.86	0.35	0.9088
CLARK	2	b	0	0.63	2.97	0.60	0.2753
DAIGLE	1	b	0	0.36	19.66	0.61	0.1106
FAGBUL	1	b	0	0.75	16.88	5.46	0.0020
FORSB1	2	b	14	0.10	19.52	0.15	0.6737
FORSB2	2	b	14	-0.36	5.48	1.60	0.4036
FORSB3	2	b	15	0.44	50.37	3.43	0.0016
HJERN1	5	b	0	-0.17	28.32	3.57	0.3611
HJERN2	5	b	0	0.16	18.42	0.01	0.4983
HOST	1	b	0	-0.12	7.87	0.70	0.7459
INFANT	3	b	0	0.15	53.83	0.07	0.2761
JONES	2	b	0	0.16	9.47	0.01	0.6266
KARUNA	1	b	0	0.12	36.46	0.13	0.4564
LINDFO	1	b	0	0.50	29.55	2.97	0.0065
MAVALE	7	b	0	0.78	9.68	3.44	0.0153
MILLER	4	b	5	0.86	4.24	1.93	0.0769
MOHAME	1	b	0	0.47	8.00	0.66	0.1838
MOUSSA	1	b	0	1.10	0.37	0.32	0.5000
MUMCUO	6	b	0	-0.07	17.74	1.14	0.7676
PALMIE	3	b	0	-0.00	30.71	1.04	0.9963
PETERS	6	b	6	-0.15	44.74	5.00	0.3131
SARRAZ	1	b	0	0.20	2.03	0.00	0.7783
SCHMIT	1	b	4	0.73	13.33	3.94	0.0079
SELCUK	3	b	0	0.30	50.37	0.63	0.0362
SHIVA	1	b	0	0.39	4.36	0.18	0.4160
TOMINA	2	b	0	-1.06	1.84	2.83	0.1515
WILLE1	7	b	0	0.68	6.06	1.48	0.0955

Appendix Table C33 - 5

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Current Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
YANG	1	b	0	-0.31	39.48	9.71	0.0498

RR data

	N	32
	NS	32
	Wt	579.49
Het	Chi	58.01
Het	df	31
Het	P	**
Fixed	RR	1.20
	RRl	1.11
	RRu	1.30
	P	+++
Random	RR	1.24
	RRl	1.09
	RRu	1.40
	P	+++
Asymm	P	N.S.

Appendix Table C33 - 6

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Physician Diagnosed Current Asthma
Unadjusted

RR data

[illegible]

Appendix Table C33 - 6

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Current Asthma
 Unadjusted

Start year of study
 <1970 1970-79 1980-89 1990+ unknown Total

RR data

	N	1	6	19	6	32
	NS	1	6	19	6	32
	Wt	1.84	155.36	362.61	59.68	579.49
Het	Chi	0.00	11.87	30.23	10.52	58.01
Het	df	0	5	18	5	31
Het	P	N.S.	*	*	(*)	**
Fixed	RR	0.35	1.14	1.20	1.45	1.20
	RRl	0.08	0.98	1.08	1.13	1.11
	RRu	1.47	1.34	1.33	1.87	1.30
	P	N.S.	(+)	+++	++	+++
Random	RR	0.35	1.23	1.20	1.72	1.24
	RRl	0.08	0.94	1.03	1.10	1.09
	RRu	1.47	1.59	1.38	2.70	1.40
	P	N.S.	N.S.	+	+	+++
Between	Chi					5.39
Between	df					3
Between	P					N.S.

Study type
 CC Pr CS Total

	N	16	4	12	32
	NS	16	4	12	32
	Wt	250.81	74.47	254.22	579.49
Het	Chi	19.77	8.18	26.26	58.01
Het	df	15	3	11	31
Het	P	N.S.	*	**	**
Fixed	RR	1.32	1.08	1.13	1.20
	RRl	1.16	0.86	1.00	1.11
	RRu	1.49	1.35	1.28	1.30
	P	+++	N.S.	+	+++
Random	RR	1.35	1.33	1.10	1.24
	RRl	1.16	0.82	0.89	1.09
	RRu	1.58	2.15	1.36	1.40
	P	+++	N.S.	N.S.	+++
Between	Chi				3.80
Between	df				2
Between	P				N.S.

Appendix Table C33 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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	AGUDOT	AKCAKA	ALBA	ALDAW0	ALFRA1	ALFRA2	ANDRAE	ANNES2	ANNESI	ARIF	BALL	BARRET	BECKET	BENCIV
	BENER	BRABIN	BURCHF	BURR	BUTZ	CELEDO	CHEN1	CHHABR	CHINN	CSONKA	CUNNI1	CUNNI2	DEBENE	DEKKER	DEKOK	DELL
	DIJKST	DODGE	DOLD	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	ECE	EHRLI1	EHRLI2	FARBE1	FARBE2	FARBE3	FAR00Q	FERGUS
	FIELDE	FLYNN1	FLYNN2	FORAST	FREEM1	FREEM2	FUJI	GILLIL	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1
	GORTM2	GUPTA	GURKAN	HABY	HAJNAL	HALONE	HU1	HU2	JAACK2	JAACKO	JANG	JENKIN	KABESC	KALY01	KALY02	KAPLAN
	KASPER	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KUEHR	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEE3	LEEDER
	LEEN	LEROUX	LEVES1	LEVES2	LEVES3	LILLJE	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MELIA	MELSOM	MONTEF
	MONTEI	MOYES1	MOYES2	MURRAY	NHANE3	NICOLA	NILSSO	NITTA	NYSTAD	OCONNE	ODDY	OHARA	PIC	PIROGO	POKHAR	PONSON
	QIAN	RASANE	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3	RONMA1	RONMA2	RONMA3	ROSASV	RUDNIK	SANZOR	SCHENK	SENNHA
	SHAMS2	SHAMSS	SHERMA	SHOHAT	SIGURS	SOMERV	SOTOQU	SOYSET	SPENGL	SPIEKE	SQUILL	STANHO	STAZI	STERN1	STODDA	STRACH
	STURM	TARIQ	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG	WARKE	WEITZ1	WEITZ2
	WICKMA	WIJGA	WITHER	WOLF01	WOLF02	WOLF03	XU	YUAN	ZEIGER	ZEJDA	ZHANG	ZHENG				
3	LOPEZC	OLIVET														
4	KNIGHT															
5	AZIZI	HUGHES	STERN2													
14	WILLE2															

Appendix Table C33 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Physician Diagnosed Current Asthma
 Potentially overlapping studies

REF REFPG 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
ADDOYO	2	b	8	17	all	Africa	*	2001	CC	4		NoHhMemb	unspec	non
ARSHAD	7	b	4	4	all	Eu:UK	1990	1992	Pr	0	AnyPar	NoParent	unspec	non
AZIZI	1	b	0	5	all	As:cen	1989	1995	CC	0	Father	NoParent	unspec	non
HUGHES	1	b	4	16	all	Eu:UK	1993	1995	CC	0	AnyPar	NoParent	unspec	non
KARUNA	2	b	1	10	all	As:cen	1996	2001	CC	10		None	current	non
MOHAME	5	b	9	11	all	Africa	1990	1995	CC	4		NoHhMemb	unspec	non
PALMIE	10	b	1	12	all	Eu:Ita	*	1990	CC	5	AnyPar	NoParent	unspec	non
STERN2	8	b	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	<2y	non

RR|SIG|
 * n
 * n
 * n
 * n
 * n
 * n
 * y
 0.98 n

Appendix Table C34 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C7 - 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 C34 - 1

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

REF	NRR	CompC7	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
MAVALE	7		b	1	8	all	Africa	1999	2004	CC	0	AnyPar	NoParent	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
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
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	Father	NoHhMemb	ever	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 C34 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
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)
MAVALE	7	b	0	37	21	63	78	2.18 (	1.16-	4.10)
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)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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)
Partial Totals				934	1742	1395	3381			
*prospective study				~ With 0.5 adjustment for zero						
REF	NRR	SEX	ADJ	Ys		Ws	Qs	Ps		
ARSHAD	1	b	7	1.20		1.82	1.83	0.1044		
CHEN2	47	b	1	0.10		15.22	0.14	0.6839		
DAIGLE	3	b	7	0.67		11.64	2.61	0.0217		
FAGBUL	2	b	1	0.34		14.40	0.30	0.1923		
HJERN1	13	b	9	-0.33		34.86	9.73	0.0524		
HJERN2	13	b	9	-0.06		22.00	1.51	0.7716		
HOST	1	b	0	-0.12		7.87	0.78	0.7459		
INFANT	10	b	19	0.34		25.97	0.49	0.0864		
JONES	2	b	0	0.16		9.47	0.02	0.6266		
LINDFO	1	b	0	0.50		29.55	2.68	0.0065		
MAVALE	7	b	0	0.78		9.68	3.26	0.0153		
MOUSSA	1	b	0	1.10		0.37	0.31	0.5000		
MUMCUO	2	b	0	-3.33		0.45	5.58	0.0258		
PALMIE	3	b	0	-0.00		30.71	1.24	0.9963		
SCHMIT	1	b	4	0.73		13.33	3.71	0.0079		
SHIVA	1	b	0	0.39		4.36	0.16	0.4160		
TOMINA	2	b	0	-1.06		1.84	2.91	0.1515		
WILLE1	7	b	0	0.68		6.06	1.38	0.0955		

RR data

		N	18
		NS	18
		Wt	239.61
		Het Chi	38.61
		Het df	17
		Het P	**
Fixed	RR	1.22	
	RRl	1.08	
	RRu	1.39	
	P	++	
Random	RR	1.28	
	RRl	1.03	
	RRu	1.58	
	P	+	
Asymm	P	N.S.	

Appendix Table C34 - 3

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

RR data

	N	18			
	NS	18			
	Wt	239.61			
Het	Chi	38.61			
Het	df	17			
Het	P	**			
Fixed	RR	1.22			
	RRl	1.08			
	RRu	1.39			
	P	++			
Random	RR	1.28			
	RRl	1.03			
	RRu	1.58			
	P	+			
Asymm	P	N.S.			
			<u>Sex</u>		
	both		male	female	Total
	N	18			18
	NS	18			18
	Wt	239.61			239.61
Het	Chi	38.61			38.61
Het	df	17			17
Het	P	**			**
Fixed	RR	1.22			1.22
	RRl	1.08			1.08
	RRu	1.39			1.39
	P	++			++
Random	RR	1.28			1.28
	RRl	1.03			1.03
	RRu	1.58			1.58
	P	+			+
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C34 - 7

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

[illegible]

Appendix Table C34 - 8

Children - Meta-analysis of Parental Exposure during Lifetime, 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	AGE	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
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 C35 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C1 - 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 C35 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma, Age range below 10 years
 Adjusted

REF	NRR	CompC1	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	-
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	current	non	-
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	-
RONMA2	1		b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non	-
RONMA3	3	x	b	7	9	all	Eu:Sca	1996	2002	Pr	7	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	-
WICKMA	2		b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non	-
WIJGA	1		b	3	3	all	Eu:wst	1996	2003	Pr	17	AnyHh	LowHh	2y	non	-
WOLF01	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 C35 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma, Age range below 10 years
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
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)
RONMA2	1	b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3	3	b	7	-	-	-	-	1.16 (	0.58-	2.31)
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)
*WICKMA	2	b	8	64	-	251	-	1.65 (	1.21-	2.25)
WIJGA	1	b	17	-	-	-	-	0.83 (	0.59-	1.19)
WOLF01	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				1617	3330	2150	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	0.52	0.0733
*FERGUS	7	b	0	0.04	37.52	1.66	0.8106
JENKIN	5	b	7	0.23	116.41	0.04	0.0126
KERSHA	7	b	1	1.14	11.69	9.23	0.0001
KUEHR	6	b	1	-0.39	19.88	8.01	0.0855
*LEEDER	2	b	1	0.29	8.17	0.01	0.4149
LEROUX	2	b	10	0.58	14.02	1.55	0.0293
LISTER	3	b	8	0.42	64.33	1.85	0.0008
MAIER	5	b	8	0.82	13.60	4.36	0.0026
MCCON2	2	b	0	-0.58	1.65	1.15	0.4523
*MCKEEV	9	b	0	0.29	627.76	1.18	0.0000
MONTEI	1	b	0	0.22	56.12	0.04	0.0946
MOYES1	1	b	0	0.06	120.55	4.52	0.5411
NHANE3	19	b	5	0.23	7.60	0.00	0.5240
*ODDY	1	b	4	0.24	96.50	0.01	0.0189
*PONSON	8	b	6	0.03	88.18	4.26	0.7813
RONMA2	1	b	7	0.36	43.54	0.51	0.0183
*RONMA3	3	b	7	0.15	8.05	0.08	0.6738
ROSASV	1	b	0	0.45	3.25	0.13	0.4168
SHAMSS	2	b	0	0.33	79.17	0.51	0.0034
*SIGURS	1	b	0	0.18	3.26	0.01	0.7422
*WICKMA	2	b	8	0.50	39.93	2.52	0.0016
WIJGA	1	b	17	-0.19	31.22	5.93	0.2978
WOLF01	2	b	7	0.11	11.72	0.22	0.6981
*ZEIGER	1	b	0	0.21	10.38	0.01	0.4914

Appendix Table C35 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma, Age range below 10 years
 Adjusted

RR data

	N	26
	NS	26
	Wt	1543.92
Het	Chi	48.31
Het	df	25
Het	P	**
Fixed	RR	1.28
	RRl	1.22
	RRu	1.35
	P	+++
Random	RR	1.27
	RRl	1.17
	RRu	1.39
	P	+++
Asymm	P	N.S.

Appendix Table C35 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma, Age range below 10 years
 Adjusted

RR data

	N	26			
	NS	26			
	Wt	1543.92			
Het	Chi	48.31			
Het	df	25			
Het	P	**			
Fixed	RR	1.28			
	RRl	1.22			
	RRu	1.35			
	P	+++			
Random	RR	1.27			
	RRl	1.17			
	RRu	1.39			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	26			26
	NS	26			26
	Wt	1543.92			1543.92
Het	Chi	48.31			48.31
Het	df	25			25
Het	P	**			**
Fixed	RR	1.28			1.28
	RRl	1.22			1.22
	RRu	1.35			1.35
	P	+++			+++
Random	RR	1.27			1.27
	RRl	1.17			1.17
	RRu	1.39			1.39
	P	+++			+++
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C35 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
2	AGUDOT	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNES2	ANNESI	ARIF	BARRET	BECKET	BENCIV	BENER	BRABIN	BURCHF
	BUTZ	CHEN2	CUNNI2	DEBENE	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAR00Q	FIELDE	FLYNN1	FLYNN2	FORAST
	FREEM1	GILLIL	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	HU1	HU2	KALY01
	KASPER	KAY	KEARNE	KELLY	KENDIR	KIVITY	KUHR	LAM1	LAM2	LEE3	LEVES2	LEVES3	LIS	MARTIN	MCCON1	MOYES2
	MURRAY	NICOLA	NILSSO	NYSTAD	OCONNE	PIROGO	POKHAR	QIAN	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	RUDNIK	SANZOR
	SCHENK	SELCUK	SENNHA	SHAMS2	SHERMA	SOYSET	SQUILL	STANHO	STERN2	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE
	VONMAF	WARKE	WITHER	WOLF02	WOLF03	ZHANG										
4	JAAKK2	KAPLAN	TAYLOR	WEITZ1	XU	YUAN										
6	BURR	FREEM2	LEVES1	MONTEF	STAZI	VOLKME	ZEJDA									
16	SPIEKE															

Appendix Table C35 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma, Age range below 10 years
 Potentially overlapping studies

REF REFGP PRINC			OVERLAP														
KUEHR	KUEHR	1	KUEHR/SPIEKE														
WOLF01	WOLF01	1	WOLF01/WOLF02/WOLF03														
RONMA2	RONMA1	2	RONMA1/RONMA2/RONMA3														
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3														
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
FREEEM2	1	b	4	5	all	NAmer	1998	2003	CS	2	AnyHh	NoHhMemb	current	non	-	*	n
LEEDER	3	b	0	5	all	Eu:UK	1963	1976	Pr	9	AnyPar	NoParent	in life	non	-	*	n
LEVES1	1	b	9	9	all	NAmer	1999	2004	CS	0	AnyHh	None	unspec	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 C36 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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 C1 - 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 C36 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma, Age range includes 10 years
Adjusted

REF	NRR	CompC1	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	-
ALDAW0	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	-
ARIF	2		b	0	16	all	NAmer	2001	2004	CS	10	AnyHh	NoHhMemb	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	-
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	unspec	non	-
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	-
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	-
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	-
FREEM1	2		b	7	11	all	NAmer	1998	2003	CS	2	AnyHh	NoHhMemb	current	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	-
LEE3	5		b	6	15	all	As:FE	2001	2003	CS	0	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	-
MCCON1	3		m	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	9-16y	non	-
MCCON1	4		f	9	18	all	NAmer	1993	2002	Pr	3	AnyHh	NoHhMemb	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	-
NHANE3	28		b	4	16	w+b	NAmer	1988	2001	CS	6	Biochem	Low	-	-	blood
NICOLA	1		b	5	11	all	Eu:Ger	1995	2003	CS	0	AnyHh	NoHhMemb	current	non	-
OCONNE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non	-
PIROGO	3		b	0	15	all	Eu:est	*	2004	CS	0	AnyHh	NoHhMemb	unspec	non	-
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	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	-
RONMA3	2		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	-

Appendix Table C36 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma, Age range includes 10 years
 Adjusted

REF	NRR	CompC1	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
WARKE	1		b	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non	-
WOLF02	2		b	10	10	all	Eu:Ger	1979	1995	CS	7	AnyHh	NoHhMemb	current	non	-

Appendix Table C36 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma, Age range includes 10 years
 Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
ALBA	1	b	0	68	70	34	32	0.91 (	0.51-	1.64)
ALDAW0	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)
ARIF	2	b	10	46	-	161	-	0.98 (	0.65-	1.47)
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)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
FREEM1	2	b	2	-	-	-	-	2.10 (	1.72-	2.56)
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)
LEE3	5	b	0	1114	16604	1094	13428	0.82 (	0.76-	0.90)
*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	3	m	3	-	-	-	-	1.53 (	1.03-	2.26)
*MCCON1	4	f	3	-	-	-	-	0.84 (	0.59-	1.19)
Subtotal MCCON1								1.10 (	0.84-	1.42)
*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)
NICOLA	1	b	0	126	1043	192	1710	1.08 (	0.85-	1.36)
OCONNE	1	b	0	264	137	136	91	1.29 (	0.92-	1.80)
PIROGO	3	b	0	13	82	4	37	1.47 (	0.45-	4.80)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
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)
*RONMA3	2	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)

Appendix Table C36 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma, Age range includes 10 years
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
WARKE	1	b	0	55	27	119	52	0.89 (	0.51-	1.56)
WOLF02	2	b	7	-	-	-	-	1.35 (	0.75-	2.43)
Partial Totals				9064	44072	9264	51823			
*prospective study										
REF	NRR	SEX	ADJ	Ys		Ws		Qs		Ps
ALBA	1	b	0	-0.09	11.15	0.84	0.7647			
ALDAW0	2	m	0	0.76	8.40	2.79	0.0274			
ALFRA1	2	b	0	0.41	22.65	1.17	0.0498			
ANDRAE	2	b	3	-0.01	54.89	2.09	0.9406			
ANNESI	1	b	0	0.25	89.09	0.42	0.0166			
ARIF	2	b	10	-0.02	23.07	0.97	0.9227			
BARRET	1	b	0	0.52	5.17	0.58	0.2373			
BECKET	6	b	7	0.27	67.46	0.49	0.0266			
BENCIV	3	b	2	0.43	116.67	7.09	0.0000			
BENER	1	b	0	0.24	19.32	0.07	0.2839			
BRABIN	2	b	1	0.06	58.33	0.94	0.6563			
BURCHF	5	m	1	0.22	32.51	0.03	0.2200			
BURCHF	8	f	1	0.00	24.97	0.86	1.0000			
Subtotal BURCHF				-0.16	57.49	0.89				
CHEN2	37	b	6	0.51	12.65	1.36	0.0681			
DODGE	12	b	1	0.41	7.12	0.35	0.2794			
DOLD	21	b	1	0.10	113.12	0.91	0.3107			
ECE	3	b	0	0.18	79.23	0.00	0.1041			
EHRLI2	3	b	0	0.63	11.17	2.18	0.0363			
FARBE2	2	b	3	0.41	57.72	2.97	0.0017			
FAR00Q	1	b	0	0.25	72.93	0.35	0.0297			
FLYNN1	1	b	0	0.23	47.28	0.10	0.1120			
FORAST	20	b	9	0.25	37.10	0.14	0.1327			
FREEM1	2	b	2	0.74	97.16	30.11	0.0000			
GILLIL	4	m	4	-0.07	76.04	5.05	0.5268			
GILLIL	12	f	4	0.05	58.89	1.10	0.7081			
Subtotal GILLIL				-0.39	134.93	6.15				
GOLD	11	b	0	0.26	211.41	1.05	0.0002			
GOREN1	3	b	0	0.07	27.97	0.36	0.7071			
GOREN2	5	b	2	0.22	99.84	0.09	0.0316			
GORTM1	3	b	7	0.40	36.85	1.68	0.0155			
GORTM2	1	b	0	0.63	6.99	1.36	0.0978			
GURKAN	1	b	0	0.63	11.10	2.15	0.0372			
HAJNAL	1	b	13	0.18	63.05	0.00	0.1477			
HU1	4	b	7	-0.22	12.73	2.12	0.4259			
KAY	20	b	1	0.35	38.89	1.06	0.0288			
KENDIR	1	b	0	0.34	99.03	2.48	0.0006			
KIVITY	4	b	0	0.59	13.44	2.18	0.0311			
KUHR	4	b	0	0.70	5.57	1.46	0.0997			
LAM2	1	b	4	-0.09	53.37	4.17	0.4908			
LEE3	5	b	0	-0.19	513.76	73.96	0.0000			
*MARTIN	5	m	1	0.56	11.93	1.67	0.0533			
*MARTIN	6	f	1	0.68	5.55	1.38	0.1075			
Subtotal MARTIN				0.87	17.48	3.05				
*MCCON1	3	m	3	0.43	24.88	1.43	0.0339			
*MCCON1	4	f	3	-0.17	31.22	4.04	0.3300			
Subtotal MCCON1				-0.12	56.10	5.47				
*MCKEEV	4	b	0	0.27	1119.12	8.20	0.0000			
MURRAY	5	m	1	0.34	14.28	0.36	0.1941			
MURRAY	7	f	1	0.27	8.50	0.06	0.4311			
Subtotal MURRAY				0.24	22.78	0.42				
NHANE3	28	b	6	0.15	22.48	0.03	0.4816			
NICOLA	1	b	0	0.07	68.08	0.85	0.5460			

Appendix Table C36 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma, Age range includes 10 years
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
OCONNE	1	b	0	0.25	33.98	0.16	0.1384
PIROGO	3	b	0	0.38	2.73	0.11	0.5269
QIAN	1	b	7	0.75	3.96	1.25	0.1372
RATAGE	1	b	0	0.07	10.00	0.14	0.8330
RENNIE	1	b	6	0.02	13.41	0.37	0.9422
RONCH1	7	b	2	0.34	39.05	0.89	0.0355
RONCH2	3	b	0	0.29	31.60	0.34	0.1048
RONCH3	3	b	0	-0.02	24.61	1.03	0.9224
*RONMA3	2	b	9	0.31	15.08	0.23	0.2324
SELCUK	2	b	6	0.30	112.79	1.49	0.0014
SENNHA	1	b	0	0.23	58.71	0.10	0.0833
*SHERMA	2	b	2	0.17	19.90	0.01	0.4603
SOYSET	14	b	5	1.03	6.43	4.58	0.0090
SQUILL	1	b	0	0.10	18.67	0.13	0.6613
*TAYLOR	4	b	0	-0.04	72.55	3.71	0.7281
TIMONE	1	b	0	-0.58	9.03	5.30	0.0808
VARELA	1	b	0	1.09	2.80	2.28	0.0687
VAVILI	1	b	0	-0.50	11.30	5.26	0.0945
VENNER	6	m	0	0.09	27.66	0.23	0.6182
VENNER	3	f	0	0.18	28.98	0.00	0.3399
Subtotal	VENNER			-0.10	56.63	0.23	
VERHOE	3	b	0	-0.25	17.31	3.29	0.2972
VONMAF	1	b	0	0.23	78.55	0.16	0.0417
WARKE	1	b	0	-0.12	12.07	1.10	0.6860
WOLF02	2	b	7	0.30	11.12	0.15	0.3170

RR data

	N	72
	NS	66
	Wt	4366.44
Het	Chi	207.40
Het	df	71
Het	P	***
Fixed	RR	1.20
	RRl	1.17
	RRu	1.24
	P	+++
Random	RR	1.23
	RRl	1.16
	RRu	1.31
	P	+++
Asymm	P	N.S.

Appendix Table C36 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma, Age range includes 10 years
 Adjusted

RR data

	N	72			
	NS	66			
	Wt	4366.44			
Het	Chi	207.40			
Het	df	71			
Het	P	***			
Fixed	RR	1.20			
	RRl	1.17			
	RRu	1.24			
	P	+++			
Random	RR	1.23			
	RRl	1.16			
	RRu	1.31			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	59	7	6	72
	NS	59	7	6	72
	Wt	4012.62	195.71	158.10	4366.44
Het	Chi	188.27	11.49	4.74	207.40
Het	df	58	6	5	71
Het	P	***	(*)	N.S.	***
Fixed	RR	1.21	1.18	1.06	1.20
	RRl	1.17	1.03	0.90	1.17
	RRu	1.25	1.36	1.23	1.24
	P	+++	+	N.S.	+++
Random	RR	1.24	1.28	1.06	1.23
	RRl	1.16	1.04	0.90	1.16
	RRu	1.32	1.58	1.23	1.31
	P	+++	+	N.S.	+++
Between	Chi				2.90
Between	df				2
Between	P				N.S.

Appendix Table C36 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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 DEKOK HJERN1 LILLJE RIBEIR WEITZ2	AGABI1 DIJKST HJERN2 LINDFO RONMA1 WILLE1	AGABI2 DOTTER HOST LOPEZC SARRAZ WILLE2	ARSHAD DUHME1 HUGHES MAVALE SCHMIT YANG	AZIZI DUHME2 INFANT MELIA SHIVA ZHENG	BALL DUHME3 JAAKKO MELSOM SHOHAT	BERGMA DUHME4 JANG MILLER SOMERV	CALL EHRLI1 JONES MOHAME SOTOQU	CELEDO FAGBUL KABESC MOUSSA SPENGL	CHHABR FORSB1 KALY02 MUMCUO STERN1	CHINN FORSB2 KARUNA NITTA STODDA	CLARK FORSB3 KNIGHT OHARA STRACH	CSONKA FUJI LAU OLIVET STURM	CUNNI1 GUPTA LEE1 PALMIE TARIQ	DAIGLE HABY LEE2 PETERS TOMINA	DEKKER HALONE LEEN PIC WANG
2	AGUDOT KERSHA NILSSO WICKMA	ANNES2 KUEHR ODDY WIJGA	BURR LAM1 POKHAR WITHER	BUTZ LEEDER PONSON WOLF01	CHEN1 LEROUX RASANE WOLF03	DELL LEVES1 RONMA2 XU	FERGUS LEVES2 ROSASV YUAN	FREEM2 LEVES3 SHAMS2 ZEIGER	GOREN3 LIS SHAMSS ZEJDA	GOREN4 LISTER SIGURS	GOREN5 MAIER SPIEKE	GOREN6 MCCON2 STANHO	HU2 MONTEF STAZI	JAAKK2 MONTEI TSIMOY	JENKIN MOYES1 VOLKME	KAPLAN MOYES2 WEITZ1
4	CUNNI2	KELLY	NYSTAD													
5	KASPER															
6	AKCAKA	DEBENE	FIELDE	FLYNN2	KALY01	KEARNE	RUDNIK	SANZOR	SCHENK	STERN2	ULRIK	ZHANG				
16	ALFRA2	FARBE1	FARBE3													

Appendix Table C36 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma, Age range includes 10 years
 Potentially overlapping studies

REF REFGP PRINC			OVERLAP													
GILLIL	GILLIL	1	MCCON1/GILLIL													
MCCON1	MCCON1	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													
WOLF02	WOLF02	1	WOLF01/WOLF02/WOLF03													
NICOLA	NICOLA	1	KABESC/NICOLA													
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3													
Adjusted - insufficient data for metaanalysis																
REF	NRR	SEX	AGEI	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
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
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
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	non	-	* n
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
ZHANG	1	b	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	-	1.04 n

Appendix Table C37 -

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
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 C1 - 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 C37 - 1

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma, Age range above 10 years
 Adjusted

REF	NRR	CompC1	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI	BIOMEA
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never	-
ANNES2	4		b	13	14	all	Eu:wst	1993	2004	CS	2	TotETS	None	current	non	-
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
NILSS0	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	-
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	unspec	non	-
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	-
WOLF03	2		b	16	16	all	Eu:Ger	1985	1995	CS	10	AnyHh	NoHhMemb	current	non	-

Appendix Table C37 - 2

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
Lifetime Asthma, Age range above 10 years
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ANNES2	4	b	2	904	-	699	-	1.10 (	0.90-	1.20)
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)
SHAMS2	2	b	0	-	-	-	-	0.99 (	0.81-	1.18)
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)
WOLF03	2	b	10	-	-	-	-	1.39 (	0.93-	2.06)
Partial Totals				1828	2210	1662	2199			

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.47	0.3979
ANNES2	4	b	2	0.10	185.67	0.00	0.1941
HU2	23	b	3	0.44	31.16	3.67	0.0144
LAM1	8	b	4	-0.08	79.06	2.51	0.4585
LIS	1	b	0	0.31	37.30	1.69	0.0604
MOYES2	1	b	0	-0.06	115.09	2.68	0.5355
NHANE3	25	b	5	0.04	8.65	0.03	0.9082
NILSSO	1	b	0	0.00	31.98	0.29	1.0000
POKHAR	2	b	5	1.20	7.63	9.36	0.0009
RASANE	3	b	3	0.46	27.24	3.71	0.0155
SHAMS2	2	b	0	-0.01	108.55	1.19	0.9166
STANHO	2	b	0	-0.92	4.90	5.02	0.0423
TSIMOY	1	b	0	0.04	2.59	0.01	0.9464
WITHER	1	b	0	0.18	92.49	0.62	0.0890
WOLF03	2	b	10	0.33	24.30	1.34	0.1046

RR data

	N	15
	NS	15
	Wt	759.30
Het	Chi	32.59
Het	df	14
Het	P	**
Fixed	RR	1.10
	RRl	1.02
	RRu	1.18
	P	++
Random	RR	1.15
	RRl	1.01
	RRu	1.31
	P	+
Asymm	P	N.S.

Appendix Table C37 - 3

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma, Age range above 10 years
 Adjusted

RR data

	N	15			
	NS	15			
	Wt	759.30			
Het	Chi	32.59			
Het	df	14			
Het	P	**			
Fixed	RR	1.10			
	RRl	1.02			
	RRu	1.18			
	P	++			
Random	RR	1.15			
	RRl	1.01			
	RRu	1.31			
	P	+			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	15			15
	NS	15			15
	Wt	759.30			759.30
Het	Chi	32.59			32.59
Het	df	14			14
Het	P	**			**
Fixed	RR	1.10			1.10
	RRl	1.02			1.02
	RRu	1.18			1.18
	P	++			++
Random	RR	1.15			1.15
	RRl	1.01			1.01
	RRu	1.31			1.31
	P	+			+
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C37 - 7

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 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 DEKOK HJERN1 LILLJE RIBEIR WEITZ2	AGABI1 DIJKST HJERN2 LINDFO RONMA1 WILLE1	AGABI2 DOTTER HOST LOPEZC SARRAZ WILLE2	ARSHAD DUHME1 HUGHES MAVALE SCHMIT YANG	AZIZI DUHME2 INFANT MELIA SHIVA ZHENG	BALL DUHME3 JAAKO MELSOM SHOHAT SOMERV	BERGMA DUHME4 JANG MILLER SOMERV SOTOQU	CALL EHRLI1 JONES MOHAME SOTOQU SPENGL	CELEDO FAGBUL KABESC MOUSSA SOTOQU SPENGL	CHHABR FORSB1 KALY02 MUMCUO STERN1 STODDA	CHINN FORSB2 KARUNA NITTA STODDA STRACH	CLARK FORSB3 KNIGHT OHARA STRACH STURM	CSONKA FUJI LAU OLIVET STURM TARIQ	CUNNI1 GUPTA LEE1 PALMIE TARIQ TOMINA	DAIGLE HABY LEE2 PETERS TOMINA WANG	DEKKER HALONE LEEN PIC WANG
2	AKCAKA CHEN1 FLYNN2 KAPLAN MAIER RATAGE SPIEKE WIJGA	ALBA CHEN2 FORAST KASPER MARTIN RENNIE SQUILL WOLFO1	ALDAWO CUNNI2 FREEM1 KAY MCCON1 RONCH1 STAZI WOLFO2	ALFRA1 DEBENE FREEM2 KEARNE MCCON2 RONCH2 STERN2 XU	ALFRA2 DELL GILLIL KELLY MCKEEV RONCH3 TAYLOR YUAN	ANDRAE DODGE GOLD KENDIR MONTEF RONMA2 TIMONE ZEIGER	ANNESI DOLD GOREN1 KERSHA MONTEI RONMA3 ULRIK ZEJDA	ARIF ECE GOREN2 KIVITY MOYES1 ROSASV VARELA ZHANG	BARRET EHRLI2 GORTM1 KUEHR MURRAY SANZOR VAVILI	BECKET FARBE1 GORTM2 KUHR NICOLA SCHENK VENNER	BENCIV FARBE2 GURKAN LAM2 NYSTAD SELCHUK VERHOE	BENER HAJNAL LEE3 OCONNE SENNHA VOLKME	BRABIN HU1 LEEDER ODDY SHAMSS VONMAF	BURCHF JAAKK2 LEROUX PIROGO SHERMA WARKE	BURR JENKIN LEVES1 PONSON SIGURS WEITZ1	BUTZ KALY01 LISTER QIAN SOYSET WICKMA
6	GOREN3	GOREN4	GOREN5	GOREN6	LEVES2	LEVES3	RUDNIK									

Appendix Table C37 - 8

Children - Meta-analysis of Exposure during Lifetime, Biochemical/Total (or nearest equivalent)
 Lifetime Asthma, Age range above 10 years
 Potentially overlapping studies

REF		REFGP PRINC				OVERLAP													
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		
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		
LEVES2	1	b	13	13	all	NAmer	1999	2004	CS	0	AnyHh	None	unspec	non	-	*	n		
LEVES3	1	b	16	16	all	NAmer	1999	2004	CS	0	AnyHh	None	unspec	non	-	*	n		
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 C38 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C5 - 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 C38 - 1

Children - Meta-analysis of Parental Exposure during Lifetime, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range below 10 years
 Adjusted

REF	NRR	CompC5	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
MONTEI	1		b	6	7	all	SCAmer	2002	2004	CS	0	AnyPar	NoParent	current	non
PONSON	4		b	0	7	all	Auslia	1988	2000	Pr	6	Mother	NotMothr	<1m	non
RONMA2	1		b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non
RONMA3	3	x	b	7	9	all	Eu:Sca	1996	2002	Pr	7	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
WICKMA	2		b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non

Appendix Table C38 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, Any Parent (or Mother, or Father, if Any not available)
Lifetime Asthma, Age range below 10 years
Adjusted

				Numbers						
REF	NRR	SEX	ADJ	Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
MONTEI	1	b	0	99	-	218	-	1.25 (	0.96-	1.62)
*PONSON	4	b	6	130	-	146	-	1.05 (	0.87-	1.27)
RONMA2	1	b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3	3	b	7	-	-	-	-	1.16 (	0.58-	2.31)
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)
*WICKMA	2	b	8	64	-	251	-	1.65 (	1.21-	2.25)
Partial Totals				1084	637	1799	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	7.17	0.0001
KUEHR	6	b	1	-0.39	19.88	8.73	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
MONTEI	1	b	0	0.22	56.12	0.16	0.0946
*PONSON	4	b	6	0.05	107.38	5.60	0.6131
RONMA2	1	b	7	0.36	43.54	0.28	0.0183
*RONMA3	3	b	7	0.15	8.05	0.13	0.6738
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
*WICKMA	2	b	8	0.50	39.93	2.00	0.0016

RR data

N	18
NS	18
Wt	1269.73
Het Chi	30.82
Het df	17
Het P	*
Fixed RR	1.32
RRl	1.25
RRu	1.39
P	+++
Random RR	1.33
RRl	1.20
RRu	1.46
P	+++
Asymm P	N.S.

Appendix Table C38 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range below 10 years
 Adjusted

RR data

	N	18			
	NS	18			
	Wt	1269.73			
Het	Chi	30.82			
Het	df	17			
Het	P	*			
Fixed	RR	1.32			
	RRl	1.25			
	RRu	1.39			
	P	+++			
Random	RR	1.33			
	RRl	1.20			
	RRu	1.46			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	18			18
	NS	18			18
	Wt	1269.73			1269.73
Het	Chi	30.82			30.82
Het	df	17			17
Het	P	*			*
Fixed	RR	1.32			1.32
	RRl	1.25			1.25
	RRu	1.39			1.39
	P	+++			+++
Random	RR	1.33			1.33
	RRl	1.20			1.20
	RRu	1.46			1.46
	P	+++			+++
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C38 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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 DEKOK HJERN1 LILLJE RIBEIR WEITZ2	AGABI1 DIJKST HJERN2 LINDFO RONMA1 WILLE1	AGABI2 DOTTER HOST LOPEZC SARRAZ WILLE2	ARSHAD DUHME1 HUGHES MAVALE SCHMIT YANG	AZIZI DUHME2 INFANT MELIA SHIVA ZHENG	BALL DUHME3 JAAKKO MELSOM SHOHAT SOMERV	BERGMA DUHME4 JANG MILLER SOTOQU SPENGL	CALL EHRLI1 JONES MOHAME SOTOQU SPENGL	CELEDO FAGBUL KABESC MOUSSA SPENGL STERN1	CHHABR FORSB1 KARUNA MUMCUO STODDA STRACH	CHINN FORSB2 KNIGHT NITTA STODDA STRACH	CLARK FORSB3 LAU OHARA STRACH STURM	CSONKA FUJI LEE1 OLIVET STURM TARIQ	CUNNI1 GUPTA LEE2 PALMIE TOMINA TOMINA	DAIGLE HABY LEE2 PETERS TOMINA TOMINA	DEKKER HALONE LEEN PIC WANG WANG
2	AGUDOT BUTZ FREEM1 KASPER MURRAY SCHENK VONMAF	AKCAKA CHEN2 GILLIL KAY NICOLA SELCUK WARKE	ALBA CUNNI2 GOLD KEARNE NILSSO SENNHA WITHER	ALDAWO DEBENE GOREN1 KELLY NYSTAD SHAMS2 WOLFO2	ALFRA1 DODGE GOREN2 KENDIR OCONNE SHERMA WOLFO3	ALFRA2 DOLD GOREN3 KIVITY PIROGO SOYSET ZHANG	ANDRAE ECE GOREN4 KUHR POKHAR SQUILL STANHO	ANNES2 EHRLI2 GOREN5 LAM1 QIAN RASANE STERN2	ANNESI FARBE1 GOREN6 LAM2 RASANE STERN2 TIMONE	ARIF FARBE2 GORTM1 LEE3 RATAGE TIMONE TIMONE	BARRET FARBE3 GORTM2 LEVES2 RENNIE TSIMOY ULRIK	BECKET FAR00Q GURKAN LEVES3 RONCH1 ULRIK VARELA	BENCIV FIELDE HAJNAL LIS RONCH2 VARELA VAVILI	BENER FLYNN1 HU1 MARTIN RONCH3 VENNER VENNER	BRABIN FLYNN2 HU2 MCCON1 RUDNIK VENNER VERHOE	BURCHF FORAST KALY01 MOYES2 SANZOR VERHOE VERHOE
3	CHEN1	FREEM2	LEVES1	MAIER	MONTEF	MOYES1	ODDY	SPIEKE	WIJGA	WOLFO1						
4	JAAKK2	KAPLAN	NHANE3	TAYLOR	WEITZ1	XU	YUAN									
6	BURR	STAZI	VOLKME	ZEIGER	ZEJDA											

Appendix Table C38 - 8

Children - Meta-analysis of Parental Exposure during Lifetime, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range below 10 years
 Potentially overlapping studies

REF REFGP PRINC			OVERLAP													
KUEHR	KUEHR	1	KUEHR/SPIEKE													
RONMA2	RONMA1	2	RONMA1/RONMA2/RONMA3													
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3													
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 C39 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C5 - 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 C39 - 1

Children - Meta-analysis of Parental Exposure during Lifetime, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range includes 10 years
 Adjusted

REF	NRR	CompC5	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
ALDAW0	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
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	Mother	NotMothr	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
EHLI2	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
FAR00Q	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
OCONE	1		b	2	16	all	NAmer	1969	1974	CC	0	AnyPar	NoParent	unspec	non
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	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
RONMA3	2		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
WARKE	1		b	5	14	all	Eu:UK	*	2003	CC	0	AnyPar	LowParnt	unspec	non

Appendix Table C39 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range includes 10 years
 Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed	Control	Case	Control			
ALBA	2	b	0	32	30	70	72	1.10 (	0.60-	1.99)
ALDAW0	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)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
FAR00Q	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)
OCONE	1	b	0	264	137	136	91	1.29 (	0.92-	1.80)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
RATAGE	2	b	0	51	29	69	31	0.79 (	0.42-	1.47)
RENNIE	1	b	6	-	-	-	-	1.02 (	0.60-	1.75)
*RONMA3	2	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)
WARKE	1	b	0	55	27	119	52	0.89 (	0.51-	1.56)
Partial Totals				5360	22869	6296	33683			
*prospective study										

Appendix Table C39 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	0.25	0.7608
ALDAW0	2	m	0	0.76	8.40	2.24	0.0274
ALFRA1	2	b	0	0.41	22.65	0.64	0.0498
ANDRAE	2	b	3	-0.01	54.89	3.56	0.9406
ANNESI	1	b	0	0.25	89.09	0.01	0.0166
BENCIV	3	b	2	0.43	116.67	4.09	0.0000
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	
CHEN2	34	b	6	0.51	15.10	1.09	0.0463
DODGE	12	b	1	0.41	7.12	0.18	0.2794
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	2	b	3	0.41	57.72	1.62	0.0017
FAR00Q	1	b	0	0.25	72.93	0.01	0.0297
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	4	b	0	0.36	23.61	0.29	0.0838
GOREN2	5	b	2	0.22	99.84	0.09	0.0316
GORTM1	3	b	7	0.40	36.85	0.88	0.0155
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	4	b	7	-0.22	12.73	2.78	0.4259
KAY	20	b	1	0.35	38.89	0.44	0.0288
KIVITY	4	b	0	0.59	13.44	1.58	0.0311
KUHR	4	b	0	0.70	5.57	1.14	0.0997
LAM2	9	b	4	-0.14	42.22	6.22	0.3655
*MARTIN	5	m	1	0.56	11.93	1.18	0.0533
*MARTIN	6	f	1	0.68	5.55	1.07	0.1075
Subtotal MARTIN				0.75	17.48	2.25	
*MCCON1	2	b	5	-0.01	24.89	1.61	0.9600
*MCKEEV	4	b	0	0.27	1119.12	0.78	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				0.12	22.78	0.15	
OCONNE	1	b	0	0.25	33.98	0.00	0.1384
QIAN	1	b	7	0.75	3.96	1.00	0.1372
RATAGE	2	b	0	-0.24	9.92	2.29	0.4582
RENNIE	1	b	6	0.02	13.41	0.68	0.9422
*RONMA3	2	b	9	0.31	15.08	0.06	0.2324
*SHERMA	2	b	2	0.17	19.90	0.12	0.4603
SOYSET	14	b	5	1.03	6.43	3.96	0.0090
*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
WARKE	1	b	0	-0.12	12.07	1.57	0.6860

Appendix Table C39 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range includes 10 years
 Adjusted

RR data

	N	46
	NS	42
	Wt	2721.98
Het	Chi	58.81
Het	df	45
Het	P	(*)
Fixed	RR	1.28
	RRl	1.23
	RRu	1.33
	P	+++
Random	RR	1.26
	RRl	1.19
	RRu	1.33
	P	+++
Asymm	P	N.S.

Appendix Table C39 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range includes 10 years
 Adjusted

RR data

	N	46			
	NS	42			
	Wt	2721.98			
Het	Chi	58.81			
Het	df	45			
Het	P	(*)			
Fixed	RR	1.28			
	RRl	1.23			
	RRu	1.33			
	P	+++			
Random	RR	1.26			
	RRl	1.19			
	RRu	1.33			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	37	5	4	46
	NS	37	5	4	46
	Wt	2559.19	94.79	68.00	2721.98
Het	Chi	51.90	4.01	2.27	58.81
Het	df	36	4	3	45
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	1.33	1.64	1.50	1.33
	P	+++	++	N.S.	+++
Random	RR	1.25	1.34	1.18	1.26
	RRl	1.18	1.09	0.93	1.19
	RRu	1.33	1.64	1.50	1.33
	P	+++	++	N.S.	+++
Between	Chi				0.64
Between	df				2
Between	P				N.S.

Appendix Table C39 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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 DEKOK HJERN1 LILLJE RIBEIR WEITZ2	AGABI1 DIJKST HJERN2 LINDFO RONMA1 WILLE1	AGABI2 DOTTER HOST LOPEZC SARRAZ WILLE2	ARSHAD DUHME1 HUGHES MAVALE SCHMIT YANG	AZIZI DUHME2 INFANT MELIA SHIVA ZHENG	BALL DUHME3 JAAKKO MELSOM SHOHAT	BERGMA DUHME4 JANG MILLER SOMERV	CALL EHRLI1 JONES MOHAME SOTOQU	CELEDO FAGBUL KABESC MOUSSA SPENGL	CHHABR FORSB1 KALY02 MUMCUO STERN1	CHINN FORSB2 KARUNA NITTA STODDA	CLARK FORSB3 KNIGHT OHARA STRACH	CSONKA FUJI LAU OLIVET STURM	CUNNI1 GUPTA LEE1 PALMIE TARIQ	DAIGLE HABY LEE2 PETERS TOMINA	DEKKER HALONE LEEN PIC WANG
2	AGUDOT KERSHA NILSSO WICKMA	ANNES2 KUEHR ODDY WIJGA	BURR LAM1 POKHAR WITHER	BUTZ LEEDER PONSON WOLFO1	CHEN1 LEROUX RASANE WOLFO3	DELL LEVES1 RONMA2 XU	FERGUS LEVES2 ROSASV YUAN	FREEM2 LEVES3 SHAMS2 ZEIGER	GOREN3 LIS SHAMSS ZEJDA	GOREN4 LISTER SIGURS GURKAN	GOREN5 MAIER SPIEKE KALY01	GOREN6 MCCON2 STANHO KASPER	HU2 MONTEF STAZI KEARNE	JAAKK2 MONTEI TSIMOY KENDIR	JENKIN MOYES1 VOLKME NHANE3	KAPLAN MOYES2 WEITZ1 NICOLA
3	AKCAKA PIROGO CUNNI2	ARIF RONCH1 GILLIL	BARRET RONCH2 KELLY	BECKET RONCH3 LEE3	BRABIN RUDNIK NYSTAD	FIELDE SELCUK ULRIK	FLYNN1 SENNHA VONMAF	FLYNN2 SQUILL ZHANG	FREEM1 TIMONE	GURKAN VARELA	KALY01 VAVILI	KASPER WOLF02	KEARNE	KENDIR	NHANE3	NICOLA
6	DEBENE	SANZOR	SCHENK	STERN2	ULRIK	VONMAF	ZHANG									
14	ALFRA2	FARBE1	FARBE3													

Appendix Table C39 - 8

Children - Meta-analysis of Parental Exposure during Lifetime, 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	MCCON1	1	MCCON1/GILLIL													
FARBE2	FARBE2	1	FARBE1/FARBE2/FARBE3													
ALFRA1	ALFRA1	1	ALFRA1/ALFRA2													
GOREN1	GOREN1	1	GOREN1/GOREN3/4/5/6													
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3													
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
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	unspec	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
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
ZHANG	1	b	5	16	all	As:FE	1993	2002	CS	19	AnyPar	NoParent	unspec	non	1.04	n

Appendix Table C40 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C5 - 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 C40 - 1

Children - Meta-analysis of Parental Exposure during Lifetime, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range above 10 years
 Adjusted

REF	NRR	CompC5	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never
HU2	23		b	20	22	all	NAmer	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
NILSS0	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
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	unspec	non
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 C40 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, 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	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
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)
NILSS0	1	b	0	-	-	-	-	1.00 (	0.70-	1.40)
RASANE	3	b	3	101	-	76	-	1.59 (	1.09-	2.31)
SHAMS2	2	b	0	-	-	-	-	0.99 (	0.81-	1.18)
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
AGUDOT	2	b	4	0.51	2.72	0.29	0.3979
HU2	23	b	3	0.44	31.16	1.97	0.0144
LAM1	18	b	4	0.28	10.02	0.08	0.3796
LIS	1	b	0	0.31	37.30	0.54	0.0604
NILSS0	1	b	0	0.00	31.98	1.11	1.0000
RASANE	3	b	3	0.46	27.24	2.09	0.0155
SHAMS2	2	b	0	-0.01	108.55	4.20	0.9166
STANHO	2	b	0	-0.92	4.90	5.97	0.0423
WITHER	6	b	5	0.41	50.42	2.41	0.0040

RR data

	N	9
	NS	9
	Wt	304.28
Het	Chi	18.68
Het	df	8
Het	P	*
Fixed	RR	1.21
	RRl	1.08
	RRu	1.35
	P	++
Random	RR	1.24
	RRl	1.02
	RRu	1.50
	P	+
Asymm	P	N.S.

Appendix Table C40 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Any Parent (or Mother, or Father, if Any not available)
 Lifetime Asthma, Age range above 10 years
 Adjusted

RR data

	N	9			
	NS	9			
	Wt	304.28			
Het	Chi	18.68			
Het	df	8			
Het	P	*			
Fixed	RR	1.21			
	RRl	1.08			
	RRu	1.35			
	P	++			
Random	RR	1.24			
	RRl	1.02			
	RRu	1.50			
	P	+			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	9			9
	NS	9			9
	Wt	304.28			304.28
Het	Chi	18.68			18.68
Het	df	8			8
Het	P	*			*
Fixed	RR	1.21			1.21
	RRl	1.08			1.08
	RRu	1.35			1.35
	P	++			++
Random	RR	1.24			1.24
	RRl	1.02			1.02
	RRu	1.50			1.50
	P	+			+
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C40 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
2	AKCAKA	ALBA	ALDAW0	ALFRA1	ALFRA2	ANDRAE	ANNESI	ARIF	BARRET	BECKET	BENCIV	BENER	BRABIN	BURCHF	BURR	BUTZ
	CHEN1	CHEN2	CUNNI2	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAR00Q	FERGUS	FIELDE	FLYNN1
	FLYNN2	FORAST	FREEM1	FREEM2	GILLIL	GOLD	GOREN1	GOREN2	GORTM1	GORTM2	GURKAN	HAJNAL	HU1	JAAKK2	JENKIN	KALY01
	KAPLAN	KASPER	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KUEHR	KUHR	LAM2	LEE3	LEEDER	LEROUX	LEVES1	LISTER
	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MONTEF	MONTEI	MOYES1	MURRAY	NICOLA	NYSTAD	OCONE	ODDY	PIROGO	PONSON	QIAN
	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	RONMA2	RONMA3	ROSASV	SANZOR	SCHENK	SELCUK	SENNHA	SHAMSS	SHERMA	SIGURS	SOYSET
	SPIEKE	SQUILL	STAZI	STERN2	TAYLOR	TIMONE	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WARKE	WEITZ1	WICKMA
	WIJGA	WOLF01	WOLF02	XU	YUAN	ZEIGER	ZEJDA	ZHANG								
3	ANNES2	LEVES2	LEVES3	MOYES2	NHANE3	POKHAR	RUDNIK	TSIMOY	WOLF03							
6	GOREN3	GOREN4	GOREN5	GOREN6												

Appendix Table C40 - 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
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 C41 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C41 - 1

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Lifetime Asthma
Adjusted

REF	NRR	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 C41 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed		Case	Control			
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 C41 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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.						
			Sex					
		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.			
			Continent					
	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	
	RRL	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	
	RRL	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 C41 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
 Lifetime Asthma
 Adjusted

RR data

		UK	Italy	Country in Europe Germany	Scand	othWest	East/Bal	Total
	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			Total
		FarEast	Cent/SE	MidlEast	
	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				Total
		<1970	1970-79	1980-89	1990+	unknown
	N	2	2	4		1
	NS	1	2	4		1
	Wt	50.56	30.56	160.10		19.19
Het	Chi	1.32	0.90	7.58		0.00
Het	df	1	1	3		0
Het	P	N.S.	N.S.	(*)		N.S.
Fixed	RR	1.50	1.19	1.36		1.93
	RRL	1.14	0.84	1.16		1.23
	RRu	1.97	1.70	1.58		3.02
	P	++	N.S.	+++		++
Random	RR	1.49	1.19	1.44		1.93
	RRL	1.08	0.84	1.10		1.23
	RRu	2.05	1.70	1.90		3.02
	P	+	N.S.	++		++
Between	Chi					3.15
Between	df					3
Between	P					N.S.

Appendix Table C41 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C41 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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 ETS exposure
 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 C41 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C41 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
 Lifetime Asthma
 Adjusted

Analysis type
 prevlence 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 C41 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C41 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
 Adjusted
 Lifetime Asthma

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 C41 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C41 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
 Lifetime Asthma

Adjusted
 Study 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 C41 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
 Lifetime Asthma
 Adjusted

Exposed 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
 NoHhMem 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 C41 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically

		Lifetime Asthma					
		Adjusted					
		Number of adjustment variables					
		0	1	2	3-5	6-9	10+
		Total					
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						
	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 C41 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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
	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.

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
	RRl	1.42	1.12	1.24
	RRu	2.34	1.48	1.58
	P	+++	+++	+++
Random	RR	1.84	1.29	1.44
	RRl	1.41	1.12	1.22
	RRu	2.39	1.48	1.70
	P	+++	+++	+++
Between	Chi			5.71
Between	df			1
Between	P			*

	Original	Derivation of RR/CI		Other	Total
		Numbers	SumNumbs		
	N	2	3	2	9
	NS	2	3	1	8
	Wt	37.16	128.28	44.39	50.56
Het	Chi	3.13	1.35	3.43	1.32
Het	df	1	2	1	8
Het	P	(*)	N.S.	(*)	N.S.
Fixed	RR	1.78	1.27	1.40	1.50
	RRl	1.29	1.06	1.05	1.14
	RRu	2.46	1.51	1.88	1.97
	P	+++	++	+	+++
Random	RR	1.98	1.27	1.44	1.49
	RRl	1.05	1.06	0.83	1.08
	RRu	3.76	1.51	2.50	2.05
	P	+	++	N.S.	+
Between	Chi				3.72
Between	df				3
Between	P				N.S.

Appendix Table C41 - 4

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C41 - 5

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Lifetime Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed Case	Control	Case	Control			
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 C41 - 6

Children - Meta-analysis of Parental Exposure during Lifetime, 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						
	RRL	1.28						
	RRU	1.63						
	P	+++						
Random	RR	1.55						
	RRL	1.24						
	RRU	1.92						
	P	+++						
Asymm	P	N.S.						
			Sex					
		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			
	RRL	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			
	RRL	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.			
			Continent					
	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	
	RRL	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	
	RRL	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 C41 - 6

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
 Lifetime Asthma
 Unadjusted

Start year of study
 <1970 1970-79 1980-89 1990+ unknown Total

RR data

	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					
	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 C41 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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 DEKOK HJERN1 LILLJE RIBEIR WEITZ2	AGABI1 DIJKST HJERN2 LINDFO RONMA1 WILLE1	AGABI2 DOTTER HOST LOPEZC SARRAZ WILLE2	ARSHAD DUHME1 HUGHES MAVALE SCHMIT YANG	AZIZI DUHME2 INFANT MELIA SHIVA ZHENG	BALL DUHME3 JAAKKO MELSOM SHOHAT ZHENG	BERGMA DUHME4 JANG MILLER SOMERV SOTOQU	CALL EHRLI1 JONES MOHAME SOTOQU SPENGL	CELEDO FAGBUL KABESC MOUSSA STERN1 STODDA	CHHABR FORSB1 KARUNA MUMCUO STODDA STRACH	CHINN FORSB2 KNIGHT NITTA STRACH STURM	CLARK FORSB3 LAU OHARA STRACH STURM	CSONKA FUJI LEE1 OLIVET TARIQ TOMINA	CUNNI1 GUPTA LEE2 PALMIE TOMINA WANG	DAIGLE HABY LEE2 PETERS TOMINA WANG	DEKKER HALONE LEEN PIC WANG XU
2	AGUDOT BUTZ FREEM2 KAPLAN LEVES3 NYSTAD RUDNIK ULRIK YUAN	AKCAKA CHEN1 GILLIL KASPER LIS OCONNE SANZOR VARELA ZEIGER	ALBA CHEN2 GOLD KEARNE LISTER ODDY SCHENK VAVILI ZEJDA	ALDAWO CUNNI2 GOREN1 KELLY MAIER PIROGO SELCUK VENNER ZHANG	ALFRA1 DEBENE GOREN3 KENDIR MARTIN POKHAR SENNHA VERHOE Zhang	ALFRA2 DELL GOREN4 KERSHA MCCON1 PONSON SHERMA VONMAF Zhang	ANDRAE ECE GOREN5 KIVITY MCCON2 QIAN SIGURS VONMAF Zhang	ANNES2 EHRLI2 GOREN6 KUEHR MCKEEV RASANE SOYSET WARKE Zhang	ANNESI FARBE1 GORTM1 KUHR MONTEF RATAGE SPIEKE WICKMA Zhang	ARIF FARBE2 GORTM2 LAM1 MONTEI RONCH1 SQUILL WICKMA Zhang	BARRET FARBE3 GURKAN LAM2 MOYES1 RONCH2 STANHO WICKMA Zhang	BECKET FAR00Q HAJNAL LEE3 MOYES2 RONCH3 STAZI WICKMA Zhang	BENCIV FIELDE HU1 LEEDER MURRAY RONMA2 STERN2 WOLF01 Zhang	BENER FLYNN1 JAACK2 LEROUX NHANE3 RONMA3 TAYLOR WOLF02 Zhang	BRABIN FLYNN2 JENKIN LEVES1 NICOLA RONMA3 TIMONE WOLF03 Zhang	BURR FREEM1 KALY01 LEVES2 NILSSO ROSASV TSIMOY XU
5	SHAMS2	SHAMSS														

Appendix Table C41 - 8

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
SHAMS2	4	b	13	14	all	Eu:UK	*	2001	CS	0	NoParent	unspec	non	1.23	?
SHAMSS	4	b	6	7	all	Eu:UK	*	1999	CS	0	NoParent	unspec	non	1.55	?

Appendix Table C42 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C41 - 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 C42 - 1

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Lifetime Asthma
Adjusted

REF	NRR	CompC41	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 C42 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed Case	Control	Case	Control			
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 C42 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C42 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Lifetime Asthma
Excluded studies (and stage at which they were excluded)

[illegible]

Appendix Table C42 - 8

REF	NRR	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	UNEXsource	EXPOS-time	UNEXTI	RR	SIG
SHAMSS	4	b	13	14	all	Eu:UK	*	2001	CS	0	NoParent	unspec	non	1.23	?
SHAMSS	4	b	6	7	all	Eu:UK	*	1999	CS	0	NoParent	unspec	non	1.55	?

Appendix Table C43 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C43 - 1

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Current Asthma
Adjusted

REF	NRR	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
MAVALE	3	b	1	8	all	Africa	1999	2004	CC	0	NoParent	unspec	non
WILLE1	4	b	3	15	all	Eu:Sca	1988	1991	CC	0	NoParent	current	non

Appendix Table C43 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed		Case	Control			
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)
MAVALE	3	b	0	4	2	63	78	2.48 (	0.44-	13.96)
WILLE1	4	b	0	14	18	12	30	1.94 (	0.74-	5.12)
Partial Totals				533	20	510	108			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	10	b	11	0.30	79.89	0.16	0.0073
AGABI2	10	b	12	0.25	102.91	0.84	0.0098
ARSHAD	2	b	7	2.40	1.75	7.39	0.0015
GILLIL	38	b	8	0.34	17.45	0.00	0.1598
HU2	20	b	3	1.19	8.74	6.30	0.0004
MAVALE	3	b	0	0.91	1.28	0.41	0.3042
WILLE1	4	b	0	0.66	4.10	0.42	0.1779

RR data

	N	7
	NS	7
	Wt	216.14
Het	Chi	15.52
Het	df	6
Het	P	*
Fixed	RR	1.41
	RRl	1.24
	RRu	1.61
	P	+++
Random	RR	1.69
	RRl	1.25
	RRu	2.27
	P	+++
Asymm	P	*

Appendix Table C43 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Current Asthma
Adjusted

RR data

	N	7							
	NS	7							
	Wt	216.14							
Het	Chi	15.52							
Het	df	6							
Het	P	*							
Fixed	RR	1.41							
	RRl	1.24							
	RRu	1.61							
	P	+++							
Random	RR	1.69							
	RRl	1.25							
	RRu	2.27							
	P	+++							
Asymm	P	*							
			Sex						
		both	male	female				Total	
	N	7						7	
	NS	7						7	
	Wt	216.14						216.14	
Het	Chi	15.52						15.52	
Het	df	6						6	
Het	P	*						*	
Fixed	RR	1.41						1.41	
	RRl	1.24						1.24	
	RRu	1.61						1.61	
	P	+++						+++	
Random	RR	1.69						1.69	
	RRl	1.25						1.25	
	RRu	2.27						2.27	
	P	+++						+++	
Between	Chi								
Between	df								
Between	P							N.S.	
			Continent						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total	
	N	2		4			1	7	
	NS	2		4			1	7	
	Wt	26.20		188.66			1.28	216.14	
Het	Chi	4.28		8.48			0.00	15.52	
Het	df	1		3			0	6	
Het	P	*		*			N.S.	*	
Fixed	RR	1.86		1.35			2.48	1.41	
	RRl	1.27		1.17			0.44	1.24	
	RRu	2.73		1.56			13.96	1.61	
	P	++		+++			N.S.	+++	
Random	RR	2.08		1.51			2.48	1.69	
	RRl	0.90		1.08			0.44	1.25	
	RRu	4.81		2.10			13.96	2.27	
	P	(+)		+			N.S.	+++	
Between	Chi							2.76	
Between	df							2	
Between	P							N.S.	

Appendix Table C43 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically

				Current Asthma Adjusted				
		Country in Europe						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
	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	5		7	
	NS			2	5		7	
	Wt			12.85	203.29		216.14	
	Het Chi			0.78	8.43		15.52	
	Het df			1	4		6	
	Het P			N.S.	(*)		*	
	Fixed RR			2.79	1.35		1.41	
	RRl			1.61	1.18		1.24	
	RRu			4.82	1.55		1.61	
	P			+++	+++		+++	
	Random RR			2.79	1.44		1.69	
	RRl			1.61	1.11		1.25	
	RRu			4.82	1.88		2.27	
	P			+++	++		+++	
	Between Chi						6.31	
	Between df						1	
	Between P						*	

Appendix Table C43 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically

		Current Asthma Adjusted			
		Publication year			Total
		<1990	1990-94	1995-99	
RR data					
	N		2	3	7
	NS		2	3	7
	Wt		5.86	191.54	216.14
	Het Chi		3.69	7.15	15.52
	Het df		1	2	6
	Het P		(*)	*	*
Fixed	RR		3.27	1.37	1.46
	RRl		1.45	1.19	0.93
	RRu		7.34	1.58	2.29
	P		++	+++	N.S.
Random	RR		4.21	1.52	1.46
	RRl		0.78	1.11	0.93
	RRu		22.77	2.09	2.29
	P		(+)	++	N.S.
Between	Chi				4.30
Between	df				2
Between	P				N.S.
		Study type			
		CC	Pr	CS	Total
	N	4	2	1	7
	NS	4	2	1	7
	Wt	188.19	10.50	17.45	216.14
	Het Chi	1.20	2.12	0.00	15.52
	Het df	3	1	0	6
	Het P	N.S.	N.S.	N.S.	*
Fixed	RR	1.33	4.04	1.40	1.41
	RRl	1.16	2.20	0.88	1.24
	RRu	1.54	7.39	2.24	1.61
	P	+++	+++	N.S.	+++
Random	RR	1.33	4.99	1.40	1.69
	RRl	1.16	1.63	0.88	1.25
	RRu	1.54	15.28	2.24	2.27
	P	+++	++	N.S.	+++
Between	Chi				12.21
Between	df				2
Between	P				**
		Highest age in RR			
		0-9	10-14	15+	unknown
	N	3	1	3	
	NS	3	1	3	
	Wt	82.93	102.91	30.30	216.14
	Het Chi	7.96	0.00	4.29	15.52
	Het df	2	0	2	6
	Het P	*	N.S.	N.S.	*
Fixed	RR	1.42	1.29	1.87	1.41
	RRl	1.15	1.06	1.31	1.24
	RRu	1.77	1.56	2.68	1.61
	P	++	++	+++	+++
Random	RR	2.91	1.29	2.01	1.69
	RRl	0.77	1.06	1.14	1.25
	RRu	10.99	1.56	3.55	2.27
	P	N.S.	++	+	+++
Between	Chi				3.28
Between	df				2
Between	P				N.S.

Appendix Table C43 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
 Current Asthma
 Adjusted

general Population setting
 school medical allergy other Total

RR data

N		4	2	1	7
NS		4	2	1	7
Wt		209.00	5.39	1.75	216.14
Het Chi		7.15	0.06	0.00	15.52
Het df		3	1	0	6
Het P		(*)	N.S.	N.S.	*
Fixed RR		1.37	2.06	11.00	1.41
RRl		1.20	0.89	2.51	1.24
RRu		1.57	4.79	48.30	1.61
P		+++	(+)	++	+++
Random RR		1.47	2.06	11.00	1.69
RRl		1.15	0.89	2.51	1.25
RRu		1.88	4.79	48.30	2.27
P		++	(+)	++	+++
Between Chi					8.31
Between df					2
Between P					*

Respondent for ETS exposure
 child parent med rec mix/oth Total

N		5		2	7
NS		5		2	7
Wt		189.94		26.20	216.14
Het Chi		8.95		4.28	15.52
Het df		4		1	6
Het P		(*)		*	*
Fixed RR		1.36		1.86	1.41
RRl		1.18		1.27	1.24
RRu		1.57		2.73	1.61
P		+++		++	+++
Random RR		1.52		2.08	1.69
RRl		1.11		0.90	1.25
RRu		2.07		4.81	2.27
P		++		(+)	+++
Between Chi					2.30
Between df					1
Between P					N.S.

Child smokers
 exc/none included ignored Total

N	2	2	3	7
NS	2	2	3	7
Wt	97.35	111.65	7.14	216.14
Het Chi	0.02	7.11	3.77	15.52
Het df	1	1	2	6
Het P	N.S.	**	N.S.	*
Fixed RR	1.36	1.39	3.11	1.41
RRl	1.11	1.15	1.49	1.24
RRu	1.66	1.67	6.47	1.61
P	++	+++	++	+++
Random RR	1.36	1.95	3.49	1.69
RRl	1.11	0.78	1.19	1.25
RRu	1.66	4.87	10.23	2.27
P	++	N.S.	+	+++
Between Chi				4.62
Between df				2
Between P				(*)

Appendix Table C43 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
 Current Asthma
 Adjusted

Physician diagnosis (current)
 yes no/mix Total

RR data

	N	3	4	7	
	NS	3	4	7	
	Wt	7.14	209.00	216.14	
Het	Chi	3.77	7.15	15.52	
Het	df	2	3	6	
Het	P	N.S.	(*)	*	
Fixed	RR	3.11	1.37	1.41	
	RRl	1.49	1.20	1.24	
	RRu	6.47	1.57	1.61	
	P	++	+++	+++	
Random	RR	3.49	1.47	1.69	
	RRl	1.19	1.15	1.25	
	RRu	10.23	1.88	2.27	
	P	+	++	+++	
Between	Chi			4.60	
Between	df			1	
Between	P			*	
Respondent for diagnosis (current)					
	medrec	parent	child	mixed	Total
	N	3	3	1	7
	NS	3	3	1	7
	Wt	7.14	200.26	8.74	216.14
Het	Chi	3.77	0.15	0.00	15.52
Het	df	2	2	0	6
Het	P	N.S.	N.S.	N.S.	*
Fixed	RR	3.11	1.32	3.30	1.41
	RRl	1.49	1.15	1.70	1.24
	RRu	6.47	1.52	6.40	1.61
	P	++	+++	+++	+++
Random	RR	3.49	1.32	3.30	1.69
	RRl	1.19	1.15	1.70	1.25
	RRu	10.23	1.52	6.40	2.27
	P	+	+++	+++	+++
Between	Chi				11.60
Between	df				2
Between	P				**

Questionnaire for symptoms
 ISAAC ATS other Total

	N	2	5	7	
	NS	2	5	7	
	Wt	182.80	33.34	216.14	
Het	Chi	0.09	9.52	15.52	
Het	df	1	4	6	
Het	P	N.S.	*	*	
Fixed	RR	1.32	2.08	1.41	
	RRl	1.14	1.48	1.24	
	RRu	1.52	2.92	1.61	
	P	+++	+++	+++	
Random	RR	1.32	2.55	1.69	
	RRl	1.14	1.37	1.25	
	RRu	1.52	4.74	2.27	
	P	+++	++	+++	
Between	Chi			5.91	
Between	df			1	
Between	P			*	

Appendix Table C43 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically

Current Asthma Adjusted					Total
Number of cases (current asthma)					
	1-50	51-100	101-200	201+ unknown	
N	2	1	1	3	7
NS	2	1	1	3	7
Wt	5.86	1.28	8.74	200.26	216.14
Het Chi	3.69	0.00	0.00	0.15	15.52
Het df	1	0	0	2	6
Het P	(*)	N.S.	N.S.	N.S.	*
Fixed RR	3.27	2.48	3.30	1.32	1.41
RRl	1.45	0.44	1.70	1.15	1.24
RRu	7.34	13.96	6.40	1.52	1.61
P	++	N.S.	+++	+++	+++
Random RR	4.21	2.48	3.30	1.32	1.69
RRl	0.78	0.44	1.70	1.15	1.25
RRu	22.77	13.96	6.40	1.52	2.27
P	(+)	N.S.	+++	+++	+++
Between Chi					11.68
Between df					3
Between P					**

Study adjusts for or is matched on sex

		Yes	No	Total
RR data	N	5	2	7
	NS	5	2	7
Fixed	Wt	210.75	5.39	216.14
	Het Chi	14.68	0.06	15.52
	Het df	4	1	6
	Het P	**	N.S.	*
	RR	1.40	2.06	1.41
	RRl	1.22	0.89	1.24
	RRu	1.60	4.79	1.61
	P	+++	(+)	+++
	Random RR	1.67	2.06	1.69
	RRl	1.20	0.89	1.25
Random	RRu	2.33	4.79	2.27
	P	++	(+)	+++
Between	Chi			0.79
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on age

RR data	N	4	3	7
	NS	4	3	7
Fixed	Wt	201.54	14.60	216.14
	Het Chi	0.66	3.69	15.52
	Het df	3	2	6
	Het P	N.S.	N.S.	*
	RR	1.33	3.29	1.41
	RRl	1.16	1.97	1.24
	RRu	1.52	5.49	1.61
	P	+++	+++	+++
	Random RR	1.33	3.50	1.69
	RRl	1.16	1.63	1.25
Random	RRu	1.52	7.52	2.27
	P	+++	++	+++
Between	Chi			11.18
Between	df			1
Between	P			***

Appendix Table C43 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Current Asthma

Adjusted
Study adjusts for or is matched on race
Yes No Total

RR data

N	2	5	7
NS	2	5	7
Wt	26.20	189.94	216.14
Het Chi	4.28	8.95	15.52
Het df	1	4	6
Het P	*	(*)	*
Fixed RR	1.86	1.36	1.41
RRl	1.27	1.18	1.24
RRu	2.73	1.57	1.61
P	++	+++	+++
Random RR	2.08	1.52	1.69
RRl	0.90	1.11	1.25
RRu	4.81	2.07	2.27
P	(+)	++	+++
Between Chi			2.30
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	3	4	7
NS	3	4	7
Wt	200.26	15.89	216.14
Het Chi	0.15	3.79	15.52
Het df	2	3	6
Het P	N.S.	N.S.	*
Fixed RR	1.32	3.21	1.41
RRl	1.15	1.96	1.24
RRu	1.52	5.25	1.61
P	+++	+++	+++
Random RR	1.32	3.27	1.69
RRl	1.15	1.80	1.25
RRu	1.52	5.91	2.27
P	+++	+++	+++
Between Chi			11.58
Between df			1
Between P			***

Study adjusts for or is matched on SES

N	4	3	7
NS	4	3	7
Wt	193.30	22.84	216.14
Het Chi	14.68	0.67	15.52
Het df	3	2	6
Het P	**	N.S.	*
Fixed RR	1.40	1.53	1.41
RRl	1.21	1.02	1.24
RRu	1.61	2.31	1.61
P	+++	+	+++
Random RR	1.82	1.53	1.69
RRl	1.20	1.02	1.25
RRu	2.76	2.31	2.27
P	++	+	+++
Between Chi			0.17
Between df			1
Between P			N.S.

Appendix Table C43 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Current Asthma

Adjusted
Study adjusts for family medical history
Yes No Total

RR data

N	4	3	7
NS	4	3	7
Wt	202.01	14.13	216.14
Het Chi	7.96	0.80	15.52
Het df	3	2	6
Het P	*	N.S.	*
Fixed RR	1.35	2.76	1.41
RRl	1.17	1.64	1.24
RRu	1.55	4.64	1.61
P	+++	+++	+++
Random RR	1.43	2.76	1.69
RRl	1.08	1.64	1.25
RRu	1.90	4.64	2.27
P	+	+++	+++
Between Chi			6.77
Between df			1
Between P			**

Study adjusts for family composition

N		7	7
NS		7	7
Wt		216.14	216.14
Het Chi		15.52	15.52
Het df		6	6
Het P		*	*
Fixed RR		1.41	1.41
RRl		1.24	1.24
RRu		1.61	1.61
P		+++	+++
Random RR		1.69	1.69
RRl		1.25	1.25
RRu		2.27	2.27
P		+++	+++
Between Chi			
Between df			
Between P			N.S.

Study adjusts for cooking, heating, air conditioning

N	2	5	7
NS	2	5	7
Wt	182.80	33.34	216.14
Het Chi	0.09	9.52	15.52
Het df	1	4	6
Het P	N.S.	*	*
Fixed RR	1.32	2.08	1.41
RRl	1.14	1.48	1.24
RRu	1.52	2.92	1.61
P	+++	+++	+++
Random RR	1.32	2.55	1.69
RRl	1.14	1.37	1.25
RRu	1.52	4.74	2.27
P	+++	++	+++
Between Chi			5.91
Between df			1
Between P			*

Appendix Table C43 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Current Asthma

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

RR data

	N	2	5	7
	NS	2	5	7
	Wt	182.80	33.34	216.14
Het	Chi	0.09	9.52	15.52
Het	df	1	4	6
Het	P	N.S.	*	*
Fixed	RR	1.32	2.08	1.41
	RRl	1.14	1.48	1.24
	RRu	1.52	2.92	1.61
	P	+++	+++	+++
Random	RR	1.32	2.55	1.69
	RRl	1.14	1.37	1.25
	RRu	1.52	4.74	2.27
	P	+++	++	+++
Between	Chi			5.91
Between	df			1
Between	P			*

Study adjusts for pets, animal contact, farming

	N	1	6	7
	NS	1	6	7
	Wt	1.75	214.39	216.14
Het	Chi	0.00	8.07	15.52
Het	df	0	5	6
Het	P	N.S.	N.S.	*
Fixed	RR	11.00	1.39	1.41
	RRl	2.51	1.21	1.24
	RRu	48.30	1.59	1.61
	P	++	+++	+++
Random	RR	11.00	1.48	1.69
	RRl	2.51	1.19	1.25
	RRu	48.30	1.83	2.27
	P	++	+++	+++
Between	Chi			7.46
Between	df			1
Between	P			**

Study adjusts for child's medical history

	N	2	5	7
	NS	2	5	7
	Wt	19.21	196.93	216.14
Het	Chi	6.78	8.07	15.52
Het	df	1	4	6
Het	P	**	(*)	*
Fixed	RR	1.69	1.39	1.41
	RRl	1.08	1.21	1.24
	RRu	2.64	1.60	1.61
	P	+	+++	+++
Random	RR	3.47	1.54	1.69
	RRl	0.47	1.18	1.25
	RRu	25.75	2.01	2.27
	P	N.S.	++	+++
Between	Chi			0.68
Between	df			1
Between	P			N.S.

Appendix Table C43 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
 Current Asthma
 Adjusted

Study adjusts for in utero exposure
 Yes No Total

RR data

N	3	4	7
NS	3	4	7
Wt	200.26	15.89	216.14
Het Chi	0.15	3.79	15.52
Het df	2	3	6
Het P	N.S.	N.S.	*
Fixed RR	1.32	3.21	1.41
RRl	1.15	1.96	1.24
RRu	1.52	5.25	1.61
P	+++	+++	+++
Random RR	1.32	3.27	1.69
RRl	1.15	1.80	1.25
RRu	1.52	5.91	2.27
P	+++	+++	+++
Between Chi			11.58
Between df			1
Between P			***

Study adjusts for in life exposure

N	6	1	7
NS	6	1	7
Wt	207.40	8.74	216.14
Het Chi	8.96	0.00	15.52
Het df	5	0	6
Het P	N.S.	N.S.	*
Fixed RR	1.36	3.30	1.41
RRl	1.19	1.70	1.24
RRu	1.56	6.40	1.61
P	+++	+++	+++
Random RR	1.46	3.30	1.69
RRl	1.14	1.70	1.25
RRu	1.86	6.40	2.27
P	++	+++	+++
Between Chi			6.56
Between df			1
Between P			*

Exposed group : when Exposed

lif/ev age<7y current unspec other Total

N	1		4	1	1	7
NS	1		4	1	1	7
Wt	1.75		204.36	1.28	8.74	216.14
Het Chi	0.00		0.75	0.00	0.00	15.52
Het df	0		3	0	0	6
Het P	N.S.		N.S.	N.S.	N.S.	*
Fixed RR	11.00		1.33	2.48	3.30	1.41
RRl	2.51		1.16	0.44	1.70	1.24
RRu	48.30		1.53	13.96	6.40	1.61
P	++		+++	N.S.	+++	+++
Random RR	11.00		1.33	2.48	3.30	1.69
RRl	2.51		1.16	0.44	1.70	1.25
RRu	48.30		1.53	13.96	6.40	2.27
P	++		+++	N.S.	+++	+++
Between Chi						14.77
Between df						3
Between P						**

Appendix Table C43 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
 Current Asthma
 Adjusted

Unexposed group : who is smoker

NoHhMemb	NoParent	NotSpPar	Total
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RR data

	N	1	6	7				
	NS	1	6	7				
	Wt	17.45	198.69		216.14			
Het	Chi	0.00	15.52		15.52			
Het	df	0	5		6			
Het	P	N.S.	**		*			
Fixed	RR	1.40	1.41		1.41			
	RRl	0.88	1.23		1.24			
	RRu	2.24	1.62		1.61			
	P	N.S.	+++		+++			
Random	RR	1.40	1.82		1.69			
	RRl	0.88	1.27		1.25			
	RRu	2.24	2.61		2.27			
	P	N.S.	++		+++			
Between	Chi				0.00			
Between	df				1			
Between	P				N.S.			
	Unexposed group : time							
	non	never	non+othr	Total				
	N	5	2	7				
	NS	5	2	7				
	Wt	33.34	182.80		216.14			
Het	Chi	9.52	0.09		15.52			
Het	df	4	1		6			
Het	P	*	N.S.		*			
Fixed	RR	2.08	1.32		1.41			
	RRl	1.48	1.14		1.24			
	RRu	2.92	1.52		1.61			
	P	+++	+++		+++			
Random	RR	2.55	1.32		1.69			
	RRl	1.37	1.14		1.25			
	RRu	4.74	1.52		2.27			
	P	++	+++		+++			
Between	Chi				5.91			
Between	df				1			
Between	P				*			
	Number of adjustment variables							
	0	1	2	3-5	6-9	10+	Total	
	N	2		1	2	2	7	
	NS	2		1	2	2	7	
	Wt	5.39		8.74	19.21	182.80	216.14	
Het	Chi	0.06		0.00	6.78	0.09	15.52	
Het	df	1		0	1	1	6	
Het	P	N.S.		N.S.	**	N.S.	*	
Fixed	RR	2.06		3.30	1.69	1.32	1.41	
	RRl	0.89		1.70	1.08	1.14	1.24	
	RRu	4.79		6.40	2.64	1.52	1.61	
	P	(+)		+++	+	+++	+++	
Random	RR	2.06		3.30	3.47	1.32	1.69	
	RRl	0.89		1.70	0.47	1.14	1.25	
	RRu	4.79		6.40	25.75	1.52	2.27	
	P	(+)		+++	N.S.	+++	+++	
Between	Chi						8.60	
Between	df						3	
Between	P						*	

Appendix Table C43 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Current Asthma
Adjusted

RR adjusted for sex
Yes No Total

RR data

	N	5	2	7
	NS	5	2	7
	Wt	210.75	5.39	216.14
Het	Chi	14.68	0.06	15.52
Het	df	4	1	6
Het	P	**	N.S.	*
Fixed	RR	1.40	2.06	1.41
	RRl	1.22	0.89	1.24
	RRu	1.60	4.79	1.61
	P	+++	(+)	+++
Random	RR	1.67	2.06	1.69
	RRl	1.20	0.89	1.25
	RRu	2.33	4.79	2.27
	P	++	(+)	+++
Between	Chi			0.79
Between	df			1
Between	P			N.S.

RR adjusted for age

	N	3	4	7
	NS	3	4	7
	Wt	200.26	15.89	216.14
Het	Chi	0.15	3.79	15.52
Het	df	2	3	6
Het	P	N.S.	N.S.	*
Fixed	RR	1.32	3.21	1.41
	RRl	1.15	1.96	1.24
	RRu	1.52	5.25	1.61
	P	+++	+++	+++
Random	RR	1.32	3.27	1.69
	RRl	1.15	1.80	1.25
	RRu	1.52	5.91	2.27
	P	+++	+++	+++
Between	Chi			11.58
Between	df			1
Between	P			***

RR adjusted for other ETS

	N	2	5	7
	NS	2	5	7
	Wt	182.80	33.34	216.14
Het	Chi	0.09	9.52	15.52
Het	df	1	4	6
Het	P	N.S.	*	*
Fixed	RR	1.32	2.08	1.41
	RRl	1.14	1.48	1.24
	RRu	1.52	2.92	1.61
	P	+++	+++	+++
Random	RR	1.32	2.55	1.69
	RRl	1.14	1.37	1.25
	RRu	1.52	4.74	2.27
	P	+++	++	+++
Between	Chi			5.91
Between	df			1
Between	P			*

Appendix Table C43 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically

Current Asthma

Adjusted

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

Yes No Total

RR data

	N	5	2	7	
	NS	5	2	7	
	Wt	210.75	5.39	216.14	
Het	Chi	14.68	0.06	15.52	
Het	df	4	1	6	
Het	P	**	N.S.	*	
Fixed	RR	1.40	2.06	1.41	
	RRl	1.22	0.89	1.24	
	RRu	1.60	4.79	1.61	
	P	+++	(+)	+++	
Random	RR	1.67	2.06	1.69	
	RRl	1.20	0.89	1.25	
	RRu	2.33	4.79	2.27	
	P	++	(+)	+++	
Between	Chi			0.79	
Between	df			1	
Between	P			N.S.	
	Original	Derivation of RR/CI		Other	Total
		Numbers	SumNumbs		
	N	5	1	1	7
	NS	5	1	1	7
	Wt	210.75	4.10	1.28	216.14
Het	Chi	14.68	0.00	0.00	15.52
Het	df	4	0	0	6
Het	P	**	N.S.	N.S.	*
Fixed	RR	1.40	1.94	2.48	1.41
	RRl	1.22	0.74	0.44	1.24
	RRu	1.60	5.12	13.96	1.61
	P	+++	N.S.	N.S.	+++
Random	RR	1.67	1.94	2.48	1.69
	RRl	1.20	0.74	0.44	1.25
	RRu	2.33	5.12	13.96	2.27
	P	++	N.S.	N.S.	+++
Between	Chi				0.84
Between	df				2
Between	P				N.S.

Appendix Table C43 - 4

Children - Meta-analysis of Parental Exposure during Lifetime, 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
MAVALE	3		b	1	8	all	Africa	1999	2004	CC	0	NoParent	unspec	non
WILLE1	4		b	3	15	all	Eu:Sca	1988	1991	CC	0	NoParent	current	non

Appendix Table C43 - 5

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Current Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed	Control	Case	Control			
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)
MAVALE	3	b	0	4	2	63	78	2.48 (	0.44-	13.96)
WILLE1	4	b	0	14	18	12	30	1.94 (	0.74-	5.12)
Partial Totals				533	6043	510	6870			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	3	b	0	0.29	83.67	0.78	0.0086
AGABI2	3	b	0	0.33	108.79	0.29	0.0005
ARSHAD	2	b	7	2.40	1.75	7.12	0.0015
GILLIL	38	b	8	0.34	17.45	0.04	0.1598
HU2	16	b	0	1.42	8.76	9.48	0.0000
MAVALE	3	b	0	0.91	1.28	0.35	0.3042
WILLE1	4	b	0	0.66	4.10	0.32	0.1779

RR data

	N	7
	NS	7
	Wt	225.82
Het	Chi	18.38
Het	df	6
Het	P	**
Fixed	RR	1.47
	RRl	1.29
	RRu	1.67
	P	+++
Random	RR	1.81
	RRl	1.31
	RRu	2.48
	P	+++
Asymm	P	(*)

Appendix Table C43 - 6

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Current Asthma
Unadjusted

RR data

[illegible]

Appendix Table C43 - 6

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Current Asthma
Unadjusted

Start year of study
<1970 1970-79 1980-89 1990+ unknown Total

RR data

	N			2		5		7
	NS			2		5		7
	Wt			12.87		212.95		225.82
Het	Chi			1.61		8.08		18.38
Het	df			1		4		6
Het	P			N.S.		(*)		**
Fixed	RR			3.26		1.40		1.47
	RRl			1.89		1.22		1.29
	RRu			5.63		1.60		1.67
	P			+++		+++		+++
Random	RR			3.09		1.47		1.81
	RRl			1.50		1.14		1.31
	RRu			6.39		1.89		2.48
	P			++		++		+++
Between	Chi							8.69
Between	df							1
Between	P							**
	Study type							
	CC	Pr		CS		Total		
	N	4	2	1		7		
	NS	4	2	1		7		
	Wt	197.85	10.52	17.45		225.82		
Het	Chi	1.03	1.39	0.00		18.38		
Het	df	3	1	0		6		
Het	P	N.S.	N.S.	N.S.		**		
Fixed	RR	1.38	4.89	1.40		1.47		
	RRl	1.20	2.67	0.88		1.29		
	RRu	1.59	8.94	2.24		1.67		
	P	+++	+++	N.S.		+++		
Random	RR	1.38	5.35	1.40		1.81		
	RRl	1.20	2.31	0.88		1.31		
	RRu	1.59	12.36	2.24		2.48		
	P	+++	+++	N.S.		+++		
Between	Chi					15.95		
Between	df					2		
Between	P					***		

Appendix Table C43 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR ZEJDA	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAACK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LEVES3 POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LIS PONSON SHAMSS VONMAF
2	ADDOYO DEKOK HABY LAM1 NHANE3 SOTOQU WOLF02	AGUDOT DIJKST HALONE LAM2 NICOLA SPENGL WOLF03	ANNES2 DOTTER HJERN1 LAU NITTA STANHO YANG	AZIZI DUHME1 HJERN2 LEE1 OHARA STERN1 ZHENG	BALL DUHME2 HOST LEE2 OLIVET STERN2	BERGMA DUHME3 HU1 LEEN PALMIE STODDA	CALL DUHME4 HUGHES LILLJE PETERS STRACH	CELEDO EHRLI1 INFANT LINDFO PIC STURM	CHEN2 FAGBUL JAACKO LOPEZC RIBEIR TARIQ	CHHABR FIELDE JANG MCCON2 RONMA1 TOMINA	CHINN FORSB1 JONES MELIA SARRAZ WANG	CLARK FORSB2 KABESC MELSOM SCHMIT WEITZ1	CSONKA FORSB3 KALY01 MILLER SELCUK WEITZ2	CUNNI1 FUJI KALY02 MOHAME SHIVA WIJGA	DAIGLE GOLD KARUNA MOUSSA SHOHAT WILLE2	DEKKER GUPTA KNIGHT MUMCUO SOMERV WOLF01

Appendix Table C43 - 8

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Current Asthma
Potentially overlapping studies

REF	REFGP PRINC	OVERLAP
GILLIL GILLIL	1	MCCON1/GILLIL

Appendix Table C44 -

Children - Meta-analysis of Parental Exposure during Lifetime, 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 C43 - 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 C44 - 1

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Current Asthma
Adjusted

REF	NRR	CompC43	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
MAVALE	3		b	1	8	all	Africa	1999	2004	CC	0	NoParent	unspec	non
WILLE1	4		b	3	15	all	Eu:Sca	1988	1991	CC	0	NoParent	current	non

Appendix Table C44 - 2

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed		Case	Control			
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)
MAVALE	3	b	0	4	2	63	78	2.48 (	0.44-	13.96)
WILLE1	4	b	0	14	18	12	30	1.94 (	0.74-	5.12)
Partial Totals				533	20	510	108			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	10	b	11	0.30	79.89	0.16	0.0073
AGABI2	10	b	12	0.25	102.91	0.84	0.0098
ARSHAD	2	b	7	2.40	1.75	7.39	0.0015
GILLIL	38	b	8	0.34	17.45	0.00	0.1598
HU2	20	b	3	1.19	8.74	6.30	0.0004
MAVALE	3	b	0	0.91	1.28	0.41	0.3042
WILLE1	4	b	0	0.66	4.10	0.42	0.1779

RR data

	N	7
	NS	7
	Wt	216.14
Het	Chi	15.52
Het	df	6
Het	P	*
Fixed	RR	1.41
	RRl	1.24
	RRu	1.61
	P	+++
Random	RR	1.69
	RRl	1.25
	RRu	2.27
	P	+++
Asymm	P	*

Appendix Table C44 - 3

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Current Asthma
Adjusted

RR data

	N	7			
	NS	7			
	Wt	216.14			
Het	Chi	15.52			
Het	df	6			
Het	P	*			
Fixed	RR	1.41			
	RRl	1.24			
	RRu	1.61			
	P	+++			
Random	RR	1.69			
	RRl	1.25			
	RRu	2.27			
	P	+++			
Asymm	P	*			
			Sex		
	both		male	female	Total
	N	7			7
	NS	7			7
	Wt	216.14			216.14
Het	Chi	15.52			15.52
Het	df	6			6
Het	P	*			*
Fixed	RR	1.41			1.41
	RRl	1.24			1.24
	RRu	1.61			1.61
	P	+++			+++
Random	RR	1.69			1.69
	RRl	1.25			1.25
	RRu	2.27			2.27
	P	+++			+++
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C44 - 7

Children - Meta-analysis of Parental Exposure during Lifetime, 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR ZEJDA	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY Zhang	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAACK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LEVES3 POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LIS PONSON SHAMSS VONMAF
2	ADDOYO DEKOK HABY LAM1 NHANE3 SOTOQU WOLF02	AGUDOT DIJKST HALONE LAM2 NICOLA SPENGL WOLF03	ANNES2 DOTTER HJERN1 LAU NITTA STANHO YANG	AZIZI DUHME1 HJERN2 LEE1 OHARA STERN1 ZHENG	BALL DUHME2 HOST LEE2 OLIVET STERN2	BERGMA DUHME3 HU1 LEEN PALMIE STODDA	CALL DUHME4 HUGHES LILLJE PETERS STRACH	CELEDO EHRLI1 INFANT LINDFO PIC STURM	CHEN2 FAGBUL JAACKO LOPEZC RIBEIR TARIQ	CHHABR FIELDE JANG MCCON2 RONMA1 TOMINA	CHINN FORSB1 JONES MELIA SARRAZ WANG	CLARK FORSB2 KABESC MELSOM SCHMIT WEITZ1	CSONKA FORSB3 KALY01 MILLER SELCUK WEITZ2	CUNNI1 FUJI KALY02 MOHAME SHIVA WIJGA	DAIGLE GOLD KARUNA MOUSSA SHOHAT WILLE2	DEKKER GUPTA KNIGHT MUMCUO SOMERV WOLF01

Appendix Table C44 - 8

Children - Meta-analysis of Parental Exposure during Lifetime, Both Parents specifically
Current Asthma
Potentially overlapping studies

REF	REFGP PRINC	OVERLAP
GILLIL GILLIL	1	MCCON1/GILLIL

Appendix Table C45 -

Children - Meta-analysis of Maternal Exposure during Lifetime
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 C5 - 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 C45 - 1

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

REF	NRR	CompC5	SEX	AGEI	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAW0	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
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	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
FAR00Q	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
RONMA2	1		b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non
RONMA3	2		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
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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
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
WICKLA	2		b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non
WITHER	6		b	14	16	all	Eu:UK	1995	1998	CS	5	Mother	NotMothr	current	non

Appendix Table C45 - 2

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	2	b	0	32	30	70	72	1.10 (	0.60-	1.99)
ALDAW0	2	m	0	11	51	130	1290	2.14 (	1.09-	4.21)
ALFRA1	2	b	0	-	-	-	-	1.51 (	1.04-	2.37)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
FAR00Q	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)
RONMA2	1	b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3	2	b	9	-	-	-	-	1.36 (	0.82-	2.25)
ROSASV	1	b	0	9	6	65	68	1.57 (	0.53-	4.66)
SHAMS2	2	b	0	-	-	-	-	0.99 (	0.81-	1.18)
SHAMSS	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)
*WICKMA	2	b	8	64	-	251	-	1.65 (	1.21-	2.25)
WITHER	6	b	5	103	-	395	-	1.50 (	1.14-	1.98)
Partial Totals				4699	18059	7653	27544			
*prospective study										

Appendix Table C45 - 2

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.17	0.3979
ALBA	2	b	0	0.09	10.78	0.31	0.7608
ALDAW0	2	m	0	0.76	8.40	2.09	0.0274
ALFRA1	2	b	0	0.41	22.65	0.51	0.0498
BENCIV	3	b	2	0.43	116.67	3.36	0.0000
CHEN2	34	b	6	0.51	15.10	0.95	0.0463
DOLD	12	b	1	0.19	70.73	0.36	0.1089
ECE	7	b	0	0.12	63.38	1.27	0.3376
EHRLI2	4	b	0	0.69	10.00	1.86	0.0284
FARBE2	2	b	3	0.41	57.72	1.30	0.0017
FAROOQ	1	b	0	0.25	72.93	0.00	0.0297
*FERGUS	12	b	1	-0.27	28.82	8.29	0.1407
FORAST	25	b	10	0.45	46.25	1.65	0.0022
GOLD	11	b	0	0.26	211.41	0.01	0.0002
GOREN1	4	b	0	0.36	23.61	0.21	0.0838
GOREN2	5	b	2	0.22	99.84	0.22	0.0316
GORTM1	3	b	7	0.40	36.85	0.69	0.0155
GORTM2	1	b	0	0.63	6.99	0.93	0.0978
HAJNAL	3	b	13	0.15	49.92	0.64	0.2943
HU1	4	b	7	-0.22	12.73	3.00	0.4259
HU2	1	b	0	0.47	28.24	1.22	0.0125
JENKIN	5	b	7	0.23	116.41	0.11	0.0126
KAY	25	b	2	0.29	30.11	0.02	0.1176
KERSHA	5	b	1	0.89	19.22	7.53	0.0001
KIVITY	4	b	0	0.59	13.44	1.43	0.0311
KUEHR	6	b	1	-0.39	19.88	8.34	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	1.58	0.0008
*MARTIN	5	m	1	0.56	11.93	1.06	0.0533
*MARTIN	6	f	1	0.68	5.55	0.98	0.1075
Subtotal	MARTIN			0.72	17.48	2.04	
*MCCON1	2	b	5	-0.01	24.89	1.84	0.9600
MCCON2	1	b	0	0.79	3.43	0.97	0.1420
*MCKEEV	4	b	0	0.27	1119.12	0.09	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	4.88	0.6131
RASANE	3	b	3	0.46	27.24	1.11	0.0155
RONMA2	1	b	7	0.36	43.54	0.40	0.0183
*RONMA3	2	b	9	0.31	15.08	0.03	0.2324
ROSASV	1	b	0	0.45	3.25	0.12	0.4168
SHAMS2	2	b	0	-0.01	108.55	8.04	0.9166
SHAMSS	2	b	0	0.33	79.17	0.36	0.0034
*SHERMA	2	b	2	0.17	19.90	0.19	0.4603
SOYSET	14	b	5	1.03	6.43	3.79	0.0090
STANHO	2	b	0	-0.92	4.90	6.82	0.0423
*TAYLOR	4	b	0	-0.04	72.55	6.65	0.7281
*WICKMA	2	b	8	0.50	39.93	2.28	0.0016
WITHER	6	b	5	0.41	50.42	1.04	0.0040

Appendix Table C45 - 2

Children - Meta-analysis of Maternal Exposure during Lifetime
 Lifetime Asthma
 Adjusted

RR data

	N	49
	NS	47
	Wt	3072.48
Het	Chi	88.85
Het	df	48
Het	P	***
Fixed	RR	1.30
	RRl	1.25
	RRu	1.35
	P	+++
Random	RR	1.31
	RRl	1.24
	RRu	1.40
	P	+++
Asymm	P	N.S.

Appendix Table C45 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

RR data

		N	49					
		NS	47					
		Wt	3072.48					
Het	Chi	88.85						
Het	df	48						
Het	P	***						
Fixed	RR	1.30						
	RRL	1.25						
	RRu	1.35						
	P	+++						
Random	RR	1.31						
	RRL	1.24						
	RRu	1.40						
	P	+++						
Asymm	P	N.S.						
			Sex					
		both	male	female	Total			
		N	44	3	2	49		
		NS	44	3	2	49		
		Wt	3023.81	34.61	14.05	3072.48		
Het	Chi	84.58	0.95	0.57	88.85			
Het	df	43	2	1	48			
Het	P	***	N.S.	N.S.	***			
Fixed	RR	1.29	1.68	1.54	1.30			
	RRL	1.25	1.20	0.91	1.25			
	RRu	1.34	2.35	2.60	1.35			
	P	+++	++	N.S.	+++			
Random	RR	1.30	1.68	1.54	1.31			
	RRL	1.22	1.20	0.91	1.24			
	RRu	1.39	2.35	2.60	1.40			
	P	+++	++	N.S.	+++			
Between	Chi				2.75			
Between	df				2			
Between	P				N.S.			
			Continent					
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
		N	15	1	22	6	5	49
		NS	13	1	22	6	5	47
		Wt	467.52	3.25	2101.91	177.96	321.84	3072.48
Het	Chi	13.96	0.00	47.50	3.93	17.28	88.85	
Het	df	14	0	21	5	4	48	
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	1.25	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	1.31	1.37	1.06	1.31	
	RRL	1.25	0.53	1.20	1.18	0.82	1.24	
	RRu	1.49	4.66	1.43	1.59	1.37	1.40	
	P	+++	N.S.	+++	+++	N.S.	+++	
Between	Chi						6.18	
Between	df						4	
Between	P						N.S.	

Appendix Table C45 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

RR data

		UK	Italy	Country in Europe		othWest	East/Bal	Total	
				Germany	Scand				
	N	8	2	2	5	3	2	22	
	NS	8	2	2	5	3	2	22	
		Wt	1552.06	162.92	90.61	132.23	63.42	100.68	2101.91
	Het Chi	23.54	0.01	5.15	2.95	0.39	0.82	47.50	
	Het df	7	1	1	4	2	1	21	
	Het P	**	N.S.	*	N.S.	N.S.	N.S.	***	
Fixed	RR	1.29	1.55	1.07	1.57	1.17	1.21	1.30	
	RRL	1.22	1.33	0.87	1.32	0.91	0.99	1.25	
	RRu	1.35	1.81	1.31	1.86	1.49	1.47	1.36	
	P	+++	+++	N.S.	+++	N.S.	(+)	+++	
Random	RR	1.28	1.55	0.94	1.57	1.17	1.21	1.31	
	RRL	1.12	1.33	0.53	1.32	0.91	0.99	1.20	
	RRu	1.47	1.81	1.64	1.86	1.49	1.47	1.43	
	P	+++	+++	N.S.	+++	N.S.	(+)	+++	
Between	Chi							14.64	
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				
	RRL	0.71		1.18	1.18				
	RRu	2.45		1.60	1.59				
	P	N.S.		+++	+++				
Random	RR	1.32		1.38	1.37				
	RRL	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	16	7	49		
	NS	1	8	15	16	7	47		
		Wt	116.41	464.84	589.60	539.59	1362.04	3072.48	
	Het Chi	0.00	21.89	25.23	24.59	12.12	88.85		
	Het df	0	8	15	15	6	48		
	Het P	N.S.	**	*	(*)	(*)	***		
Fixed	RR	1.26	1.20	1.37	1.33	1.30	1.30		
	RRL	1.05	1.10	1.27	1.22	1.23	1.25		
	RRu	1.51	1.32	1.49	1.44	1.37	1.35		
	P	+	+++	+++	+++	+++	+++		
Random	RR	1.26	1.16	1.45	1.29	1.30	1.31		
	RRL	1.05	0.97	1.29	1.15	1.13	1.24		
	RRu	1.51	1.40	1.63	1.45	1.50	1.40		
	P	+	N.S.	+++	+++	+++	+++		
Between	Chi						5.02		
Between	df						4		
Between	P						N.S.		

Appendix Table C45 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

Publication year				
<1990	1990-94	1995-99	2000+	Total

RR data

	N	8	12	15	14	49
	NS	8	10	15	14	47
	Wt	196.37	557.48	625.03	1693.60	3072.48
Het	Chi	30.14	15.16	13.11	27.05	88.85
Het	df	7	11	14	13	48
Het	P	***	N.S.	N.S.	*	***
Fixed	RR	1.18	1.30	1.36	1.29	1.30
	RRL	1.02	1.19	1.26	1.23	1.25
	RRU	1.35	1.41	1.47	1.36	1.35
	P	+	+++	+++	+++	+++
Random	RR	1.25	1.31	1.36	1.30	1.31
	RRL	0.90	1.17	1.26	1.17	1.24
	RRU	1.74	1.46	1.47	1.44	1.40
	P	N.S.	+++	+++	+++	+++
Between	Chi					3.39
Between	df					3
Between	P					N.S.
		Study type				
		CC	Pr	CS	Total	
	N	4	12	33	49	
	NS	4	11	32	47	
	Wt	43.25	1684.81	1344.42	3072.48	
Het	Chi	4.52	26.64	51.11	88.85	
Het	df	3	11	32	48	
Het	P	N.S.	**	*	***	
Fixed	RR	1.84	1.27	1.32	1.30	
	RRL	1.37	1.21	1.25	1.25	
	RRU	2.48	1.33	1.39	1.35	
	P	+++	+++	+++	+++	
Random	RR	1.78	1.22	1.34	1.31	
	RRL	1.21	1.09	1.24	1.24	
	RRU	2.62	1.37	1.44	1.40	
	P	++	+++	+++	+++	
Between	Chi				6.58	
Between	df				2	
Between	P				*	
		Highest age in RR				
		0-9	10-14	15+	unknown	Total
	N	11	19	19		49
	NS	11	18	18		47
	Wt	525.36	1869.80	677.33		3072.48
Het	Chi	34.61	32.77	20.30		88.85
Het	df	10	18	18		48
Het	P	***	*	N.S.		***
Fixed	RR	1.27	1.29	1.35		1.30
	RRL	1.17	1.23	1.25		1.25
	RRU	1.39	1.35	1.45		1.35
	P	+++	+++	+++		+++
Random	RR	1.29	1.29	1.36		1.31
	RRL	1.08	1.18	1.24		1.24
	RRU	1.54	1.41	1.48		1.40
	P	++	+++	+++		+++
Between	Chi					1.17
Between	df					2
Between	P					N.S.

Appendix Table C45 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
LifETIME Asthma
Adjusted

Population setting
general school medical allergy other Total

RR data

N	10	25	12		2	49
NS	9	25	11		2	47
Wt	384.43	1182.58	1370.85		134.62	3072.48
Het Chi	23.33	38.82	20.02		3.74	88.85
Het df	9	24	11		1	48
Het P	**	*	*		(*)	***
Fixed RR	1.26	1.31	1.32		1.14	1.30
RRl	1.14	1.24	1.25		0.96	1.25
RRu	1.39	1.39	1.39		1.35	1.35
P	+++	+++	+++		N.S.	+++
Random RR	1.39	1.30	1.36		1.25	1.31
RRl	1.16	1.20	1.18		0.84	1.24
RRu	1.66	1.41	1.56		1.87	1.40
P	+++	+++	+++		N.S.	+++
Between Chi						2.93
Between df						3
Between P						N.S.

Respondent for ETS exposure
child parent med rec mix/oth Total

N	5	30	2	12	49
NS	5	29	2	11	47
Wt	163.49	1236.60	1192.05	480.34	3072.48
Het Chi	8.53	63.03	0.02	10.23	88.85
Het df	4	29	1	11	48
Het P	(*)	***	N.S.	N.S.	***
Fixed RR	1.06	1.31	1.31	1.33	1.30
RRl	0.91	1.24	1.24	1.22	1.25
RRu	1.24	1.39	1.39	1.46	1.35
P	N.S.	+++	+++	+++	+++
Random RR	1.08	1.34	1.31	1.33	1.31
RRl	0.79	1.22	1.24	1.22	1.24
RRu	1.47	1.47	1.39	1.46	1.40
P	N.S.	+++	+++	+++	+++
Between Chi					7.04
Between df					3
Between P					(*)

Child smokers
exc/none included ignored Total

N	9	8	32	49
NS	7	8	32	47
Wt	117.82	389.92	2564.73	3072.48
Het Chi	11.62	9.25	67.85	88.85
Het df	8	7	31	48
Het P	N.S.	N.S.	***	***
Fixed RR	1.31	1.32	1.30	1.30
RRl	1.09	1.20	1.25	1.25
RRu	1.57	1.46	1.35	1.35
P	++	+++	+++	+++
Random RR	1.34	1.33	1.31	1.31
RRl	1.05	1.16	1.22	1.24
RRu	1.71	1.51	1.41	1.40
P	+	+++	+++	+++
Between Chi				0.12
Between df				2
Between P				N.S.

Appendix Table C45 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

Physician diagnosis (lifetime)
yes no/mixed Total

RR data

		N	25	24	49		
		NS	24	23	47		
		Wt	1816.05	1256.43	3072.48		
	Het	Chi	49.96	38.75	88.85		
	Het	df	24	23	48		
	Het	P	**	*	***		
Fixed	RR	1.31	1.29	1.30			
	RRL	1.25	1.22	1.25			
	RRu	1.37	1.36	1.35			
	P	+++	+++	+++			
Random	RR	1.30	1.32	1.31			
	RRL	1.18	1.22	1.24			
	RRu	1.44	1.43	1.40			
	P	+++	+++	+++			
Between	Chi			0.14			
Between	df			1			
Between	P			N.S.			
		Respondent for diagnosis (lifetime)					
		medrec	parent	child	mixed	Total	
	N	6	29	8	6	49	
	NS	6	28	8	5	47	
	Wt	1254.12	1261.54	229.35	327.47	3072.48	
	Het	Chi	16.32	46.54	14.24	3.28	88.85
	Het	df	5	28	7	5	48
	Het	P	**	*	*	N.S.	***
Fixed	RR	1.30	1.34	1.09	1.27	1.30	
	RRL	1.23	1.27	0.96	1.14	1.25	
	RRu	1.38	1.42	1.24	1.42	1.35	
	P	+++	+++	N.S.	+++	+++	
Random	RR	1.28	1.37	1.10	1.27	1.31	
	RRL	1.02	1.27	0.88	1.14	1.24	
	RRu	1.62	1.48	1.37	1.42	1.40	
	P	+	+++	N.S.	+++	+++	
Between	Chi					8.47	
Between	df					3	
Between	P					*	
		Questionnaire for symptoms					
		ISAAC	ATS	other	Total		
	N	10	7	32	49		
	NS	10	7	30	47		
	Wt	519.77	417.87	2134.83	3072.48		
	Het	Chi	11.78	4.47	64.07	88.85	
	Het	df	9	6	31	48	
	Het	P	N.S.	N.S.	***	***	
Fixed	RR	1.16	1.33	1.33	1.30		
	RRL	1.06	1.21	1.28	1.25		
	RRu	1.26	1.46	1.39	1.35		
	P	+++	+++	+++	+++		
Random	RR	1.17	1.33	1.36	1.31		
	RRL	1.05	1.21	1.25	1.24		
	RRu	1.30	1.46	1.48	1.40		
	P	++	+++	+++	+++		
Between	Chi				8.53		
Between	df				2		
Between	P				*		

Appendix Table C45 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

Analysis type
prevalence onset Total

RR data

	N	39	10	49			
	NS	38	9	47			
	Wt	1627.32	1445.16	3072.48			
Het	Chi	61.42	25.01	88.85			
Het	df	38	9	48			
Het	P	**	**	***			
Fixed	RR	1.33	1.26	1.30			
	RRl	1.27	1.20	1.25			
	RRu	1.40	1.33	1.35			
	P	+++	+++	+++			
Random	RR	1.36	1.18	1.31			
	RRl	1.27	1.01	1.24			
	RRu	1.45	1.37	1.40			
	P	+++	+	+++			
Between	Chi			2.42			
Between	df			1			
Between	P			N.S.			
Number of cases (lifetime asthma)							
		1-50	51-100	101-200	201+	unknown	Total
	N	3	8	11	25	2	49
	NS	3	7	11	24	2	47
	Wt	15.32	96.45	214.39	2706.29	40.01	3072.48
Het	Chi	8.58	7.62	27.58	37.28	0.11	88.85
Het	df	2	7	10	24	1	48
Het	P	*	N.S.	**	*	N.S.	***
Fixed	RR	1.19	1.70	1.26	1.29	1.38	1.30
	RRl	0.72	1.39	1.10	1.24	1.01	1.25
	RRu	1.96	2.08	1.44	1.34	1.88	1.35
	P	N.S.	+++	+++	+++	+	+++
Random	RR	1.17	1.71	1.27	1.29	1.38	1.31
	RRl	0.41	1.38	1.01	1.21	1.01	1.24
	RRu	3.39	2.11	1.60	1.36	1.88	1.40
	P	N.S.	+++	+	+++	+	+++
Between	Chi						7.68
Between	df						4
Between	P						N.S.
Study adjusts for or is matched on sex							
		Yes	No	Total			
	N	25	24	49			
	NS	24	23	47			
	Wt	1101.35	1971.13	3072.48			
Het	Chi	37.78	50.38	88.85			
Het	df	24	23	48			
Het	P	*	***	***			
Fixed	RR	1.33	1.29	1.30			
	RRl	1.25	1.23	1.25			
	RRu	1.41	1.34	1.35			
	P	+++	+++	+++			
Random	RR	1.33	1.30	1.31			
	RRl	1.23	1.18	1.24			
	RRu	1.45	1.43	1.40			
	P	+++	+++	+++			
Between	Chi			0.69			
Between	df			1			
Between	P			N.S.			

Appendix Table C45 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

Study adjusts for or is matched on age
Yes No Total

RR data

N	12	37	49
NS	12	35	47
Wt	491.98	2580.50	3072.48
Het Chi	11.12	77.23	88.85
Het df	11	36	48
Het P	N.S.	***	***
Fixed RR	1.34	1.29	1.30
RRl	1.23	1.24	1.25
RRu	1.46	1.34	1.35
P	+++	+++	+++
Random RR	1.34	1.31	1.31
RRl	1.22	1.21	1.24
RRu	1.47	1.40	1.40
P	+++	+++	+++
Between Chi			0.51
Between df			1
Between P			N.S.

Study adjusts for or is matched on race

N	7	42	49
NS	7	40	47
Wt	358.44	2714.04	3072.48
Het Chi	10.43	78.16	88.85
Het df	6	41	48
Het P	N.S.	***	***
Fixed RR	1.33	1.30	1.30
RRl	1.20	1.25	1.25
RRu	1.48	1.34	1.35
P	+++	+++	+++
Random RR	1.35	1.31	1.31
RRl	1.14	1.22	1.24
RRu	1.60	1.40	1.40
P	+++	+++	+++
Between Chi			0.25
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	7	42	49
NS	7	40	47
Wt	506.65	2565.82	3072.48
Het Chi	5.95	82.90	88.85
Het df	6	41	48
Het P	N.S.	***	***
Fixed RR	1.30	1.30	1.30
RRl	1.19	1.25	1.25
RRu	1.42	1.35	1.35
P	+++	+++	+++
Random RR	1.30	1.32	1.31
RRl	1.19	1.23	1.24
RRu	1.42	1.42	1.40
P	+++	+++	+++
Between Chi			0.00
Between df			1
Between P			N.S.

Appendix Table C45 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetme Asthma
Adjusted

Study adjusts for or is matched on SES
Yes No Total

RR data

	N	15	34	49
	NS	14	33	47
	Wt	745.14	2327.34	3072.48
Het	Chi	40.12	48.27	88.85
Het	df	14	33	48
Het	P	***	*	***
Fixed	RR	1.27	1.31	1.30
	RRl	1.18	1.26	1.25
	RRu	1.37	1.36	1.35
	P	+++	+++	+++
Random	RR	1.31	1.32	1.31
	RRl	1.15	1.23	1.24
	RRu	1.51	1.41	1.40
	P	+++	+++	+++
Between	Chi			0.46
Between	df			1
Between	P			N.S.

Study adjusts for family medical history

	N	19	30	49
	NS	18	29	47
	Wt	1006.32	2066.16	3072.48
Het	Chi	32.14	54.38	88.85
Het	df	18	29	48
Het	P	*	**	***
Fixed	RR	1.25	1.32	1.30
	RRl	1.17	1.27	1.25
	RRu	1.33	1.38	1.35
	P	+++	+++	+++
Random	RR	1.27	1.35	1.31
	RRl	1.16	1.24	1.24
	RRu	1.40	1.46	1.40
	P	+++	+++	+++
Between	Chi			2.34
Between	df			1
Between	P			N.S.

Study adjusts for family composition

	N	9	40	49
	NS	9	38	47
	Wt	563.89	2508.59	3072.48
Het	Chi	20.25	68.24	88.85
Het	df	8	39	48
Het	P	**	**	***
Fixed	RR	1.27	1.31	1.30
	RRl	1.17	1.26	1.25
	RRu	1.38	1.36	1.35
	P	+++	+++	+++
Random	RR	1.30	1.32	1.31
	RRl	1.12	1.23	1.24
	RRu	1.50	1.41	1.40
	P	+++	+++	+++
Between	Chi			0.36
Between	df			1
Between	P			N.S.

Appendix Table C45 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

Study adjusts for cooking, heating, air conditioning
Yes No Total

RR data

	N	5	44	49
	NS	5	42	47
	Wt	531.64	2540.84	3072.48
Het	Chi	10.55	78.30	88.85
Het	df	4	43	48
Het	P	*	***	***
Fixed	RR	1.30	1.30	1.30
	RRl	1.19	1.25	1.25
	RRu	1.41	1.35	1.35
	P	+++	+++	+++
Random	RR	1.30	1.32	1.31
	RRl	1.12	1.23	1.24
	RRu	1.51	1.41	1.40
	P	+++	+++	+++
Between	Chi			0.00
Between	df			1
Between	P			N.S.

Study adjusts for housing quality, crowding, damp, mould

	N	7	42	49
	NS	7	40	47
	Wt	273.20	2799.28	3072.48
Het	Chi	6.67	81.57	88.85
Het	df	6	41	48
Het	P	N.S.	***	***
Fixed	RR	1.36	1.29	1.30
	RRl	1.21	1.25	1.25
	RRu	1.53	1.34	1.35
	P	+++	+++	+++
Random	RR	1.36	1.30	1.31
	RRl	1.20	1.22	1.24
	RRu	1.55	1.40	1.40
	P	+++	+++	+++
Between	Chi			0.60
Between	df			1
Between	P			N.S.

Study adjusts for pets, animal contact, farming

	N	8	41	49
	NS	7	40	47
	Wt	222.73	2849.75	3072.48
Het	Chi	12.23	76.60	88.85
Het	df	7	40	48
Het	P	(*)	***	***
Fixed	RR	1.29	1.30	1.30
	RRl	1.13	1.25	1.25
	RRu	1.47	1.35	1.35
	P	+++	+++	+++
Random	RR	1.29	1.32	1.31
	RRl	1.07	1.23	1.24
	RRu	1.54	1.41	1.40
	P	++	+++	+++
Between	Chi			0.02
Between	df			1
Between	P			N.S.

Appendix Table C45 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma

Adjusted
Study adjusts for child's medical history

Yes No Total

RR data

N	18	31	49
NS	17	30	47
Wt	678.23	2394.25	3072.48
Het Chi	34.11	53.95	88.85
Het df	17	30	48
Het P	**	**	***
Fixed RR	1.26	1.31	1.30
RRl	1.17	1.26	1.25
RRu	1.36	1.36	1.35
P	+++	+++	+++
Random RR	1.28	1.33	1.31
RRl	1.14	1.24	1.24
RRu	1.44	1.43	1.40
P	+++	+++	+++
Between Chi			0.79
Between df			1
Between P			N.S.

Study adjusts for in utero exposure

N	2	47	49
NS	2	45	47
Wt	19.16	3053.32	3072.48
Het Chi	6.70	82.06	88.85
Het df	1	46	48
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	1.24	1.24
RRu	4.95	1.39	1.40
P	N.S.	+++	+++
Between Chi			0.08
Between df			1
Between P			N.S.

Study adjusts for in life exposure

N	14	35	49
NS	14	33	47
Wt	704.94	2367.54	3072.48
Het Chi	23.86	63.78	88.85
Het df	13	34	48
Het P	*	**	***
Fixed RR	1.35	1.29	1.30
RRl	1.25	1.23	1.25
RRu	1.45	1.34	1.35
P	+++	+++	+++
Random RR	1.34	1.30	1.31
RRl	1.20	1.21	1.24
RRu	1.50	1.40	1.40
P	+++	+++	+++
Between Chi			1.21
Between df			1
Between P			N.S.

Appendix Table C45 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

Exposed group : Who is smoker
Mother MothOnly Total

RR data

	N	49		49			
	NS	47		47			
	Wt	3072.48		3072.48			
Het	Chi	88.85		88.85			
Het	df	48		48			
Het	P	***		***			
Fixed	RR	1.30		1.30			
	RRl	1.25		1.25			
	RRu	1.35		1.35			
	P	+++		+++			
Random	RR	1.31		1.31			
	RRl	1.24		1.24			
	RRu	1.40		1.40			
	P	+++		+++			
Between	Chi						
Between	df						
Between	P			N.S.			
	Exposed group : when Exposed						
	lif/ev	age<7y	current	unspec	other	Total	
	N	14	7	12	14	2	49
	NS	14	6	12	13	2	47
	Wt	1489.72	415.30	498.04	616.29	53.13	3072.48
Het	Chi	26.44	24.85	17.86	15.93	3.05	88.85
Het	df	13	6	11	13	1	48
Het	P	*	***	(*)	N.S.	(*)	***
Fixed	RR	1.29	1.27	1.31	1.33	1.28	1.30
	RRl	1.23	1.15	1.20	1.23	0.98	1.25
	RRu	1.36	1.40	1.43	1.44	1.67	1.35
	P	+++	+++	+++	+++	(+)	+++
Random	RR	1.30	1.36	1.30	1.34	1.26	1.31
	RRl	1.14	1.07	1.15	1.23	0.79	1.24
	RRu	1.48	1.74	1.47	1.47	2.02	1.40
	P	+++	+	+++	+++	N.S.	+++
Between	Chi						0.72
Between	df						4
Between	P						N.S.

Unexposed group : who is smoker
NoHhMem NoParent NotSpPar Total

	N	2		47	49
	NS	2		45	47
	Wt	20.80		3051.68	3072.48
Het	Chi	0.18		88.54	88.85
Het	df	1		46	48
Het	P	N.S.		***	***
Fixed	RR	1.20		1.30	1.30
	RRl	0.78		1.25	1.25
	RRu	1.84		1.35	1.35
	P	N.S.		+++	+++
Random	RR	1.20		1.32	1.31
	RRl	0.78		1.24	1.24
	RRu	1.84		1.40	1.40
	P	N.S.		+++	+++
Between	Chi				0.13
Between	df				1
Between	P				N.S.

Appendix Table C45 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
LifETIME Asthma
Adjusted

Unexposed group : time
non never non+othr Total

RR data

	N	40	9		49			
	NS	38	9		47			
	Wt	1697.24	1375.24		3072.48			
Het	Chi	81.91	6.35		88.85			
Het	df	39	8		48			
Het	P	***	N.S.		***			
Fixed	RR	1.28	1.32		1.30			
	RRl	1.22	1.25		1.25			
	RRu	1.35	1.39		1.35			
	P	+++	+++		+++			
Random	RR	1.30	1.32		1.31			
	RRl	1.21	1.25		1.24			
	RRu	1.41	1.39		1.40			
	P	+++	+++		+++			
Between	Chi				0.59			
Between	df				1			
Between	P				N.S.			
		Number of adjustment variables						
		0	1	2	3-5	6-9	10+	Total
	N	19	8	4	7	9	2	49
	NS	19	6	4	7	9	2	47
	Wt	1900.10	178.91	266.52	179.43	451.35	96.17	3072.48
Het	Chi	32.65	25.53	3.06	6.93	13.91	2.20	88.85
Het	df	18	7	3	6	8	1	48
Het	P	*	***	N.S.	N.S.	(*)	N.S.	***
Fixed	RR	1.28	1.20	1.37	1.46	1.30	1.34	1.30
	RRl	1.23	1.04	1.21	1.26	1.19	1.10	1.25
	RRu	1.34	1.39	1.54	1.69	1.43	1.64	1.35
	P	+++	+	+++	+++	+++	++	+++
Random	RR	1.28	1.28	1.37	1.46	1.33	1.35	1.31
	RRl	1.17	0.94	1.21	1.23	1.17	1.00	1.24
	RRu	1.40	1.74	1.55	1.72	1.52	1.81	1.40
	P	+++	N.S.	+++	+++	+++	+	+++
Between	Chi							4.57
Between	df							5
Between	P							N.S.

RR adjusted for sex

Yes No Total

	N	18	31	49
	NS	18	29	47
	Wt	785.87	2286.61	3072.48
Het	Chi	25.78	61.61	88.85
Het	df	17	30	48
Het	P	(*)	***	***
Fixed	RR	1.35	1.28	1.30
	RRl	1.26	1.23	1.25
	RRu	1.45	1.34	1.35
	P	+++	+++	+++
Random	RR	1.36	1.29	1.31
	RRl	1.24	1.19	1.24
	RRu	1.49	1.40	1.40
	P	+++	+++	+++
Between	Chi			1.46
Between	df			1
Between	P			N.S.

Appendix Table C45 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

RR adjusted for age
Yes No Total

RR data

	N	10	39	49
	NS	10	37	47
	Wt	269.79	2802.69	3072.48
Het	Chi	10.07	77.51	88.85
Het	df	9	38	48
Het	P	N.S.	***	***
Fixed	RR	1.39	1.29	1.30
	RRl	1.23	1.24	1.25
	RRu	1.56	1.34	1.35
	P	+++	+++	+++
Random	RR	1.39	1.30	1.31
	RRl	1.22	1.21	1.24
	RRu	1.58	1.39	1.40
	P	+++	+++	+++
Between	Chi			1.26
Between	df			1
Between	P			N.S.

RR adjusted for other ETS

	N	9	40	49
	NS	9	38	47
	Wt	298.96	2773.52	3072.48
Het	Chi	19.51	69.30	88.85
Het	df	8	39	48
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	1.30	1.31	1.31
	RRl	1.07	1.23	1.24
	RRu	1.58	1.40	1.40
	P	++	+++	+++
Between	Chi			0.05
Between	df			1
Between	P			N.S.

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

	N	26	23	49
	NS	24	23	47
	Wt	1050.21	2022.27	3072.48
Het	Chi	44.92	40.93	88.85
Het	df	25	22	48
Het	P	**	**	***
Fixed	RR	1.36	1.27	1.30
	RRl	1.28	1.22	1.25
	RRu	1.44	1.33	1.35
	P	+++	+++	+++
Random	RR	1.38	1.25	1.31
	RRl	1.26	1.14	1.24
	RRu	1.50	1.36	1.40
	P	+++	+++	+++
Between	Chi			2.99
Between	df			1
Between	P			(*)

Appendix Table C45 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

Original	Derivation of RR/CI		Other	Total
	Numbers	SumNumbs		

RR data

N	23	14	4	8	49
NS	23	12	4	8	47
Wt	1055.15	451.30	87.43	1478.59	3072.48
Het Chi	38.85	16.61	11.49	16.79	88.85
Het df	22	13	3	7	48
Het P	*	N.S.	**	*	***
Fixed RR	1.28	1.34	1.05	1.32	1.30
RRl	1.20	1.23	0.85	1.25	1.25
RRu	1.35	1.47	1.30	1.39	1.35
P	+++	+++	N.S.	+++	+++
Random RR	1.31	1.41	0.97	1.31	1.31
RRl	1.20	1.24	0.62	1.15	1.24
RRu	1.43	1.60	1.50	1.49	1.40
P	+++	+++	N.S.	+++	+++
Between Chi					5.11
Between df					3
Between P					N.S.

Appendix Table C45 - 4

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Unadjusted

REF	NRR	X	SEX	AGE	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAW0	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
BENCIV	1	x	b	8	14	all	Eu:Ita	2001	2004	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
RONMA2	1		b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non
RONMA3	1	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
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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
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
WICKMA	1	x	b	0	2	all	Eu:Sca	1994	2003	Pr	0	Mother	NotMothr	utero/2m	non
WITHER	2	x	b	14	16	all	Eu:UK	1995	1998	CS	0	Mother	NotMothr	current	non

Appendix Table C45 - 5

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	2	b	0	32	30	70	72	1.10 (	0.60-	1.99)
ALDAW0	2	m	0	11	51	130	1290	2.14 (	1.09-	4.21)
ALFRA1	2	b	0	-	-	-	-	1.51 (	1.04-	2.37)
BENCIV	1	b	0	290	1162	413	2535	1.53 (	1.30-	1.81)
CHEN2	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)
FAR00Q	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)
RONMA2	1	b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3	1	b	0	-	-	-	-	1.12 (	0.72-	1.73)
ROSASV	1	b	0	9	6	65	68	1.57 (	0.53-	4.66)
SHAMS2	2	b	0	-	-	-	-	0.99 (	0.81-	1.18)
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)
*WICKMA	1	b	0	64	480	251	3212	1.71 (	1.32-	2.21)
WITHER	2	b	0	103	299	395	1442	1.26 (	0.98-	1.61)
Partial Totals				4699	33616	7653	67080			
*prospective study										

Appendix Table C45 - 5

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.16	0.3979
ALBA	2	b	0	0.09	10.78	0.33	0.7608
ALDAW0	2	m	0	0.76	8.40	2.05	0.0274
ALFRA1	2	b	0	0.41	22.65	0.47	0.0498
BENCIV	1	b	0	0.43	140.36	3.55	0.0000
CHEN2	8	b	0	0.30	20.64	0.02	0.1702
DOLD	10	b	0	0.19	78.03	0.48	0.0947
ECE	7	b	0	0.12	63.38	1.37	0.3376
EHRLI2	4	b	0	0.69	10.00	1.81	0.0284
FARBE2	1	b	0	0.39	49.72	0.72	0.0062
FAROOQ	1	b	0	0.25	72.93	0.01	0.0297
*FERGUS	10	b	0	-0.15	34.34	6.02	0.3757
FORAST	10	b	0	0.47	49.57	1.94	0.0011
GOLD	11	b	0	0.26	211.41	0.03	0.0002
GOREN1	4	b	0	0.36	23.61	0.18	0.0838
GOREN2	2	b	0	0.18	124.95	0.90	0.0411
GORTM1	1	b	0	0.46	43.97	1.68	0.0021
GORTM2	1	b	0	0.63	6.99	0.90	0.0978
HAJNAL	3	b	13	0.15	49.92	0.71	0.2943
HU1	2	b	0	0.20	19.79	0.10	0.3785
HU2	1	b	0	0.47	28.24	1.16	0.0125
JENKIN	1	m	0	0.23	153.77	0.19	0.0040
JENKIN	3	f	0	0.37	112.42	1.22	0.0001
Subtotal	JENKIN			0.07	266.19	1.42	
KAY	10	b	0	0.34	35.01	0.20	0.0427
KERSHA	1	b	0	0.89	19.33	7.39	0.0001
KIVITY	4	b	0	0.59	13.44	1.38	0.0311
KUEHR	2	b	0	-0.34	20.93	7.82	0.1158
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	1	b	0	0.39	82.96	1.15	0.0004
*MARTIN	1	m	0	0.49	14.81	0.73	0.0593
*MARTIN	2	f	0	0.58	6.43	0.62	0.1422
Subtotal	MARTIN			0.53	21.23	1.36	
*MCCON1	1	b	0	0.04	21.09	1.09	0.8526
MCCON2	1	b	0	0.79	3.43	0.95	0.1420
*MCKEEV	4	b	0	0.27	1119.12	0.01	0.0000
MURRAY	1	m	0	0.36	15.96	0.13	0.1513
MURRAY	3	f	0	0.27	9.66	0.00	0.3967
Subtotal	MURRAY			0.10	25.62	0.13	
*PONSON	3	b	0	0.10	101.94	2.94	0.3244
RASANE	1	b	0	0.40	41.70	0.73	0.0099
RONMA2	1	b	7	0.36	43.54	0.35	0.0183
*RONMA3	1	b	0	0.11	20.00	0.48	0.6123
ROSASV	1	b	0	0.45	3.25	0.11	0.4168
SHAMS2	2	b	0	-0.01	108.55	8.36	0.9166
SHAMSS	2	b	0	0.33	79.17	0.30	0.0034
*SHERMA	2	b	2	0.17	19.90	0.21	0.4603
SOYSET	2	b	0	0.69	10.19	1.80	0.0282
STANHO	2	b	0	-0.92	4.90	6.88	0.0423
*TAYLOR	4	b	0	-0.04	72.55	6.90	0.7281
*WICKMA	1	b	0	0.53	58.09	4.14	0.0000
WITHER	2	b	0	0.23	61.43	0.09	0.0724

Appendix Table C45 - 5

Children - Meta-analysis of Maternal Exposure during Lifetime
 Lifetime Asthma
 Unadjusted

RR data

	N	50
	NS	47
	Wt	3373.29
Het	Chi	80.82
Het	df	49
Het	P	**
Fixed	RR	1.31
	RRl	1.26
	RRu	1.35
	P	+++
Random	RR	1.32
	RRl	1.25
	RRu	1.39
	P	+++
Asymm	P	N.S.

Appendix Table C45 - 6

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Unadjusted

RR data

[illegible]

Appendix Table C45 - 6

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Unadjusted

Start year of study
<1970 1970-79 1980-89 1990+ unknown Total

RR data

	N	2	9	16	16	7	50
	NS	1	8	15	16	7	47
	Wt	266.19	481.23	637.23	621.69	1366.95	3373.29
Het	Chi	1.27	20.66	21.62	20.87	12.34	80.82
Het	df	1	8	15	15	6	49
Het	P	N.S.	**	N.S.	N.S.	(*)	**
Fixed	RR	1.34	1.22	1.37	1.33	1.30	1.31
	RRl	1.19	1.11	1.27	1.22	1.23	1.26
	RRu	1.51	1.33	1.48	1.43	1.37	1.35
	P	+++	+++	+++	+++	+++	+++
Random	RR	1.34	1.19	1.42	1.30	1.31	1.32
	RRl	1.17	1.00	1.28	1.17	1.14	1.25
	RRu	1.54	1.41	1.57	1.43	1.51	1.39
	P	+++	(+)	+++	+++	+++	+++
Between	Chi						4.07
Between	df						4
Between	P						N.S.
	Study type						
	CC	Pr	CS	Total			
	N	4	12	34	50		
	NS	4	11	32	47		
	Wt	43.36	1707.91	1622.02	3373.29		
Het	Chi	4.51	23.55	46.58	80.82		
Het	df	3	11	33	49		
Het	P	N.S.	*	(*)	**		
Fixed	RR	1.84	1.28	1.32	1.31		
	RRl	1.37	1.22	1.26	1.26		
	RRu	2.48	1.34	1.39	1.35		
	P	+++	+++	+++	+++		
Random	RR	1.78	1.24	1.33	1.32		
	RRl	1.22	1.11	1.25	1.25		
	RRu	2.62	1.37	1.42	1.39		
	P	++	+++	+++	+++		
Between	Chi				6.18		
Between	df				2		
Between	P				*		

Appendix Table C45 - 7

Children - Meta-analysis of Maternal Exposure during Lifetime
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	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
2	AKCAKA	ANDRAE	ANNES2	ARIF	BARRET	BECKET	BENER	BRABIN	BURR	BUTZ	CHEN1	DODGE	FIELDE	FLYNN1	FLYNN2	FREEM1
	FREEM2	GURKAN	KALY01	KASPER	KEARNE	KENDIR	KUHR	LAM2	LEEDER	LEROUX	LEVES1	LEVES2	LEVES3	MAIER	MONTEF	MONTEI
	MOYES1	MOYES2	NICOLA	OCONNE	ODDY	PIROGO	POKHAR	QIAN	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	RUDNIK	SANZOR	SELCUK
	SENNHA	SIGURS	SPIEKE	SQUILL	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	WARKE	WIJGA	WOLF01	WOLF02
	WOLF03	ZEJDA	ZHANG													
3	ANNESI	CUNNI2	DELL	GILLIL	JAAKK2	KAPLAN	KELLY	LEE3	NHANE3	NILSSO	NYSTAD	WEITZ1		XU	YUAN	
5	BURCHF	DEBENE	GOREN3	GOREN4	GOREN5	GOREN6	SCHENK	STAZI	STERN2	VONMAF	ZEIGER					
13	ALFRA2	FARBE1	FARBE3													

Appendix Table C45 - 8

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Potentially overlapping studies

REF REFGP PRINC			OVERLAP													
MCCON1	MCCON1	1	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													
RONMA2	RONMA1	2	RONMA1/RONMA2/RONMA3													
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3													
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
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	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
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 C46 -

Children - Meta-analysis of Maternal Exposure during Lifetime
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 C45 - 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 C46 - 1

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

REF	NRR	CompC45	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGUDOT	2		b	14	15	all	Eu:wst	1997	2000	CS	4	Mother	NotMothr	ever	never
ALBA	2		b	0	13	all	Eu:wst	1993	1996	CC	0	Mother	NoHhMemb	current	non
ALDAW0	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
BENCIV	3		b	8	14	all	Eu:Ita	2001	2004	CS	2	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
RONMA2	1		b	8	9	all	Eu:Sca	1997	2001	CS	7	Mother	NotMothr	unspec	non
RONMA3	2		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
SHAMS2	2		b	13	14	all	Eu:UK	*	2001	CS	0	Mother	NotMothr	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
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
WICKMA	2		b	0	2	all	Eu:Sca	1994	2003	Pr	8	Mother	NotMothr	utero/2m	non
WITHER	4	x	b	14	16	all	Eu:UK	1995	1998	CS	0	Mother	NoHhMemb	current	non

Appendix Table C46 - 2

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGUDOT	2	b	4	-	-	-	-	1.67 (	0.51-	5.50)
ALBA	2	b	0	32	30	70	72	1.10 (	0.60-	1.99)
ALDAW0	2	m	0	11	51	130	1290	2.14 (	1.09-	4.21)
ALFRA1	2	b	0	-	-	-	-	1.51 (	1.04-	2.37)
BENCIV	3	b	2	290	-	413	-	1.54 (	1.28-	1.84)
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)
FAR00Q	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)
RONMA2	1	b	7	-	-	-	-	1.43 (	1.06-	1.92)
*RONMA3	2	b	9	-	-	-	-	1.36 (	0.82-	2.25)
ROSASV	1	b	0	9	6	65	68	1.57 (	0.53-	4.66)
SHAMS2	2	b	0	-	-	-	-	0.99 (	0.81-	1.18)
SHAMSS	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)
*WICKMA	2	b	8	64	-	251	-	1.65 (	1.21-	2.25)
WITHER	4	b	0	103	299	296	1107	1.29 (	1.00-	1.67)
Partial Totals				4699	20353	7051	30674			
*prospective study										

Appendix Table C46 - 2

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	2	b	4	0.51	2.72	0.16	0.3979
ALBA	2	b	0	0.09	10.78	0.33	0.7608
ALDAW0	2	m	0	0.76	8.40	2.04	0.0274
ALFRA1	2	b	0	0.41	22.65	0.47	0.0498
BENCIV	3	b	2	0.43	116.67	3.14	0.0000
CHEN2	34	b	6	0.51	15.10	0.91	0.0463
DOLD	5	b	0	0.21	73.10	0.22	0.0690
ECE	2	b	0	0.22	47.66	0.12	0.1329
EHRLI2	4	b	0	0.69	10.00	1.81	0.0284
FARBE2	2	b	3	0.41	57.72	1.20	0.0017
FAROOQ	1	b	0	0.25	72.93	0.01	0.0297
*FERGUS	5	b	0	-0.07	29.19	3.42	0.6878
FORAST	18	b	9	0.44	31.98	0.93	0.0132
GOLD	11	b	0	0.26	211.41	0.03	0.0002
GOREN1	1	b	0	0.31	19.03	0.03	0.1764
GOREN2	5	b	2	0.22	99.84	0.28	0.0316
GORTM1	3	b	7	0.40	36.85	0.63	0.0155
GORTM2	1	b	0	0.63	6.99	0.90	0.0978
HAJNAL	3	b	13	0.15	49.92	0.71	0.2943
HU1	4	b	7	-0.22	12.73	3.07	0.4259
HU2	1	b	0	0.47	28.24	1.15	0.0125
JENKIN	5	b	7	0.23	116.41	0.16	0.0126
KAY	18	b	1	0.43	30.34	0.75	0.0192
KERSHA	6	b	1	1.28	10.88	11.23	0.0000
KIVITY	4	b	0	0.59	13.44	1.38	0.0311
KUEHR	6	b	1	-0.39	19.88	8.49	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	1.46	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	1.97	
*MCCON1	2	b	5	-0.01	24.89	1.92	0.9600
MCCON2	1	b	0	0.79	3.43	0.95	0.1420
*MCKEEV	4	b	0	0.27	1119.12	0.01	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	1.57	0.2736
RASANE	3	b	3	0.46	27.24	1.05	0.0155
RONMA2	1	b	7	0.36	43.54	0.35	0.0183
*RONMA3	2	b	9	0.31	15.08	0.02	0.2324
ROSASV	1	b	0	0.45	3.25	0.11	0.4168
SHAMS2	2	b	0	-0.01	108.55	8.38	0.9166
SHAMSS	2	b	0	0.33	79.17	0.30	0.0034
*SHERMA	2	b	2	0.17	19.90	0.21	0.4603
SOYSET	14	b	5	1.03	6.43	3.73	0.0090
STANHO	2	b	0	-0.92	4.90	6.88	0.0423
*TAYLOR	4	b	0	-0.04	72.55	6.91	0.7281
*WICKMA	2	b	8	0.50	39.93	2.17	0.0016
WITHER	4	b	0	0.25	57.69	0.01	0.0543

Appendix Table C46 - 2

Children - Meta-analysis of Maternal Exposure during Lifetime
 Lifetime Asthma
 Adjusted

RR data

	N	49
	NS	47
	Wt	3009.21
Het	Chi	81.72
Het	df	48
Het	P	**
Fixed	RR	1.31
	RRl	1.26
	RRu	1.35
	P	+++
Random	RR	1.32
	RRl	1.25
	RRu	1.40
	P	+++
Asymm	P	N.S.

Appendix Table C46 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Adjusted

RR data

	N	49			
	NS	47			
	Wt	3009.21			
Het	Chi	81.72			
Het	df	48			
Het	P	**			
Fixed	RR	1.31			
	RRl	1.26			
	RRu	1.35			
	P	+++			
Random	RR	1.32			
	RRl	1.25			
	RRu	1.40			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	44	3	2	49
	NS	44	3	2	49
	Wt	2960.54	34.61	14.05	3009.21
Het	Chi	77.58	0.95	0.57	81.72
Het	df	43	2	1	48
Het	P	***	N.S.	N.S.	**
Fixed	RR	1.30	1.68	1.54	1.31
	RRl	1.26	1.20	0.91	1.26
	RRu	1.35	2.35	2.60	1.35
	P	+++	++	N.S.	+++
Random	RR	1.31	1.68	1.54	1.32
	RRl	1.23	1.20	0.91	1.25
	RRu	1.39	2.35	2.60	1.40
	P	+++	++	N.S.	+++
Between	Chi				2.61
Between	df				2
Between	P				N.S.

Appendix Table C46 - 7

Children - Meta-analysis of Maternal Exposure during Lifetime
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	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
2	AKCAKA	ANDRAE	ANNES2	ARIF	BARRET	BECKET	BENER	BRABIN	BURR	BUTZ	CHEN1	DODGE	FIELDE	FLYNN1	FLYNN2	FREEM1
	FREEM2	GURKAN	KALY01	KASPER	KEARNE	KENDIR	KUHR	LAM2	LEEDER	LEROUX	LEVES1	LEVES2	LEVES3	MAIER	MONTEF	MONTEI
	MOYES1	MOYES2	NICOLA	OCONNE	ODDY	PIROGO	POKHAR	QIAN	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	RUDNIK	SANZOR	SELCUK
	SENNHA	SIGURS	SPIEKE	SQUILL	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	WARKE	WIJGA	WOLF01	WOLF02
	WOLF03	ZEJDA	ZHANG													
3	ANNESI	CUNNI2	DELL	GILLIL	JAAKK2	KAPLAN	KELLY	LEE3	NHANE3	NILSSO	NYSTAD	WEITZ1		XU	YUAN	
5	BURCHF	DEBENE	GOREN3	GOREN4	GOREN5	GOREN6	SCHENK	STAZI	STERN2	VONMAF	ZEIGER					
13	ALFRA2	FARBE1	FARBE3													

Appendix Table C46 - 8

Children - Meta-analysis of Maternal Exposure during Lifetime
Lifetime Asthma
Potentially overlapping studies

REF REFGP PRINC			OVERLAP													
MCCON1	MCCON1	1	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													
RONMA2	RONMA1	2	RONMA1/RONMA2/RONMA3													
RONMA3	RONMA3	1	RONMA1/RONMA2/RONMA3													
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
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
RONMA3	4	b	7	11	all	Eu:Sca	1996	2002	Pr	0	Mother	NotMothr	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
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 C47 -

Children - Meta-analysis of Maternal Exposure during Lifetime
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 C7 - 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 C47 - 1

Children - Meta-analysis of Maternal Exposure during Lifetime
Current Asthma
Adjusted

REF	NRR	CompC7	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
AGUDOT	4			b	14	15	all	Eu:wst	1997	2000	CS	4	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
MAVALE	12		x	b	1	8	all	Africa	1999	2004	CC	1	Mother	NotMothr	unspec	non
MOUSSA	1			b	6	18	all	As:ME	1992	1996	CC	0	Mother	NotMothr	unspec	non
MUMCU0	2			b	3	15	all	As:ME	1986	1994	CC	0	Mother	NotMothr	unspec	non
RONMA1	1			b	7	8	all	Eu:Sca	1996	1998	CS	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 C47 - 2

Children - Meta-analysis of Maternal Exposure during Lifetime
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGABI1	27	b	11	556	-	375	-	1.30 (	1.14-	1.49)
AGABI2	27	b	12	686	-	595	-	1.11 (	0.98-	1.25)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)
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)
MAVALE	12	b	1	9	-	91	-	2.44 (	0.61-	9.73)
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)
RONMA1	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				2379	1536	4581	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	1.06	0.0001
AGABI2	27	b	12	0.10	259.48	2.00	0.0927
AGUDOT	4	b	4	1.18	3.39	3.34	0.0291
ARSHAD	4	b	0	0.71	4.72	1.24	0.1257
CHEN2	47	b	1	0.10	15.22	0.12	0.6839
DAIGLE	3	b	7	0.67	11.64	2.69	0.0217
GILLIL	36	b	8	-0.11	12.73	1.13	0.7070
GOLD	7	b	11	-0.01	124.12	5.07	0.9108
HJERN1	13	b	9	-0.33	34.86	9.45	0.0524
HU1	6	b	0	0.02	14.41	0.41	0.9302
HU2	2	b	0	0.47	20.05	1.55	0.0353
INFANT	10	b	19	0.34	25.97	0.54	0.0864
JONES	2	b	0	0.16	9.47	0.01	0.6266
LAM1	20	b	4	0.76	3.25	1.03	0.1727
MAVALE	12	b	1	0.89	2.00	0.98	0.2068
MOUSSA	1	b	0	1.10	0.37	0.31	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.56	0.0258
RONMA1	1	b	5	0.47	30.41	2.35	0.0095
SCHMIT	1	b	4	0.73	13.33	3.82	0.0079
SHOHAT	4	b	12	0.19	64.12	0.00	0.1269
SOTOQU	1	b	0	0.42	46.33	2.47	0.0040
STANHO	1	b	0	-1.02	3.66	5.39	0.0507
STERN1	1	b	0	0.11	11.71	0.08	0.7107
STODDA	10	b	9	0.31	124.44	1.66	0.0006
STRACH	9	b	4	0.21	27.70	0.01	0.2759
TARIQ	12	b	1	-0.12	19.03	1.81	0.6112
TOMINA	2	b	0	-1.06	1.84	2.87	0.1515
WILLE1	14	b	1	1.00	6.74	4.36	0.0097
ZHENG	26	b	0	0.71	6.34	1.70	0.0739

Appendix Table C47 - 2

Children - Meta-analysis of Maternal Exposure during Lifetime
Current Asthma
 Adjusted

RR data

	N	29
	NS	29
	Wt	1112.14
Het	Chi	63.01
Het	df	28
Het	P	***
Fixed	RR	1.21
	RRl	1.14
	RRu	1.29
	P	+++
Random	RR	1.25
	RRl	1.12
	RRu	1.40
	P	+++
Asymm	P	N.S.

Appendix Table C47 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Current Asthma
Adjusted

RR data

	N	29						
	NS	29						
	Wt	1112.14						
Het	Chi	63.01						
Het	df	28						
Het	P	***						
Fixed	RR	1.21						
	RRl	1.14						
	RRu	1.29						
	P	+++						
Random	RR	1.25						
	RRl	1.12						
	RRu	1.40						
	P	+++						
Asymm	P	N.S.						
			Sex					
		both	male	female	Total			
	N	29			29			
	NS	29			29			
	Wt	1112.14			1112.14			
Het	Chi	63.01			63.01			
Het	df	28			28			
Het	P	***			***			
Fixed	RR	1.21			1.21			
	RRl	1.14			1.14			
	RRu	1.29			1.29			
	P	+++			+++			
Random	RR	1.25			1.25			
	RRl	1.12			1.12			
	RRu	1.40			1.40			
	P	+++			+++			
Between	Chi							
Between	df							
Between	P				N.S.			
			Continent					
	NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total	
	N	9	1	11	6	1	1	29
	NS	9	1	11	6	1	1	29
	Wt	360.30	46.33	623.48	76.37	3.66	2.00	1112.14
Het	Chi	13.20	0.00	29.42	11.45	0.00	0.00	63.01
Het	df	8	0	10	5	0	0	28
Het	P	N.S.	N.S.	**	*	N.S.	N.S.	***
Fixed	RR	1.20	1.53	1.20	1.24	0.36	2.44	1.21
	RRl	1.08	1.14	1.11	0.99	0.13	0.61	1.14
	RRu	1.33	2.04	1.30	1.55	1.00	9.74	1.29
	P	+++	++	+++	(+)	(-)	N.S.	+++
Random	RR	1.22	1.53	1.28	1.15	0.36	2.44	1.25
	RRl	1.04	1.14	1.07	0.60	0.13	0.61	1.12
	RRu	1.43	2.04	1.53	2.20	1.00	9.74	1.40
	P	+	++	++	N.S.	(-)	N.S.	+++
Between	Chi							8.95
Between	df							5
Between	P							N.S.

Appendix Table C47 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime

		Current Asthma Adjusted					
		Country in Europe				Total	
		UK	Italy	Germany	Scand	othWest	East/Bal
RR data	N	4	2		3	2	11
	NS	4	2		3	2	11
	Wt	60.92	473.82		72.01	16.73	623.48
	Het Chi	2.88	2.93		15.91	0.57	29.42
	Het df	3	1		2	1	10
	Het P	N.S.	(*)		***	N.S.	**
	Fixed RR	1.15	1.19		1.14	2.27	1.20
	RRl	0.89	1.09		0.91	1.41	1.11
	RRu	1.47	1.30		1.44	3.67	1.30
	P	N.S.	+++		N.S.	+++	+++
Random	RR	1.15	1.20		1.38	2.27	1.28
	RRl	0.89	1.03		0.68	1.41	1.07
	RRu	1.47	1.40		2.82	3.67	1.53
	P	N.S.	+		N.S.	+++	++
	Between Chi						7.13
	Between df						3
	Between P						(*)
		Country in Asia			Total		
		FarEast	Cent/SE	MidlEast			
	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				Total	
		<1970	1970-79	1980-89	1990+	unknown	
	N		3	10	16		29
	NS		3	10	16		29
	Wt		129.62	279.69	702.83		1112.14
	Het Chi		5.52	17.59	24.92		63.01
	Het df		2	9	15		28
	Het P		(*)	*	(*)		***
	Fixed RR		0.95	1.42	1.19		1.21
	RRl		0.80	1.26	1.11		1.14
	RRu		1.13	1.60	1.28		1.29
	P		N.S.	+++	+++		+++
Random	RR		0.60	1.45	1.21		1.25
	RRl		0.27	1.19	1.06		1.12
	RRu		1.36	1.76	1.37		1.40
	P		N.S.	+++	++		+++
	Between Chi						14.99
	Between df						2
	Between P						***

Appendix Table C47 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime

	Current Asthma Adjusted				
	Publication year				Total
	<1990	1990-94	1995-99	2000+	

RR data

	N	3	8	11	7	29
	NS	3	8	11	7	29
	Wt	17.20	233.31	719.15	142.48	1112.14
Het	Chi	4.88	25.46	9.99	15.65	63.01
Het	df	2	7	10	6	28
Het	P	(*)	***	N.S.	*	***
Fixed	RR	0.77	1.26	1.24	1.05	1.21
	RRL	0.48	1.10	1.16	0.89	1.14
	RRu	1.24	1.43	1.34	1.24	1.29
	P	N.S.	+++	+++	N.S.	+++
Random	RR	0.60	1.54	1.24	1.14	1.25
	RRL	0.25	1.12	1.16	0.83	1.12
	RRu	1.44	2.11	1.34	1.57	1.40
	P	N.S.	++	+++	N.S.	+++
Between	Chi					7.04
Between	df					3
Between	P					(*)

		Study type			
		CC	Pr	CS	Total
	N	11	4	14	29
	NS	11	4	14	29
	Wt	564.52	167.92	379.70	1112.14
Het	Chi	19.02	6.53	33.72	63.01
Het	df	10	3	13	28
Het	P	*	(*)	**	***
Fixed	RR	1.23	1.06	1.25	1.21
	RRL	1.14	0.91	1.13	1.14
	RRu	1.34	1.23	1.38	1.29
Random	P	+++	N.S.	+++	+++
	RR	1.34	1.16	1.20	1.25
	RRL	1.13	0.85	0.99	1.12
	RRu	1.59	1.58	1.46	1.40
	P	+++	N.S.	(+)	+++
Between	Chi				3.74
Between	df				2
Between	P				N.S.

		Highest age in RR				
		0-9	10-14	15+	unknown	Total
	N	7	6	15	1	29
	NS	7	6	15	1	29
	Wt	298.31	480.18	322.01	11.64	1112.14
Het	Chi	9.10	4.45	39.02	0.00	63.01
Het	df	6	5	14	0	28
Het	P	N.S.	N.S.	***	N.S.	***
Fixed	RR	1.31	1.10	1.29	1.96	1.21
	RRL	1.17	1.00	1.15	1.10	1.14
	RRu	1.47	1.20	1.44	3.48	1.29
Random	P	+++	+	+++	+	+++
	RR	1.31	1.10	1.28	1.96	1.25
	RRL	1.07	1.00	1.02	1.10	1.12
	RRu	1.61	1.20	1.61	3.48	1.40
	P	++	+	+	+	+++
Between	Chi					10.45
Between	df					3
Between	P					*

Appendix Table C47 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Current Asthma
Adjusted

Population setting
general school medical allergy other Total

RR data

N	4	17	7	1	29
NS	4	17	7	1	29
Wt	193.55	855.76	58.12	4.72	1112.14
Het Chi	12.41	31.70	14.55	0.00	63.01
Het df	3	16	6	0	28
Het P	**	*	*	N.S.	***
Fixed RR	1.14	1.21	1.49	2.02	1.21
RRl	0.99	1.13	1.15	0.82	1.14
RRu	1.32	1.29	1.93	4.99	1.29
P	(+)	+++	++	N.S.	+++
Random RR	1.01	1.26	1.39	2.02	1.25
RRl	0.71	1.12	0.86	0.82	1.12
RRu	1.42	1.43	2.24	4.99	1.40
P	N.S.	+++	N.S.	N.S.	+++
Between Chi					4.35
Between df					3
Between P					N.S.

Respondent for ETS exposure
child parent med rec mix/oth Total

N	4	16		9	29
NS	4	16		9	29
Wt	74.42	717.53		320.19	1112.14
Het Chi	9.76	34.00		19.15	63.01
Het df	3	15		8	28
Het P	*	**		*	***
Fixed RR	1.22	1.22		1.19	1.21
RRl	0.97	1.13		1.07	1.14
RRu	1.53	1.31		1.33	1.29
P	(+)	+++		++	+++
Random RR	1.29	1.27		1.23	1.25
RRl	0.62	1.10		0.98	1.12
RRu	2.67	1.46		1.54	1.40
P	N.S.	++		(+)	+++
Between Chi					0.10
Between df					2
Between P					N.S.

Child smokers
exc/none included ignored Total

N	5	7	17	29
NS	5	7	17	29
Wt	237.37	446.99	427.78	1112.14
Het Chi	11.34	9.95	36.14	63.01
Het df	4	6	16	28
Het P	*	N.S.	**	***
Fixed RR	1.27	1.11	1.29	1.21
RRl	1.12	1.01	1.17	1.14
RRu	1.45	1.22	1.42	1.29
P	+++	+	+++	+++
Random RR	1.20	1.16	1.30	1.25
RRl	0.73	0.99	1.10	1.12
RRu	1.95	1.37	1.53	1.40
P	N.S.	(+)	++	+++
Between Chi				5.58
Between df				2
Between P				(*)

Appendix Table C47 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Current Asthma
Adjusted

Physician diagnosis (current)
yes no/mix Total

RR data

	N	12	17	29	
	NS	12	17	29	
	Wt	126.62	985.52	1112.14	
Het	Chi	31.92	31.05	63.01	
Het	df	11	16	28	
Het	P	***	*	***	
Fixed	RR	1.23	1.21	1.21	
	RRL	1.04	1.14	1.14	
	RRu	1.47	1.29	1.29	
	P	+	+++	+++	
Random	RR	1.34	1.23	1.25	
	RRL	0.95	1.10	1.12	
	RRu	1.90	1.37	1.40	
	P	(+)	+++	+++	
Between	Chi			0.05	
Between	df			1	
Between	P			N.S.	
Respondent for diagnosis (current)					
	medrec	parent	child	mixed	Total
	N	9	13	7	29
	NS	9	13	7	29
	Wt	63.20	905.20	143.74	1112.14
Het	Chi	15.14	23.27	19.74	63.01
Het	df	8	12	6	28
Het	P	(*)	*	**	***
Fixed	RR	1.53	1.21	1.10	1.21
	RRL	1.20	1.13	0.93	1.14
	RRu	1.96	1.29	1.29	1.29
	P	+++	+++	N.S.	+++
Random	RR	1.50	1.24	1.14	1.25
	RRL	1.00	1.11	0.80	1.12
	RRu	2.24	1.38	1.63	1.40
	P	(+)	+++	N.S.	+++
Between	Chi				4.87
Between	df				2
Between	P				(*)
Questionnaire for symptoms					
	ISAAC	ATS	other	Total	
	N	8	2	19	29
	NS	8	2	19	29
	Wt	620.20	135.83	356.11	1112.14
Het	Chi	10.82	0.15	45.79	63.01
Het	df	7	1	18	28
Het	P	N.S.	N.S.	***	***
Fixed	RR	1.22	1.00	1.28	1.21
	RRL	1.13	0.85	1.16	1.14
	RRu	1.32	1.18	1.43	1.29
	P	+++	N.S.	+++	+++
Random	RR	1.26	1.00	1.27	1.25
	RRL	1.11	0.85	1.04	1.12
	RRu	1.42	1.18	1.56	1.40
	P	+++	N.S.	+	+++
Between	Chi				6.26
Between	df				2
Between	P				*

Appendix Table C47 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime

Current Asthma					
Adjusted					
Number of cases (current asthma)					
1-50	51-100	101-200	201+	unknown	Total

RR data

N	4	7	5	12	1	29
NS	4	7	5	12	1	29
Wt	26.82	59.53	115.99	906.41	3.39	1112.14
Het Chi	10.86	8.98	17.68	21.46	0.00	63.01
Het df	3	6	4	11	0	28
Het P	*	N.S.	**	*	N.S.	***
Fixed RR	1.33	1.30	1.17	1.20	3.27	1.21
RRl	0.91	1.01	0.97	1.13	1.13	1.14
RRu	1.94	1.67	1.40	1.29	9.48	1.29
P	N.S.	+	(+)	+++	+	+++
Random RR	1.27	1.30	1.24	1.22	3.27	1.25
RRl	0.60	0.93	0.84	1.10	1.13	1.12
RRu	2.70	1.81	1.83	1.37	9.48	1.40
P	N.S.	N.S.	N.S.	+++	+	+++
Between Chi						4.03
Between df						4
Between P						N.S.

Study adjusts for or is matched on sex

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

N	23	6	29
NS	23	6	29
Wt	1039.86	72.28	1112.14
Het Chi	46.77	14.83	63.01
Het df	22	5	28
Het P	**	*	***
Fixed RR	1.20	1.39	1.21
RRl	1.13	1.10	1.14
RRu	1.28	1.75	1.29
P	+++	++	+++
Random RR	1.24	1.18	1.25
RRl	1.11	0.70	1.12
RRu	1.39	2.01	1.40
P	+++	N.S.	+++
Between Chi			1.42
Between df			1
Between P			N.S.

Study adjusts for or is matched on age

N	18	11	29
NS	18	11	29
Wt	889.14	223.00	1112.14
Het Chi	40.17	21.32	63.01
Het df	17	10	28
Het P	**	*	***
Fixed RR	1.19	1.30	1.21
RRl	1.11	1.14	1.14
RRu	1.27	1.49	1.29
P	+++	+++	+++
Random RR	1.23	1.27	1.25
RRl	1.08	1.02	1.12
RRu	1.41	1.58	1.40
P	++	+	+++
Between Chi			1.52
Between df			1
Between P			N.S.

Appendix Table C47 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Current Asthma
Adjusted

Study adjusts for or is matched on race
Yes No Total

RR data

N	7	22	29
NS	7	22	29
Wt	366.21	745.93	1112.14
Het Chi	11.33	51.41	63.01
Het df	6	21	28
Het P	(*)	***	***
Fixed RR	1.18	1.23	1.21
RRl	1.07	1.14	1.14
RRu	1.31	1.32	1.29
P	++	+++	+++
Random RR	1.20	1.28	1.25
RRl	1.02	1.10	1.12
RRu	1.42	1.49	1.40
P	+	++	+++
Between Chi			0.27
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	12	17	29
NS	12	17	29
Wt	921.88	190.26	1112.14
Het Chi	29.02	29.17	63.01
Het df	11	16	28
Het P	**	*	***
Fixed RR	1.18	1.40	1.21
RRl	1.10	1.22	1.14
RRu	1.25	1.61	1.29
P	+++	+++	+++
Random RR	1.17	1.40	1.25
RRl	1.03	1.13	1.12
RRu	1.33	1.73	1.40
P	+	++	+++
Between Chi			4.82
Between df			1
Between P			*

Study adjusts for or is matched on SES

N	13	16	29
NS	13	16	29
Wt	922.13	190.01	1112.14
Het Chi	29.01	30.28	63.01
Het df	12	15	28
Het P	**	*	***
Fixed RR	1.18	1.38	1.21
RRl	1.11	1.19	1.14
RRu	1.26	1.59	1.29
P	+++	+++	+++
Random RR	1.19	1.33	1.25
RRl	1.06	1.06	1.12
RRu	1.35	1.69	1.40
P	++	+	+++
Between Chi			3.73
Between df			1
Between P			(*)

Appendix Table C47 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime

Current Asthma

Adjusted

Study adjusts for family medical history

Yes No Total

RR data

N	12	17	29
NS	12	17	29
Wt	788.13	324.02	1112.14
Het Chi	19.18	42.03	63.01
Het df	11	16	28
Het P	(*)	***	***
Fixed RR	1.18	1.29	1.21
RRl	1.10	1.16	1.14
RRu	1.27	1.44	1.29
P	+++	+++	+++
Random RR	1.21	1.28	1.25
RRl	1.08	1.02	1.12
RRu	1.35	1.60	1.40
P	++	+	+++
Between Chi			1.80
Between df			1
Between P			N.S.

Study adjusts for family composition

N	5	24	29
NS	5	24	29
Wt	362.76	749.38	1112.14
Het Chi	13.76	45.50	63.01
Het df	4	23	28
Het P	**	**	***
Fixed RR	1.11	1.26	1.21
RRl	1.01	1.17	1.14
RRu	1.24	1.36	1.29
P	+	+++	+++
Random RR	1.07	1.34	1.25
RRl	0.87	1.17	1.12
RRu	1.32	1.54	1.40
P	N.S.	+++	+++
Between Chi			3.76
Between df			1
Between P			(*)

Study adjusts for cooking, heating, air conditioning

N	7	22	29
NS	7	22	29
Wt	676.60	435.54	1112.14
Het Chi	14.82	47.25	63.01
Het df	6	21	28
Het P	*	***	***
Fixed RR	1.18	1.26	1.21
RRl	1.10	1.14	1.14
RRu	1.28	1.38	1.29
P	+++	+++	+++
Random RR	1.24	1.24	1.25
RRl	1.08	1.05	1.12
RRu	1.44	1.47	1.40
P	++	+	+++
Between Chi			0.95
Between df			1
Between P			N.S.

Appendix Table C47 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime

Current Asthma

Adjusted

Study adjusts for housing quality, crowding, damp, mould

Yes No Total

RR data

N	7	22	29
NS	7	22	29
Wt	637.25	474.90	1112.14
Het Chi	6.05	56.92	63.01
Het df	6	21	28
Het P	N.S.	***	***
Fixed RR	1.22	1.20	1.21
RRl	1.13	1.10	1.14
RRu	1.32	1.32	1.29
P	+++	+++	+++
Random RR	1.22	1.27	1.25
RRl	1.13	1.05	1.12
RRu	1.32	1.53	1.40
P	+++	+	+++
Between Chi			0.05
Between df			1
Between P			N.S.

Study adjusts for pets, animal contact, farming

N	6	23	29
NS	6	23	29
Wt	155.89	956.25	1112.14
Het Chi	7.33	54.16	63.01
Het df	5	22	28
Het P	N.S.	***	***
Fixed RR	1.33	1.19	1.21
RRl	1.13	1.12	1.14
RRu	1.55	1.27	1.29
P	+++	+++	+++
Random RR	1.35	1.22	1.25
RRl	1.10	1.07	1.12
RRu	1.66	1.40	1.40
P	++	++	+++
Between Chi			1.52
Between df			1
Between P			N.S.

Study adjusts for child's medical history

N	7	22	29
NS	7	22	29
Wt	95.66	1016.49	1112.14
Het Chi	9.06	53.77	63.01
Het df	6	21	28
Het P	N.S.	***	***
Fixed RR	1.26	1.21	1.21
RRl	1.03	1.13	1.14
RRu	1.54	1.28	1.29
P	+	+++	+++
Random RR	1.29	1.24	1.25
RRl	1.00	1.09	1.12
RRu	1.66	1.42	1.40
P	(+)	+++	+++
Between Chi			0.19
Between df			1
Between P			N.S.

Appendix Table C47 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Current Asthma
Adjusted

Study adjusts for in utero exposure
Yes No Total

RR data

	N	5	24	29
	NS	5	24	29
	Wt	519.99	592.15	1112.14
Het	Chi	5.65	55.95	63.01
Het	df	4	23	28
Het	P	N.S.	***	***
Fixed	RR	1.17	1.25	1.21
	RRl	1.07	1.16	1.14
	RRu	1.27	1.36	1.29
	P	+++	+++	+++
Random	RR	1.15	1.33	1.25
	RRl	1.01	1.14	1.12
	RRu	1.30	1.55	1.40
	P	+	+++	+++
Between	Chi			1.41
Between	df			1
Between	P			N.S.

Study adjusts for in life exposure

	N	13	16	29
	NS	13	16	29
	Wt	763.01	349.13	1112.14
Het	Chi	20.87	41.01	63.01
Het	df	12	15	28
Het	P	(*)	***	***
Fixed	RR	1.24	1.16	1.21
	RRl	1.15	1.04	1.14
	RRu	1.33	1.28	1.29
	P	+++	++	+++
Random	RR	1.28	1.20	1.25
	RRl	1.13	0.97	1.12
	RRu	1.44	1.48	1.40
	P	+++	(+)	+++
Between	Chi			1.13
Between	df			1
Between	P			N.S.

Exposed group : Who is smoker
Mother MothOnly Total

	N	28	1	29
	NS	28	1	29
	Wt	1099.41	12.73	1112.14
Het	Chi	61.87	0.00	63.01
Het	df	27	0	28
Het	P	***	N.S.	***
Fixed	RR	1.22	0.90	1.21
	RRl	1.15	0.52	1.14
	RRu	1.29	1.56	1.29
	P	+++	N.S.	+++
Random	RR	1.27	0.90	1.25
	RRl	1.13	0.52	1.12
	RRu	1.42	1.56	1.40
	P	+++	N.S.	+++
Between	Chi			1.14
Between	df			1
Between	P			N.S.

Appendix Table C47 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime

Current Asthma
AdjustedExposed group : when Exposed
lif/ev age<7y current unspec other Total

RR data

N	9		7	12	1	29
NS	9		7	12	1	29
Wt	702.77		236.01	153.31	20.05	1112.14
Het Chi	21.85		13.69	17.82	0.00	63.01
Het df	8		6	11	0	28
Het P	**		*	(*)	N.S.	***
Fixed RR	1.13		1.32	1.40	1.60	1.21
RRl	1.05		1.16	1.19	1.03	1.14
RRu	1.22		1.50	1.64	2.48	1.29
P	+++		+++	+++	+	+++
Random RR	1.12		1.25	1.44	1.60	1.25
RRl	0.96		0.98	1.13	1.03	1.12
RRu	1.31		1.58	1.85	2.48	1.40
P	N.S.		(+)	++	+	+++
Between Chi						9.66
Between df						3
Between P						*

Unexposed group : who is smoker
NoHhMemb NoParent NotSpPar Total

N	3		26	29
NS	3		26	29
Wt	17.82		1094.32	1112.14
Het Chi	4.02		57.96	63.01
Het df	2		25	28
Het P	N.S.		***	***
Fixed RR	0.95		1.22	1.21
RRl	0.60		1.15	1.14
RRu	1.52		1.29	1.29
P	N.S.		+++	+++
Random RR	0.95		1.27	1.25
RRl	0.43		1.13	1.12
RRu	2.11		1.42	1.40
P	N.S.		+++	+++
Between Chi				1.03
Between df				1
Between P				N.S.

Unexposed group : time
non never non+othr Total

N	23	6	29
NS	23	6	29
Wt	460.72	651.42	1112.14
Het Chi	36.79	17.37	63.01
Het df	22	5	28
Het P	*	**	***
Fixed RR	1.35	1.12	1.21
RRl	1.23	1.04	1.14
RRu	1.48	1.21	1.29
P	+++	++	+++
Random RR	1.35	1.09	1.25
RRl	1.17	0.91	1.12
RRu	1.55	1.30	1.40
P	+++	N.S.	+++
Between Chi			8.86
Between df			1
Between P			**

Appendix Table C47 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime

Current Asthma
Adjusted

Number of adjustment variables

0 1 2 3-5 6-9 10+ Total

RR data

N	11	4	5	4	5	29
NS	11	4	5	4	5	29
Wt	119.35	42.99	78.09	183.68	688.04	1112.14
Het Chi	20.71	7.27	4.80	14.90	7.44	63.01
Het df	10	3	4	3	4	28
Het P	*	(*)	N.S.	**	N.S.	***
Fixed RR	1.32	1.20	1.59	1.20	1.16	1.21
RRl	1.10	0.89	1.27	1.04	1.08	1.14
RRu	1.58	1.62	1.98	1.39	1.25	1.29
P	++	N.S.	+++	+	+++	+++
Random RR	1.19	1.38	1.62	1.13	1.16	1.25
RRl	0.87	0.82	1.26	0.75	1.04	1.12
RRu	1.62	2.31	2.10	1.70	1.30	1.40
P	N.S.	N.S.	+++	N.S.	++	+++
Between Chi						7.90
Between df						4
Between P						(*)

RR adjusted for sex

Yes No Total

N	14	15	29
NS	14	15	29
Wt	949.81	162.34	1112.14
Het Chi	34.05	28.26	63.01
Het df	13	14	28
Het P	**	*	***
Fixed RR	1.20	1.29	1.21
RRl	1.13	1.10	1.14
RRu	1.28	1.50	1.29
P	+++	++	+++
Random RR	1.24	1.24	1.25
RRl	1.10	0.96	1.12
RRu	1.41	1.59	1.40
P	+++	(+)	+++
Between Chi			0.70
Between df			1
Between P			N.S.

RR adjusted for age

N	12	17	29
NS	12	17	29
Wt	855.28	256.86	1112.14
Het Chi	31.41	29.92	63.01
Het df	11	16	28
Het P	***	*	***
Fixed RR	1.19	1.30	1.21
RRl	1.11	1.15	1.14
RRu	1.27	1.47	1.29
P	+++	+++	+++
Random RR	1.22	1.27	1.25
RRl	1.06	1.05	1.12
RRu	1.41	1.55	1.40
P	++	+	+++
Between Chi			1.68
Between df			1
Between P			N.S.

Appendix Table C47 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime

Current Asthma
AdjustedRR adjusted for other ETS
Yes No Total

RR data

	N	9	20	29
	NS	9	20	29
	Wt	719.52	392.63	1112.14
Het	Chi	15.46	46.71	63.01
Het	df	8	19	28
Het	P	(*)	***	***
Fixed	RR	1.24	1.17	1.21
	RRl	1.15	1.06	1.14
	RRu	1.33	1.29	1.29
	P	+++	++	+++
Random	RR	1.27	1.22	1.25
	RRl	1.12	1.01	1.12
	RRu	1.45	1.47	1.40
	P	+++	+	+++
Between	Chi			0.85
Between	df			1
Between	P			N.S.

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

	N	14	15	29
	NS	14	15	29
	Wt	961.63	150.51	1112.14
Het	Chi	30.70	30.68	63.01
Het	df	13	14	28
Het	P	**	**	***
Fixed	RR	1.19	1.33	1.21
	RRl	1.12	1.14	1.14
	RRu	1.27	1.57	1.29
	P	+++	+++	+++
Random	RR	1.22	1.30	1.25
	RRl	1.08	0.99	1.12
	RRu	1.37	1.72	1.40
	P	+++	(+)	+++
Between	Chi			1.63
Between	df			1
Between	P			N.S.

	Original	Derivation of RR/CI		Other	Total
		Numbers	SumNumbs		
	N	7	7	4	29
	NS	7	7	4	29
	Wt	239.62	99.72	39.91	732.89
Het	Chi	8.39	7.00	5.67	31.39
Het	df	6	6	3	10
Het	P	N.S.	N.S.	N.S.	***
Fixed	RR	1.36	1.45	0.94	1.16
	RRl	1.19	1.19	0.69	1.07
	RRu	1.54	1.77	1.28	1.24
	P	+++	+++	N.S.	+++
Random	RR	1.39	1.45	0.92	1.17
	RRl	1.16	1.16	0.57	0.98
	RRu	1.66	1.82	1.50	1.38
	P	+++	++	N.S.	(+)
Between	Chi				10.56
Between	df				3
Between	P				*

Appendix Table C47 - 4

Children - Meta-analysis of Maternal Exposure during Lifetime
 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
AGUDOT	4		b	14	15	all	Eu:wst	1997	2000	CS	4	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
MAVALE	10	x	b	1	8	all	Africa	1999	2004	CC	0	Mother	NotMothr	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
RONMA1	1		b	7	8	all	Eu:Sca	1996	1998	CS	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 C47 - 5

Children - Meta-analysis of Maternal Exposure during Lifetime
Current Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)
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)
MAVALE	10	b	0	9	3	91	96	3.16 (	0.83-	12.06)
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)
RONMA1	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				2379	22463	4581	35865			
*prospective study				~ With 0.5 adjustment for zero						

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	19	b	0	0.28	210.94	0.26	0.0001
AGABI2	19	b	0	0.18	293.50	1.10	0.0022
AGUDOT	4	b	4	1.18	3.39	3.03	0.0291
ARSHAD	4	b	0	0.71	4.72	1.02	0.1257
CHEN2	21	b	0	0.08	16.96	0.42	0.7319
DAIGLE	1	b	0	0.36	19.66	0.28	0.1106
GILLIL	36	b	8	-0.11	12.73	1.52	0.7070
GOLD	7	b	11	-0.01	124.12	7.78	0.9108
HJERN1	5	b	0	-0.17	28.32	4.81	0.3611
HU1	6	b	0	0.02	14.41	0.68	0.9302
HU2	2	b	0	0.47	20.05	1.06	0.0353
INFANT	3	b	0	0.15	53.83	0.45	0.2761
JONES	2	b	0	0.16	9.47	0.06	0.6266
LAM1	20	b	4	0.76	3.25	0.87	0.1727
MAVALE	10	b	0	1.15	2.15	1.78	0.0914
MOUSSA	1	b	0	1.10	0.37	0.28	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.71	0.0258
RONMA1	1	b	5	0.47	30.41	1.60	0.0095
SCHMIT	1	b	4	0.73	13.33	3.17	0.0079
SHOHAT	2	b	0	0.44	123.73	4.89	0.0000
SOTOQU	1	b	0	0.42	46.33	1.54	0.0040
STANHO	1	b	0	-1.02	3.66	5.82	0.0507
STERN1	1	b	0	0.11	11.71	0.20	0.7107
STODDA	5	b	0	0.32	133.49	0.77	0.0003
STRACH	3	b	0	0.32	41.13	0.26	0.0403
TARIQ	10	b	0	0.08	29.85	0.76	0.6591
TOMINA	2	b	0	-1.06	1.84	3.10	0.1515
WILLE1	11	b	0	0.94	7.05	3.44	0.0127
ZHENG	26	b	0	0.71	6.34	1.40	0.0739

Appendix Table C47 - 5

Children - Meta-analysis of Maternal Exposure during Lifetime
 Current Asthma
 Unadjusted

RR data

	N	29
	NS	29
	Wt	1267.21
Het	Chi	58.07
Het	df	28
Het	P	***
Fixed	RR	1.27
	RRl	1.20
	RRu	1.34
	P	+++
Random	RR	1.29
	RRl	1.16
	RRu	1.43
	P	+++
Asymm	P	N.S.

Appendix Table C47 - 6

Children - Meta-analysis of Maternal Exposure during Lifetime
Current Asthma
Unadjusted

RR data

		N	29						
		NS	29						
		Wt	1267.21						
	Het	Chi	58.07						
	Het	df	28						
	Het	P	***						
	Fixed	RR	1.27						
		RRl	1.20						
		RRu	1.34						
		P	+++						
	Random	RR	1.29						
		RRl	1.16						
		RRu	1.43						
		P	+++						
	Asymm	P	N.S.						
				Sex					
			both	male	female				Total
		N	29						29
		NS	29						29
		Wt	1267.21						1267.21
	Het	Chi	58.07						58.07
	Het	df	28						28
	Het	P	***						***
	Fixed	RR	1.27						1.27
		RRl	1.20						1.20
		RRu	1.34						1.34
		P	+++						+++
	Random	RR	1.29						1.29
		RRl	1.16						1.16
		RRu	1.43						1.43
		P	+++						+++
Between	Chi								
Between	df								
Between	P								N.S.
				Continent					
		NAmer	SCAmer	Europe	Asia	Auslia	Africa		Total
	N	9	1	11	6	1	1		29
	NS	9	1	11	6	1	1		29
	Wt	406.97	46.33	672.12	135.98	3.66	2.15		1267.21
	Het	Chi	10.85	0.00	19.51	11.42	0.00	0.00	58.07
	Het	df	8	0	10	5	0	0	28
	Het	P	N.S.	N.S.	*	*	N.S.	N.S.	***
	Fixed	RR	1.18	1.53	1.27	1.54	0.36	3.16	1.27
		RRl	1.07	1.14	1.18	1.30	0.13	0.83	1.20
		RRu	1.30	2.04	1.37	1.82	1.00	12.06	1.34
		P	+++	++	+++	+++	(-)	(+)	+++
	Random	RR	1.18	1.53	1.33	1.26	0.36	3.16	1.29
		RRl	1.04	1.14	1.15	0.67	0.13	0.83	1.16
		RRu	1.34	2.04	1.53	2.39	1.00	12.06	1.43
		P	+	++	+++	N.S.	(-)	(+)	+++
Between	Chi								16.29
Between	df								5
Between	P								**

Appendix Table C47 - 6

Children - Meta-analysis of Maternal Exposure during Lifetime

Current Asthma
Unadjusted

	Start year of study				Total
	<1970	1970-79	1980-89	1990+	
N		3	10	16	29
NS		3	10	16	29
Wt		129.62	335.76	801.83	1267.21
Het Chi		5.52	15.65	23.74	58.07
Het df		2	9	15	28
Het P		(*)	(*)	(*)	***
Fixed RR		0.95	1.37	1.29	1.27
RRl		0.80	1.23	1.21	1.20
RRu		1.13	1.52	1.39	1.34
P		N.S.	+++	+++	+++
Random RR		0.60	1.39	1.31	1.29
RRl		0.27	1.18	1.17	1.16
RRu		1.36	1.63	1.47	1.43
P		N.S.	+++	+++	+++
Between Chi					13.16
Between df					2
Between P					**

	Study type		CS	Total
	CC	Pr		
N	11	4	14	29
NS	11	4	14	29
Wt	644.89	178.74	443.57	1267.21
Het Chi	15.03	5.90	30.23	58.07
Het df	10	3	13	28
Het P	N.S.	N.S.	**	***
Fixed RR	1.27	1.08	1.36	1.27
RRl	1.17	0.93	1.24	1.20
RRu	1.37	1.25	1.50	1.34
P	+++	N.S.	+++	+++
Random RR	1.31	1.19	1.28	1.29
RRl	1.15	0.91	1.07	1.16
RRu	1.49	1.55	1.52	1.43
P	+++	N.S.	++	+++
Between Chi				6.91
Between df				2
Between P				*

RR data

	N		3	10	16		29
	NS		3	10	16		29
	Wt		129.62	335.76	801.83		1267.21
Het	Chi		5.52	15.65	23.74		58.07
Het	df		2	9	15		28
Het	P		(*)	(*)	(*)		***
Fixed	RR		0.95	1.37	1.29		1.27
	RRl		0.80	1.23	1.21		1.20
	RRu		1.13	1.52	1.39		1.34
	P		N.S.	+++	+++		+++
Random	RR		0.60	1.39	1.31		1.29
	RRl		0.27	1.18	1.17		1.16
	RRu		1.36	1.63	1.47		1.43
	P		N.S.	+++	+++		+++
Between	Chi						13.16
Between	df						2
Between	P						**
		Study type					
		CC	Pr	CS	Total		
	N	11	4	14	29		
	NS	11	4	14	29		
	Wt	644.89	178.74	443.57	1267.21		
Het	Chi	15.03	5.90	30.23	58.07		
Het	df	10	3	13	28		
Het	P	N.S.	N.S.	**	***		
Fixed	RR	1.27	1.08	1.36	1.27		
	RRl	1.17	0.93	1.24	1.20		
	RRu	1.37	1.25	1.50	1.34		
	P	+++	N.S.	+++	+++		
Random	RR	1.31	1.19	1.28	1.29		
	RRl	1.15	0.91	1.07	1.16		
	RRu	1.49	1.55	1.52	1.43		
	P	+++	N.S.	++	+++		
Between	Chi				6.91		
Between	df				2		
Between	P				*		

Appendix Table C47 - 7

Children - Meta-analysis of Maternal Exposure during Lifetime
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 CHEN1	ALBA CUNNI2	ALDAWO DEBENE	ALFRA1 DELL	ALFRA2 DODGE	ANDRAE DOLD	ANNESI ECE	ARIF EHRLI2	BARRET FARBE1	BECKET FARBE2	BENCIV FARBE3	BENER FAR00Q	BRABIN FERGUS	BURCHF FLYNN1	BURR FLYNN2	BUTZ FORAST
	FREEM1 KAY	FREEM2 KEARNE	GOREN1 KELLY	GOREN2 KENDIR	GOREN3 KERSHA	GOREN4 KIVITY	GOREN5 KUEHR	GOREN6 KUHR	GORTM1 LEE3	GORTM2 LEEDER	GURKAN LEROUX	HAJNAL LEVES1	JAAKK2 LEVES2	JENKIN LEVES3	KAPLAN LIS	KASPER LISTER
	MAIER QIAN	MARTIN RASANE	MCCON1 RATAGE	MCKEEV RENNIE	MONTEF RONCH1	MONTEI RONCH2	MOYES1 RONCH3	MOYES2 RONMA2	MURRAY RONMA3	NILSSO ROSASV	NYSTAD RUDNIK	OCONNE SANZOR	ODDY SCHENK	PIROGO SENNHA	POKHAR SHAMS2	PONSON SHAMSS
	SHERMA WARKE	SIGURS WICKMA	SOYSET WITHER	SPIEKE XU	SQUILL YUAN	STAZI ZEIGER	TAYLOR ZEJDA	TIMONE ZHANG	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
2	ADDOYO FORSB1	ANNES2 FORSB2	AZIZI FORSB3	CALL FUJI	CHHABR GUPTA	CHINN HJERN2	CLARK HOST	DEKKER HUGHES	DIJKST JAAKKO	DOTTER JANG	DUHME1 KABESC	DUHME2 KALY01	DUHME3 KALY02	DUHME4 KARUNA	FAGBUL KNIGHT	FIELDE LAM2
	LAU RIBEIR	LEE1 SARRAZ	LEE2 SELCUK	LEEN SHIVA	LILLJE SOMERV	LINDFO STURM	MELIA WANG	MELSOM WIJGA	MILLER WILLE2	NHANE3 WOLF01	NICOLA WOLF02	NITTA WOLF03	OHARA YANG	PALMIE	PETERS	PIC
3	BALL	BERGMA	CELEDO	CSONKA	EHRLI1	HABY	LOPEZC	OLIVET	SPENGL	WEITZ1	WEITZ2					
5	CUNNI1	DEKOK	HALONE	MCCON2	MOHAME	STERN2										

Appendix Table C47 - 8

Children - Meta-analysis of Maternal Exposure during Lifetime
Current Asthma
Potentially overlapping studies

REF REFPG PRINC			OVERLAP													
GILLIL	GILLIL	1	MCCON1/GILLIL													
HJERN1	HJERN1	1	HJERN1/HJERN2													
STERN1	STERN1	1	STERN1/STERN2													
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3													
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
HALONE	1	b	6	6	all	NAmer	1980	1999	Pr	0	Mother	NotMothr	in life	non	*	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 C48 -

Children - Meta-analysis of Maternal Exposure during Lifetime
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 C47 - 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 C48 - 1

Children - Meta-analysis of Maternal Exposure during Lifetime
 Current Asthma
 Adjusted

REF	NRR	CompC47	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
AGUDOT	4		b	14	15	all	Eu:wst	1997	2000	CS	4	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
MAVALE	5	x	b	1	8	all	Africa	1999	2004	CC	0	Mother	NoParent	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
RONMA1	1		b	7	8	all	Eu:Sca	1996	1998	CS	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 C48 - 2

Children - Meta-analysis of Maternal Exposure during Lifetime
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGABI1	27	b	11	556	-	375	-	1.30 (	1.14-	1.49)
AGABI2	27	b	12	686	-	595	-	1.11 (	0.98-	1.25)
AGUDOT	4	b	4	-	-	-	-	3.27 (	1.13-	9.49)
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)
MAVALE	5	b	0	9	3	63	78	3.71 (	0.96-	14.30)
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)
RONMA1	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				2379	1570	4547	6235			
*prospective study				~ With 0.5 adjustment for zero						

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	27	b	11	0.26	214.34	1.07	0.0001
AGABI2	27	b	12	0.10	259.48	1.98	0.0927
AGUDOT	4	b	4	1.18	3.39	3.35	0.0291
ARSHAD	4	b	0	0.71	4.72	1.24	0.1257
CHEN2	47	b	1	0.10	15.22	0.12	0.6839
DAIGLE	3	b	7	0.67	11.64	2.70	0.0217
GILLIL	36	b	8	-0.11	12.73	1.12	0.7070
GOLD	7	b	11	-0.01	124.12	5.05	0.9108
HJERN1	13	b	9	-0.33	34.86	9.43	0.0524
HU1	6	b	0	0.02	14.41	0.41	0.9302
HU2	2	b	0	0.47	20.05	1.55	0.0353
INFANT	10	b	19	0.34	25.97	0.54	0.0864
JONES	2	b	0	0.16	9.47	0.01	0.6266
LAM1	20	b	4	0.76	3.25	1.04	0.1727
MAVALE	5	b	0	1.31	2.11	2.65	0.0564
MOUSSA	1	b	0	1.10	0.37	0.31	0.5000
MUMCUO	2	b	0	-3.33	0.45	5.56	0.0258
RONMA1	1	b	5	0.47	30.41	2.36	0.0095
SCHMIT	1	b	4	0.73	13.33	3.83	0.0079
SHOHAT	4	b	12	0.19	64.12	0.00	0.1269
SOTOQU	1	b	0	0.42	46.33	2.48	0.0040
STANHO	1	b	0	-1.02	3.66	5.38	0.0507
STERN1	1	b	0	0.11	11.71	0.08	0.7107
STODDA	10	b	9	0.31	124.44	1.67	0.0006
STRACH	9	b	4	0.21	27.70	0.01	0.2759
TARIQ	12	b	1	-0.12	19.03	1.81	0.6112
TOMINA	2	b	0	-1.06	1.84	2.87	0.1515
WILLE1	6	b	0	0.92	5.52	2.90	0.0313
ZHENG	26	b	0	0.71	6.34	1.70	0.0739

Appendix Table C48 - 2

Children - Meta-analysis of Maternal Exposure during Lifetime
Current Asthma
 Adjusted

RR data

	N	29
	NS	29
	Wt	1111.03
Het	Chi	63.21
Het	df	28
Het	P	***
Fixed	RR	1.21
	RRl	1.14
	RRu	1.28
	P	+++
Random	RR	1.25
	RRl	1.12
	RRu	1.40
	P	+++
Asymm	P	N.S.

Appendix Table C48 - 3

Children - Meta-analysis of Maternal Exposure during Lifetime
Current Asthma
Adjusted

RR data

	N	29			
	NS	29			
	Wt	1111.03			
Het	Chi	63.21			
Het	df	28			
Het	P	***			
Fixed	RR	1.21			
	RRl	1.14			
	RRu	1.28			
	P	+++			
Random	RR	1.25			
	RRl	1.12			
	RRu	1.40			
	P	+++			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	29			29
	NS	29			29
	Wt	1111.03			1111.03
Het	Chi	63.21			63.21
Het	df	28			28
Het	P	***			***
Fixed	RR	1.21			1.21
	RRl	1.14			1.14
	RRu	1.28			1.28
	P	+++			+++
Random	RR	1.25			1.25
	RRl	1.12			1.12
	RRu	1.40			1.40
	P	+++			+++
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C48 - 7

Children - Meta-analysis of Maternal Exposure during Lifetime
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 CHEN1	ALBA CUNNI2	ALDAWO DEBENE	ALFRA1 DELL	ALFRA2 DODGE	ANDRAE DOLD	ANNESI ECE	ARIF EHRLI2	BARRET FARBE1	BECKET FARBE2	BENCIV FARBE3	BENER FAR00Q	BRABIN FERGUS	BURCHF FLYNN1	BURR FLYNN2	BUTZ FORAST
	FREEM1 KAY	FREEM2 KEARNE	GOREN1 KELLY	GOREN2 KENDIR	GOREN3 KERSHA	GOREN4 KIVITY	GOREN5 KUEHR	GOREN6 KUHR	GORTM1 LEE3	GORTM2 LEEDER	GURKAN LEROUX	HAJNAL LEVES1	JAAKK2 LEVES2	JENKIN LEVES3	KAPLAN LIS	KASPER LISTER
	MAIER QIAN	MARTIN RASANE	MCCON1 RATAGE	MCKEEV RENNIE	MONTEF RONCH1	MONTEI RONCH2	MOYES1 RONCH3	MOYES2 RONMA2	MURRAY RONMA3	NILSSO ROSASV	NYSTAD RUDNIK	OCONNE SANZOR	ODDY SCHENK	PIROGO SENNHA	POKHAR SHAMS2	PONSON SHAMSS
	SHERMA WARKE	SIGURS WICKMA	SOYSET WITHER	SPIEKE XU	SQUILL YUAN	STAZI ZEIGER	TAYLOR ZEJDA	TIMONE ZHANG	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF
2	ADDOYO FORSB1	ANNES2 FORSB2	AZIZI FORSB3	CALL FUJI	CHHABR GUPTA	CHINN HJERN2	CLARK HOST	DEKKER HUGHES	DIJKST JAAKKO	DOTTER JANG	DUHME1 KABESC	DUHME2 KALY01	DUHME3 KALY02	DUHME4 KARUNA	FAGBUL KNIGHT	FIELDE LAM2
	LAU RIBEIR	LEE1 SARRAZ	LEE2 SELCUK	LEEN SHIVA	LILLJE SOMERV	LINDFO STURM	MELIA WANG	MELSOM WIJGA	MILLER WILLE2	NHANE3 WOLF01	NICOLA WOLF02	NITTA WOLF03	OHARA YANG	PALMIE	PETERS	PIC
3	BALL	BERGMA	CELEDO	CSONKA	EHRLI1	HABY	LOPEZC	OLIVET	SPENGL	WEITZ1	WEITZ2					
5	CUNNI1	DEKOK	HALONE	MCCON2	MOHAME	STERN2										

Appendix Table C48 - 8

Children - Meta-analysis of Maternal Exposure during Lifetime
Current Asthma
Potentially overlapping studies

REF REFPG PRINC			OVERLAP													
GILLIL	GILLIL	1	MCCON1/GILLIL													
HJERN1	HJERN1	1	HJERN1/HJERN2													
STERN1	STERN1	1	STERN1/STERN2													
RONMA1	RONMA1	1	RONMA1/RONMA2/RONMA3													
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
HALONE	1	b	6	6	all	NAmer	1980	1999	Pr	0	Mother	NotMothr	in life	non	*	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 C49 -
Children - 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 C45 - 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 C49 - 1

Children - Meta-analysis of Lifetime Maternal Only Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	CompC45	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 C49 - 2

Children - Meta-analysis of Lifetime Maternal Only Exposure
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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 C49 - 3

Children - 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 C49 - 7

Children - 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	ADD0Y0 DEK0K HJERN1 LILLJE RIBEIR WEITZ2	AGABI1 DIJKST HJERN2 LINDFO RONMA1 WILLE1	AGABI2 DOTTER HOST LOPEZC SARRAZ WILLE2	ARSHAD DUHME1 HUGHES MAVALE SCHMIT YANG	AZIZI DUHME2 INFANT MELIA SHIVA ZHENG	BALL DUHME3 JAAK0 MELSOM SHOHAT ZHENG	BERGMA DUHME4 JANG MILLER SOMERV SOTOQU	CALL EHRLI1 JONES MOHAME SOTOQU SPENGL	CELEDO FAGBUL KABESC MOUSSA STERN1 STODDA	CHHABR FORSB1 KALY02 MUMCUO STODDA STRACH	CHINN FORSB2 KARUNA NITTA STODDA STRACH	CLARK FORSB3 KNIGHT OHARA STODDA STRACH	CSONKA FUJI LAU OLIVET STODDA STRACH	CUNNI1 GUPTA LEE1 PALMIE TARIQ TOMINA	DAIGLE HABY LEE2 PETERS TOMINA WANG	DEKKER HALONE LEEN PIC WANG
2	AGUDOT BUTZ FREEM1 JAAK2 LEROUX NHANE3 RONMA2 STAZI WITHER	AKCAKA CHEN1 FREEM2 JENKIN LEVES1 NICOLA RONMA3 STERN2 WOLF01	ALBA CHEN2 GILLIL KALY01 LEVES2 NILSSO ROSASV TAYLOR WOLF02	ALDAWO CUNNI2 GOLD KAPLAN LEVES3 NYSTAD RUDNIK TIMONE WOLF03	ALFRA1 DEBENE GOREN1 KASPER LIS OCONNE SANZOR TSIMOY XU	ALFRA2 DELL GOREN2 KEARNE LISTER ODDY SCHENK ULRIK YUAN	ANDRAE DODGE GOREN3 KELLY MAIER PIROGO SELCUK VARELA ZEIGER	ANNES2 ECE GOREN4 KENDIR MARTIN POKHAR SENNHA SHAMSS VAVILI	ANNESI EHRLI2 GOREN5 KERSHA MCCON1 PONSON SHAMS2 VENNER ZHANG	ARIF FARBE1 GOREN6 KIVITY MCCON2 QIAN SHAMSS VERHOE	BARRET FARBE2 GORTM1 KUEHR MCKEEV RASANE SHERMA VOLKME	BECKET FARBE3 GORTM2 KUHR MONTEF RATAGE SIGURS VONMAF	BENCIV FAR00Q GURKAN LAM1 MONTEI RENNIE SOYSET WARKE	BENER FIELD HAJNAL LAM2 MOYES1 RONCH1 SPIEKE WEITZ1	BRABIN FLYNN1 HU1 LAM3 MOYES2 RONCH2 SQUILL WICKMA	BURR FLYNN2 HU2 LEEDER MURRAY RONCH3 STANHO WIJGA
5	BURCHF															

Appendix Table C49 - 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
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 C50 -

Children - 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 C46 - 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 C50 - 1

Children - Meta-analysis of Lifetime Maternal Only Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	CompC46	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 C50 - 2
 Children - Meta-analysis of Lifetime Maternal Only Exposure
 Lifetime Asthma
 Adjusted

				Numbers						
REF	NRR	SEX	ADJ	Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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 C50 - 3

Children - 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 C50 - 7

Children - 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	ADD0Y0 DEK0K HJERN1 LILLJE RIBEIR WEITZ2	AGABI1 DIJKST HJERN2 LINDFO RONMA1 WILLE1	AGABI2 DOTTER HOST LOPEZC SARRAZ WILLE2	ARSHAD DUHME1 HUGHES MAVALE SCHMIT YANG	AZIZI DUHME2 INFANT MELIA SHIVA ZHENG	BALL DUHME3 JAAKKO MELSOM SHOHAT ZHENG	BERGMA DUHME4 JANG MILLER SOMERV SOTOQU	CALL EHRLI1 JONES MOHAME SOTOQU SPENGL	CELEDO FAGBUL KABESC MOUSSA STERN1 STODDA	CHHABR FORSB1 KALY02 MUMCUO STODDA STRACH	CHINN FORSB2 KARUNA NITTA STODDA STRACH	CLARK FORSB3 KNIGHT OHARA STODDA STRACH	CSONKA FUJI LAU OLIVET STODDA STRACH	CUNNI1 GUPTA LEE1 PALMIE TARIQ TOMINA	DAIGLE HABY LEE2 PETERS TOMINA WANG	DEKKER HALONE LEEN PIC WANG
2	AGUDOT BUTZ FREEM1 JAAKK2 LEROUX NHANE3 RONMA2 STAZI WITHER	AKCAKA CHEN1 FREEM2 JENKIN LEVES1 NICOLA RONMA3 STERN2 WOLF01	ALBA CHEN2 GILLIL KALY01 LEVES2 NILSSO ROSASV TAYLOR WOLF02	ALDAWO CUNNI2 GOLD KAPLAN LEVES3 NYSTAD RUDNIK TIMONE WOLF03	ALFRA1 DEBENE GOREN1 KASPER LIS OCONNE SANZOR TSIMOY XU	ALFRA2 DELL GOREN2 KEARNE LISTER ODDY SCHENK ULRIK YUAN	ANDRAE DODGE GOREN3 KELLY MAIER PIROGO SELGUK VARELA ZEIGER	ANNES2 ECE GOREN4 KENDIR MARTIN POKHAR SENNHA SHAMSS VAVILI	ANNESI EHRLI2 GOREN5 KERSHA MCCON1 PONSON SHAMSS VENNER ZHANG	ARIF FARBE1 GOREN6 KIVITY MCCON2 QIAN SHAMSS VERHOE	BARRET FARBE2 GORTM1 KUEHR MCKEEV RASANE SHERMA VOLKME	BECKET FARBE3 GORTM2 KUHR MONTEF RATAGE SIGURS VONMAF	BENCIV FAR00Q GURKAN LAM1 MONTEI RENNIE SOYSET WARKE	BENER FIELD HAJNAL LAM2 MOYES1 RONCH1 SPIEKE WEITZ1	BRABIN FLYNN1 HU1 LEE3 MOYES2 RONCH2 SQUILL WICKMA	BURR FLYNN2 HU2 LEEDER MURRAY RONCH3 STANHO WIJGA
5	BURCHF															

Appendix Table C50 - 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
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 C51 -

Children - 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 C47 - 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 C51 - 1

Children - Meta-analysis of Lifetime Maternal Only Exposure
Current Asthma
 Adjusted

REF	NRR	CompC47	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 NAmr	1993	2001	CS	8	MothOnly	NoHhMemb	current	non
MAVALE	8		x	b	1	8	all Africa	1999	2004	CC	0	MothOnly	NotMothr	unspec	non
WILLE1	10		x	b	3	15	all Eu:Sca	1988	1991	CC	0	MothOnly	NotMothr	current	non

Appendix Table C51 - 2

Children - Meta-analysis of Lifetime Maternal Only Exposure
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
MAVALE	8	b	0	5	1	91	96	5.27 (	0.60-	46.02)
WILLE1	10	b	0	17	13	18	46	3.34 (	1.35-	8.26)
Partial Totals				311	14	460	142			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	8	b	11	0.38	60.56	0.52	0.0032
AGABI2	8	b	12	0.21	77.43	0.48	0.0685
GILLIL	36	b	8	-0.11	12.73	1.95	0.7070
MAVALE	8	b	0	1.66	0.82	1.55	0.1324
WILLE1	10	b	0	1.21	4.69	3.98	0.0089

RR data

	N	5
	NS	5
	Wt	156.23
Het	Chi	8.48
Het	df	4
Het	P	(*)
Fixed	RR	1.33
	RRL	1.14
	RRu	1.56
	P	+++
Random	RR	1.38
	RRL	1.03
	RRu	1.85
	P	+
Asymm	P	N.S.

Appendix Table C51 - 3

Children - Meta-analysis of Lifetime Maternal Only Exposure
Current Asthma
Adjusted

RR data

	N	5			
	NS	5			
	Wt	156.23			
Het	Chi	8.48			
Het	df	4			
Het	P	(*)			
Fixed	RR	1.33			
	RRl	1.14			
	RRu	1.56			
	P	+++			
Random	RR	1.38			
	RRl	1.03			
	RRu	1.85			
	P	+			
Asymm	P	N.S.			
			<u>Sex</u>		
	both		male	female	Total
	N	5			5
	NS	5			5
	Wt	156.23			156.23
Het	Chi	8.48			8.48
Het	df	4			4
Het	P	(*)			(*)
Fixed	RR	1.33			1.33
	RRl	1.14			1.14
	RRu	1.56			1.56
	P	+++			+++
Random	RR	1.38			1.38
	RRl	1.03			1.03
	RRu	1.85			1.85
	P	+			+
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C51 - 7

Children - 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR ZEJDA	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAACK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LEVES3 POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LIS PONSON SHAMSS VONMAF
2	ADDOYO DEKKER GUPTA KARUNA MOUSSA SHOHAT WILLE2	AGUDOT DEKOK HABY KNIGHT MUMCUO SOMERV WOLF01	ANNES2 DIJKST HALONE LAM1 NHANE3 SOTOQU WOLF02	ARSHAD DOTTER HJERN1 LAM2 NICOLA SPENGL WOLF03	AZIZI DUHME1 HJERN2 LAU NITTA STANHO YANG	BALL DUHME2 HOST LEE1 OHARA STERN1 ZHENG	BERGMA DUHME3 HU1 LEE2 OLIVET STERN2	CALL DUHME4 HU2 LEEN PALMIE STODDA	CELEDO EHRLI1 HUGHES LILLJE PETERS STRACH	CHEN2 FAGBUL INFANT LINDFO PIC STURM	CHHABR FIELDE JAAKKO LOPEZC RIBEIR TARIQ	CHINN FORSB1 JANG MCCON2 RONMA1 TOMINA	CLARK FORSB2 JONES MELIA SARRAZ WANG	CSONKA FORSB3 KABESC MELSOM SCHMIT WEITZ1	CUNNI1 FUJI KALY01 MILLER SELCUK WEITZ2	DAIGLE GOLD KALY02 MOHAME SHIVA WIJGA

Appendix Table C51 - 8

Children - Meta-analysis of Lifetime Maternal Only Exposure
Current Asthma
Potentially overlapping studies

REF	REFGP PRINC	OVERLAP
GILLIL	GILLIL 1	MCCON1/GILLIL

Appendix Table C52 -

Children - 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 C48 - 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 C52 - 1

Children - Meta-analysis of Lifetime Maternal Only Exposure
Current Asthma
 Adjusted

REF	NRR	CompC48	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 NAmr	1993	2001	CS	8	MothOnly	NoHhMemb	current	non
MAVALE	1		x	b	1	8	all Africa	1999	2004	CC	0	MothOnly	NoParent	unspec	non
WILLE1	3		x	b	3	15	all Eu:Sca	1988	1991	CC	0	MothOnly	NoParent	current	non

Appendix Table C52 - 2

Children - Meta-analysis of Lifetime Maternal Only Exposure
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
MAVALE	1	b	0	5	1	63	78	6.19 (	0.71-	54.36)
WILLE1	3	b	0	17	13	12	30	3.27 (	1.22-	8.75)
Partial Totals				311	14	426	108			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	8	b	11	0.38	60.56	0.57	0.0032
AGABI2	8	b	12	0.21	77.43	0.43	0.0685
GILLIL	36	b	8	-0.11	12.73	1.91	0.7070
MAVALE	1	b	0	1.82	0.81	1.93	0.1000
WILLE1	3	b	0	1.18	3.96	3.23	0.0184

RR data

	N	5
	NS	5
	Wt	155.50
Het	Chi	8.07
Het	df	4
Het	P	(*)
Fixed	RR	1.33
	RRL	1.13
	RRu	1.55
	P	+++
Random	RR	1.37
	RRL	1.02
	RRu	1.82
	P	+
Asymm	P	N.S.

Appendix Table C52 - 3

Children - Meta-analysis of Lifetime Maternal Only Exposure
 Current Asthma
 Adjusted

RR data

	N	5			
	NS	5			
	Wt	155.50			
Het	Chi	8.07			
Het	df	4			
Het	P	(*)			
Fixed	RR	1.33			
	RRl	1.13			
	RRu	1.55			
	P	+++			
Random	RR	1.37			
	RRl	1.02			
	RRu	1.82			
	P	+			
Asymm	P	N.S.			
			<u>Sex</u>		
	both		male	female	Total
	N	5			5
	NS	5			5
	Wt	155.50			155.50
Het	Chi	8.07			8.07
Het	df	4			4
Het	P	(*)			(*)
Fixed	RR	1.33			1.33
	RRl	1.13			1.13
	RRu	1.55			1.55
	P	+++			+++
Random	RR	1.37			1.37
	RRl	1.02			1.02
	RRu	1.82			1.82
	P	+			+
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C52 - 7

Children - 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR ZEJDA	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAACK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LEVES3 POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LIS PONSON SHAMSS VONMAF
2	ADDOYO DEKKER GUPTA KARUNA MOUSSA SHOHAT WILLE2	AGUDOT DEKOK HABY KNIGHT MUMCUO SOMERV WOLF01	ANNES2 DIJKST HALONE LAM1 NHANE3 SOTOQU WOLF02	ARSHAD DOTTER HJERN1 LAM2 NICOLA SPENGL WOLF03	AZIZI DUHME1 HJERN2 LAU NITTA STANHO YANG	BALL DUHME2 HOST LEE1 OHARA STERN1 ZHENG	BERGMA DUHME3 HU1 LEE2 OLIVET STERN2	CALL DUHME4 HU2 LEEN PALMIE STODDA	CELEDO EHRLI1 HUGHES LILLJE PETERS STRACH	CHEN2 FAGBUL INFANT LINDFO PIC STURM	CHHABR FIELDE JAAKKO LOPEZC RIBEIR TARIQ	CHINN FORSB1 JANG MCCON2 RONMA1 TOMINA	CLARK FORSB2 JONES MELIA SARRAZ WANG	CSONKA FORSB3 KABESC MELSOM SCHMIT WEITZ1	CUNNI1 FUJI KALY01 MILLER SELCUK WEITZ2	DAIGLE GOLD KALY02 MOHAME SHIVA WIJGA

Appendix Table C52 - 8

Children - Meta-analysis of Lifetime Maternal Only Exposure
Current Asthma
Potentially overlapping studies

REF	REFGP PRINC	OVERLAP
GILLIL	GILLIL 1	MCCON1/GILLIL

Appendix Table C53 -

Children - Meta-analysis of Paternal Exposure during Lifetime
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 C5 - 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 C53 - 1

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Adjusted

REF	NRR	CompC5	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGUDOT	1	x	b	14	15	all	Eu:wst	1997	2000	CS	4	Father	NotFathr	ever	never
ALDAW0	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
BENCIV	2	x	b	8	14	all	Eu:Ita	2001	2004	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
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never
RATAGE	2		b	5	15	all	As:cen	1996	2000	CC	0	Father	NotFathr	unspec	non
SHAMS2	1	x	b	13	14	all	Eu:UK	*	2001	CS	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 C53 - 2

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGUDOT	1	b	4	-	-	-	-	1.37 (	0.28-	6.76)
ALDAW0	3	m	0	76	402	65	939	2.73 (	1.92-	3.88)
ALFRA1	1	b	0	-	-	-	-	1.32 (	1.01-	1.72)
BENCIV	2	b	0	396	1936	331	1737	1.07 (	0.91-	1.26)
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)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
RATAGE	2	b	0	51	29	69	31	0.79 (	0.42-	1.47)
SHAMS2	1	b	0	-	-	-	-	1.18 (	0.94-	1.24)
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				4240	18201	4295	19780			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	1	b	4	0.31	1.52	0.04	0.6983
ALDAW0	3	m	0	1.00	31.16	22.10	0.0000
ALFRA1	1	b	0	0.28	54.22	0.72	0.0409
BENCIV	2	b	0	0.07	150.63	1.26	0.3847
CHEN2	30	b	6	-0.07	15.21	0.84	0.7772
DOLD	13	b	1	0.00	70.51	1.86	1.0000
ECE	6	b	0	0.13	88.36	0.10	0.2260
*FERGUS	13	b	1	0.34	31.98	1.05	0.0520
FORAST	26	b	10	-0.05	45.44	2.08	0.7295
GOREN2	1	b	0	0.14	144.77	0.07	0.0922
GORTM1	4	b	7	0.40	36.85	2.06	0.0155
HU2	3	b	0	0.26	31.98	0.32	0.1379
JENKIN	2	m	0	0.05	163.54	1.99	0.5042
JENKIN	4	f	0	0.12	114.48	0.18	0.1886
Subtotal JENKIN				-0.15	278.02	2.17	
KAY	26	b	2	0.34	30.62	0.93	0.0626
KIVITY	3	b	0	0.43	30.74	2.23	0.0166
LAM1	17	b	4	-0.08	65.19	3.94	0.5008
LAM2	9	b	4	-0.14	42.22	3.84	0.3655
LIS	2	b	0	0.10	38.89	0.18	0.5523
LISTER	4	b	8	-0.26	63.84	11.47	0.0368
*MARTIN	3	m	0	-0.05	11.97	0.56	0.8497
*MARTIN	4	f	0	0.30	5.95	0.11	0.4631
Subtotal MARTIN				-0.08	17.92	0.68	

Appendix Table C53 - 2

Children - Meta-analysis of Paternal Exposure during Lifetime
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
MCCON2	3	b	0	-0.19	3.36	0.43	0.7232
*MCKEEV	8	b	0	0.25	693.81	4.96	0.0000
MURRAY	6	m	1	0.43	18.06	1.31	0.0665
MURRAY	8	f	1	0.08	11.26	0.08	0.7962
Subtotal	MURRAY			0.18	29.31	1.39	
QIAN	1	b	7	0.75	3.96	1.35	0.1372
RATAGE	2	b	0	-0.24	9.92	1.57	0.4582
SHAMS2	1	b	0	0.17	200.28	0.00	0.0192
SHAMSS	1	b	0	0.10	52.89	0.24	0.4882
*SHERMA	4	b	2	0.13	10.95	0.01	0.6646
SOYSET	5	b	0	0.42	10.99	0.72	0.1648
VENNER	6	m	0	0.09	27.66	0.13	0.6182
VENNER	3	f	0	0.18	28.98	0.01	0.3399
Subtotal	VENNER			-0.05	56.63	0.13	
WITHER	3	b	0	0.24	73.35	0.44	0.0402

RR data

	N	35
	NS	31
	Wt	2415.51
Het	Chi	69.17
Het	df	34
Het	P	***
Fixed	RR	1.18
	RRl	1.13
	RRu	1.22
	P	+++
Random	RR	1.16
	RRl	1.09
	RRu	1.25
	P	+++
Asymm	P	N.S.

Appendix Table C53 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Adjusted

RR data

		N	35					
		NS	31					
		Wt	2415.51					
	Het	Chi	69.17					
	Het	df	34					
	Het	P	***					
Fixed	RR	1.18						
	RRL	1.13						
	RRu	1.22						
	P	+++						
Random	RR	1.16						
	RRL	1.09						
	RRu	1.25						
	P	+++						
Asymm	P	N.S.						
			<u>Sex</u>					
		both	male	female	Total			
	N	26	5	4	35			
	NS	26	5	4	35			
	Wt	2002.47	252.38	160.67	2415.51			
	Het	Chi	42.69	25.80	0.27	69.17		
	Het	df	25	4	3	34		
	Het	P	*	***	N.S.	***		
Fixed	RR	1.17	1.22	1.15	1.18			
	RRL	1.12	1.08	0.98	1.13			
	RRu	1.23	1.38	1.34	1.22			
	P	+++	++	(+)	+++			
Random	RR	1.14	1.37	1.15	1.16			
	RRL	1.06	0.92	0.98	1.09			
	RRu	1.22	2.02	1.34	1.25			
	P	+++	N.S.	(+)	+++			
Between	Chi				0.42			
Between	df				2			
Between	P				N.S.			
			<u>Continent</u>					
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	9		12	10	4		35
	NS	7		12	9	3		31
	Wt	145.59		1457.29	438.79	373.84		2415.51
	Het	Chi		12.21	35.89	9.55		69.17
	Het	df		11	9	3		34
	Het	P		N.S.	***	*		***
Fixed	RR	1.25		1.20	1.19	1.05		1.18
	RRL	1.06		1.14	1.09	0.95		1.13
	RRu	1.47		1.26	1.31	1.16		1.22
	P	++		+++	+++	N.S.		+++
Random	RR	1.25		1.18	1.24	1.05		1.16
	RRL	1.06		1.11	1.01	0.86		1.09
	RRu	1.47		1.26	1.52	1.27		1.25
	P	++		+++	+	N.S.		+++
Between	Chi							6.34
Between	df							3
Between	P							(*)

Appendix Table C53 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Adjusted

RR data

		Country in Europe						Total
		UK	Italy	Germany	Scand	othWest	East/Bal	
N		5	2	1	1	1	2	12
NS		5	2	1	1	1	2	12
Wt		1050.95	196.07	70.51	10.99	1.52	127.25	1457.29
Het	Chi	2.33	0.52	0.00	0.00	0.00	0.03	12.21
Het	df	4	1	0	0	0	1	11
Het	P	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.25	1.04	1.00	1.52	1.37	1.13	1.20
	RRl	1.18	0.91	0.79	0.84	0.28	0.95	1.14
	RRu	1.33	1.20	1.26	2.75	6.73	1.34	1.26
	P	+++	N.S.	N.S.	N.S.	N.S.	N.S.	+++
Random	RR	1.25	1.04	1.00	1.52	1.37	1.13	1.18
	RRl	1.18	0.91	0.79	0.84	0.28	0.95	1.11
	RRu	1.33	1.20	1.26	2.75	6.73	1.34	1.26
	P	+++	N.S.	N.S.	N.S.	N.S.	N.S.	+++
Between	Chi							9.33
Between	df							5
Between	P							(*)

		Country in Asia			Total
		FarEast	Cent/SE	MidlEast	
N		5	1	4	10
NS		4	1	4	9
Wt		168.00	9.92	260.88	438.79
Het	Chi	4.64	0.00	19.73	35.89
Het	df	4	0	3	9
Het	P	N.S.	N.S.	***	***
Fixed	RR	1.00	0.79	1.36	1.19
	RRl	0.86	0.42	1.20	1.09
	RRu	1.16	1.47	1.53	1.31
	P	N.S.	N.S.	+++	+++
Random	RR	1.01	0.79	1.56	1.24
	RRl	0.85	0.42	1.10	1.01
	RRu	1.19	1.47	2.20	1.52
	P	N.S.	N.S.	+	+
Between	Chi				11.52
Between	df				2
Between	P				**

		Start year of study					Total
		<1970	1970-79	1980-89	1990+	unknown	
N		2	5	11	11	6	35
NS		1	4	10	10	6	31
Wt		278.02	97.70	458.38	541.91	1039.50	2415.51
Het	Chi	0.34	2.23	17.86	7.50	21.68	69.17
Het	df	1	4	10	10	5	34
Het	P	N.S.	N.S.	(*)	N.S.	***	***
Fixed	RR	1.08	1.34	1.09	1.07	1.29	1.18
	RRl	0.96	1.10	1.00	0.98	1.21	1.13
	RRu	1.22	1.63	1.20	1.16	1.37	1.22
	P	N.S.	++	(+)	N.S.	+++	+++
Random	RR	1.08	1.34	1.11	1.07	1.40	1.16
	RRl	0.96	1.10	0.97	0.98	1.17	1.09
	RRu	1.22	1.63	1.28	1.16	1.67	1.25
	P	N.S.	++	N.S.	N.S.	+++	+++
Between	Chi						19.58
Between	df						4
Between	P						***

Appendix Table C53 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Adjusted

Publication year
<1990 1990-94 1995-99 2000+ Total

RR data

	N	3	10	11	11	35
	NS	3	7	11	10	31
	Wt	72.20	506.37	569.94	1267.01	2415.51
Het	Chi	1.08	6.39	18.27	29.41	69.17
Het	df	2	9	10	10	34
Het	P	N.S.	N.S.	(*)	**	***
Fixed	RR	1.41	1.10	1.07	1.25	1.18
	RRL	1.12	1.00	0.99	1.18	1.13
	RRu	1.78	1.20	1.17	1.32	1.22
	P	++	+	(+)	+++	+++
Random	RR	1.41	1.10	1.07	1.27	1.16
	RRL	1.12	1.00	0.96	1.12	1.09
	RRu	1.78	1.20	1.21	1.45	1.25
	P	++	+	N.S.	+++	+++
Between	Chi					14.02
Between	df					3
Between	P					**
	Study type					
		CC	Pr	CS	Total	
	N	1	6	28	35	
	NS	1	5	25	31	
	Wt	9.92	786.65	1618.95	2415.51	
Het	Chi	0.00	1.56	58.24	69.17	
Het	df	0	5	27	34	
Het	P	N.S.	N.S.	***	***	
Fixed	RR	0.79	1.28	1.13	1.18	
	RRL	0.42	1.19	1.08	1.13	
	RRu	1.47	1.37	1.19	1.22	
	P	N.S.	+++	+++	+++	
Random	RR	0.79	1.28	1.15	1.16	
	RRL	0.42	1.19	1.07	1.09	
	RRu	1.47	1.37	1.25	1.25	
	P	N.S.	+++	+++	+++	
Between	Chi				9.37	
Between	df				2	
Between	P				**	
	Highest age in RR					
		0-9	10-14	15+	unknown	Total
	N	6	14	15		35
	NS	5	13	13		31
	Wt	430.09	1504.26	481.16		2415.51
Het	Chi	9.86	18.37	33.55		69.17
Het	df	5	13	14		34
Het	P	(*)	N.S.	**		***
Fixed	RR	1.05	1.19	1.25		1.18
	RRL	0.96	1.13	1.14		1.13
	RRu	1.15	1.25	1.36		1.22
	P	N.S.	+++	+++		+++
Random	RR	1.05	1.16	1.26		1.16
	RRL	0.91	1.07	1.09		1.09
	RRu	1.22	1.24	1.47		1.25
	P	N.S.	+++	++		+++
Between	Chi					7.39
Between	df					2
Between	P					*

Appendix Table C53 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Adjusted

Population setting
general school medical allergy other Total

RR data

N	7	18	8	2	35
NS	6	17	7	1	31
Wt	388.31	1098.21	872.36	56.63	2415.51
Het Chi	15.03	39.67	4.45	0.10	69.17
Het df	6	17	7	1	34
Het P	*	**	N.S.	N.S.	***
Fixed RR	1.13	1.12	1.28	1.15	1.18
RRl	1.02	1.05	1.20	0.88	1.13
RRu	1.24	1.19	1.37	1.49	1.22
P	+	+++	+++	N.S.	+++
Random RR	1.11	1.15	1.28	1.15	1.16
RRl	0.92	1.04	1.20	0.88	1.09
RRu	1.35	1.27	1.37	1.49	1.25
P	N.S.	++	+++	N.S.	+++
Between Chi					9.92
Between df					3
Between P					*

Respondent for ETS exposure
child parent med rec mix/oth Total

N	5	19	1	10	35
NS	5	17	1	8	31
Wt	348.09	1057.90	693.81	315.71	2415.51
Het Chi	5.32	50.64	0.00	4.80	69.17
Het df	4	18	0	9	34
Het P	N.S.	***	N.S.	N.S.	***
Fixed RR	1.08	1.14	1.28	1.18	1.18
RRl	0.97	1.08	1.19	1.06	1.13
RRu	1.20	1.22	1.38	1.32	1.22
P	N.S.	+++	+++	++	+++
Random RR	1.05	1.20	1.28	1.18	1.16
RRl	0.91	1.07	1.19	1.06	1.09
RRu	1.20	1.35	1.38	1.32	1.25
P	N.S.	++	+++	++	+++
Between Chi					8.41
Between df					3
Between P					*

Child smokers
exc/none included ignored Total

N	9	4	22	35
NS	6	4	21	31
Wt	212.79	131.49	2071.23	2415.51
Het Chi	6.38	1.42	57.29	69.17
Het df	8	3	21	34
Het P	N.S.	N.S.	***	***
Fixed RR	1.03	1.22	1.19	1.18
RRl	0.90	1.03	1.14	1.13
RRu	1.18	1.45	1.24	1.22
P	N.S.	+	+++	+++
Random RR	1.03	1.22	1.19	1.16
RRl	0.90	1.03	1.09	1.09
RRu	1.18	1.45	1.29	1.25
P	N.S.	+	+++	+++
Between Chi				4.08
Between df				2
Between P				N.S.

Appendix Table C53 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Adjusted

Physician diagnosis (lifetime)
yes no/mixed Total

RR data

		N	20	15	35		
		NS	18	13	31		
		Wt	1372.24	1043.27	2415.51		
	Het	Chi	23.48	45.39	69.17		
	Het	df	19	14	34		
	Het	P	N.S.	***	***		
Fixed	RR	1.19	1.16	1.18			
	RRL	1.13	1.09	1.13			
	RRu	1.25	1.23	1.22			
	P	+++	+++	+++			
Random	RR	1.14	1.22	1.16			
	RRL	1.06	1.08	1.09			
	RRu	1.23	1.37	1.25			
	P	+++	++	+++			
Between	Chi			0.29			
Between	df			1			
Between	P			N.S.			
		Respondent for diagnosis (lifetime)					
		medrec	parent	child	mixed	Total	
		N	5	20	6	4	35
		NS	4	18	6	3	31
		Wt	792.34	1114.48	380.07	128.62	2415.51
	Het	Chi	3.31	50.70	6.35	1.50	69.17
	Het	df	4	19	5	3	34
	Het	P	N.S.	***	N.S.	N.S.	***
Fixed	RR	1.27	1.14	1.09	1.18	1.18	1.18
	RRL	1.18	1.08	0.99	0.99	1.13	1.13
	RRu	1.36	1.21	1.21	1.40	1.22	1.22
	P	+++	+++	(+)	(+)	+++	
Random	RR	1.27	1.19	1.08	1.18	1.16	1.16
	RRL	1.18	1.07	0.95	0.99	1.09	1.09
	RRu	1.36	1.32	1.22	1.40	1.25	1.25
	P	+++	++	N.S.	(+)	+++	
Between	Chi					7.31	
Between	df					3	
Between	P					(*)	
		Questionnaire for symptoms					
		ISAAC	ATS	other	Total		
		N	5	8	22	35	
		NS	5	7	19	31	
		Wt	381.93	295.85	1737.73	2415.51	
	Het	Chi	0.37	6.21	62.21	69.17	
	Het	df	4	7	21	34	
	Het	P	N.S.	N.S.	***	***	
Fixed	RR	1.15	1.16	1.19	1.18		
	RRL	1.04	1.03	1.13	1.13		
	RRu	1.27	1.29	1.24	1.22		
	P	++	+	+++	+++		
Random	RR	1.15	1.16	1.17	1.16		
	RRL	1.04	1.03	1.06	1.09		
	RRu	1.27	1.29	1.30	1.25		
	P	++	+	++	+++		
Between	Chi				0.38		
Between	df				2		
Between	P				N.S.		

Appendix Table C53 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Adjusted

Analysis type
prevalence onset Total

RR data

	N	30	5	35			
	NS	27	4	31			
	Wt	1660.85	754.66	2415.51			
Het	Chi	60.13	1.55	69.17			
Het	df	29	4	34			
Het	P	***	N.S.	***			
Fixed	RR	1.13	1.28	1.18			
	RRL	1.08	1.19	1.13			
	RRu	1.19	1.37	1.22			
	P	+++	+++	+++			
Random	RR	1.15	1.28	1.16			
	RRL	1.07	1.19	1.09			
	RRu	1.24	1.37	1.25			
	P	+++	+++	+++			
Between	Chi			7.49			
Between	df			1			
Between	P			**			
		Number of cases (lifetime asthma)					
		1-50	51-100	101-200	201+ unknown		Total
	N	2	5	6	20	2	35
	NS	2	4	6	17	2	31
	Wt	7.33	55.08	194.86	2117.85	40.40	2415.51
Het	Chi	1.61	2.10	16.21	34.14	0.07	69.17
Het	df	1	4	5	19	1	34
Het	P	N.S.	N.S.	**	*	N.S.	***
Fixed	RR	1.37	1.12	1.53	1.15	1.11	1.18
	RRL	0.66	0.86	1.33	1.10	0.81	1.13
	RRu	2.83	1.45	1.76	1.20	1.51	1.22
	P	N.S.	N.S.	+++	+++	N.S.	+++
Random	RR	1.35	1.12	1.51	1.11	1.11	1.16
	RRL	0.54	0.86	1.16	1.04	0.81	1.09
	RRu	3.39	1.45	1.96	1.18	1.51	1.25
	P	N.S.	N.S.	++	++	N.S.	+++
Between	Chi						15.03
Between	df						4
Between	P						*

Study adjusts for or is matched on sex
Yes No Total

	N	18	17	35
	NS	16	15	31
	Wt	848.83	1566.68	2415.51
Het	Chi	28.90	31.23	69.17
Het	df	17	16	34
Het	P	*	*	***
Fixed	RR	1.08	1.23	1.18
	RRl	1.01	1.17	1.13
	RRu	1.16	1.29	1.22
	P	+	+++	+++
Random	RR	1.11	1.21	1.16
	RRl	1.00	1.11	1.09
	RRu	1.22	1.33	1.25
	P	+	+++	+++
Between	Chi			9.04
Between	df			1
Between	P			**

Appendix Table C53 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Adjusted

Study adjusts for or is matched on age
Yes No Total

RR data

	N	9	26	35
	NS	9	22	31
	Wt	232.33	2183.18	2415.51
Het	Chi	11.43	53.92	69.17
Het	df	8	25	34
Het	P	N.S.	***	***
Fixed	RR	1.04	1.19	1.18
	RRl	0.92	1.14	1.13
	RRu	1.18	1.24	1.22
	P	N.S.	+++	+++
Random	RR	1.07	1.18	1.16
	RRl	0.90	1.10	1.09
	RRu	1.26	1.27	1.25
	P	N.S.	+++	+++
Between	Chi			3.82
Between	df			1
Between	P			(*)

Study adjusts for or is matched on race

	N	2	33	35
	NS	2	29	31
	Wt	62.72	2352.79	2415.51
Het	Chi	0.45	66.56	69.17
Het	df	1	32	34
Het	P	N.S.	***	***
Fixed	RR	1.41	1.17	1.18
	RRl	1.10	1.12	1.13
	RRu	1.81	1.22	1.22
	P	++	+++	+++
Random	RR	1.41	1.15	1.16
	RRl	1.10	1.07	1.09
	RRu	1.81	1.24	1.25
	P	++	+++	+++
Between	Chi			2.16
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on location

	N	6	29	35
	NS	6	25	31
	Wt	365.41	2050.10	2415.51
Het	Chi	10.66	44.27	69.17
Het	df	5	28	34
Het	P	(*)	*	***
Fixed	RR	0.98	1.22	1.18
	RRl	0.89	1.16	1.13
	RRu	1.09	1.27	1.22
	P	N.S.	+++	+++
Random	RR	0.96	1.21	1.16
	RRl	0.81	1.14	1.09
	RRu	1.13	1.30	1.25
	P	N.S.	+++	+++
Between	Chi			14.24
Between	df			1
Between	P			***

Appendix Table C53 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifeline Asthma
Adjusted

Study adjusts for or is matched on SES
Yes No Total

RR data

N	9	26	35
NS	8	23	31
Wt	297.16	2118.35	2415.51
Het Chi	18.92	45.67	69.17
Het df	8	25	34
Het P	*	**	***
Fixed RR	1.05	1.20	1.18
RRl	0.93	1.15	1.13
RRu	1.17	1.25	1.22
P	N.S.	+++	+++
Random RR	1.11	1.18	1.16
RRl	0.91	1.10	1.09
RRu	1.34	1.27	1.25
P	N.S.	+++	+++
Between Chi			4.58
Between df			1
Between P			*

Study adjusts for family medical history

N	13	22	35
NS	11	20	31
Wt	760.91	1654.60	2415.51
Het Chi	11.08	58.08	69.17
Het df	12	21	34
Het P	N.S.	***	***
Fixed RR	1.18	1.17	1.18
RRl	1.10	1.12	1.13
RRu	1.27	1.23	1.22
P	+++	+++	+++
Random RR	1.18	1.13	1.16
RRl	1.10	1.02	1.09
RRu	1.27	1.25	1.25
P	+++	+	+++
Between Chi			0.01
Between df			1
Between P			N.S.

Study adjusts for family composition

N	5	30	35
NS	5	26	31
Wt	187.20	2228.31	2415.51
Het Chi	13.98	51.20	69.17
Het df	4	29	34
Het P	**	**	***
Fixed RR	1.02	1.19	1.18
RRl	0.89	1.14	1.13
RRu	1.18	1.24	1.22
P	N.S.	+++	+++
Random RR	1.07	1.18	1.16
RRl	0.81	1.10	1.09
RRu	1.42	1.26	1.25
P	N.S.	+++	+++
Between Chi			3.99
Between df			1
Between P			*

Appendix Table C53 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Adjusted

Study adjusts for cooking, heating, air conditioning
Yes No Total

RR data

	N	3	32	35
	NS	3	28	31
	Wt	200.04	2215.47	2415.51
Het	Chi	2.45	64.27	69.17
Het	df	2	31	34
Het	P	N.S.	***	***
Fixed	RR	1.06	1.19	1.18
	RRl	0.92	1.14	1.13
	RRu	1.22	1.24	1.22
	P	N.S.	+++	+++
Random	RR	1.06	1.17	1.16
	RRl	0.88	1.09	1.09
	RRu	1.27	1.26	1.25
	P	N.S.	+++	+++
Between	Chi			2.45
Between	df			1
Between	P			N.S.

Study adjusts for housing quality, crowding, damp, mould

	N	3	32	35
	NS	3	28	31
	Wt	149.01	2266.50	2415.51
Het	Chi	1.24	66.04	69.17
Het	df	2	31	34
Het	P	N.S.	***	***
Fixed	RR	1.05	1.18	1.18
	RRl	0.90	1.14	1.13
	RRu	1.24	1.23	1.22
	P	N.S.	+++	+++
Random	RR	1.05	1.18	1.16
	RRl	0.90	1.09	1.09
	RRu	1.24	1.27	1.25
	P	N.S.	+++	+++
Between	Chi			1.89
Between	df			1
Between	P			N.S.

Study adjusts for pets, animal contact, farming

	N	4	31	35
	NS	3	28	31
	Wt	115.51	2300.00	2415.51
Het	Chi	0.96	65.90	69.17
Het	df	3	30	34
Het	P	N.S.	***	***
Fixed	RR	1.35	1.17	1.18
	RRl	1.13	1.12	1.13
	RRu	1.62	1.22	1.22
	P	++	+++	+++
Random	RR	1.35	1.15	1.16
	RRl	1.13	1.07	1.09
	RRu	1.62	1.23	1.25
	P	++	+++	+++
Between	Chi			2.31
Between	df			1
Between	P			N.S.

Appendix Table C53 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma

Adjusted
Study adjusts for child's medical history

	Yes	No	Total
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RR data

N	12	23	35
NS	10	21	31
Wt	631.06	1784.45	2415.51
Het Chi	12.17	57.00	69.17
Het df	11	22	34
Het P	N.S.	***	***
Fixed RR	1.18	1.18	1.18
RRl	1.09	1.12	1.13
RRu	1.27	1.23	1.22
P	+++	+++	+++
Random RR	1.19	1.14	1.16
RRl	1.09	1.03	1.09
RRu	1.29	1.25	1.25
P	+++	++	+++
Between Chi			0.00
Between df			1
Between P			N.S.

Study adjusts for in utero exposure

N	1	34	35
NS	1	30	31
Wt	10.99	2404.52	2415.51
Het Chi	0.00	68.44	69.17
Het df	0	33	34
Het P	N.S.	***	***
Fixed RR	1.52	1.17	1.18
RRl	0.84	1.13	1.13
RRu	2.75	1.22	1.22
P	N.S.	+++	+++
Random RR	1.52	1.16	1.16
RRl	0.84	1.08	1.09
RRu	2.75	1.24	1.25
P	N.S.	+++	+++
Between Chi			0.73
Between df			1
Between P			N.S.

Study adjusts for in life exposure

N	14	21	35
NS	13	18	31
Wt	992.73	1422.78	2415.51
Het Chi	22.02	42.34	69.17
Het df	13	20	34
Het P	(*)	**	***
Fixed RR	1.12	1.22	1.18
RRl	1.05	1.16	1.13
RRu	1.19	1.29	1.22
P	+++	+++	+++
Random RR	1.13	1.19	1.16
RRl	1.04	1.07	1.09
RRu	1.23	1.32	1.25
P	++	+++	+++
Between Chi			4.81
Between df			1
Between P			*

Appendix Table C53 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Adjusted

Exposed group : Who is smoker
Father FathOnly Total

RR data

	N	33	2	35
	NS	30	1	31
	Wt	2358.88	56.63	2415.51
Het	Chi	69.03	0.10	69.17
Het	df	32	1	34
Het	P	***	N.S.	***
Fixed	RR	1.18	1.15	1.18
	RRl	1.13	0.88	1.13
	RRu	1.23	1.49	1.22
	P	+++	N.S.	+++
Random	RR	1.16	1.15	1.16
	RRl	1.08	0.88	1.09
	RRu	1.25	1.49	1.25
	P	+++	N.S.	+++
Between	Chi			0.04
Between	df			1
Between	P			N.S.

Exposed group : when Exposed
lif/ev age<7y current unspec other Total

	N	10	2	9	13	1	35
	NS	10	1	7	12	1	31
	Wt	947.71	17.92	639.26	778.63	31.98	2415.51
Het	Chi	23.46	0.50	15.91	14.67	0.00	69.17
Het	df	9	1	8	12	0	34
Het	P	**	N.S.	*	N.S.	N.S.	***
Fixed	RR	1.29	1.07	1.08	1.12	1.30	1.18
	RRl	1.21	0.67	1.00	1.05	0.92	1.13
	RRu	1.38	1.69	1.17	1.20	1.84	1.22
	P	+++	N.S.	+	++	N.S.	+++
Random	RR	1.37	1.07	1.09	1.12	1.30	1.16
	RRl	1.14	0.67	0.97	1.03	0.92	1.09
	RRu	1.65	1.69	1.22	1.22	1.84	1.25
	P	+++	N.S.	N.S.	++	N.S.	+++
Between	Chi						14.63
Between	df						4
Between	P						**

Unexposed group : who is smoker
NoHhMem NoParent NotSpPar Total

	N	2	2	31	35
	NS	2	1	28	31
	Wt	107.41	56.63	2251.47	2415.51
Het	Chi	0.08	0.10	60.85	69.17
Het	df	1	1	30	34
Het	P	N.S.	N.S.	***	***
Fixed	RR	0.90	1.15	1.19	1.18
	RRl	0.74	0.88	1.14	1.13
	RRu	1.09	1.49	1.24	1.22
	P	N.S.	N.S.	+++	+++
Random	RR	0.90	1.15	1.19	1.16
	RRl	0.74	0.88	1.10	1.09
	RRu	1.09	1.49	1.28	1.25
	P	N.S.	N.S.	+++	+++
Between	Chi				8.14
Between	df				2
Between	P				*

Appendix Table C53 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetme Asthma
Adjusted

Unexposed group : time
non never non+othr Total

RR data

	N	26	9		35			
	NS	23	8		31			
	Wt	1457.51	958.00		2415.51			
Het	Chi	35.40	23.02		69.17			
Het	df	25	8		34			
Het	P	(*)	**		***			
Fixed	RR	1.11	1.28		1.18			
	RRl	1.06	1.20		1.13			
	RRu	1.17	1.36		1.22			
	P	+++	+++		+++			
Random	RR	1.12	1.32		1.16			
	RRl	1.05	1.10		1.09			
	RRu	1.20	1.58		1.25			
	P	+++	++		+++			
Between	Chi				10.75			
Between	df				1			
Between	P				**			
		Number of adjustment variables						
		0	1	2	3-5	6-9	10+	Total
	N	21	4	2	3	4	1	35
	NS	18	3	2	3	4	1	31
	Wt	1967.92	131.80	41.57	108.92	119.86	45.44	2415.51
Het	Chi	36.80	4.28	0.34	0.34	12.51	0.00	69.17
Het	df	20	3	1	2	3	0	34
Het	P	*	N.S.	N.S.	N.S.	**	N.S.	***
Fixed	RR	1.21	1.16	1.33	0.91	1.00	0.95	1.18
	RRl	1.16	0.98	0.98	0.75	0.84	0.71	1.13
	RRu	1.26	1.38	1.80	1.09	1.19	1.27	1.22
	P	+++	(+)	(+)	N.S.	N.S.	N.S.	+++
Random	RR	1.20	1.20	1.33	0.91	1.12	0.95	1.16
	RRl	1.12	0.96	0.98	0.75	0.73	0.71	1.09
	RRu	1.30	1.49	1.80	1.09	1.72	1.27	1.25
	P	+++	N.S.	(+)	N.S.	N.S.	N.S.	+++
Between	Chi							14.89
Between	df							5
Between	P							*

RR adjusted for sex

Yes No Total

	N	9	26	35
	NS	9	22	31
	Wt	285.17	2130.34	2415.51
Het	Chi	13.75	41.96	69.17
Het	df	8	25	34
Het	P	(*)	*	***
Fixed	RR	0.96	1.21	1.18
	RRl	0.85	1.16	1.13
	RRu	1.08	1.26	1.22
	P	N.S.	+++	+++
Random	RR	0.99	1.21	1.16
	RRl	0.84	1.13	1.09
	RRu	1.17	1.29	1.25
	P	N.S.	+++	+++
Between	Chi			13.46
Between	df			1
Between	P			***

Appendix Table C53 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Adjusted

RR adjusted for age
Yes No Total

RR data

	N	8	27	35
	NS	8	23	31
	Wt	221.33	2194.18	2415.51
Het	Chi	9.77	54.57	69.17
Het	df	7	26	34
Het	P	N.S.	***	***
Fixed	RR	1.02	1.19	1.18
	RRl	0.90	1.14	1.13
	RRu	1.17	1.24	1.22
	P	N.S.	+++	+++
Random	RR	1.04	1.19	1.16
	RRl	0.88	1.10	1.09
	RRu	1.23	1.28	1.25
	P	N.S.	+++	+++
Between	Chi			4.82
Between	df			1
Between	P			*

RR adjusted for other ETS

	N	7	28	35
	NS	7	24	31
	Wt	280.75	2134.76	2415.51
Het	Chi	16.65	49.33	69.17
Het	df	6	27	34
Het	P	*	**	***
Fixed	RR	1.06	1.19	1.18
	RRl	0.95	1.14	1.13
	RRu	1.20	1.24	1.22
	P	N.S.	+++	+++
Random	RR	1.12	1.18	1.16
	RRl	0.90	1.10	1.09
	RRu	1.38	1.26	1.25
	P	N.S.	+++	+++
Between	Chi			3.19
Between	df			1
Between	P			(*)

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

	N	10	25	35
	NS	9	22	31
	Wt	332.64	2082.87	2415.51
Het	Chi	20.72	40.13	69.17
Het	df	9	24	34
Het	P	*	*	***
Fixed	RR	1.02	1.20	1.18
	RRl	0.91	1.15	1.13
	RRu	1.13	1.26	1.22
	P	N.S.	+++	+++
Random	RR	1.07	1.20	1.16
	RRl	0.90	1.12	1.09
	RRu	1.27	1.28	1.25
	P	N.S.	+++	+++
Between	Chi			8.32
Between	df			1
Between	P			**

Appendix Table C53 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Adjusted

Original	Numbers	SumNumbs	Other	Total
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RR data

N	11	15	5	4	35
NS	11	12	4	4	31
Wt	565.92	929.12	129.16	791.31	2415.51
Het Chi	17.73	33.35	3.43	6.24	69.17
Het df	10	14	4	3	34
Het P	(*)	**	N.S.	N.S.	***
Fixed RR	1.08	1.16	1.23	1.26	1.18
RRl	0.99	1.09	1.03	1.17	1.13
RRu	1.17	1.24	1.46	1.35	1.22
P	(+)	+++	+	+++	+++
Random RR	1.07	1.22	1.23	1.19	1.16
RRl	0.94	1.09	1.03	0.99	1.09
RRu	1.21	1.37	1.46	1.44	1.25
P	N.S.	+++	+	(+)	+++
Between Chi					8.43
Between df					3
Between P					*

Appendix Table C53 - 4

Children - Meta-analysis of Paternal Exposure during Lifetime
 Lifetime Asthma
 Unadjusted

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGUDOT	1		b	14	15	all	Eu:wst	1997	2000	CS	4	Father	NotFathr	ever	never
ALDAW0	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
BENCIV	2		b	8	14	all	Eu:Ita	2001	2004	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
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never
RATAGE	2		b	5	15	all	As:cen	1996	2000	CC	0	Father	NotFathr	unspec	non
SHAMS2	1		b	13	14	all	Eu:UK	*	2001	CS	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 C53 - 5

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGUDOT	1	b	4	-	-	-	-	1.37 (	0.28-	6.76)
ALDAW0	3	m	0	76	402	65	939	2.73 (	1.92-	3.88)
ALFRA1	1	b	0	-	-	-	-	1.32 (	1.01-	1.72)
BENCIV	2	b	0	396	1936	331	1737	1.07 (	0.91-	1.26)
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)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
RATAGE	2	b	0	51	29	69	31	0.79 (	0.42-	1.47)
SHAMS2	1	b	0	-	-	-	-	1.18 (	0.94-	1.24)
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				4240	22158	4295	26180			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	1	b	4	0.31	1.52	0.03	0.6983
ALDAW0	3	m	0	1.00	31.16	21.74	0.0000
ALFRA1	1	b	0	0.28	54.22	0.64	0.0409
BENCIV	2	b	0	0.07	150.63	1.46	0.3847
CHEN2	4	b	0	-0.02	20.12	0.71	0.9356
DOLD	11	b	0	0.06	73.98	0.90	0.6126
ECE	6	b	0	0.13	88.36	0.14	0.2260
*FERGUS	11	b	0	0.26	38.26	0.30	0.1115
FORAST	11	b	0	0.09	47.63	0.32	0.5462
GOREN2	1	b	0	0.14	144.77	0.12	0.0922
GORTM1	4	b	7	0.40	36.85	1.94	0.0155
HU2	3	b	0	0.26	31.98	0.28	0.1379
JENKIN	2	m	0	0.05	163.54	2.24	0.5042
JENKIN	4	f	0	0.12	114.48	0.25	0.1886
Subtotal JENKIN				-0.16	278.02	2.49	
KAY	11	b	0	0.42	37.83	2.47	0.0090
KIVITY	3	b	0	0.43	30.74	2.12	0.0166
LAM1	17	b	4	-0.08	65.19	4.16	0.5008
LAM2	9	b	4	-0.14	42.22	4.02	0.3655
LIS	2	b	0	0.10	38.89	0.21	0.5523
LISTER	2	b	0	-0.14	73.50	7.00	0.2325
*MARTIN	3	m	0	-0.05	11.97	0.60	0.8497
*MARTIN	4	f	0	0.30	5.95	0.10	0.4631
Subtotal MARTIN				-0.09	17.92	0.70	

Appendix Table C53 - 5

Children - Meta-analysis of Paternal Exposure during Lifetime
 Lifetime Asthma
 Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
MCCON2	3	b	0	-0.19	3.36	0.44	0.7232
*MCKEEV	8	b	0	0.25	693.81	4.18	0.0000
MURRAY	2	m	0	0.40	19.53	1.02	0.0784
MURRAY	4	f	0	0.07	11.49	0.11	0.8065
Subtotal	MURRAY			0.13	31.02	1.13	
QIAN	1	b	7	0.75	3.96	1.32	0.1372
RATAGE	2	b	0	-0.24	9.92	1.63	0.4582
SHAMS2	1	b	0	0.17	200.28	0.00	0.0192
SHAMSS	1	b	0	0.10	52.89	0.29	0.4882
*SHERMA	4	b	2	0.13	10.95	0.02	0.6646
SOYSET	5	b	0	0.42	10.99	0.68	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			-0.07	56.63	0.16	
WITHER	3	b	0	0.24	73.35	0.36	0.0402

RR data

	N	35
	NS	31
	Wt	2450.94
Het	Chi	61.98
Het	df	34
Het	P	**
Fixed	RR	1.18
	RRl	1.14
	RRu	1.23
	P	+++
Random	RR	1.17
	RRl	1.10
	RRu	1.25
	P	+++
Asymm	P	N.S.

Appendix Table C53 - 6

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Unadjusted

RR data

[illegible]

Appendix Table C53 - 6

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Unadjusted

Start year of study
<1970 1970-79 1980-89 1990+ unknown Total

RR data

	N	2	5	11	11	6	35
	NS	1	4	10	10	6	31
	Wt	278.02	103.98	475.41	546.82	1046.70	2450.94
Het	Chi	0.34	2.09	11.73	7.34	22.55	61.98
Het	df	1	4	10	10	5	34
Het	P	N.S.	N.S.	N.S.	N.S.	***	**
Fixed	RR	1.08	1.30	1.13	1.07	1.29	1.18
	RRl	0.96	1.07	1.03	0.98	1.22	1.14
	RRu	1.22	1.57	1.23	1.16	1.38	1.23
	P	N.S.	++	++	N.S.	+++	+++
Random	RR	1.08	1.30	1.14	1.07	1.42	1.17
	RRl	0.96	1.07	1.02	0.98	1.19	1.10
	RRu	1.22	1.57	1.26	1.16	1.69	1.25
	P	N.S.	++	+	N.S.	+++	+++
Between	Chi						17.93
Between	df						4
Between	P						**
	Study type						
	CC	Pr	CS	Total			
	N	1	6	28	35		
	NS	1	5	25	31		
	Wt	9.92	792.93	1648.09	2450.94		
Het	Chi	0.00	1.25	53.11	61.98		
Het	df	0	5	27	34		
Het	P	N.S.	N.S.	**	**		
Fixed	RR	0.79	1.27	1.15	1.18		
	RRl	0.42	1.19	1.09	1.14		
	RRu	1.47	1.37	1.20	1.23		
	P	N.S.	+++	+++	+++		
Random	RR	0.79	1.27	1.17	1.17		
	RRl	0.42	1.19	1.09	1.10		
	RRu	1.47	1.37	1.26	1.25		
	P	N.S.	+++	+++	+++		
Between	Chi				7.62		
Between	df				2		
Between	P				*		

Appendix Table C53 - 7

Children - Meta-analysis of Paternal Exposure during Lifetime
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	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
2	AKCAKA	ALBA	ANDRAE	ANNES2	ANNESI	ARIF	BARRET	BECKET	BENER	BRABIN	BURR	BUTZ	CHEN1	CUNNI2	DEBENE	DELL
	DODGE	EHRLI2	FARBE1	FARBE2	FARBE3	FAR00Q	FIELDE	FLYNN1	FLYNN2	FREEM1	FREEM2	GILLIL	GOLD	GOREN1	GOREN3	GOREN4
	GOREN5	GOREN6	GURKAN	HAJNAL	HU1	JAAKK2	KALY01	KAPLAN	KASPER	KEARNE	KELLY	KENDIR	KERSHA	KUEHR	KUHR	LEE3
	LEEDER	LEROUX	LEVES1	LEVES2	LEVES3	MAIER	MCCON1	MONTEF	MONTEI	MOYES1	MOYES2	NHANE3	NICOLA	NILSSO	NYSTAD	OCONNE
	ODDY	PIROGO	POKHAR	PONSON	RASANE	RENNIE	RONCH1	RONCH2	RONCH3	RONMA2	RONMA3	ROSASV	RUDNIK	SANZOR	SCHENK	SELCUK
	SENNHA	SIGURS	SPIEKE	SQUILL	STANHO	STERN2	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VERHOE	VOLKME	VONMAF	WARKE
	WEITZ1	WICKMA	WIJGA	WOLF01	WOLF02	WOLF03	XU	YUAN	ZEJDA	ZHANG						
5	BURCHF	GORTM2	STAZI	ZEIGER												
13	ALFRA2															

Appendix Table C53 - 8

Children - Meta-analysis of Paternal Exposure during Lifetime
 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	?	
BENCIV	4	b	8	14	all	Eu:Ita	2001	2004	CS	3	Father	NotFathr	unspec	non	*	n	
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 C54 -
Children - Meta-analysis of Paternal Exposure during Lifetime
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 C53 - 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 C54 - 1

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Adjusted

REF	NRR	CompC53	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
AGUDOT	1		b	14	15	all	Eu:wst	1997	2000	CS	4	Father	NotFathr	ever	never
ALDAW0	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
BENCIV	2		b	8	14	all	Eu:Ita	2001	2004	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
QIAN	1		b	5	14	all	As:FE	1988	2000	CS	7	Father	NotFathr	ever	never
RATAGE	3	x	b	5	15	all	As:cen	1996	2000	CC	0	Father	NoHhMemb	unspec	non
SHAMS2	1		b	13	14	all	Eu:UK	*	2001	CS	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	5	x	b	14	16	all	Eu:UK	1995	1998	CS	0	Father	NoHhMemb	current	non

Appendix Table C54 - 2

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGUDOT	1	b	4	-	-	-	-	1.37 (	0.28-	6.76)
ALDAW0	3	m	0	76	402	65	939	2.73 (	1.92-	3.88)
ALFRA1	1	b	0	-	-	-	-	1.32 (	1.01-	1.72)
BENCIV	2	b	0	396	1936	331	1737	1.07 (	0.91-	1.26)
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)
QIAN	1	b	7	-	-	-	-	2.11 (	0.79-	5.66)
RATAGE	3	b	0	51	29	58	30	0.91 (	0.48-	1.71)
SHAMS2	1	b	0	-	-	-	-	1.18 (	0.94-	1.24)
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				4240	19850	4040	22716			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGUDOT	1	b	4	0.31	1.52	0.03	0.6983
ALDAW0	3	m	0	1.00	31.16	21.62	0.0000
ALFRA1	1	b	0	0.28	54.22	0.61	0.0409
BENCIV	2	b	0	0.07	150.63	1.53	0.3847
CHEN2	30	b	6	-0.07	15.21	0.91	0.7772
DOLD	6	b	0	0.12	68.93	0.19	0.3231
ECE	1	b	0	0.18	75.89	0.00	0.1262
*FERGUS	6	b	0	0.16	35.25	0.00	0.3315
FORAST	19	b	9	0.19	34.85	0.01	0.2604
GOREN2	1	b	0	0.14	144.77	0.15	0.0922
GORTM1	4	b	7	0.40	36.85	1.90	0.0155
HU2	3	b	0	0.26	31.98	0.26	0.1379
JENKIN	2	m	0	0.05	163.54	2.33	0.5042
JENKIN	4	f	0	0.12	114.48	0.27	0.1886
Subtotal JENKIN				-0.17	278.02	2.61	
KAY	19	b	1	0.43	32.41	2.08	0.0155
KIVITY	3	b	0	0.43	30.74	2.08	0.0166
LAM1	17	b	4	-0.08	65.19	4.24	0.5008
LAM2	9	b	4	-0.14	42.22	4.08	0.3655
LIS	2	b	0	0.10	38.89	0.23	0.5523
LISTER	4	b	8	-0.26	63.84	11.97	0.0368
*MARTIN	3	m	0	-0.05	11.97	0.61	0.8497
*MARTIN	4	f	0	0.30	5.95	0.10	0.4631
Subtotal MARTIN				-0.10	17.92	0.71	

Appendix Table C54 - 2

Children - Meta-analysis of Paternal Exposure during Lifetime
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
MCCON2	3	b	0	-0.19	3.36	0.45	0.7232
*MCKEEV	8	b	0	0.25	693.81	3.93	0.0000
MURRAY	6	m	1	0.43	18.06	1.22	0.0665
MURRAY	8	f	1	0.08	11.26	0.10	0.7962
Subtotal	MURRAY			0.17	29.31	1.32	
QIAN	1	b	7	0.75	3.96	1.31	0.1372
RATAGE	3	b	0	-0.09	9.55	0.68	0.7697
SHAMS2	1	b	0	0.17	200.28	0.01	0.0192
SHAMSS	1	b	0	0.10	52.89	0.31	0.4882
*SHERMA	4	b	2	0.13	10.95	0.02	0.6646
SOYSET	5	b	0	0.42	10.99	0.67	0.1648
VENNER	6	m	0	0.09	27.66	0.16	0.6182
VENNER	3	f	0	0.18	28.98	0.00	0.3399
Subtotal	VENNER			-0.07	56.63	0.16	
WITHER	5	b	0	0.25	69.21	0.38	0.0407

RR data

	N	35
	NS	31
	Wt	2391.43
Het	Chi	64.47
Het	df	34
Het	P	**
Fixed	RR	1.19
	RRl	1.14
	RRu	1.24
	P	+++
Random	RR	1.18
	RRl	1.10
	RRu	1.26
	P	+++
Asymm	P	N.S.

Appendix Table C54 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Lifetime Asthma
Adjusted

RR data

	N	35			
	NS	31			
	Wt	2391.43			
Het	Chi	64.47			
Het	df	34			
Het	P	**			
Fixed	RR	1.19			
	RRl	1.14			
	RRu	1.24			
	P	+++			
Random	RR	1.18			
	RRl	1.10			
	RRu	1.26			
	P	+++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both		male	female	Total
	N	26	5	4	35
	NS	26	5	4	35
	Wt	1978.38	252.38	160.67	2391.43
Het	Chi	38.04	25.80	0.27	64.47
Het	df	25	4	3	34
Het	P	*	***	N.S.	**
Fixed	RR	1.19	1.22	1.15	1.19
	RRl	1.14	1.08	0.98	1.14
	RRu	1.24	1.38	1.34	1.24
	P	+++	++	(+)	+++
Random	RR	1.16	1.37	1.15	1.18
	RRl	1.09	0.92	0.98	1.10
	RRu	1.24	2.02	1.34	1.26
	P	+++	N.S.	(+)	+++
Between	Chi				0.36
Between	df				2
Between	P				N.S.

Appendix Table C54 - 7

Children - Meta-analysis of Paternal Exposure during Lifetime
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	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
2	AKCAKA	ALBA	ANDRAE	ANNES2	ANNESI	ARIF	BARRET	BECKET	BENER	BRABIN	BURR	BUTZ	CHEN1	CUNNI2	DEBENE	DELL
	DODGE	EHRLI2	FARBE1	FARBE2	FARBE3	FAR00Q	FIELDE	FLYNN1	FLYNN2	FREEM1	FREEM2	GILLIL	GOLD	GOREN1	GOREN3	GOREN4
	GOREN5	GOREN6	GURKAN	HAJNAL	HU1	JAAKK2	KALY01	KAPLAN	KASPER	KEARNE	KELLY	KENDIR	KERSHA	KUEHR	KUHR	LEE3
	LEEDER	LEROUX	LEVES1	LEVES2	LEVES3	MAIER	MCCON1	MONTEF	MONTEI	MOYES1	MOYES2	NHANE3	NICOLA	NILSSO	NYSTAD	OCONNE
	ODDY	PIROGO	POKHAR	PONSON	RASANE	RENNIE	RONCH1	RONCH2	RONCH3	RONMA2	RONMA3	ROSASV	RUDNIK	SANZOR	SCHENK	SELCUK
	SENNHA	SIGURS	SPIEKE	SQUILL	STANHO	STERN2	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VERHOE	VOLKME	VONMAF	WARKE
	WEITZ1	WICKMA	WIJGA	WOLF01	WOLF02	WOLF03	XU	YUAN	ZEJDA	ZHANG						
5	BURCHF	GORTM2	STAZI	ZEIGER												
13	ALFRA2															

Appendix Table C54 - 8

Children - Meta-analysis of Paternal Exposure during Lifetime
 Lifetime Asthma
 Potentially overlapping studies

REF			REFGP PRINC			OVERLAP										
ALFRA1	ALFRA1		1	ALFRA1/ALFRA2												
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	3	b	7	12	all	As:ME	1986	1990	CS	6	Father	NotFathr	unspec	non	1.04	?
BENCIV	4	b	8	14	all	Eu:Ita	2001	2004	CS	3	Father	NotFathr	unspec	non	*	n
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 C55 -

Children - Meta-analysis of Paternal Exposure during Lifetime
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 C7 - 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 C55 - 1

Children - Meta-analysis of Paternal Exposure during Lifetime
 Current Asthma
 Adjusted

REF	NRR	CompC7	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
AGUDOT	3	x	b	14	15	all	Eu:wst	1997	2000	CS	4	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
MAVALE	13	x	b	1	8	all	Africa	1999	2004	CC	1	Father	NotFathr	unspec	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
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	FathOnly	NoHhMemb	ever	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 C55 - 2

Children - Meta-analysis of Paternal Exposure during Lifetime
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGABI1	46	b	11	662	-	258	-	1.12 (	0.96-	1.30)
AGABI2	46	b	12	941	-	317	-	1.15 (	1.00-	1.32)
AGUDOT	3	b	4	-	-	-	-	1.60 (	0.33-	7.78)
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)
MAVALE	13	b	1	32	-	68	-	1.76 (	0.91-	3.40)
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)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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				2816	7561	2762	5016			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	46	b	11	0.11	167.16	1.01	0.1429
AGABI2	46	b	12	0.14	199.35	2.16	0.0485
AGUDOT	3	b	4	0.47	1.54	0.29	0.5599
CHEN2	43	b	1	-0.16	14.86	0.58	0.5310
DAIGLE	2	b	0	-0.34	16.64	2.41	0.1596
GILLIL	37	b	8	0.10	17.23	0.06	0.6924
HJERN2	13	b	9	-0.06	22.00	0.21	0.7716
HU2	4	b	0	0.34	27.91	2.52	0.0755
INFANT	6	b	0	-0.21	53.34	3.11	0.1328
JONES	3	b	0	-0.17	12.07	0.49	0.5654
LAM1	19	b	4	-0.20	12.41	0.68	0.4845
LAM2	12	b	4	-0.37	11.81	1.96	0.2022
MAVALE	13	b	1	0.57	8.84	2.48	0.0927
MOUSSA	2	b	0	0.03	15.60	0.00	0.8993
MUMCUO	1	b	0	-0.06	18.09	0.15	0.8137
SHIVA	1	b	0	0.39	4.36	0.55	0.4160
SHOHAT	3	b	12	0.05	80.57	0.01	0.6614
SOTOQU	2	b	0	0.17	97.39	1.75	0.0937
STERN1	2	b	0	0.34	12.00	1.13	0.2362
STODDA	11	b	9	-0.19	86.99	4.29	0.0822
STRACH	12	b	4	-0.15	29.82	1.04	0.4102
TARIQ	2	b	8	-0.09	6.51	0.11	0.8099
TOMINA	1	b	0	-0.17	16.87	0.71	0.4878
WILLE1	15	b	1	-0.33	6.73	0.89	0.3940

Appendix Table C55 - 2

Children - Meta-analysis of Paternal Exposure during Lifetime
 Current Asthma
 Adjusted

RR data

	N	24
	NS	24
	Wt	940.10
Het	Chi	28.58
Het	df	23
Het	P	N.S.
Fixed	RR	1.04
	RRl	0.97
	RRu	1.10
	P	N.S.
Random	RR	1.02
	RRl	0.94
	RRu	1.10
	P	N.S.
Asymm	P	N.S.

Appendix Table C55 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime	
	Current Asthma
	Adjusted
1	0.10
2	0.10
3	0.10
4	0.10
5	0.10
6	0.10
7	0.10
8	0.10
9	0.10
10	0.10
11	0.10
12	0.10
13	0.10
14	0.10
15	0.10
16	0.10
17	0.10
18	0.10
19	0.10
20	0.10
21	0.10
22	0.10
23	0.10
24	0.10
25	0.10
26	0.10
27	0.10
28	0.10
29	0.10
30	0.10
31	0.10
32	0.10
33	0.10
34	0.10
35	0.10
36	0.10
37	0.10
38	0.10
39	0.10
40	0.10
41	0.10
42	0.10
43	0.10
44	0.10
45	0.10
46	0.10
47	0.10
48	0.10
49	0.10
50	0.10
51	0.10
52	0.10
53	0.10
54	0.10
55	0.10
56	0.10
57	0.10
58	0.10
59	0.10
60	0.10
61	0.10
62	0.10
63	0.10
64	0.10
65	0.10
66	0.10
67	0.10
68	0.10
69	0.10
70	0.10
71	0.10
72	0.10
73	0.10
74	0.10
75	0.10
76	0.10
77	0.10
78	0.10
79	0.10
80	0.10
81	0.10
82	0.10
83	0.10
84	0.10
85	0.10
86	0.10
87	0.10
88	0.10
89	0.10
90	0.10
91	0.10
92	0.10
93	0.10
94	0.10
95	0.10
96	0.10
97	0.10
98	0.10
99	0.10
100	0.10

RR data

[illegible]

Appendix Table C55 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime

		Current Asthma Adjusted					
		Country in Europe				Total	
		UK	Italy	Germany	Scand	othWest	East/Bal
RR data	N	3	2		2	1	8
	NS	3	2		2	1	8
		Wt	48.40	366.51	28.73	1.54	445.18
	Het Chi	0.02	0.06		0.37	0.00	5.21
	Het df	2	1		1	0	7
	Het P	N.S.	N.S.		N.S.	N.S.	N.S.
Fixed	RR	0.86	1.14		0.88	1.60	1.09
	RRI	0.65	1.03		0.61	0.33	0.99
	RRu	1.14	1.26		1.27	7.77	1.19
	P	N.S.	+		N.S.	N.S.	(+)
Random	RR	0.86	1.14		0.88	1.60	1.09
	RRI	0.65	1.03		0.61	0.33	0.99
	RRu	1.14	1.26		1.27	7.77	1.19
	P	N.S.	+		N.S.	N.S.	(+)
Between	Chi						4.76
Between	df						3
Between	P						N.S.
		Country in Asia			Total		
		FarEast	Cent/SE	MidlEast			
	N	3		4	7		
	NS	3		4	7		
		Wt	41.09	118.62	159.71		
	Het Chi	0.31		0.70	3.39		
	Het df	2		3	6		
	Het P	N.S.		N.S.	N.S.		
Fixed	RR	0.79		1.04	0.97		
	RRI	0.58		0.87	0.83		
	RRu	1.07		1.25	1.13		
	P	N.S.		N.S.	N.S.		
Random	RR	0.79		1.04	0.97		
	RRI	0.58		0.87	0.83		
	RRu	1.07		1.25	1.13		
	P	N.S.		N.S.	N.S.		
Between	Chi				2.38		
Between	df				1		
Between	P				N.S.		
		Start year of study				Total	
		<1970	1970-79	1980-89	1990+	unknown	
	N		1	9	14		24
	NS		1	9	14		24
		Wt	16.87	325.61	597.62	940.10	
	Het Chi		0.00	15.33	10.71	28.58	
	Het df		0	8	13	23	
	Het P		N.S.	(*)	N.S.	N.S.	
Fixed	RR		0.84	0.98	1.07	1.04	
	RRI		0.52	0.88	0.99	0.97	
	RRu		1.36	1.09	1.16	1.10	
	P		N.S.	N.S.	(+)	N.S.	
Random	RR		0.84	0.98	1.07	1.02	
	RRI		0.52	0.82	0.99	0.94	
	RRu		1.36	1.16	1.16	1.10	
	P		N.S.	N.S.	(+)	N.S.	
Between	Chi					2.54	
Between	df					2	
Between	P					N.S.	

Appendix Table C55 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime

Children - Meta-analysis of Paternal				
Current Asthma				
Adjusted				
Publication year				
<1990	1990-94	1995-99	2000+	Total

RR data

	N	2	5	10	7	24
	NS	2	5	10	7	24
	Wt	28.87	192.20	577.99	141.04	940.10
Het	Chi	1.83	7.77	14.70	3.46	28.58
Het	df	1	4	9	6	23
Het	P	N.S.	N.S.	(*)	N.S.	N.S.
Fixed	RR	1.04	0.98	1.04	1.08	1.04
	RRL	0.73	0.85	0.96	0.92	0.97
	RRu	1.50	1.13	1.13	1.28	1.10
	P	N.S.	N.S.	N.S.	N.S.	N.S.
Random	RR	1.07	0.92	1.00	1.08	1.02
	RRL	0.65	0.73	0.89	0.92	0.94
	RRu	1.75	1.15	1.13	1.28	1.10
	P	N.S.	N.S.	N.S.	N.S.	N.S.
Between	Chi					0.83
Between	df					3
Between	P					N.S.

	Study type		Pr	CS	Total
	CC				
	N	10	2	12	24
	NS	10	2	12	24
	Wt	527.65	34.42	378.03	940.10
Het	Chi	13.64	0.98	11.65	28.58
Het	df	9	1	11	23
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.05	1.29	1.00	1.04
	RRL	0.96	0.92	0.90	0.97
	RRu	1.14	1.80	1.10	1.10
	P	N.S.	N.S.	N.S.	N.S.
Random	RR	1.00	1.29	0.99	1.02
	RRL	0.88	0.92	0.89	0.94
	RRu	1.14	1.80	1.11	1.10
	P	N.S.	N.S.	N.S.	N.S.
Between	Chi				2.31
Between	df				2
Between	P				N.S.

		Highest age in RR				
		0-9	10-14	15+	unknown	Total
	N	6	4	13	1	24
	NS	6	4	13	1	24
	Wt	257.08	303.73	362.65	16.64	940.10
Het	Chi	7.95	3.85	12.23	0.00	28.58
Het	df	5	3	12	0	23
Het	P	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.04	1.11	0.99	0.71	1.04
	RRL	0.92	0.99	0.89	0.44	0.97
	RRu	1.18	1.24	1.10	1.15	1.10
Random	P	N.S.	(+)	N.S.	N.S.	N.S.
	RR	1.02	1.09	0.99	0.71	1.02
	RRL	0.83	0.94	0.89	0.44	0.94
	RRu	1.26	1.27	1.10	1.15	1.10
	P	N.S.	N.S.	N.S.	N.S.	N.S.
Between	Chi					4.56
Between	df					3
Between	P					N.S.

Appendix Table C55 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Current Asthma
Adjusted

Population setting
general school medical allergy other Total

RR data

N	4	12	8		24
NS	4	12	8		24
Wt	130.36	672.79	136.95		940.10
Het Chi	0.30	9.14	6.93		28.58
Het df	3	11	7		23
Het P	N.S.	N.S.	N.S.		N.S.
Fixed RR	0.85	1.11	0.88		1.04
RRl	0.72	1.03	0.74		0.97
RRu	1.01	1.20	1.04		1.10
P	(-)	++	N.S.		N.S.
Random RR	0.85	1.11	0.88		1.02
RRl	0.72	1.03	0.74		0.94
RRu	1.01	1.20	1.04		1.10
P	(-)	++	N.S.		N.S.
Between Chi					12.21
Between df					2
Between P					**

Respondent for ETS exposure
child parent med rec mix/oth Total

N	4	12		8	24
NS	4	12		8	24
Wt	106.33	636.65		197.11	940.10
Het Chi	2.60	16.28		7.44	28.58
Het df	3	11		7	23
Het P	N.S.	N.S.		N.S.	N.S.
Fixed RR	0.98	1.07		0.96	1.04
RRl	0.81	0.99		0.83	0.97
RRu	1.18	1.16		1.10	1.10
P	N.S.	(+)		N.S.	N.S.
Random RR	0.98	1.04		0.97	1.02
RRl	0.81	0.93		0.83	0.94
RRu	1.18	1.16		1.12	1.10
P	N.S.	N.S.		N.S.	N.S.
Between Chi					2.27
Between df					2
Between P					N.S.

Child smokers
exc/none included ignored Total

N	5	4	15	24
NS	5	4	15	24
Wt	210.15	257.72	472.22	940.10
Het Chi	3.76	2.62	17.01	28.58
Het df	4	3	14	23
Het P	N.S.	N.S.	N.S.	N.S.
Fixed RR	1.07	1.15	0.97	1.04
RRl	0.94	1.02	0.88	0.97
RRu	1.23	1.30	1.06	1.10
P	N.S.	+	N.S.	N.S.
Random RR	1.07	1.15	0.96	1.02
RRl	0.94	1.02	0.86	0.94
RRu	1.23	1.30	1.07	1.10
P	N.S.	+	N.S.	N.S.
Between Chi				5.19
Between df				2
Between P				(*)

Appendix Table C55 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Current Asthma
Adjusted

Physician diagnosis (current)
yes no/mix Total

RR data

	N	11	13	24	
	NS	11	13	24	
	Wt	189.40	750.69	940.10	
Het	Chi	7.40	15.95	28.58	
Het	df	10	12	23	
Het	P	N.S.	N.S.	N.S.	
Fixed	RR	0.89	1.08	1.04	
	RRL	0.77	1.00	0.97	
	RRu	1.03	1.16	1.10	
	P	N.S.	+	N.S.	
Random	RR	0.89	1.06	1.02	
	RRL	0.77	0.97	0.94	
	RRu	1.03	1.17	1.10	
	P	N.S.	N.S.	N.S.	
Between	Chi			5.23	
Between	df			1	
Between	P			*	
	Respondent for diagnosis (current)				
	medrec	parent	child	mixed	Total
	N	8	10	6	24
	NS	8	10	6	24
	Wt	148.19	635.66	156.24	940.10
Het	Chi	6.17	11.74	5.67	28.58
Het	df	7	9	5	23
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	0.88	1.08	1.04	1.04
	RRL	0.75	1.00	0.89	0.97
	RRu	1.03	1.16	1.21	1.10
	P	N.S.	(+)	N.S.	N.S.
Random	RR	0.88	1.06	1.03	1.02
	RRL	0.75	0.96	0.86	0.94
	RRu	1.03	1.18	1.23	1.10
	P	N.S.	N.S.	N.S.	N.S.
Between	Chi				5.01
Between	df				2
Between	P				(*)
	Questionnaire for symptoms				
	ISAAC	ATS	other	Total	
	N	5	1	18	24
	NS	5	1	18	24
	Wt	478.44	12.00	449.66	940.10
Het	Chi	2.64	0.00	20.45	28.58
Het	df	4	0	17	23
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.10	1.41	0.96	1.04
	RRL	1.01	0.80	0.88	0.97
	RRu	1.21	2.48	1.06	1.10
	P	+	N.S.	N.S.	N.S.
Random	RR	1.10	1.41	0.96	1.02
	RRL	1.01	0.80	0.86	0.94
	RRu	1.21	2.48	1.07	1.10
	P	+	N.S.	N.S.	N.S.
Between	Chi				5.49
Between	df				2
Between	P				(*)

Appendix Table C55 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime

Current Asthma					
Adjusted					
Number of cases (current asthma)					
1-50	51-100	101-200	201+	unknown	Total

RR data

N	3	7	3	10	1	24
NS	3	7	3	10	1	24
Wt	23.09	98.87	51.06	765.54	1.54	940.10
Het Chi	2.23	5.12	5.01	13.47	0.00	28.58
Het df	2	6	2	9	0	23
Het P	N.S.	N.S.	(*)	N.S.	N.S.	N.S.
Fixed RR	1.17	0.90	1.06	1.05	1.60	1.04
RRl	0.78	0.74	0.81	0.98	0.33	0.97
RRu	1.76	1.10	1.40	1.13	7.77	1.10
P	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Random RR	1.16	0.90	1.00	1.03	1.60	1.02
RRl	0.75	0.74	0.62	0.94	0.33	0.94
RRu	1.80	1.10	1.60	1.13	7.77	1.10
P	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Between Chi						2.75
Between df						4
Between P						N.S.

Study adjusts for or is matched on sex

Yes	No	Total
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N	18	6	24
NS	18	6	24
Wt	793.90	146.20	940.10
Het Chi	20.72	5.51	28.58
Het df	17	5	23
Het P	N.S.	N.S.	N.S.
Fixed RR	1.01	1.16	1.04
RRl	0.95	0.99	0.97
RRu	1.09	1.37	1.10
P	N.S.	(+)	N.S.
Random RR	0.99	1.16	1.02
RRl	0.91	0.96	0.94
RRu	1.08	1.41	1.10
P	N.S.	N.S.	N.S.
Between Chi			2.36
Between df			1
Between P			N.S.

Study adjusts for or is matched on age

N	16	8	24
NS	16	8	24
Wt	687.76	252.34	940.10
Het Chi	20.27	5.93	28.58
Het df	15	7	23
Het P	N.S.	N.S.	N.S.
Fixed RR	1.01	1.13	1.04
RRl	0.93	1.00	0.97
RRu	1.08	1.27	1.10
P	N.S.	(+)	N.S.
Random RR	0.97	1.13	1.02
RRl	0.87	1.00	0.94
RRu	1.07	1.27	1.10
P	N.S.	(+)	N.S.
Between Chi			2.38
Between df			1
Between P			N.S.

Appendix Table C55 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Current Asthma
Adjusted

Study adjusts for or is matched on race
Yes No Total

RR data

	N	4	20	24
	NS	4	20	24
	Wt	212.70	727.40	940.10
Het	Chi	6.52	21.59	28.58
Het	df	3	19	23
Het	P	(*)	N.S.	N.S.
Fixed	RR	0.99	1.05	1.04
	RRl	0.87	0.98	0.97
	RRu	1.14	1.13	1.10
	P	N.S.	N.S.	N.S.
Random	RR	1.04	1.03	1.02
	RRl	0.83	0.94	0.94
	RRu	1.28	1.12	1.10
	P	N.S.	N.S.	N.S.
Between	Chi			0.48
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on location

	N	11	13	24
	NS	11	13	24
	Wt	698.78	241.32	940.10
Het	Chi	14.41	13.15	28.58
Het	df	10	12	23
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.02	1.10	1.04
	RRl	0.94	0.97	0.97
	RRu	1.09	1.24	1.10
	P	N.S.	N.S.	N.S.
Random	RR	0.98	1.08	1.02
	RRl	0.89	0.94	0.94
	RRu	1.09	1.25	1.10
	P	N.S.	N.S.	N.S.
Between	Chi			1.02
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on SES

	N	9	15	24
	NS	9	15	24
	Wt	656.24	283.85	940.10
Het	Chi	14.06	14.39	28.58
Het	df	8	14	23
Het	P	(*)	N.S.	N.S.
Fixed	RR	1.04	1.02	1.04
	RRl	0.97	0.91	0.97
	RRu	1.13	1.14	1.10
	P	N.S.	N.S.	N.S.
Random	RR	1.02	1.01	1.02
	RRl	0.91	0.90	0.94
	RRu	1.14	1.14	1.10
	P	N.S.	N.S.	N.S.
Between	Chi			0.13
Between	df			1
Between	P			N.S.

Appendix Table C55 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Current Asthma

Adjusted
Study adjusts for family medical history

Yes No Total

RR data

	N	8	16	24
	NS	8	16	24
	Wt	555.65	384.45	940.10
Het	Chi	9.16	18.71	28.58
Het	df	7	15	23
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.06	1.00	1.04
	RRl	0.98	0.91	0.97
	RRu	1.15	1.11	1.10
	P	N.S.	N.S.	N.S.
Random	RR	1.03	1.00	1.02
	RRl	0.93	0.89	0.94
	RRu	1.15	1.13	1.10
	P	N.S.	N.S.	N.S.
Between	Chi			0.72
Between	df			1
Between	P			N.S.

Study adjusts for family composition

	N	4	20	24
	NS	4	20	24
	Wt	204.42	735.68	940.10
Het	Chi	2.43	22.74	28.58
Het	df	3	19	23
Het	P	N.S.	N.S.	N.S.
Fixed	RR	0.92	1.07	1.04
	RRl	0.81	1.00	0.97
	RRu	1.06	1.15	1.10
	P	N.S.	(+)	N.S.
Random	RR	0.92	1.05	1.02
	RRl	0.81	0.96	0.94
	RRu	1.06	1.15	1.10
	P	N.S.	N.S.	N.S.
Between	Chi			3.41
Between	df			1
Between	P			(*)

Study adjusts for cooking, heating, air conditioning

	N	5	19	24
	NS	5	19	24
	Wt	466.31	473.79	940.10
Het	Chi	9.55	18.69	28.58
Het	df	4	18	23
Het	P	*	N.S.	N.S.
Fixed	RR	1.06	1.02	1.04
	RRl	0.96	0.93	0.97
	RRu	1.16	1.11	1.10
	P	N.S.	N.S.	N.S.
Random	RR	0.99	1.02	1.02
	RRl	0.84	0.93	0.94
	RRu	1.16	1.12	1.10
	P	N.S.	N.S.	N.S.
Between	Chi			0.34
Between	df			1
Between	P			N.S.

Appendix Table C55 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime

Current Asthma

Adjusted

Study adjusts for housing quality, crowding, damp, mould

Yes No Total

RR data

	N	6	18	24
	NS	6	18	24
	Wt	545.10	395.00	940.10
Het	Chi	7.58	20.22	28.58
Het	df	5	17	23
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.06	1.00	1.04
	RRl	0.98	0.91	0.97
	RRu	1.16	1.11	1.10
	P	N.S.	N.S.	N.S.
Random	RR	1.03	1.00	1.02
	RRl	0.92	0.89	0.94
	RRu	1.16	1.12	1.10
	P	N.S.	N.S.	N.S.
Between	Chi			0.78
Between	df			1
Between	P			N.S.

Study adjusts for pets, animal contact, farming

	N	4	20	24
	NS	4	20	24
	Wt	157.05	783.05	940.10
Het	Chi	3.34	22.48	28.58
Het	df	3	19	23
Het	P	N.S.	N.S.	N.S.
Fixed	RR	0.92	1.06	1.04
	RRl	0.79	0.99	0.97
	RRu	1.07	1.14	1.10
	P	N.S.	(+)	N.S.
Random	RR	0.91	1.05	1.02
	RRl	0.77	0.96	0.94
	RRu	1.08	1.14	1.10
	P	N.S.	N.S.	N.S.
Between	Chi			2.76
Between	df			1
Between	P			(*)

Study adjusts for child's medical history

	N	5	19	24
	NS	5	19	24
	Wt	108.57	831.53	940.10
Het	Chi	1.83	21.73	28.58
Het	df	4	18	23
Het	P	N.S.	N.S.	N.S.
Fixed	RR	0.85	1.06	1.04
	RRl	0.70	0.99	0.97
	RRu	1.02	1.14	1.10
	P	(-)	(+)	N.S.
Random	RR	0.85	1.05	1.02
	RRl	0.70	0.97	0.94
	RRu	1.02	1.14	1.10
	P	(-)	N.S.	N.S.
Between	Chi			5.03
Between	df			1
Between	P			*

Appendix Table C55 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Current Asthma
Adjusted

Study adjusts for in utero exposure
Yes No Total

RR data

	N	4	20	24
	NS	4	20	24
	Wt	390.24	549.85	940.10
Het	Chi	0.39	23.16	28.58
Het	df	3	19	23
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.13	0.97	1.04
	RRl	1.02	0.90	0.97
	RRu	1.25	1.06	1.10
	P	+	N.S.	N.S.
Random	RR	1.13	0.97	1.02
	RRl	1.02	0.88	0.94
	RRu	1.25	1.07	1.10
	P	+	N.S.	N.S.
Between	Chi			5.03
Between	df			1
Between	P			*

Study adjusts for in life exposure

	N	11	13	24
	NS	11	13	24
	Wt	644.90	295.20	940.10
Het	Chi	16.82	11.76	28.58
Het	df	10	12	23
Het	P	(*)	N.S.	N.S.
Fixed	RR	1.04	1.04	1.04
	RRl	0.96	0.93	0.97
	RRu	1.12	1.16	1.10
	P	N.S.	N.S.	N.S.
Random	RR	1.00	1.04	1.02
	RRl	0.89	0.93	0.94
	RRu	1.13	1.16	1.10
	P	N.S.	N.S.	N.S.
Between	Chi			0.00
Between	df			1
Between	P			N.S.

Exposed group : Who is smoker
Father FathOnly Total

	N	22	2	24
	NS	22	2	24
	Wt	918.51	21.58	940.10
Het	Chi	27.97	0.30	28.58
Het	df	21	1	23
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.03	1.17	1.04
	RRl	0.97	0.77	0.97
	RRu	1.10	1.78	1.10
	P	N.S.	N.S.	N.S.
Random	RR	1.01	1.17	1.02
	RRl	0.93	0.77	0.94
	RRu	1.10	1.78	1.10
	P	N.S.	N.S.	N.S.
Between	Chi			0.31
Between	df			1
Between	P			N.S.

Appendix Table C55 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime

Current Asthma
AdjustedExposed group : when Exposed
lif/ev age<7y current unspec other Total

RR data

	N	7	6	10	1	24
	NS	7	6	10	1	24
	Wt	462.61	249.98	199.59	27.91	940.10
Het	Chi	7.21	8.69	7.82	0.00	28.58
Het	df	6	5	9	0	23
Het	P	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.08	0.96	0.99	1.40	1.04
	RRl	0.98	0.85	0.87	0.97	0.97
	RRu	1.18	1.09	1.14	2.03	1.10
	P	N.S.	N.S.	N.S.	(+)	N.S.
Random	RR	1.06	0.94	0.99	1.40	1.02
	RRl	0.94	0.78	0.87	0.97	0.94
	RRu	1.19	1.13	1.14	2.03	1.10
	P	N.S.	N.S.	N.S.	(+)	N.S.
Between	Chi					4.87
Between	df					3
Between	P					N.S.

Unexposed group : who is smoker
NoHhMem NoParent NotSpPar Total

	N	5	19	24
	NS	5	19	24
	Wt	62.68	877.42	940.10
Het	Chi	2.77	24.55	28.58
Het	df	4	18	23
Het	P	N.S.	N.S.	N.S.
Fixed	RR	0.90	1.05	1.04
	RRl	0.71	0.98	0.97
	RRu	1.16	1.12	1.10
	P	N.S.	N.S.	N.S.
Random	RR	0.90	1.03	1.02
	RRl	0.71	0.94	0.94
	RRu	1.16	1.12	1.10
	P	N.S.	N.S.	N.S.
Between	Chi			1.26
Between	df			1
Between	P			N.S.

Unexposed group : time
non never non+othr Total

	N	19	5	24
	NS	19	5	24
	Wt	535.19	404.91	940.10
Het	Chi	22.74	2.13	28.58
Het	df	18	4	23
Het	P	N.S.	N.S.	N.S.
Fixed	RR	0.98	1.11	1.04
	RRl	0.90	1.01	0.97
	RRu	1.07	1.23	1.10
	P	N.S.	+	N.S.
Random	RR	0.98	1.11	1.02
	RRl	0.88	1.01	0.94
	RRu	1.08	1.23	1.10
	P	N.S.	+	N.S.
Between	Chi			3.72
Between	df			1
Between	P			(*)

Appendix Table C55 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime

Current Asthma
Adjusted

Number of adjustment variables

0 1 2 3-5 6-9 10+ Total

RR data

N	10	3	4	4	3	24
NS	10	3	4	4	3	24
Wt	274.27	30.44	55.58	132.72	447.08	940.10
Het Chi	12.81	3.94	1.10	1.26	0.47	28.58
Het df	9	2	3	3	2	23
Het P	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed RR	1.04	1.01	0.83	0.88	1.12	1.04
RRl	0.92	0.71	0.64	0.74	1.02	0.97
RRu	1.17	1.44	1.07	1.05	1.23	1.10
P	N.S.	N.S.	N.S.	N.S.	+	N.S.
Random RR	1.02	1.02	0.83	0.88	1.12	1.02
RRl	0.87	0.61	0.64	0.74	1.02	0.94
RRu	1.19	1.71	1.07	1.05	1.23	1.10
P	N.S.	N.S.	N.S.	N.S.	+	N.S.
Between Chi						8.99
Between df						4
Between P						(*)

RR adjusted for sex

Yes No Total

N	11	13	24
NS	11	13	24
Wt	635.39	304.71	940.10
Het Chi	11.81	16.77	28.58
Het df	10	12	23
Het P	N.S.	N.S.	N.S.
Fixed RR	1.04	1.03	1.04
RRl	0.96	0.92	0.97
RRu	1.12	1.16	1.10
P	N.S.	N.S.	N.S.
Random RR	1.02	1.02	1.02
RRl	0.93	0.88	0.94
RRu	1.12	1.18	1.10
P	N.S.	N.S.	N.S.
Between Chi			0.00
Between df			1
Between P			N.S.

RR adjusted for age

N	9	15	24
NS	9	15	24
Wt	548.31	391.78	940.10
Het Chi	11.69	16.89	28.58
Het df	8	14	23
Het P	N.S.	N.S.	N.S.
Fixed RR	1.04	1.03	1.04
RRl	0.95	0.94	0.97
RRu	1.13	1.14	1.10
P	N.S.	N.S.	N.S.
Random RR	1.00	1.02	1.02
RRl	0.89	0.91	0.94
RRu	1.13	1.15	1.10
P	N.S.	N.S.	N.S.
Between Chi			0.00
Between df			1
Between P			N.S.

Appendix Table C55 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
Current Asthma
Adjusted

RR adjusted for other ETS
Yes No Total

RR data

	N	8	16	24
	NS	8	16	24
	Wt	557.69	382.40	940.10
Het	Chi	10.69	16.54	28.58
Het	df	7	15	23
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.07	0.99	1.04
	RRl	0.98	0.90	0.97
	RRu	1.16	1.09	1.10
	P	N.S.	N.S.	N.S.
Random	RR	1.05	0.98	1.02
	RRl	0.93	0.88	0.94
	RRu	1.19	1.09	1.10
	P	N.S.	N.S.	N.S.
Between	Chi			1.35
Between	df			1
Between	P			N.S.

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

	N	11	13	24
	NS	11	13	24
	Wt	648.71	291.39	940.10
Het	Chi	12.09	16.45	28.58
Het	df	10	12	23
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.03	1.05	1.04
	RRl	0.96	0.93	0.97
	RRu	1.11	1.17	1.10
	P	N.S.	N.S.	N.S.
Random	RR	1.01	1.04	1.02
	RRl	0.92	0.89	0.94
	RRu	1.11	1.20	1.10
	P	N.S.	N.S.	N.S.
Between	Chi			0.04
Between	df			1
Between	P			N.S.

	Original	Derivation of RR/CI		Other	Total
		Numbers	SumNumbs		
	N	8	7	4	24
	NS	8	7	4	24
	Wt	244.97	178.53	81.40	435.20
Het	Chi	8.78	6.74	5.59	3.95
Het	df	7	6	3	4
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	0.97	1.06	0.92	1.09
	RRl	0.85	0.91	0.74	0.99
	RRu	1.10	1.23	1.14	1.20
	P	N.S.	N.S.	N.S.	(+)
Random	RR	0.98	1.03	1.03	1.09
	RRl	0.84	0.87	0.71	0.99
	RRu	1.14	1.22	1.47	1.20
	P	N.S.	N.S.	N.S.	(+)
Between	Chi				3.53
Between	df				3
Between	P				N.S.

Appendix Table C55 - 4

Children - Meta-analysis of Paternal Exposure during Lifetime
 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
AGUDOT	3		b	14	15	all	Eu:wst	1997	2000	CS	4	Father	NotFathr	ever	never
CHEN2	17	x	b	6	17	all	NAmer	1993	1996	CS	0	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	5	x	b	3	15	all	Eu:Sca	1996	2001	CS	0	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
MAVALE	11	x	b	1	8	all	Africa	1999	2004	CC	0	Father	NotFathr	unspec	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
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	FathOnly	NoHhMemb	ever	non
SHOHAT	1	x	b	13	14	all	As:ME	1997	2002	CS	0	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	6	x	b	13	18	all	Eu:UK	1993	1995	CC	0	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	9	x	b	3	15	all	Eu:Sca	1988	1991	CC	0	Father	NotFathr	current	non

Appendix Table C55 - 5

Children - Meta-analysis of Paternal Exposure during Lifetime
Current Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
AGUDOT	3	b	4	-	-	-	-	1.60 (	0.33-	7.78)
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)
MAVALE	11	b	0	32	20	68	79	1.86 (	0.97-	3.55)
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)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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				2816	33414	2762	20394			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	36	b	0	0.11	174.94	0.37	0.1554
AGABI2	36	b	0	0.17	219.56	2.41	0.0139
AGUDOT	3	b	4	0.47	1.54	0.26	0.5599
CHEN2	17	b	0	-0.12	16.63	0.57	0.6121
DAIGLE	2	b	0	-0.34	16.64	2.74	0.1596
GILLIL	37	b	8	0.10	17.23	0.02	0.6924
HJERN2	5	b	0	0.16	18.42	0.17	0.4983
HU2	4	b	0	0.34	27.91	2.11	0.0755
INFANT	6	b	0	-0.21	53.34	3.80	0.1328
JONES	3	b	0	-0.17	12.07	0.62	0.5654
LAM1	19	b	4	-0.20	12.41	0.84	0.4845
LAM2	12	b	4	-0.37	11.81	2.21	0.2022
MAVALE	11	b	0	0.62	9.21	2.87	0.0600
MOUSSA	2	b	0	0.03	15.60	0.01	0.8993
MUMCUO	1	b	0	-0.06	18.09	0.25	0.8137
SHIVA	1	b	0	0.39	4.36	0.47	0.4160
SHOHAT	1	b	0	0.11	155.25	0.30	0.1892
SOTOQU	2	b	0	0.17	97.39	1.15	0.0937
STERN1	2	b	0	0.34	12.00	0.95	0.2362
STODDA	11	b	9	-0.19	86.99	5.33	0.0822
STRACH	6	b	0	-0.04	35.44	0.36	0.8137
TARIQ	2	b	8	-0.09	6.51	0.16	0.8099
TOMINA	1	b	0	-0.17	16.87	0.89	0.4878
WILLE1	9	b	0	-0.14	7.29	0.29	0.7120

Appendix Table C55 - 5

Children - Meta-analysis of Paternal Exposure during Lifetime
 Current Asthma
 Unadjusted

RR data

	N	24
	NS	24
	Wt	1047.49
Het	Chi	29.16
Het	df	23
Het	P	N.S.
Fixed	RR	1.06
	RRl	1.00
	RRu	1.13
	P	+
Random	RR	1.04
	RRl	0.96
	RRu	1.13
	P	N.S.
Asymm	P	N.S.

Appendix Table C55 - 6

Children - Meta-analysis of Paternal Exposure during Lifetime	
	Current Asthma
	Unadjusted
1	0.10
2	0.10
3	0.10
4	0.10
5	0.10
6	0.10
7	0.10
8	0.10
9	0.10
10	0.10
11	0.10
12	0.10
13	0.10
14	0.10
15	0.10
16	0.10
17	0.10
18	0.10
19	0.10
20	0.10
21	0.10
22	0.10
23	0.10
24	0.10
25	0.10
26	0.10
27	0.10
28	0.10
29	0.10
30	0.10
31	0.10
32	0.10
33	0.10
34	0.10
35	0.10
36	0.10
37	0.10
38	0.10
39	0.10
40	0.10
41	0.10
42	0.10
43	0.10
44	0.10
45	0.10
46	0.10
47	0.10
48	0.10
49	0.10
50	0.10
51	0.10
52	0.10
53	0.10
54	0.10
55	0.10
56	0.10
57	0.10
58	0.10
59	0.10
60	0.10
61	0.10
62	0.10
63	0.10
64	0.10
65	0.10
66	0.10
67	0.10
68	0.10
69	0.10
70	0.10
71	0.10
72	0.10
73	0.10
74	0.10
75	0.10
76	0.10
77	0.10
78	0.10
79	0.10
80	0.10
81	0.10
82	0.10
83	0.10
84	0.10
85	0.10
86	0.10
87	0.10
88	0.10
89	0.10
90	0.10
91	0.10
92	0.10
93	0.10
94	0.10
95	0.10
96	0.10
97	0.10
98	0.10
99	0.10
100	0.10

RR data

[illegible]

Appendix Table C55 - 6

Children - Meta-analysis of Paternal Exposure during Lifetime

Current Asthma
Unadjusted

	Start year of study				Total
	<1970	1970-79	1980-89	1990+	
N		1	9	14	24
NS		1	9	14	24
Wt		16.87	326.17	704.46	1047.49
Het Chi		0.00	14.79	10.27	29.16
Het df		0	8	13	23
Het P		N.S.	(*)	N.S.	N.S.
Fixed RR		0.84	0.98	1.11	1.06
RRl		0.52	0.88	1.03	1.00
RRu		1.36	1.10	1.19	1.13
P		N.S.	N.S.	++	+
Random RR		0.84	0.98	1.11	1.04
RRl		0.52	0.83	1.03	0.96
RRu		1.36	1.16	1.19	1.13
P		N.S.	N.S.	++	N.S.
Between Chi					4.10
Between df					2
Between P					N.S.

	Study type		CS	Total
	CC	Pr		
N	10	2	12	24
NS	10	2	12	24
Wt	562.17	34.42	450.90	1047.49
Het Chi	13.69	0.98	12.86	29.16
Het df	9	1	11	23
Het P	N.S.	N.S.	N.S.	N.S.
Fixed RR	1.07	1.29	1.04	1.06
RRl	0.99	0.92	0.94	1.00
RRu	1.16	1.80	1.14	1.13
P	(+)	N.S.	N.S.	+
Random RR	1.03	1.29	1.03	1.04
RRl	0.91	0.92	0.92	0.96
RRu	1.16	1.80	1.15	1.13
P	N.S.	N.S.	N.S.	N.S.
Between Chi				1.64
Between df				2
Between P				N.S.

RR data

	N		1	9	14	24
	NS		1	9	14	24
	Wt		16.87	326.17	704.46	1047.49
Het	Chi		0.00	14.79	10.27	29.16
Het	df		0	8	13	23
Het	P		N.S.	(*)	N.S.	N.S.
Fixed	RR		0.84	0.98	1.11	1.06
	RRl		0.52	0.88	1.03	1.00
	RRu		1.36	1.10	1.19	1.13
	P		N.S.	N.S.	++	+
Random	RR		0.84	0.98	1.11	1.04
	RRl		0.52	0.83	1.03	0.96
	RRu		1.36	1.16	1.19	1.13
	P		N.S.	N.S.	++	N.S.
Between	Chi					4.10
Between	df					2
Between	P					N.S.

		Study type			
		CC	Pr	CS	Total
	N	10	2	12	24
	NS	10	2	12	24
	Wt	562.17	34.42	450.90	1047.49
Het	Chi	13.69	0.98	12.86	29.16
Het	df	9	1	11	23
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.07	1.29	1.04	1.06
	RRl	0.99	0.92	0.94	1.00
	RRu	1.16	1.80	1.14	1.13
	P	(+)	N.S.	N.S.	+
Random	RR	1.03	1.29	1.03	1.04
	RRl	0.91	0.92	0.92	0.96
	RRu	1.16	1.80	1.15	1.13
	P	N.S.	N.S.	N.S.	N.S.
Between	Chi				1.64
Between	df				2
Between	P				N.S.

Appendix Table C55 - 7

Children - Meta-analysis of Paternal Exposure during Lifetime
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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR TIMONE	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAACK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LEVES3 POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LIS PONSON SHAMSS VONMAF
2	ADDOYO DUHME3 HUGHES MELSOM SPENGL	ANNES2 DUHME4 JAAKKO MILLER STANHO	BALL EHRLI1 JANG NHANE3 STERN2	BERGMA FAGBUL KABESC NICOLA STURM	CALL FIELDE KALY01 NITTA WANG	CELEDO FORSB1 KALY02 OHARA WEITZ1	CHHABR FORSB2 KARUNA OLIVET WEITZ2	CHINN FORSB3 KNIGHT PALMIE WIJGA	CLARK FUJI LAU PETERS WILLE2	CSONKA GOLD LEE1 PIC WOLF01	DEKKER GUPTA LEE2 RIBEIR WOLF02	DEKOK HABY LEEN RONMA1 WOLF03	DIJKST HALONE LILLJE SARRAZ YANG	DOTTER HJERN1 LINDFO SCHMIT ZHENG	DUHME1 HOST LOPEZC SELCUK	DUHME2 HU1 MELIA SOMERV
5	ARSHAD	AZIZI	CUNNI1	MCCON2	MOHAME											

Appendix Table C55 - 8

Children - Meta-analysis of Paternal Exposure during Lifetime
 Current Asthma
 Potentially overlapping studies

REF REFPG 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 C56 -

Children - Meta-analysis of Paternal Exposure during Lifetime
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 C55 - 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 C56 - 1

Children - Meta-analysis of Paternal Exposure during Lifetime
 Current Asthma
 Adjusted

REF	NRR	CompC55	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
AGUDOT	3		b	14	15	all	Eu:wst	1997	2000	CS	4	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
MAVALE	6	x	b	1	8	all	Africa	1999	2004	CC	0	Father	NoParent	unspec	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
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	FathOnly	NoHhMemb	ever	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 C56 - 2

Children - Meta-analysis of Paternal Exposure during Lifetime
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
AGABI1	46	b	11	662	-	258	-	1.12 (	0.96-	1.30)
AGABI2	46	b	12	941	-	317	-	1.15 (	1.00-	1.32)
AGUDOT	3	b	4	-	-	-	-	1.60 (	0.33-	7.78)
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)
MAVALE	6	b	0	32	20	63	78	1.98 (	1.03-	3.79)
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)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
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				2816	7615	2740	5124			

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	46	b	11	0.11	167.16	0.86	0.1429
AGABI2	46	b	12	0.14	199.35	1.92	0.0485
AGUDOT	3	b	4	0.47	1.54	0.28	0.5599
CHEN2	43	b	1	-0.16	14.86	0.62	0.5310
DAIGLE	2	b	0	-0.34	16.64	2.48	0.1596
GILLIL	37	b	8	0.10	17.23	0.05	0.6924
HJERN2	13	b	9	-0.06	22.00	0.24	0.7716
HU2	4	b	0	0.34	27.91	2.43	0.0755
INFANT	6	b	0	-0.21	53.34	3.26	0.1328
JONES	3	b	0	-0.17	12.07	0.52	0.5654
LAM1	19	b	4	-0.20	12.41	0.71	0.4845
LAM2	12	b	4	-0.37	11.81	2.01	0.2022
MAVALE	6	b	0	0.68	9.10	3.75	0.0392
MOUSSA	2	b	0	0.03	15.60	0.00	0.8993
MUMCUO	1	b	0	-0.06	18.09	0.17	0.8137
SHIVA	1	b	0	0.39	4.36	0.53	0.4160
SHOHAT	3	b	12	0.05	80.57	0.00	0.6614
SOTOQU	2	b	0	0.17	97.39	1.60	0.0937
STERN1	2	b	0	0.34	12.00	1.08	0.2362
STODDA	11	b	9	-0.19	86.99	4.52	0.0822
STRACH	12	b	4	-0.15	29.82	1.10	0.4102
TARIQ	2	b	8	-0.09	6.51	0.12	0.8099
TOMINA	1	b	0	-0.17	16.87	0.75	0.4878
WILLE1	5	b	0	0.39	5.10	0.60	0.3838

Appendix Table C56 - 2

Children - Meta-analysis of Paternal Exposure during Lifetime
 Current Asthma
 Adjusted

RR data

	N	24
	NS	24
	Wt	938.71
Het	Chi	29.62
Het	df	23
Het	P	N.S.
Fixed	RR	1.04
	RRl	0.98
	RRu	1.11
	P	N.S.
Random	RR	1.02
	RRl	0.94
	RRu	1.11
	P	N.S.
Asymm	P	N.S.

Appendix Table C56 - 3

Children - Meta-analysis of Paternal Exposure during Lifetime
 Current Asthma
 Adjusted

RR data

	N	24			
	NS	24			
	Wt	938.71			
Het	Chi	29.62			
Het	df	23			
Het	P	N.S.			
Fixed	RR	1.04			
	RRl	0.98			
	RRu	1.11			
	P	N.S.			
Random	RR	1.02			
	RRl	0.94			
	RRu	1.11			
	P	N.S.			
Asymm	P	N.S.			
			<u>Sex</u>		
	both		male	female	Total
	N	24			24
	NS	24			24
	Wt	938.71			938.71
Het	Chi	29.62			29.62
Het	df	23			23
Het	P	N.S.			N.S.
Fixed	RR	1.04			1.04
	RRl	0.98			0.98
	RRu	1.11			1.11
	P	N.S.			N.S.
Random	RR	1.02			1.02
	RRl	0.94			0.94
	RRu	1.11			1.11
	P	N.S.			N.S.
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C56 - 7

Children - Meta-analysis of Paternal Exposure during Lifetime
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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR TIMONE	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAAKK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LEVES3 POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LIS PONSON SHAMSS VONMAF
2	ADDOYO DUHME3 HUGHES MELSOM SPENGL	ANNES2 DUHME4 JAAKKO MILLER STANHO	BALL EHLI1 JANG NHANE3 STERN2	BERGMA FAGBUL KABESC NICOLA STURM	CALL FIELDE KALY01 NITTA WANG	CELEDO FORSB1 KALY02 OHARA WEITZ1	CHHABR FORSB2 KARUNA OLIVET WEITZ2	CHINN FORSB3 KNIGHT PALMIE WIJGA	CLARK FUJI LAU PETERS WILLE2	CSONKA GOLD LEE1 PIC WOLF01	DEKKER GUPTA LEE2 RIBEIR WOLF02	DEKOK HABY LEEN RONMA1 WOLF03	DIJKST HALONE LILLJE SARRAZ YANG	DOTTER HJERN1 LINDFO SCHMIT ZHENG	DUHME1 HOST LOPEZC SELCUK	DUHME2 HU1 MELIA SOMERV
5	ARSHAD	AZIZI	CUNNI1	MCCON2	MOHAME											

Appendix Table C56 - 8

Children - Meta-analysis of Paternal Exposure during Lifetime
 Current Asthma
 Potentially overlapping studies

REF REFPG 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 C57 -

Children - 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 C53 - 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 C57 - 1

Children - Meta-analysis of Lifetime Paternal Only Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	CompC53	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 C57 - 2

Children - Meta-analysis of Lifetime Paternal Only Exposure
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed Case	Control	Case	Control			
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 C57 - 3

Children - 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 C57 - 7

Children - 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	ADDYO0	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
2	AGUDOT	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNES2	ANNESI	ARIF	BARRET	BECKET	BENCIV	BENER	BRABIN	BURR
	BUTZ	CHEN1	CHEN2	CUNNI2	DEBENE	DELL	DODGE	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAR00Q	FIELDE	FLYNN1	FLYNN2
	FREEM1	FREEM2	GILLIL	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	HU1	HU2
	JAAKK2	JENKIN	KALY01	KAPLAN	KASPER	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KUEHR	KUHR	LAM1	LAM2	LEE3	LEEDER
	LEROUX	LEVES1	LEVES2	LEVES3	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MONTEF	MONTEI	MOYES1	MOYES2	MURRAY
	NHANE3	NICOLA	NILSSO	NYSTAD	OCONE	ODDY	PIROGO	POKHAR	PONSON	QIAN	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3
	RONMA2	RONMA3	ROSASV	RUDNIK	SANZOR	SCHENK	SELCUK	SENNHA	SHAMS2	SHAMSS	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STANHO
	STAZI	STERN2	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VERHOE	VOLKME	VONMAF	WARKE	WEITZ1	WICKMA	WIJGA	WITHER
	WOLF01	WOLF02	WOLF03	XU	YUAN	ZEIGER	ZEJDA	ZHANG								
5	BURCHF															

Appendix Table C57 - 8

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEI	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 C58 -

Children - 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 C54 - 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 C58 - 1

Children - Meta-analysis of Lifetime Paternal Only Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	CompC54	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 C58 - 2

Children - Meta-analysis of Lifetime Paternal Only Exposure
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed	Control	Case	Control			
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
	RRl	0.99
	RRu	1.34
	P	(+)
Random	RR	1.15
	RRl	0.99
	RRu	1.34
	P	(+)
Asymm	P	N.S.

Appendix Table C58 - 3

Children - 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 C58 - 7

Children - 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	ADDYO0	AGABI1	AGABI2	ARSHAD	AZIZI	BALL	BERGMA	CALL	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
2	AGUDOT	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNES2	ANNESI	ARIF	BARRET	BECKET	BENCIV	BENER	BRABIN	BURR
	BUTZ	CHEN1	CHEN2	CUNNI2	DEBENE	DELL	DODGE	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAR00Q	FIELDE	FLYNN1	FLYNN2
	FREEM1	FREEM2	GILLIL	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN	HAJNAL	HU1	HU2
	JAAKK2	JENKIN	KALY01	KAPLAN	KASPER	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KUEHR	KUHR	LAM1	LAM2	LEE3	LEEDER
	LEROUX	LEVES1	LEVES2	LEVES3	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MONTEF	MONTEI	MOYES1	MOYES2	MURRAY
	NHANE3	NICOLA	NILSSO	NYSTAD	OCONE	ODDY	PIROGO	POKHAR	PONSON	QIAN	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3
	RONMA2	RONMA3	ROSASV	RUDNIK	SANZOR	SCHENK	SELCUK	SENNHA	SHAMS2	SHAMSS	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL	STANHO
	STAZI	STERN2	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VERHOE	VOLKME	VONMAF	WARKE	WEITZ1	WICKMA	WIJGA	WITHER
	WOLF01	WOLF02	WOLF03	XU	YUAN	ZEIGER	ZEJDA	ZHANG								
5	BURCHF															

Appendix Table C58 - 8

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AGEI	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 C59 -

Children - 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 C55 - 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 C59 - 1

Children - Meta-analysis of Lifetime Paternal Only Exposure
Current Asthma
 Adjusted

REF	NRR	CompC55	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	NAmr	1993	2001	CS	8	FathOnly	NoHhMemb	current	non
MAVALE	9		x	b	1	8	all	Africa	1999	2004	CC	0	FathOnly	NotFathr	unspec	non
SHIVA	1			b	0	4	all	As:ME	2001	2003	CS	0	FathOnly	NoHhMemb	ever	non
WILLE1	8		x	b	3	15	all	Eu:Sca	1988	1991	CC	0	FathOnly	NotFathr	current	non

Appendix Table C59 - 2

Children - Meta-analysis of Lifetime Paternal Only Exposure
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed	Control	Case	Control			
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)
MAVALE	9	b	0	28	18	68	79	1.81 (	0.92-	3.55)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
WILLE1	8	b	0	6	16	29	43	0.56 (	0.19-	1.59)
Partial Totals				510	267	457	466			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	9	b	11	0.23	76.74	0.75	0.0429
AGABI2	9	b	12	0.04	101.11	0.88	0.6933
GILLIL	37	b	8	0.10	17.23	0.02	0.6924
MAVALE	9	b	0	0.59	8.43	1.78	0.0858
SHIVA	1	b	0	0.39	4.36	0.29	0.4160
WILLE1	8	b	0	-0.59	3.49	1.80	0.2732

RR data

	N	6
	NS	6
	Wt	211.35
	Het Chi	5.52
	Het df	5
	Het P	N.S.
Fixed	RR	1.14
	RRl	1.00
	RRu	1.31
	P	(+)
Random	RR	1.15
	RRl	0.98
	RRu	1.34
	P	(+)
Asymm	P	N.S.

Appendix Table C59 - 3

Children - Meta-analysis of Lifetime Paternal Only Exposure
 Current Asthma
 Adjusted

RR data

	N	6			
	NS	6			
	Wt	211.35			
Het	Chi	5.52			
Het	df	5			
Het	P	N.S.			
Fixed	RR	1.14			
	RRl	1.00			
	RRu	1.31			
	P	(+)			
Random	RR	1.15			
	RRl	0.98			
	RRu	1.34			
	P	(+)			
Asymm	P	N.S.			
			Sex		
	both		male	female	Total
	N	6			6
	NS	6			6
	Wt	211.35			211.35
Het	Chi	5.52			5.52
Het	df	5			5
Het	P	N.S.			N.S.
Fixed	RR	1.14			1.14
	RRl	1.00			1.00
	RRu	1.31			1.31
	P	(+)			(+)
Random	RR	1.15			1.15
	RRl	0.98			0.98
	RRu	1.34			1.34
	P	(+)			(+)
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C59 - 7

Children - 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR TIMONE	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY Zhang	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAACK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LEVES3 POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LIS PONSON SHAMSS VONMAF
2	ADDOYO DEKOK HABY KNIGHT MUMCUO SOTOQU WOLF02	AGUDOT DIJKST HALONE LAM1 NHANE3 SPENGL WOLF03	ANNES2 DOTTER HJERN1 LAM2 NICOLA STANHO YANG	ARSHAD DUHME1 HJERN2 LAU NITTA STERN1 ZHENG	BALL DUHME2 HOST LEE1 OHARA STERN2	BERGMA DUHME3 HU1 LEE2 OLIVET STODDA	CALL DUHME4 HU2 LEEN PALMIE STRACH	CELEDO EHRLI1 HUGHES LILLJE PETERS STURM	CHEN2 FAGBUL INFANT LINDFO PIC TARIQ	CHHABR FIELDE JAAKKO LOPEZC RIBEIR TOMINA	CHINN FORSB1 JANG MCCON2 RONMA1 WANG	CLARK FORSB2 JONES MELIA SARRAZ WEITZ1	CSONKA FORSB3 KABESC MELSOM SCHMIT WEITZ2	CUNNI1 FUJI KALY01 MILLER SELCUK WIJGA	DAIGLE GOLD KALY02 MOHAME SHOHAT WILLE2	DEKKER GUPTA KARUNA MOUSSA SOMERV WOLF01
5	AZIZI															

Appendix Table C59 - 8

Children - 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 C60 -
Children - 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 C56 - 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 C60 - 1

Children - Meta-analysis of Lifetime Paternal Only Exposure
Current Asthma
Adjusted

REF	NRR	CompC56	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
MAVALE	2		x	b	1	8	all	Africa	1999	2004	CC	0	FathOnly	NoParent	unspec	non
SHIVA	1			b	0	4	all	As:ME	2001	2003	CS	0	FathOnly	NoHhMemb	ever	non
WILLE1	2		x	b	3	15	all	Eu:Sca	1988	1991	CC	0	FathOnly	NoParent	current	non

Appendix Table C60 - 2
 Children - Meta-analysis of Lifetime Paternal Only Exposure
 Current Asthma
 Adjusted

				Numbers						
REF	NRR	SEX	ADJ	Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
MAVALE	2	b	0	28	18	63	78	1.93 (	0.98-	3.80)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
WILLE1	2	b	0	6	16	12	30	0.94 (	0.30-	2.97)
Partial Totals				510	267	435	452			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	9	b	11	0.23	76.74	0.58	0.0429
AGABI2	9	b	12	0.04	101.11	1.11	0.6933
GILLIL	37	b	8	0.10	17.23	0.04	0.6924
MAVALE	2	b	0	0.66	8.34	2.18	0.0585
SHIVA	1	b	0	0.39	4.36	0.26	0.4160
WILLE1	2	b	0	-0.06	2.89	0.13	0.9126

RR data

	N	6
	NS	6
	Wt	210.66
Het	Chi	4.30
Het	df	5
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 C60 - 3

Children - Meta-analysis of Lifetime Paternal Only Exposure
 Current Asthma
 Adjusted

RR data

	N	6			
	NS	6			
	Wt	210.66			
Het	Chi	4.30			
Het	df	5			
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.			
			<u>Sex</u>		
	both		male	female	Total
	N	6			6
	NS	6			6
	Wt	210.66			210.66
Het	Chi	4.30			4.30
Het	df	5			5
Het	P	N.S.			N.S.
Fixed	RR	1.15			1.15
	RRl	1.01			1.01
	RRu	1.32			1.32
	P	+			+
Random	RR	1.15			1.15
	RRl	1.01			1.01
	RRu	1.32			1.32
	P	+			+
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C60 - 7

Children - 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR TIMONE	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY Zhang	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAACK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LEVES3 POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LIS PONSON SHAMSS VONMAF
2	ADDOYO DEKOK HABY KNIGHT MUMCUO SOTOQU WOLF02	AGUDOT DIJKST HALONE LAM1 NHANE3 SPENGL WOLF03	ANNES2 DOTTER HJERN1 LAM2 NICOLA STANHO YANG	ARSHAD DUHME1 HJERN2 LAU NITTA STERN1 ZHENG	BALL DUHME2 HOST LEE1 OHARA STERN2	BERGMA DUHME3 HU1 LEE2 OLIVET STODDA	CALL DUHME4 HU2 LEEN PALMIE STRACH	CELEDO EHRLI1 HUGHES LILLJE PETERS STURM	CHEN2 FAGBUL INFANT LINDFO PIC TARIQ	CHHABR FIELDE JAAKKO LOPEZC RIBEIR TOMINA	CHINN FORSB1 JANG MCCON2 RONMA1 WANG	CLARK FORSB2 JONES MELIA SARRAZ WEITZ1	CSONKA FORSB3 KABESC MELSOM SCHMIT WEITZ2	CUNNI1 FUJI KALY01 MILLER SELCUK WIJGA	DAIGLE GOLD KALY02 MOHAME SHOHAT WILLE2	DEKKER GUPTA KARUNA MOUSSA SOMERV WOLF01
5	AZIZI															

Appendix Table C60 - 8

Children - 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 C61 -

Children - 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 C61 - 1

Children - Meta-analysis of Lifetime Household Exposure other than Parents
 Lifetime Asthma
 Adjusted

REF	NRR	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALDAW0	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
MONTEI	2	b	6	7	all	SCAmer	2002	2004	CS	0	Other	NotSpHhM	current	non
RATAGE	4	b	5	15	all	As:cen	1996	2000	CC	0	Grandpar	NotSpHhM	unspec	non

Appendix Table C61 - 2

Children - 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	Control	Case	Control			
ALDAW0	1	m	0	52	415	89	926	1.30 (	0.91-	1.87)
LAM2	10	b	4	-	-	-	-	1.14 (	0.60-	2.19)
MONTEI	2	b	0	78	-	244	-	1.49 (	1.13-	1.97)
RATAGE	4	b	0	11	1	109	59	5.95 (	0.75-	47.26)
Partial Totals				141	416	442	985			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALDAW0	1	m	0	0.27	29.45	0.17	0.1501
LAM2	10	b	4	0.13	9.17	0.40	0.6916
MONTEI	2	b	0	0.40	49.74	0.17	0.0049
RATAGE	4	b	0	1.78	0.90	1.86	0.0914

RR data

	N	4
	NS	4
	Wt	89.25
Het	Chi	2.60
Het	df	3
Het	P	N.S.
Fixed	RR	1.41
	RRl	1.14
	RRu	1.73
	P	++
Random	RR	1.41
	RRl	1.14
	RRu	1.73
	P	++
Asymm	P	N.S.

Appendix Table C61 - 3

Children - Meta-analysis of Lifetime Household Exposure other than Parents
 Lifetime Asthma
 Adjusted

RR data

	N	4			
	NS	4			
	Wt	89.25			
Het	Chi	2.60			
Het	df	3			
Het	P	N.S.			
Fixed	RR	1.41			
	RRl	1.14			
	RRu	1.73			
	P	++			
Random	RR	1.41			
	RRl	1.14			
	RRu	1.73			
	P	++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both	male	female	Total	
	N	3	1	4	
	NS	3	1	4	
	Wt	59.80	29.45	89.25	
Het	Chi	2.35	0.00	2.60	
Het	df	2	0	3	
Het	P	N.S.	N.S.	N.S.	
Fixed	RR	1.46	1.30	1.41	
	RRl	1.13	0.91	1.14	
	RRu	1.88	1.87	1.73	
	P	++	N.S.	++	
Random	RR	1.45	1.30	1.41	
	RRl	1.03	0.91	1.14	
	RRu	2.04	1.87	1.73	
	P	+	N.S.	++	
Between	Chi			0.25	
Between	df			1	
Between	P			N.S.	

Appendix Table C61 - 7

Children - 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	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
2	AGUDOT	AKCAKA	ALBA	ALFRA1	ALFRA2	ANDRAE	ANNES2	ANNESI	ARIF	BARRET	BECKET	BENCIV	BENER	BRABIN	BURCHF	BURR
	BUTZ	CHEN1	CHEN2	CUNNI2	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAR00Q	FERGUS	FIELDE
	FLYNN1	FLYNN2	FORAST	FREEM1	FREEM2	GILLIL	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN
	HAJNAL	HU1	HU2	JAAKK2	JENKIN	KALY01	KAPLAN	KASPER	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KUEHR	KUHR
	LAM1	LEE3	LEEDER	LEROUX	LEVES1	LEVES2	LEVES3	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MONTEF	MOYES1
	MOYES2	MURRAY	NHANE3	NICOLA	NILSSO	NYSTAD	OCONNE	ODDY	PIROGO	POKHAR	PONSON	QIAN	RASANE	RENNIE	RONCH1	RONCH2
	RONCH3	RONMA2	RONMA3	ROSASV	RUDNIK	SANZOR	SCHENK	SELCUK	SENNHA	SHAMS2	SHAMSS	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL
	STANH0	STAZI	STERN2	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WARKE	WEITZ1	WICKMA
	WIJGA	WITHER	WOLF01	WOLF02	WOLF03	XU	YUAN	ZEIGER	ZEJDA	ZHANG						

Appendix Table C62 -

Children - 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 C61 - 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 C62 - 1

Children - Meta-analysis of Lifetime Household Exposure other than Parents
 Lifetime Asthma
 Adjusted

REF	NRR	CompC61	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	EXPOS-time	UNEXTI
ALDAW0	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
MONTEI	2		b	6	7	all	SCAmer	2002	2004	CS	0	Other	NotSpHhM	current	non
RATAGE	5	x	b	5	15	all	As:cen	1996	2000	CC	0	Grandpar	NoHhMemb	unspec	non

Appendix Table C62 - 2

Children - 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	Control	Case	Control			
ALDAW0	1	m	0	52	415	89	926	1.30 (	0.91-	1.87)
LAM2	10	b	4	-	-	-	-	1.14 (	0.60-	2.19)
MONTEI	2	b	0	78	-	244	-	1.49 (	1.13-	1.97)
RATAGE	5	b	0	11	1	58	30	5.69 (	0.70-	46.19)
Partial Totals				141	416	391	956			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
ALDAW0	1	m	0	0.27	29.45	0.17	0.1501
LAM2	10	b	4	0.13	9.17	0.40	0.6916
MONTEI	2	b	0	0.40	49.74	0.17	0.0049
RATAGE	5	b	0	1.74	0.88	1.71	0.1037

RR data

	N	4
	NS	4
	Wt	89.23
Het	Chi	2.45
Het	df	3
Het	P	N.S.
Fixed	RR	1.41
	RRl	1.14
	RRu	1.73
	P	++
Random	RR	1.41
	RRl	1.14
	RRu	1.73
	P	++
Asymm	P	N.S.

Appendix Table C62 - 3

Children - Meta-analysis of Lifetime Household Exposure other than Parents
 Lifetime Asthma
 Adjusted

RR data

	N	4			
	NS	4			
	Wt	89.23			
Het	Chi	2.45			
Het	df	3			
Het	P	N.S.			
Fixed	RR	1.41			
	RRl	1.14			
	RRu	1.73			
	P	++			
Random	RR	1.41			
	RRl	1.14			
	RRu	1.73			
	P	++			
Asymm	P	N.S.			
			<u>Sex</u>		
	both		male	female	Total
	N	3	1		4
	NS	3	1		4
	Wt	59.78	29.45		89.23
Het	Chi	2.20	0.00		2.45
Het	df	2	0		3
Het	P	N.S.	N.S.		N.S.
Fixed	RR	1.46	1.30		1.41
	RRl	1.13	0.91		1.14
	RRu	1.88	1.87		1.73
	P	++	N.S.		++
Random	RR	1.45	1.30		1.41
	RRl	1.07	0.91		1.14
	RRu	1.98	1.87		1.73
	P	+	N.S.		++
Between	Chi				0.25
Between	df				1
Between	P				N.S.

Appendix Table C62 - 7

Children - 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	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
2	AGUDOT	AKCAKA	ALBA	ALFRA1	ALFRA2	ANDRAE	ANNES2	ANNESI	ARIF	BARRET	BECKET	BENCIV	BENER	BRABIN	BURCHF	BURR
	BUTZ	CHEN1	CHEN2	CUNNI2	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAR00Q	FERGUS	FIELDE
	FLYNN1	FLYNN2	FORAST	FREEM1	FREEM2	GILLIL	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GURKAN
	HAJNAL	HU1	HU2	JAAKK2	JENKIN	KALY01	KAPLAN	KASPER	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KUEHR	KUHR
	LAM1	LEE3	LEEDER	LEROUX	LEVES1	LEVES2	LEVES3	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MONTEF	MOYES1
	MOYES2	MURRAY	NHANE3	NICOLA	NILSSO	NYSTAD	OCONNE	ODDY	PIROGO	POKHAR	PONSON	QIAN	RASANE	RENNIE	RONCH1	RONCH2
	RONCH3	RONMA2	RONMA3	ROSASV	RUDNIK	SANZOR	SCHENK	SELCUK	SENNHA	SHAMS2	SHAMSS	SHERMA	SIGURS	SOYSET	SPIEKE	SQUILL
	STANH0	STAZI	STERN2	TAYLOR	TIMONE	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WARKE	WEITZ1	WICKMA
	WIJGA	WITHER	WOLF01	WOLF02	WOLF03	XU	YUAN	ZEIGER	ZEJDA	ZHANG						

Appendix Table C63 -

Children - 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 C63 - 1

Children - Meta-analysis of Lifetime Household Exposure other than Parents
 Current Asthma
 Adjusted

REF	NRR	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 C63 - 2

Children - 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	Control	Case	Control			
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 C63 - 3

Children - 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.			
	both		<u>Sex</u>		
			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 C63 - 7

Children - 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR ZEJDA	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY ULRIK	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK VARELA	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VAVILI VENNER	BENER HAJNAL LEVES1 LEVES2 ODDY SANZOR SCHENK VERHOE	BRABIN FERGUS JAACK2 LEVES1 PIROGO SENNHA SHAMS2 VOLKME	BURCHF FLYNN1 JENKIN LEVES2 PIROGO POKHAR SHAMS2 VONMAF	BURR FLYNN2 KAPLAN LIS POKHAR POKHAR SHAMS2 VONMAF	BUTZ FORAST KASPER LISTER PONSON SHAMSS VONMAF
2	ADDOYO DEKOK HABY LAM1 NITTA STERN1 YANG	AGUDOT DIJKST HALONE LAU OHARA STERN2 ZHENG	ANNES2 DOTTER HJERN1 LEE1 OLIVET STODDA MOHAME	ARSHAD DUHME1 HJERN2 LEE2 PALMIE STRACH STURM	AZIZI DUHME2 HOST LEEN PETERS TARIQ TOMINA	BALL BERGMA CALL CELEDO CHEN2 CHHABR CHINN CLARK CSONKA DAIGLE DEKKER	BERGMA CALL CELEDO CHEN2 CHHABR CHINN CLARK CSONKA DAIGLE DEKKER	CELEDO CHEN2 CHHABR CHINN CLARK CSONKA DAIGLE DEKKER	CELEDO CHEN2 CHHABR CHINN CLARK CSONKA DAIGLE DEKKER	CHEN2 CHHABR CHINN CLARK CSONKA DAIGLE DEKKER	CHHABR CHINN CLARK CSONKA DAIGLE DEKKER	CHINN CLARK CSONKA DAIGLE DEKKER	CLARK CSONKA DAIGLE DEKKER	CSONKA DAIGLE DEKKER	DAIGLE DEKKER	DEKKER
5	AGABI1	CUNNI1	MOHAME													

Appendix Table C63 - 8

Children - 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 C64 -

Children - 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 C63 - 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 C64 - 1

Children - Meta-analysis of Lifetime Household Exposure other than Parents
 Current Asthma
 Adjusted

REF	NRR	CompC63	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
MUMCU0	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 C64 - 2

Children - 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	Control	Case	Control			
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 C64 - 3

Children - 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.			
	both		<u>Sex</u>		
			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 C64 - 7

Children - 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR ZEJDA	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY ULRIK	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV VARELA	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VAVILI	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VENNER	BRABIN FERGUS JAACK2 LEVES2 ODDY SCHENK VERHOE	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VOLKME	BURR FLYNN2 KAPLAN LIS POKHAR SHAMS2 VONMAF	BUTZ FORAST KASPER LISTER PONSON SHAMSS VONMAF
2	ADDOYO DEKOK HABY LAM1 NITTA STERN1 YANG	AGUDOT DIJKST HALONE LAU OHARA STERN2 ZHENG	ANNES2 DOTTER HJERN1 LEE1 OLIVET STODDA	ARSHAD DUHME1 HJERN2 LEE2 PALMIE STRACH	AZIZI DUHME2 HOST LEEN PETERS STURM	BALL BERGMA HU1 LILLJE PIC TARIQ	CELEDO CALL EHRLI1 HU2 LOPEZC RONMA1 TOMINA	FAGBUL FAGBUL HUGHES LOPEZC MAVALE SARRAZ WANG	FIELDE FAGBUL JANG MAVALE MCCON2 SCHMIT WEITZ1	CHEN2 FORSB1 JONES MELIA SCHMIT WEITZ2	CHHABR FORSB2 JONES MELIA SELGUK WILGGA	CHINN FORSB3 KABESC MELIA SHIVA WILLE1	CLARK FORSB3 KALY01 MILLER SHOHAT WILLE2	CSONKA FUJI KALY02 MOUSSA SOMERV WOLF01	DAIGLE GOLD KARUNA NHANE3 SPENGL WOLF02	DEKKER GUPTA KNIGHT NICOLA STANHO WOLF03
5	AGABI1	CUNNI1	MOHAME													

Appendix Table C64 - 8

Children - 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 C65 -

Children - Meta-analysis of Exposure during Lifetime 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 C65 - 1

Children - Meta-analysis of Exposure during Lifetime 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 C65 - 2

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed	Control	Case	Control			
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)
GOEN1	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
GOEN1	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
	RRL	1.01
	RRu	1.29
	P	+
Random	RR	1.14
	RRL	1.00
	RRu	1.30
	P	+
Asymm	P	(*)

Appendix Table C65 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
Lifetime Asthma
Adjusted

RR data

[illegible]

Appendix Table C65 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure

		Lifetime Asthma Adjusted					
		Country in Europe					Total
		UK	Italy	Germany	Scand	othWest	East/Bal
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
	RRL	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
	RRL	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		
	RRL	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		
	RRL	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					Total
		<1970	1970-79	1980-89	1990+	unknown	
	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
	RRL		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
	RRL		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 C65 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
 Lifetime Asthma
 Adjusted

Publication year
 <1990 1990-94 1995-99 2000+ Total

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 C65 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
 Lifetime Asthma
 Adjusted

general Population setting
 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 ETS exposure
 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 C65 - 3

Children - Meta-analysis of Exposure during Lifetime 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 C65 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
 Lifetime Asthma
 Adjusted

Analysis type
 prevlncce 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	6	10
	NS		2	5	9
	Wt		18.97	45.13	254.27
Het	Chi		1.84	2.19	9.86
Het	df		1	1	9
Het	P		N.S.	N.S.	N.S.
Fixed	RR		1.66	1.15	1.14
	RRl		1.06	0.86	1.01
	RRu		2.61	1.54	1.29
	P		+	N.S.	+
Random	RR		1.70	1.14	1.14
	RRl		0.92	0.74	1.00
	RRu		3.16	1.75	1.30
	P		(+)	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 C65 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure

Lifetime Asthma

Adjusted

Study adjusts for or is matched on age

	Yes	No	Total
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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 C65 - 3

Children - Meta-analysis of Exposure during Lifetime 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 C65 - 3

Children - Meta-analysis of Exposure during Lifetime 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 C65 - 3

Children - Meta-analysis of Exposure during Lifetime 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 C65 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
 Adjusted
 Lifetime Asthma

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
	RRl	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
	RRl	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
	RRl	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
	RRl	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
 NoHhMem 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
	RRl	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
	RRl	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 C65 - 3

Children - Meta-analysis of Exposure during Lifetime 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.				
		Number of adjustment variables						
		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 C65 - 3

Children - Meta-analysis of Exposure during Lifetime 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 C65 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
 Lifetime Asthma
 Adjusted

Original	Derivation of RR/CI		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 C65 - 4

Children - Meta-analysis of Exposure during Lifetime 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 C65 - 5

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
Lifetime Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed	Control	Case	Control			
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
	RRl	1.02
	RRu	1.30
	P	+
Random	RR	1.15
	RRl	1.01
	RRu	1.31
	P	+
Asymm	P	(*)

Appendix Table C65 - 6

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
Lifetime Asthma
Unadjusted

RR data

[illegible]

Appendix Table C65 - 6

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure

		Lifetime Asthma Unadjusted				
		Start year of study			Total	
		<1970	1970-79	1980-89		
RR data						
N			1	5	3	10
NS			1	5	2	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				
		CC	Pr	CS	Total	
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 C65 - 7

Children - Meta-analysis of Exposure during Lifetime 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 DEKOK HJERN1 LILLJE RIBEIR WEITZ2	AGABI1 DIJKST HJERN2 LINDFO RONMA1 WILLE1	AGABI2 DOTTER HOST LOPEZC SARRAZ WILLE2	ARSHAD DUHME1 HUGHES MAVALE SCHMIT YANG	AZIZI DUHME2 INFANT MELIA SHIVA ZHENG	BALL DUHME3 JAAKKO MELSOM SHOHAT ZHENG	BERGMA DUHME4 JANG MILLER SOMERV SOTOQU	CALL EHRLI1 JONES MOHAME SOTOQU SPENGL	CELEDO FAGBUL KABESC MOUSSA SPENGL STERN1	CHHABR FORSB1 KALY02 MUMCUO STODDA STRACH	CHINN FORSB2 KARUNA NITTA STODDA STRACH	CLARK FORSB3 KNIGHT OHARA STRACH STURM	CSONKA FUJI LAU OLIVET STURM TARIQ	CUNNI1 GUPTA LEE1 PALMIE TARIQ TOMINA	DAIGLE HABY LEE2 PETERS TOMINA WANG	DEKKER HALONE LEEN PIC WANG
2	AGUDOT BUTZ FREEM2 KAPLAN LIS OCONNE SANZOR TSIMOY YUAN	AKCAKA CHEN2 GILLIL KASPER LISTER ODDY SCHENK ULRIK ZEIGER	ALBA CUNNI2 GOLD KEARNE MAIER PIROGO SELCHUK VARELA ZEJDA	ALDAWO DEBENE GOREN2 KELLY MARTIN POKHAR SENNHA VAVILI ZHANG	ALFRA1 DELL GOREN3 KENDIR MCCON1 PONSON SHAMS2 VERHOE ZHANG	ALFRA2 DODGE GOREN4 KIVITY MCCON2 QIAN SHAMSS VONMAF WOLKME	ANDRAE ECE GOREN5 KUEHR MCKEEV MONTEF RASANE SHERMA VONMAF WARKE	ANNES2 EHRLI2 GOREN6 KUHR MONTEI RATAGE SIGURS WEITZ1 WICKMA	ANNESI FARBE1 GORTM1 LAM1 MONTEI RONCH1 SOYSET WICKMA	ARIF FARBE2 GORTM2 LAM2 MOYES1 RONCH2 SQUILL WIJGA	BARRET FARBE3 GURKAN LEE3 MOYES2 RONCH3 SQUILL WITHER	BECKET FAR00Q HU1 LEEDER MURRAY STANHO WOLF01	BENCIV FIELDE HU2 LEROUX NHANE3 STAZI WOLF02	BENER FLYNN1 JAACK2 LEVES1 NICOLA RONMA2 STERN2 WOLF03	BRABIN FLYNN2 JENKIN LEVES2 NILSSO ROSASV TAYLOR	BURR FREEM1 KALY01 LEVES3 NYSTAD RUDNIK TIMONE XU
5	BURCHF															

Appendix Table C65 - 8

Children - Meta-analysis of Exposure during Lifetime 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	NAmr	1962	1986	CS	3	FathOnly	NoParent	current	never	0.84	?	
BURCHF	13	f	0	19	all	NAmr	1962	1986	CS	3	FathOnly	NoParent	current	never	0.65	?	

Appendix Table C66 -

Children - Meta-analysis of Exposure during Lifetime 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 C65 - 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 C66 - 1

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
 Lifetime Asthma
 Adjusted

REF	NRR	CompC65	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 C66 - 2

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed	Control	Case	Control			
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)
GOEN1	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
GOEN1	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
	RRL	1.03
	RRu	1.33
	P	+
Random	RR	1.17
	RRL	1.03
	RRu	1.33
	P	+
Asymm	P	(*)

Appendix Table C66 - 3

Children - Meta-analysis of Exposure during Lifetime 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	(*)			
			Sex		
	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 C66 - 7

Children - Meta-analysis of Exposure during Lifetime 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 DEKOK HJERN1 LILLJE RIBEIR WEITZ2	AGABI1 DIJKST HJERN2 LINDFO RONMA1 WILLE1	AGABI2 DOTTER HOST LOPEZC SARRAZ WILLE2	ARSHAD DUHME1 HUGHES MAVALE SCHMIT YANG	AZIZI DUHME2 INFANT MELIA SHIVA ZHENG	BALL DUHME3 JAAKKO MELSOM SHOHAT ZHENG	BERGMA DUHME4 JANG MILLER SOMERV SOTOQU	CALL EHRLI1 JONES MOHAME SOTOQU SPENGL	CELEDO FAGBUL KABESC MOUSSA SPENGL STERN1	CHHABR FORSB1 KALY02 MUMCUO STODDA STRACH	CHINN FORSB2 KARUNA NITTA STODDA STRACH	CLARK FORSB3 KNIGHT OHARA STRACH STURM	CSONKA FUJI LAU OLIVET STURM TARIQ	CUNNI1 GUPTA LEE1 PALMIE TARIQ TOMINA	DAIGLE HABY LEE2 PETERS TOMINA WANG	DEKKER HALONE LEEN PIC WANG
2	AGUDOT BUTZ FREEM2 KAPLAN LIS OCONNE SANZOR TSIMOY YUAN	AKCAKA CHEN2 GILLIL KASPER LISTER ODDY SCHENK ULRIK ZEIGER	ALBA CUNNI2 GOLD KEARNE MAIER PIROGO SELCHUK VARELA ZEJDA	ALDAWO DEBENE GOREN2 KELLY MARTIN POKHAR SENNHA VAVILI ZHANG	ALFRA1 DELL GOREN3 KENDIR MCCON1 PONSON SHAMS2 VERHOE	ALFRA2 DODGE GOREN4 KIVITY MCCON2 QIAN SHAMSS VONMAF	ANDRAE ECE GOREN5 KUEHR MCKEEV RASANE SHERMA VONMAF	ANNES2 EHRLI2 GOREN6 KUHR MONTEF RATAGE SIGURS WARKE	ANNESI FARBE1 GORTM1 LAM1 MONTEI RENNIE SOYSET WEITZ1	ARIF FARBE2 GORTM2 LAM2 MOYES1 RONCH1 SPIEKE WICKMA	BARRET FARBE3 GURKAN LEE3 MOYES2 RONCH2 SQUILL WIJGA	BECKET FAR00Q HU1 LEEDER MURRAY RONCH3 STANHO WITHER	BENCIV FIELDE HU2 LEROUX NHANE3 RONMA2 STAZI WOLF01	BENER FLYNN1 JAACK2 LEVES1 NICOLA RONMA3 STERN2 WOLF02	BRABIN FLYNN2 JENKIN LEVES2 NILSSO ROSASV TAYLOR WOLF03	BURR FREEM1 KALY01 LEVES3 NYSTAD RUDNIK TIMONE XU
5	BURCHF															

Appendix Table C66 - 8

Children - Meta-analysis of Exposure during Lifetime 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	NAmr	1962	1986	CS	3	FathOnly	NoParent	current	never	0.84	?			
BURCHF	13	f	0	19	all	NAmr	1962	1986	CS	3	FathOnly	NoParent	current	never	0.65	?			

Appendix Table C67 -

Children - Meta-analysis of Exposure during Lifetime 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 C67 - 1

Children - Meta-analysis of Exposure during Lifetime 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
MAVALE	9	b	1	8	all	Africa	1999	2004	CC	0	FathOnly	NotFathr	unspec	non
SHIVA	1	b	0	4	all	As:ME	2001	2003	CS	0	FathOnly	NoHhMemb	ever	non
WILLE1	8	b	3	15	all	Eu:Sca	1988	1991	CC	0	FathOnly	NotFathr	current	non

Appendix Table C67 - 2

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed	Control	Case	Control			
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)
MAVALE	9	b	0	28	18	68	79	1.81 (	0.92-	3.55)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
WILLE1	8	b	0	6	16	29	43	0.56 (	0.19-	1.59)
Partial Totals				510	267	457	466			

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	9	b	11	0.23	76.74	0.75	0.0429
AGABI2	9	b	12	0.04	101.11	0.88	0.6933
GILLIL	37	b	8	0.10	17.23	0.02	0.6924
MAVALE	9	b	0	0.59	8.43	1.78	0.0858
SHIVA	1	b	0	0.39	4.36	0.29	0.4160
WILLE1	8	b	0	-0.59	3.49	1.80	0.2732

RR data

	N	6
	NS	6
	Wt	211.35
	Het Chi	5.52
	Het df	5
	Het P	N.S.
Fixed	RR	1.14
	RRl	1.00
	RRu	1.31
	P	(+)
Random	RR	1.15
	RRl	0.98
	RRu	1.34
	P	(+)
Asymm	P	N.S.

Appendix Table C67 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
Current Asthma
Adjusted

RR data

	N	6							
	NS	6							
	Wt	211.35							
Het	Chi	5.52							
Het	df	5							
Het	P	N.S.							
Fixed	RR	1.14							
	RRl	1.00							
	RRu	1.31							
	P	(+)							
Random	RR	1.15							
	RRl	0.98							
	RRu	1.34							
	P	(+)							
Asymm	P	N.S.							
			<u>Sex</u>						
		both	male	female				Total	
	N	6						6	
	NS	6						6	
	Wt	211.35						211.35	
Het	Chi	5.52						5.52	
Het	df	5						5	
Het	P	N.S.						N.S.	
Fixed	RR	1.14						1.14	
	RRl	1.00						1.00	
	RRu	1.31						1.31	
	P	(+)						(+)	
Random	RR	1.15						1.15	
	RRl	0.98						0.98	
	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	1		3	1		1	6	
	NS	1		3	1		1	6	
	Wt	17.23		181.33	4.36		8.43	211.35	
Het	Chi	0.00		3.32	0.00		0.00	5.52	
Het	df	0		2	0		0	5	
Het	P	N.S.		N.S.	N.S.		N.S.	N.S.	
Fixed	RR	1.10		1.11	1.48		1.81	1.14	
	RRl	0.69		0.96	0.58		0.92	1.00	
	RRu	1.76		1.29	3.77		3.55	1.31	
	P	N.S.		N.S.	N.S.		(+)	(+)	
Random	RR	1.10		1.11	1.48		1.81	1.15	
	RRl	0.69		0.89	0.58		0.92	0.98	
	RRu	1.76		1.37	3.77		3.55	1.34	
	P	N.S.		N.S.	N.S.		(+)	(+)	
Between	Chi							2.20	
Between	df							3	
Between	P							N.S.	

Appendix Table C67 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure

		Current Asthma Adjusted					
		UK	Italy	Country in Europe		othWest East/Bal	Total
				Germany	Scand		
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			1	1		
	NS			1	1		
	Wt			4.36	4.36		
	Het Chi			0.00	0.00		
	Het df			0	0		
	Het P			N.S.	N.S.		
Fixed	RR			1.48	1.48		
	RRL			0.58	0.58		
	RRu			3.77	3.77		
	P			N.S.	N.S.		
Random	RR			1.48	1.48		
	RRL			0.58	0.58		
	RRu			3.77	3.77		
	P			N.S.	N.S.		
Between	Chi						
Between	df						
Between	P				N.S.		
		Start year of study					Total
		<1970	1970-79	1980-89	1990+	unknown	
	N			1	5		6
	NS			1	5		6
	Wt			3.49	207.86		211.35
	Het Chi			0.00	3.69		5.52
	Het df			0	4		5
	Het P			N.S.	N.S.		N.S.
Fixed	RR			0.56	1.16		1.14
	RRL			0.19	1.01		1.00
	RRu			1.59	1.32		1.31
	P			N.S.	+		(+)
Random	RR			0.56	1.16		1.15
	RRL			0.19	1.01		0.98
	RRu			1.59	1.32		1.34
	P			N.S.	+		(+)
Between	Chi						1.83
Between	df						1
Between	P						N.S.

Appendix Table C67 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure

					Current Asthma
					Adjusted
Publication year					
		<1990	1990-94	1995-99	2000+
		Total			
	N		1	2	3
	NS		1	2	3
		Wt	3.49	177.85	30.01
	Het Chi	0.00	1.61	1.46	
	Het df	0	1	2	
	Het P	N.S.	N.S.	N.S.	
Fixed	RR	0.56	1.13	1.32	
	RRL	0.19	0.98	0.92	
	RRU	1.59	1.31	1.89	
	P	N.S.	N.S.	N.S.	
Random	RR	0.56	1.14	1.32	
	RRL	0.19	0.94	0.92	
	RRU	1.59	1.37	1.89	
	P	N.S.	N.S.	N.S.	
Between	Chi				
Between	df				
Between	P				
		Study type			
		CC	Pr	CS	Total
		N	4	2	6
		NS	4	2	6
		Wt	189.76	21.58	211.35
	Het Chi	5.21		0.30	5.52
	Het df	3		1	5
	Het P	N.S.		N.S.	N.S.
Fixed	RR	1.14		1.17	1.14
	RRL	0.99		0.77	1.00
	RRU	1.31		1.78	1.31
	P	(+)		N.S.	(+)
Random	RR	1.15		1.17	1.15
	RRL	0.92		0.77	0.98
	RRU	1.46		1.78	1.34
	P	N.S.		N.S.	(+)
Between	Chi				0.01
Between	df				1
Between	P				N.S.
		Highest age in RR			
		0-9	10-14	15+	unknown
		N	3	1	2
		NS	3	1	2
		Wt	89.53	101.11	20.71
	Het Chi	1.05	0.00	1.35	5.52
	Het df	2	0	1	5
	Het P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.31	1.04	0.98	1.14
	RRL	1.07	0.86	0.64	1.00
	RRU	1.62	1.26	1.51	1.31
	P	++	N.S.	N.S.	(+)
Random	RR	1.31	1.04	0.92	1.15
	RRL	1.07	0.86	0.52	0.98
	RRU	1.62	1.26	1.66	1.34
	P	++	N.S.	N.S.	(+)
Between	Chi				3.12
Between	df				2
Between	P				N.S.

Appendix Table C67 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure

		Current Asthma Adjusted			
		general	Population setting		Total
			school	medical	allergy other
RR data	N		3	3	6
	NS		3	3	6
	Wt		195.07	16.27	211.35
	Het Chi		1.62	3.49	5.52
	Het df		2	2	5
	Het P		N.S.	N.S.	N.S.
	Fixed RR		1.13	1.33	1.14
	RRl		0.98	0.82	1.00
	RRu		1.30	2.16	1.31
	P		(+)	N.S.	(+)
	Random RR		1.13	1.24	1.15
	RRl		0.98	0.64	0.98
	RRu		1.30	2.42	1.34
	P		(+)	N.S.	(+)
	Between Chi				0.41
	Between df				1
	Between P				N.S.

		Respondent for ETS exposure			
		child	parent	med rec	mix/oth Total
	N		4		2 6
	NS		4		2 6
	Wt		189.76		21.58 211.35
	Het Chi		5.21		0.30 5.52
	Het df		3		1 5
	Het P		N.S.		N.S. N.S.
	Fixed RR		1.14		1.17 1.14
	RRl		0.99		0.77 1.00
	RRu		1.31		1.78 1.31
	P		(+)		N.S. (+)
	Random RR		1.15		1.17 1.15
	RRl		0.92		0.77 0.98
	RRu		1.46		1.78 1.34
	P		N.S.		N.S. (+)
	Between Chi				0.01
	Between df				1
	Between P				N.S.

		Child smokers			Total
		exc/none	included	ignored	
	N	2	1	3	6
	NS	2	1	3	6
	Wt	93.97	101.11	16.27	211.35
	Het Chi	0.26	0.00	3.49	5.52
	Het df	1	0	2	5
	Het P	N.S.	N.S.	N.S.	N.S.
	Fixed RR	1.23	1.04	1.33	1.14
	RRl	1.00	0.86	0.82	1.00
	RRu	1.50	1.26	2.16	1.31
	P	+	N.S.	N.S.	(+)
	Random RR	1.23	1.04	1.24	1.15
	RRl	1.00	0.86	0.64	0.98
	RRu	1.50	1.26	2.42	1.34
	P	+	N.S.	N.S.	(+)
	Between Chi				1.77
	Between df				2
	Between P				N.S.

Appendix Table C67 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure

Current Asthma
AdjustedPhysician diagnosis (current)
yes no/mix Total

RR data

	N	3	3	6
	NS	3	3	6
	Wt	16.27	195.07	211.35
Het	Chi	3.49	1.62	5.52
Het	df	2	2	5
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.33	1.13	1.14
	RRL	0.82	0.98	1.00
	RRu	2.16	1.30	1.31
	P	N.S.	(+)	(+)
Random	RR	1.24	1.13	1.15
	RRL	0.64	0.98	0.98
	RRu	2.42	1.30	1.34
	P	N.S.	(+)	(+)
Between	Chi			0.41
Between	df			1
Between	P			N.S.

Respondent for diagnosis (current)
medrec parent child mixed Total

	N	2	4		6
	NS	2	4		6
	Wt	11.91	199.43		211.35
Het	Chi	3.43	1.93		5.52
Het	df	1	3		5
Het	P	(*)	N.S.		N.S.
Fixed	RR	1.28	1.13		1.14
	RRL	0.73	0.99		1.00
	RRu	2.26	1.30		1.31
	P	N.S.	(+)		(+)
Random	RR	1.08	1.13		1.15
	RRL	0.34	0.99		0.98
	RRu	3.39	1.30		1.34
	P	N.S.	(+)		(+)
Between	Chi				0.17
Between	df				1
Between	P				N.S.

Questionnaire for symptoms
ISAAC ATS other Total

	N	2		4	6
	NS	2		4	6
	Wt	177.85		33.50	211.35
Het	Chi	1.61		3.79	5.52
Het	df	1		3	5
Het	P	N.S.		N.S.	N.S.
Fixed	RR	1.13		1.21	1.14
	RRL	0.98		0.86	1.00
	RRu	1.31		1.69	1.31
	P	N.S.		N.S.	(+)
Random	RR	1.14		1.21	1.15
	RRL	0.94		0.81	0.98
	RRu	1.37		1.80	1.34
	P	N.S.		N.S.	(+)
Between	Chi				0.12
Between	df				1
Between	P				N.S.

Appendix Table C67 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure

		Current Asthma Adjusted				Total
		Number of cases (current asthma)				
		1-50	51-100	101-200	201+ unknown	
	N	2	1		3	6
	NS	2	1		3	6
Fixed	Wt	7.84	8.43		195.07	211.35
	Het Chi	1.85	0.00		1.62	5.52
	Het df	1	0		2	5
	Het P	N.S.	N.S.		N.S.	N.S.
	RR	0.96	1.81		1.13	1.14
	RRl	0.48	0.92		0.98	1.00
	RRu	1.93	3.55		1.30	1.31
	P	N.S.	(+)		(+)	(+)
	RR	0.93	1.81		1.13	1.15
	RRl	0.36	0.92		0.98	0.98
Random	RRu	2.43	3.55		1.30	1.34
	P	N.S.	(+)		(+)	(+)
	Between Chi					2.06
	Between df					2
Between	P					N.S.

Study adjusts for or is matched on sex

		Yes	No	Total
N		3	3	6
	NS	3	3	6
RR data	Wt	195.07	16.27	211.35
	Het Chi	1.62	3.49	5.52
	Het df	2	2	5
	Het P	N.S.	N.S.	N.S.
	Fixed RR	1.13	1.33	1.14
	RRl	0.98	0.82	1.00
	RRu	1.30	2.16	1.31
	P	(+)	N.S.	(+)
	Random RR	1.13	1.24	1.15
	RRl	0.98	0.64	0.98
Random	RRu	1.30	2.42	1.34
	P	(+)	N.S.	(+)
Between	Chi			0.41
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on age

N		4	2	6
	NS	4	2	6
RR data	Wt	203.50	7.84	211.35
	Het Chi	3.42	1.85	5.52
	Het df	3	1	5
	Het P	N.S.	N.S.	N.S.
	Fixed RR	1.15	0.96	1.14
	RRl	1.00	0.48	1.00
	RRu	1.32	1.93	1.31
	P	+	N.S.	(+)
	Random RR	1.16	0.93	1.15
	RRl	0.99	0.36	0.98
Random	RRu	1.35	2.43	1.34
	P	(+)	N.S.	(+)
Between	Chi			0.25
Between	df			1
Between	P			N.S.

Appendix Table C67 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure

Current Asthma

Adjusted

Study adjusts for or is matched on race

Yes No Total

RR data

N	1	5	6
NS	1	5	6
Wt	17.23	194.12	211.35
Het Chi	0.00	5.49	5.52
Het df	0	4	5
Het P	N.S.	N.S.	N.S.
Fixed RR	1.10	1.15	1.14
RRl	0.69	1.00	1.00
RRu	1.76	1.32	1.31
P	N.S.	(+)	(+)
Random RR	1.10	1.16	1.15
RRl	0.69	0.95	0.98
RRu	1.76	1.42	1.34
P	N.S.	N.S.	(+)
Between Chi			0.03
Between df			1
Between P			N.S.

Study adjusts for or is matched on location

N	3	3	6
NS	3	3	6
Wt	195.07	16.27	211.35
Het Chi	1.62	3.49	5.52
Het df	2	2	5
Het P	N.S.	N.S.	N.S.
Fixed RR	1.13	1.33	1.14
RRl	0.98	0.82	1.00
RRu	1.30	2.16	1.31
P	(+)	N.S.	(+)
Random RR	1.13	1.24	1.15
RRl	0.98	0.64	0.98
RRu	1.30	2.42	1.34
P	(+)	N.S.	(+)
Between Chi			0.41
Between df			1
Between P			N.S.

Study adjusts for or is matched on SES

N	2	4	6
NS	2	4	6
Wt	177.85	33.50	211.35
Het Chi	1.61	3.79	5.52
Het df	1	3	5
Het P	N.S.	N.S.	N.S.
Fixed RR	1.13	1.21	1.14
RRl	0.98	0.86	1.00
RRu	1.31	1.69	1.31
P	N.S.	N.S.	(+)
Random RR	1.14	1.21	1.15
RRl	0.94	0.81	0.98
RRu	1.37	1.80	1.34
P	N.S.	N.S.	(+)
Between Chi			0.12
Between df			1
Between P			N.S.

Appendix Table C67 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure

Current Asthma

Adjusted

Study adjusts for family medical history

Yes No Total

RR data

	N	3	3	6
	NS	3	3	6
	Wt	195.07	16.27	211.35
Het	Chi	1.62	3.49	5.52
Het	df	2	2	5
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.13	1.33	1.14
	RRl	0.98	0.82	1.00
	RRu	1.30	2.16	1.31
	P	(+)	N.S.	(+)
Random	RR	1.13	1.24	1.15
	RRl	0.98	0.64	0.98
	RRu	1.30	2.42	1.34
	P	(+)	N.S.	(+)
Between	Chi			0.41
Between	df			1
Between	P			N.S.

Study adjusts for family composition

	N	6	6
	NS	6	6
	Wt	211.35	211.35
Het	Chi	5.52	5.52
Het	df	5	5
Het	P	N.S.	N.S.
Fixed	RR	1.14	1.14
	RRl	1.00	1.00
	RRu	1.31	1.31
	P	(+)	(+)
Random	RR	1.15	1.15
	RRl	0.98	0.98
	RRu	1.34	1.34
	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	177.85	33.50	211.35
Het	Chi	1.61	3.79	5.52
Het	df	1	3	5
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.13	1.21	1.14
	RRl	0.98	0.86	1.00
	RRu	1.31	1.69	1.31
	P	N.S.	N.S.	(+)
Random	RR	1.14	1.21	1.15
	RRl	0.94	0.81	0.98
	RRu	1.37	1.80	1.34
	P	N.S.	N.S.	(+)
Between	Chi			0.12
Between	df			1
Between	P			N.S.

Appendix Table C67 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure

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	177.85	33.50	211.35
Het	Chi	1.61	3.79	5.52
Het	df	1	3	5
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.13	1.21	1.14
	RRl	0.98	0.86	1.00
	RRu	1.31	1.69	1.31
	P	N.S.	N.S.	(+)
Random	RR	1.14	1.21	1.15
	RRl	0.94	0.81	0.98
	RRu	1.37	1.80	1.34
	P	N.S.	N.S.	(+)
Between	Chi			0.12
Between	df			1
Between	P			N.S.

Study adjusts for pets, animal contact, farming

	N	6	6
	NS	6	6
	Wt	211.35	211.35
Het	Chi	5.52	5.52
Het	df	5	5
Het	P	N.S.	N.S.
Fixed	RR	1.14	1.14
	RRl	1.00	1.00
	RRu	1.31	1.31
	P	(+)	(+)
Random	RR	1.15	1.15
	RRl	0.98	0.98
	RRu	1.34	1.34
	P	(+)	(+)
Between	Chi		
Between	df		
Between	P		N.S.

Study adjusts for child's medical history

	N	1	5	6
	NS	1	5	6
	Wt	17.23	194.12	211.35
Het	Chi	0.00	5.49	5.52
Het	df	0	4	5
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.10	1.15	1.14
	RRl	0.69	1.00	1.00
	RRu	1.76	1.32	1.31
	P	N.S.	(+)	(+)
Random	RR	1.10	1.16	1.15
	RRl	0.69	0.95	0.98
	RRu	1.76	1.42	1.34
	P	N.S.	N.S.	(+)
Between	Chi			0.03
Between	df			1
Between	P			N.S.

Appendix Table C67 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure

Current Asthma
AdjustedStudy adjusts for in utero exposure
Yes No Total

RR data

	N	3	3	6
	NS	3	3	6
	Wt	195.07	16.27	211.35
Het	Chi	1.62	3.49	5.52
Het	df	2	2	5
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.13	1.33	1.14
	RRl	0.98	0.82	1.00
	RRu	1.30	2.16	1.31
	P	(+)	N.S.	(+)
Random	RR	1.13	1.24	1.15
	RRl	0.98	0.64	0.98
	RRu	1.30	2.42	1.34
	P	(+)	N.S.	(+)
Between	Chi			0.41
Between	df			1
Between	P			N.S.

Study adjusts for in life exposure

	N	5	1	6
	NS	5	1	6
	Wt	206.99	4.36	211.35
Het	Chi	5.23	0.00	5.52
Het	df	4	0	5
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.14	1.48	1.14
	RRl	0.99	0.58	1.00
	RRu	1.30	3.77	1.31
	P	(+)	N.S.	(+)
Random	RR	1.14	1.48	1.15
	RRl	0.96	0.58	0.98
	RRu	1.37	3.77	1.34
	P	N.S.	N.S.	(+)
Between	Chi			0.29
Between	df			1
Between	P			N.S.

Exposure source

FathOnly HhNotMot Total

	N	6	6
	NS	6	6
	Wt	211.35	211.35
Het	Chi	5.52	5.52
Het	df	5	5
Het	P	N.S.	N.S.
Fixed	RR	1.14	1.14
	RRl	1.00	1.00
	RRu	1.31	1.31
	P	(+)	(+)
Random	RR	1.15	1.15
	RRl	0.98	0.98
	RRu	1.34	1.34
	P	(+)	(+)
Between	Chi		
Between	df		
Between	P		N.S.

Appendix Table C67 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure

				Current Asthma			
				Adjusted			
Exposed group : when Exposed							
		lif/ev	age<7y	current	unspec	other	Total
	N	1		4	1		6
	NS	1		4	1		6
	Wt	4.36		198.56	8.43		211.35
Het	Chi	0.00		3.33	0.00		5.52
Het	df	0		3	0		5
Het	P	N.S.		N.S.	N.S.		N.S.
Fixed	RR	1.48		1.11	1.81		1.14
	RRl	0.58		0.97	0.92		1.00
	RRu	3.77		1.28	3.55		1.31
Random	P	N.S.		N.S.	(+)		(+)
	RR	1.48		1.11	1.81		1.15
	RRl	0.58		0.95	0.92		0.98
	RRu	3.77		1.30	3.55		1.34
	P	N.S.		N.S.	(+)		(+)
Between	Chi						2.19
Between	df						2
Between	P						N.S.

		Unexposed group : who is smoker			
		NoHhMemb	NoParent	NotSpPar	Total
RR data	N	2	2	2	6
	NS	2	2	2	6
	Wt	21.58	177.85	11.91	211.35
	Het Chi	0.30	1.61	3.43	5.52
	Het df	1	1	1	5
	Het P	N.S.	N.S.	(*)	N.S.
	Fixed RR	1.17	1.13	1.28	1.14
	RRl	0.77	0.98	0.73	1.00
	RRu	1.78	1.31	2.26	1.31
	P	N.S.	N.S.	N.S.	(+)
	Random RR	1.17	1.14	1.08	1.15
	RRl	0.77	0.94	0.34	0.98
	RRu	1.78	1.37	3.39	1.34
	P	N.S.	N.S.	N.S.	(+)
	Between Chi				0.19
	Between df				2
	Between P				N.S.

		Unexposed group : time			Total
		non	never	non+othr	
RR data	N	4	2		6
	NS	4	2		6
	Wt	33.50	177.85		211.35
	Het Chi	3.79	1.61		5.52
	Het df	3	1		5
	Het P	N.S.	N.S.		N.S.
	Fixed RR	1.21	1.13		1.14
	RRl	0.86	0.98		1.00
	RRu	1.69	1.31		1.31
	P	N.S.	N.S.		(+)
	Random RR	1.21	1.14		1.15
	RRl	0.81	0.94		0.98
	RRu	1.80	1.37		1.34
	P	N.S.	N.S.		(+)
	Between Chi				0.12
	Between df				1
	Between P				N.S.

Appendix Table C67 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure

		Current Asthma					
		Adjusted					
		Number of adjustment variables					
		0	1	2	3-5	6-9	10+
		Total					
RR data	N	3				1	2
	NS	3				1	2
	Wt	16.27				17.23	177.85
Het	Chi	3.49				0.00	1.61
Het	df	2				0	1
Het	P	N.S.				N.S.	N.S.
Fixed	RR	1.33				1.10	1.13
	RRl	0.82				0.69	0.98
	RRu	2.16				1.76	1.31
	P	N.S.				N.S.	N.S.
Random	RR	1.24				1.10	1.14
	RRl	0.64				0.69	0.94
	RRu	2.42				1.76	1.37
	P	N.S.				N.S.	N.S.
Between	Chi						
Between	df						
Between	P						
		RR adjusted for sex					
		Yes	No	Total			
	N	3	3	6			
	NS	3	3	6			
	Wt	195.07	16.27	211.35			
Het	Chi	1.62	3.49	5.52			
Het	df	2	2	5			
Het	P	N.S.	N.S.	N.S.			
Fixed	RR	1.13	1.33	1.14			
	RRl	0.98	0.82	1.00			
	RRu	1.30	2.16	1.31			
	P	(+)	N.S.	(+)			
Random	RR	1.13	1.24	1.15			
	RRl	0.98	0.64	0.98			
	RRu	1.30	2.42	1.34			
	P	(+)	N.S.	(+)			
Between	Chi			0.41			
Between	df			1			
Between	P			N.S.			
		RR adjusted for age					
	N	3	3	6			
	NS	3	3	6			
	Wt	195.07	16.27	211.35			
Het	Chi	1.62	3.49	5.52			
Het	df	2	2	5			
Het	P	N.S.	N.S.	N.S.			
Fixed	RR	1.13	1.33	1.14			
	RRl	0.98	0.82	1.00			
	RRu	1.30	2.16	1.31			
	P	(+)	N.S.	(+)			
Random	RR	1.13	1.24	1.15			
	RRl	0.98	0.64	0.98			
	RRu	1.30	2.42	1.34			
	P	(+)	N.S.	(+)			
Between	Chi			0.41			
Between	df			1			
Between	P			N.S.			

Appendix Table C67 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
 Current Asthma
 Adjusted

RR adjusted for other ETS
 Yes No Total

RR data

	N	2	4	6
	NS	2	4	6
	Wt	177.85	33.50	211.35
Het	Chi	1.61	3.79	5.52
Het	df	1	3	5
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.13	1.21	1.14
	RRl	0.98	0.86	1.00
	RRu	1.31	1.69	1.31
	P	N.S.	N.S.	(+)
Random	RR	1.14	1.21	1.15
	RRl	0.94	0.81	0.98
	RRu	1.37	1.80	1.34
	P	N.S.	N.S.	(+)
Between	Chi			0.12
Between	df			1
Between	P			N.S.

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

	N	3	3	6
	NS	3	3	6
	Wt	195.07	16.27	211.35
Het	Chi	1.62	3.49	5.52
Het	df	2	2	5
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.13	1.33	1.14
	RRl	0.98	0.82	1.00
	RRu	1.30	2.16	1.31
	P	(+)	N.S.	(+)
Random	RR	1.13	1.24	1.15
	RRl	0.98	0.64	0.98
	RRu	1.30	2.42	1.34
	P	(+)	N.S.	(+)
Between	Chi			0.41
Between	df			1
Between	P			N.S.

		Derivation of RR/CI		Other	Total
		Original	Numbers SumNumbs		
	N	3		3	6
	NS	3		3	6
	Wt	195.07		16.27	211.35
Het	Chi	1.62		3.49	5.52
Het	df	2		2	5
Het	P	N.S.		N.S.	N.S.
Fixed	RR	1.13		1.33	1.14
	RRl	0.98		0.82	1.00
	RRu	1.30		2.16	1.31
	P	(+)		N.S.	(+)
Random	RR	1.13		1.24	1.15
	RRl	0.98		0.64	0.98
	RRu	1.30		2.42	1.34
	P	(+)		N.S.	(+)
Between	Chi				0.41
Between	df				1
Between	P				N.S.

Appendix Table C67 - 4

Children - Meta-analysis of Exposure during Lifetime 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
MAVALE	9		b	1	8	all	Africa	1999	2004	CC	0	FathOnly	NotFathr	unspec	non
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	FathOnly	NoHhMemb	ever	non
WILLE1	8		b	3	15	all	Eu:Sca	1988	1991	CC	0	FathOnly	NotFathr	current	non

Appendix Table C67 - 5

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
Current Asthma
Unadjusted

				Numbers						
REF	NRR	SEX	ADJ	Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
MAVALE	9	b	0	28	18	68	79	1.81 (	0.92-	3.55)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
WILLE1	8	b	0	6	16	29	43	0.56 (	0.19-	1.59)
Partial Totals				510	6699	457	6128			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	2	b	0	0.23	82.39	0.35	0.0386
AGABI2	2	b	0	0.10	105.13	0.36	0.2838
GILLIL	37	b	8	0.10	17.23	0.08	0.6924
MAVALE	9	b	0	0.59	8.43	1.55	0.0858
SHIVA	1	b	0	0.39	4.36	0.22	0.4160
WILLE1	8	b	0	-0.59	3.49	1.96	0.2732

RR data

	N	6
	NS	6
	Wt	221.02
Het	Chi	4.52
Het	df	5
Het	P	N.S.
Fixed	RR	1.18
	RRl	1.03
	RRu	1.34
	P	+
Random	RR	1.18
	RRl	1.03
	RRu	1.34
	P	+
Asymm	P	N.S.

Appendix Table C67 - 6

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure

Current Asthma

Unadjusted

RR data

[illegible]

Appendix Table C67 - 6

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure

		Current Asthma Unadjusted				
		Start year of study			Total	
		<1970	1970-79	1980-89		
RR data						
	N		1	5	6	
	NS		1	5	6	
	Wt		3.49	217.53	221.02	
Het	Chi		0.00	2.53	4.52	
Het	df		0	4	5	
Het	P		N.S.	N.S.	N.S.	
Fixed	RR		0.56	1.19	1.18	
	RRl		0.19	1.04	1.03	
	RRu		1.59	1.36	1.34	
	P		N.S.	++	+	
Random	RR		0.56	1.19	1.18	
	RRl		0.19	1.04	1.03	
	RRu		1.59	1.36	1.34	
	P		N.S.	++	+	
Between	Chi				1.99	
Between	df				1	
Between	P				N.S.	
		Study type				
		CC	Pr	CS	Total	
	N	4		2	6	
	NS	4		2	6	
	Wt	199.43		21.58	221.02	
Het	Chi	4.22		0.30	4.52	
Het	df	3		1	5	
Het	P	N.S.		N.S.	N.S.	
Fixed	RR	1.18		1.17	1.18	
	RRl	1.03		0.77	1.03	
	RRu	1.35		1.78	1.34	
	P	+		N.S.	+	
Random	RR	1.19		1.17	1.18	
	RRl	0.98		0.77	1.03	
	RRu	1.44		1.78	1.34	
	P	(+)		N.S.	+	
Between	Chi				0.00	
Between	df				1	
Between	P				N.S.	

Appendix Table C67 - 7

Children - Meta-analysis of Exposure during Lifetime 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR TIMONE	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY Zhang	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS HAJNAL LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LEVES3 POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LIS PONSON SHAMSS VONMAF
2	ADDOYO DEKOK HABY KNIGHT MUMCUO SOTOQU WOLF02	AGUDOT DIJKST HALONE LAM1 NHANE3 SPENGL WOLF03	ANNES2 DOTTER HJERN1 LAM2 NICOLA STANHO YANG	ARSHAD DUHME1 HJERN2 LAU NITTA STERN1 ZHENG	BALL DUHME2 HOST LEE1 OHARA STERN2	BERGMA DUHME3 HU1 LEE2 OLIVET STODDA	CALL DUHME4 HU2 LEEN PALMIE STRACH	CELEDO EHRLI1 HUGHES LILLJE PETERS STURM	CHEN2 FAGBUL INFANT LINDFO PIC TARIQ	CHHABR FIELDE JAAKKO LOPEZC RIBEIR TOMINA	CHINN FORSB1 JANG MCCON2 RONMA1 WANG	CLARK FORSB2 JONES MELIA SARRAZ WEITZ1	CSONKA FORSB3 KABESC MELSOM SCHMIT WEITZ2	CUNNI1 FUJI KALY01 MILLER SELCUK WIJGA	DAIGLE GOLD KALY02 MOHAME SHOHAT WILLE2	DEKKER GUPTA KARUNA MOUSSA SOMERV WOLF01
5	AZIZI															

Appendix Table C67 - 8

Children - Meta-analysis of Exposure during Lifetime 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 C68 -

Children - Meta-analysis of Exposure during Lifetime 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 C67 - 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 C68 - 1

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
 Current Asthma
 Adjusted

REF	NRR	CompC67	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	NAmr	1993	2001	CS	8	FathOnly	NoHhMemb	current	non
MAVALE	2	x	b	1	8	all	Africa	1999	2004	CC	0	FathOnly	NoParent	unspec	non
SHIVA	1		b	0	4	all	As:ME	2001	2003	CS	0	FathOnly	NoHhMemb	ever	non
WILLE1	2	x	b	3	15	all	Eu:Sca	1988	1991	CC	0	FathOnly	NoParent	current	non

Appendix Table C68 - 2

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
Current Asthma
Adjusted

				Numbers						
REF	NRR	SEX	ADJ	Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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)
MAVALE	2	b	0	28	18	63	78	1.93 (	0.98-	3.80)
SHIVA	1	b	0	9	233	9	344	1.48 (	0.58-	3.77)
WILLE1	2	b	0	6	16	12	30	0.94 (	0.30-	2.97)
Partial Totals				510	267	435	452			
*prospective study										

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	9	b	11	0.23	76.74	0.58	0.0429
AGABI2	9	b	12	0.04	101.11	1.11	0.6933
GILLIL	37	b	8	0.10	17.23	0.04	0.6924
MAVALE	2	b	0	0.66	8.34	2.18	0.0585
SHIVA	1	b	0	0.39	4.36	0.26	0.4160
WILLE1	2	b	0	-0.06	2.89	0.13	0.9126

RR data

	N	6
	NS	6
	Wt	210.66
	Het Chi	4.30
	Het df	5
	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 C68 - 3

Children - Meta-analysis of Exposure during Lifetime but without Maternal Exposure
 Current Asthma
 Adjusted

RR data

	N	6			
	NS	6			
	Wt	210.66			
Het	Chi	4.30			
Het	df	5			
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.			
			<u>Sex</u>		
	both		male	female	Total
	N	6			6
	NS	6			6
	Wt	210.66			210.66
Het	Chi	4.30			4.30
Het	df	5			5
Het	P	N.S.			N.S.
Fixed	RR	1.15			1.15
	RRl	1.01			1.01
	RRu	1.32			1.32
	P	+			+
Random	RR	1.15			1.15
	RRl	1.01			1.01
	RRu	1.32			1.32
	P	+			+
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table C68 - 7

Children - Meta-analysis of Exposure during Lifetime 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR TIMONE	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY Zhang	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAAKK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LIS POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LISTER PONSON SHAMSS VONMAF
2	ADDOYO DEKOK HABY KNIGHT MUMCUO SOTOQU WOLF02	AGUDOT DIJKST HALONE LAM1 NHANE3 SPENGL WOLF03	ANNES2 DOTTER HJERN1 LAM2 NICOLA STANHO YANG	ARSHAD DUHME1 HJERN2 LAU NITTA STERN1 ZHENG	BALL DUHME2 HOST LEE1 OHARA STERN2	BERGMA DUHME3 HU1 LEE2 OLIVET STODDA	CALL DUHME4 HU2 LEEN PALMIE STRACH	CELEDO EHRLI1 HUGHES LILLJE PETERS STURM	CHEN2 FAGBUL INFANT LINDFO PIC TARIQ	CHHABR FIELDE JAAKKO LOPEZC RIBEIR TOMINA	CHINN FORSB1 JANG MCCON2 RONMA1 WANG	CLARK FORSB2 JONES MELIA SARRAZ WEITZ1	CSONKA FORSB3 KABESC MELSOM SCHMIT WEITZ2	CUNNI1 FUJI KALY01 MILLER SELCUK WIJGA	DAIGLE GOLD KALY02 MOHAME SHOHAT WILLE2	DEKKER GUPTA KARUNA MOUSSA SOMERV WOLF01
5	AZIZI															

Appendix Table C68 - 8

Children - Meta-analysis of Exposure during Lifetime 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 C69 -

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C69 - 1

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C69 - 2

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent
Lifetime Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed	Control	Case	Control			
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 C69 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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.							
			Sex						
		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.				
			Continent						
	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 C69 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent

		Lifetime Asthma Adjusted					
		Country in Europe				Total	
		UK	Italy	Germany	Scand	othWest	East/Bal
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				Total	
		FarEast	Cent/SE	MidlEast			
	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				Total	
		<1970	1970-79	1980-89	1990+	unknown	
	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 C69 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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
	RRL	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
	RRL	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				Total
		CC	Pr	CS		
	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
	RRL	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
	RRL	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				Total
		0-9	10-14	15+	unknown	
	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
	RRL	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
	RRL	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 C69 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent
Lifetime Asthma
Adjusted

general Population setting
 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 ETS exposure
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 C69 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C69 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C69 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C69 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C69 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C69 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C69 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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

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

	NoHhMem	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 C69 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent

Lifetime Asthma
Adjusted

Unexposed group : time			NA	Total
non	never	non+othr		

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				
	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.				
		Number of adjustment variables						
		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
	RRL	1.10				0.94		1.11
	RRu	1.29				2.47		1.30
	P	+++				(+)		+++
Random	RR	1.19				1.52		1.20
	RRL	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.

RR adjusted for sex

		Yes	No	Total
	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 C69 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C69 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent
Lifetime Asthma
Adjusted

Original	Derivation of RR/CI		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 C69 - 4

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C69 - 5

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent
Lifetime Asthma
Unadjusted

REF	NRR	SEX	ADJ	Numbers		Non-exposed		RR	95.00%CI	
				Exposed	Control	Case	Control			
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
	RRl	1.11
	RRu	1.30
	P	+++
Random	RR	1.20
	RRl	1.11
	RRu	1.30
	P	+++
Asymm	P	N.S.

Appendix Table C69 - 6

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent
Lifetime Asthma
Unadjusted

RR data

[illegible]

Appendix Table C69 - 6

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent

		Lifetime Asthma Unadjusted				
		Start year of study			Total	
		<1970	1970-79	1980-89		
RR data	N			2	3	2
	NS			2	2	2
				15.37	66.90	521.82
	Wt					604.09
Het	Chi			0.17	1.53	0.41
Het	df			1	2	1
Het	P			N.S.	N.S.	N.S.
Fixed	RR			1.33	1.07	1.22
	RRl			0.81	0.84	1.12
	RRu			2.19	1.36	1.32
	P			N.S.	N.S.	+++
Random	RR			1.33	1.07	1.22
	RRl			0.81	0.84	1.12
	RRu			2.19	1.36	1.32
	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
		19.23	513.48	71.38	604.09	
	Wt					
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 C69 - 7

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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	CELEDO	CHHABR	CHINN	CLARK	CSONKA	CUNNI1	DAIGLE	DEKKER
	DEKOK	DIJKST	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	EHRLI1	FAGBUL	FORSB1	FORSB2	FORSB3	FUJI	GUPTA	HABY	HALONE
	HJERN1	HJERN2	HOST	HUGHES	INFANT	JAAKKO	JANG	JONES	KABESC	KALY02	KARUNA	KNIGHT	LAU	LEE1	LEE2	LEEN
	LILLJE	LINDFO	LOPEZC	MAVALE	MELIA	MELSOM	MILLER	MOHAME	MOUSSA	MUMCUO	NITTA	OHARA	OLIVET	PALMIE	PETERS	PIC
	RIBEIR	RONMA1	SARRAZ	SCHMIT	SHIVA	SHOHAT	SOMERV	SOTOQU	SPENGL	STERN1	STODDA	STRACH	STURM	TARIQ	TOMINA	WANG
	WEITZ2	WILLE1	WILLE2	YANG	ZHENG											
2	ANNES2	GURKAN	SPIEKE	TSIMOY												
3	AGUDOT	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	ARIF	BARRET	BECKET	BENCIV	BENER	BRABIN	BURCHF	BURR
	CHEN1	CUNNI2	DEBENE	DELL	DODGE	DOLD	ECE	EHRLI2	FARBE1	FARBE2	FARBE3	FAR00Q	FERGUS	FIELDE	FLYNN1	FLYNN2
	FORAST	FREEM1	FREEM2	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	HAJNAL	HU1	HU2	JAACK2
	JENKIN	KALY01	KAPLAN	KASPER	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KUEHR	LAM1	LAM2	LEE3	LEEDER	LEROUX
	LEVES1	LEVES2	LEVES3	LIS	LISTER	MAIER	MARTIN	MCCON1	MCCON2	MONTEF	MONTEI	MOYES1	MOYES2	MURRAY	NHANE3	NICOLA
	NILSSO	NYSTAD	OCONNE	ODDY	PIROGO	POKHAR	PONSON	QIAN	RASANE	RATAGE	RENNIE	RONCH1	RONCH2	RONCH3	RONMA2	RONMA3
	ROSASV	RUDNIK	SANZOR	SCHENK	SELCUK	SENNHA	SHAMS2	SHAMSS	SHERMA	SIGURS	SOYSET	SQUILL	STANHO	STAZI	STERN2	TAYLOR
	TIMONE	ULRIK	VARELA	VAVILI	VENNER	VOLKME	VONMAF	WARKE	WEITZ1	WICKMA	WIJGA	WITHER	WOLF01	WOLF02	WOLF03	XU
	YUAN	ZEIGER	ZEJDA	ZHANG												

Appendix Table C69 - 8

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent
Lifetime Asthma
Potentially overlapping studies

REF	REFGP PRINC	OVERLAP
GILLIL GILLIL	1	MCCON1/GILLIL

Appendix Table C70 -

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C70 - 1

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C70 - 2

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent
Current Asthma
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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 C70 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent
Current Asthma
Adjusted

RR data

[illegible]

Appendix Table C70 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent

				Current Asthma Adjusted				
		UK	Italy	Country in Europe Germany	Scand	othWest	East/Bal	Total
	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 C70 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent

					Current Asthma Adjusted				
					Publication year				
					<1990	1990-94	1995-99	2000+	Total
			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					2			

Appendix Table C70 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent

	general	Population setting				Total
		school	medical	allergy	other	

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 ETS exposure

	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

		Child exc/none	Smokers included	S 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
Random	P	++	N.S.	N.S.	N.S.
	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 C70 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C70 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent

		Current Asthma				Total
		Adjusted				
		Number of cases (current asthma)				
		1-50	51-100	101-200	201+ unknown	
	N		2	1	5	8
	NS		2	1	5	8
Fixed	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.	(*)	(*)
	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.
	RR		1.05	0.70	1.04	1.01
	RRl		0.74	0.47	0.90	0.88
Random	RRu		1.51	1.04	1.20	1.15
	P		N.S.	(-)	N.S.	N.S.
	Chi					3.77
Between	df					2
Between	P					N.S.
<u>Study adjusts for or is matched on sex</u>						
		Yes	No	Total		
	N	8		8		
	NS	8		8		
Fixed	Wt	482.67		482.67		
	Het Chi	12.76		12.76		
	Het df	7		7		
	Het P	(*)		(*)		
	RR	1.02		1.02		
	RRl	0.94		0.94		
	RRu	1.12		1.12		
	P	N.S.		N.S.		
	RR	1.01		1.01		
	RRl	0.88		0.88		
Random	RRu	1.15		1.15		
	P	N.S.		N.S.		
	Chi					
Between	df					
Between	P			N.S.		
<u>Study adjusts for or is matched on age</u>						
		7	1	8		
	N					
	NS	7	1	8		
Fixed	Wt	409.46	73.22	482.67		
	Het Chi	11.97	0.00	12.76		
	Het df	6	0	7		
	Het P	(*)	N.S.	(*)		
	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.		
	RR	1.02	0.93	1.01		
	RRl	0.88	0.74	0.88		
Random	RRu	1.19	1.17	1.15		
	P	N.S.	N.S.	N.S.		
	Chi			0.79		
Between	df			1		
Between	P			N.S.		

Appendix Table C70 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C70 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C70 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C70 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C70 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 C70 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent

Current Asthma						
Adjusted						
Number of adjustment variables						
0	1	2	3-5	6-9	10+	Total

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
	RRl	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
	RRl	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
	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.

		RR adjusted for age		
	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
	RRL	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
	RRL	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 C70 - 3

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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.

	Original	Derivation of RR/CI		Other	Total
		Numbers	SumNumbs		
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 C70 - 4

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent
 Current Asthma
 Unadjusted

REF	NRR	X	SEX	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	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 C70 - 5

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent
Current Asthma
Unadjusted

				Numbers						
REF	NRR	SEX	ADJ	Exposed		Non-exposed		RR	95.00%CI	
				Case	Control	Case	Control			
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 C70 - 6

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent
Current Asthma
Unadjusted

RR data

[illegible]

Appendix Table C70 - 6

Children - Meta-analysis of Exposure during Lifetime but Discontinued, Household or Parent

		Current Asthma Unadjusted			
		Start year of study			Total
		<1970	1970-79	1980-89	
RR data					
N			1	1	6
NS			1	1	6
Wt			61.71	79.70	377.61
Het Chi			0.00	0.00	6.33
Het df			0	0	5
Het P			N.S.	N.S.	N.S.
Fixed	RR		0.87	0.97	1.14
	RRl		0.68	0.78	1.03
	RRu		1.12	1.21	1.26
	P		N.S.	N.S.	+
Random	RR		0.87	0.97	1.13
	RRl		0.68	0.78	1.00
	RRu		1.12	1.21	1.27
	P		N.S.	N.S.	(+)
Between	Chi				4.76
Between	df				2
Between	P				(*)
		Study type			Total
		CC	Pr	CS	
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 C70 - 7

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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 CHEN1 FREEM1 KAY MAIER QIAN SHERMA WARKE	ALBA CUNNI2 FREEM2 KEARNE MARTIN RASANE SIGURS WICKMA	ALDAWO DEBENE GOREN1 KELLY MCCON1 RATAGE SOYSET WITHER	ALFRA1 DELL GOREN2 KENDIR MCKEEV RENNIE SPIEKE XU	ALFRA2 DODGE GOREN3 KERSHA MONTEF RONCH1 SQUILL YUAN	ANDRAE DOLD GOREN4 KIVITY MONTEI RONCH2 STAZI ZEIGER	ANNESI ECE GOREN5 KUEHR MOYES1 RONCH3 TAYLOR ZEJDA	ARIF EHRLI2 GOREN6 KUHR MOYES2 RONMA2 TIMONE ZHANG	BARRET FARBE1 GORTM1 LEE3 MURRAY RONMA3 TSIMOY	BECKET FARBE2 GORTM2 LEEDER NILSSO ROSASV ULRIK	BENCIV FARBE3 GURKAN LEROUX NYSTAD RUDNIK VARELA	BENER FAR00Q HAJNAL LEVES1 OCONNE SANZOR VAVILI	BRABIN FERGUS JAACK2 LEVES2 ODDY SCHENK VENNER	BURCHF FLYNN1 JENKIN LEVES3 PIROGO SENNHA VERHOE	BURR FLYNN2 KAPLAN LEVES3 POKHAR SHAMS2 VOLKME	BUTZ FORAST KASPER LIS PONSON SHAMSS VONMAF
2	ANNES2	KARUNA														
3	ADDOYO DOTTER HU1 LEEN OLIVET STERN2 ZHENG	AGUDOT DUHME1 HU2 LILLJE PALMIE STODDA	ARSHAD DUHME2 HUGHES LINDFO PETERS STRACH	AZIZI DUHME3 INFANT LOPEZC PIC STURM	BALL DUHME4 JAAKKO MAVALE RIBEIR TARIQ	BERGMA EHRLI1 JANG MCCON2 RONMA1 TOMINA	CALL FAGBUL JONES MELIA SARRAZ WANG	CELEDO FIELDE KABESC MELSOM SCHMIT WEITZ1	CHHABR FORSB1 KALY01 MILLER SELCHUK WEITZ2	CHINN FORSB2 KALY02 MOHAME SHIVA WIJGA	CLARK FORSB3 KNIGHT MOUSSA SHOHAT WILLE1	CSONKA FUJI LAM1 MUMCU0 SOMERV WILLE2	DAIGLE GUPTA LAM2 NHANE3 SOTOQU WOLF01	DEKKER HABY LAU NICOLA SPENGL WOLF02	DEKOK HALONE LEE1 NITTA STANHO WOLF03	DIJKST HOST LEE2 OHARA STERN1 YANG

Appendix Table C70 - 8

Children - Meta-analysis of Exposure during Lifetime but Discontinued, 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