Appendix Table E1 -

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)

This analysis is restricted to results for:
1) Exposure during gestation
2) Exposure from mother smoking
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) UNEXSO : not specific parent, neither parent, none in household, none
7) UNEXHI : not exposed defined as smoked none, or smoked none+low
8) RACE : all in study or nearest available, otherwise by race
9) ONSET : yes, no (prevalence)
10) 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 E1 - 1

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	UNEXTI
AGABI1	64	b	c	6	7	all	Eu:Ita	1994	1999	CC	12	Mother	NotMothr	non
AGABI2	64	b	c	13	14	all	Eu:Ita	1994	1999	CC	13	Mother	NotMothr	non
ANNESI	2	b	l	1	18	all	Eu:UK	1991	2001	CS	0	Mother	NotMothr	non
BERGMA	2	b	c	7	7	all	Eu:Ger	1990	2000	Pr	0	Mother	NotMothr	non
CELEDO	2	b	c	10	13	all	SCAmer	1998	2001	CC	6	Mother	NotMothr	non
CSONKA	3	b	c	6	13	all	Eu:Sca	*	2000	CS	0	Mother	NotMothr	non
CUNNI1	20	b	c	8	11	all	NAmer	1988	1996	CS	10	Mother	NoHhMemb	othr
CUNNI2	1	b	l	9	11	all	NAmer	1993	1995	CS	0	Mother	NotMothr	non
DELL	3	b	l	1	1	all	NAmer	1994	2001	CS	4	Mother	NotMothr	non
EHRLI1	1	b	c	7	9	all	Africa	1993	1996	CC	8	Mother	NotMothr	non
EHRLI2	5	b	l	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	non
GILLIL	5	m	l	7	19	all	NAmer	1993	2001	CS	4	Mother	NotMothr	non
GILLIL	13	f	l	7	19	all	NAmer	1993	2001	CS	4	Mother	NotMothr	non
HABY	3	b	c	3	5	all	Auslia	1995	2001	CS	9	Mother	NotMothr	non
HU1	3	b	l	10	11	all	NAmer	1994	1997	CS	7	Mother	NotMothr	non
JAAKK2	5	b	l	0	7	all	Eu:Sca	1987	2004	Pr	7	Mother	NotMothr	non
JONES	1	b	c	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	non
KUEHR	7	b	l	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	non
LEE3	1	b	l	6	15	all	As:FE	2001	2003	CS	0	Mother	NotMothr	non
NHANE3	78	b	l	0	5	all	NAmer	1988	2001	CS	11	Mother	NotMothr	non
NILSSO	3	b	l	13	14	all	Eu:Sca	*	1999	CS	7	Mother	NotMothr	non
NYSTAD	2	b	l	6	16	all	Eu:Sca	1994	1999	CS	10	Mother	NotMothr	non
OLIVET	5	b	c	4	9	all	NAmer	1993	1996	CC	5	Mother	NotMothr	non
PONSON	2	b	l	0	7	all	Auslia	1988	2000	Pr	6	Mother	NotMothr	non
SOYSET	13	b	l	7	13	all	Eu:Sca	1989	1995	CS	5	Mother	NotMothr	non
SPENGL	1	b	c	8	12	all	Eu:est	*	2004	CS	5	Mother	NotMothr	non
STAZI	1	b	l	0	5	all	Eu:Ita	1993	2002	CS	2	Mother	NotMothr	non
TARIQ	13	b	c	4	4	all	Eu:UK	1989	2000	Pr	1	Mother	NotMothr	non
WEITZ1	9	b	l	0	0	all	NAmer	1981	1990	CS	6	Mother	NotMothr	non
XU	1	b	l	0	7	all	Eu:Sca	1985	1999	Pr	0	Mother	NotMothr	non
YUAN	5	b	l	0	1	all	Eu:Sca	1996	2003	Pr	5	Mother	NotMothr	non
ZHENG	25	b	c	6	10	all	As:FE	1999	2002	CC	0	Mother	NotMothr	non

Appendix Table E1 - 2

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed Case	Exposed Control	Non-exposed Case	Non-exposed Control	RR	95.00%CI
AGABI1	64	b	12	204	-	708	-	1.50	(1.24- 1.83)
AGABI2	64	b	13	196	-	1062	-	0.98	(0.81- 1.18)
ANNESI	2	b	0	163	1329	256	2405	1.15	(0.94- 1.42)
BERGMA	2	b	0	-	-	-	-	2.46	(1.28- 4.73)
CELEDO	2	b	6	-	-	-	-	6.90	(0.80- 60.00)
CSONKA	3	b	0	-	-	-	-	1.70	(1.20- 2.40)
CUNNI1	20	b	10	-	-	-	-	1.20	(0.81- 1.79)
CUNNI2	1	b	0	37	285	54	500	1.20	(0.77- 1.87)
DELL	3	b	4	-	-	-	-	1.39	(0.83- 2.34)
EHRLI1	1	b	8	-	-	-	-	2.20	(1.28- 3.78)
EHRLI2	5	b	0	-	-	-	-	1.90	(1.10- 3.50)
GILLIL	5	m	4	-	-	-	-	1.26	(0.96- 1.64)
GILLIL	13	f	4	-	-	-	-	1.56	(1.16- 2.10)
Subtotal GILLIL								1.39	(1.14- 1.69)
HABY	3	b	9	43	-	147	-	0.77	(0.40- 1.48)
HU1	3	b	7	36	-	77	-	1.90	(1.10- 3.50)
*JAAKK2	5	b	7	-	-	-	-	1.27	(1.13- 1.43)
JONES	1	b	0	22	26	78	74	0.80	(0.42- 1.54)
KUEHR	7	b	1	18	-	144	-	0.61	(0.37- 1.03)
LEE3	1	b	0	56	-	2168	-	1.18	(0.88- 1.54)
NHANE3	78	b	11	150	-	330	-	1.73	(1.16- 2.57)
NILSSO	3	b	7	-	-	-	-	1.30	(0.80- 1.90)
NYSTAD	2	b	10	43	-	120	-	1.10	(0.70- 1.70)
OLIVET	5	b	5	66	-	65	-	2.82	(1.53- 5.20)
*PONSON	2	b	6	140	-	138	-	1.08	(0.90- 1.30)
SOYSET	13	b	5	22	-	29	-	0.60	(0.30- 1.30)
SPENGL	1	b	5	-	-	-	-	2.07	(0.85- 5.03)
STAZI	1	b	2	-	-	-	-	3.30	(1.00- 10.60)
TARIQ	13	b	1	44	-	137	-	1.39	(0.88- 2.22)
WEITZ1	9	b	6	-	-	51	-	1.06	(0.77- 1.46)
*XU	1	b	0	66	1658	217	6403	1.17	(0.90- 1.54)
*YUAN	5	b	5	153	-	211	-	1.68	(1.35- 2.10)
ZHENG	25	b	0	5	5	398	801	2.01	(0.58- 6.99)
Partial Totals				1464	3303	6390	10183		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	64	b	12	0.41	101.44	2.65	0.0000
AGABI2	64	b	13	-0.02	108.55	7.56	0.8333
ANNESI	2	b	0	0.14	89.21	0.93	0.1808
BERGMA	2	b	0	0.90	8.99	3.88	0.0069
CELEDO	2	b	6	1.93	0.82	2.35	0.0795
CSONKA	3	b	0	0.53	31.98	2.63	0.0027
CUNNI1	20	b	10	0.18	24.44	0.09	0.3674
CUNNI2	1	b	0	0.18	19.59	0.07	0.4153
DELL	3	b	4	0.33	14.30	0.10	0.2130
EHRLI1	1	b	8	0.79	13.10	3.89	0.0043
EHRLI2	5	b	0	0.64	11.47	1.82	0.0297
GILLIL	5	m	4	0.23	53.58	0.01	0.0907
GILLIL	13	f	4	0.44	43.62	1.76	0.0033
Subtotal GILLIL				0.19	97.20	1.77	
HABY	3	b	9	-0.26	8.98	2.29	0.4336
HU1	3	b	7	0.64	11.47	1.82	0.0297
*JAAKK2	5	b	7	0.24	277.16	0.01	0.0001
JONES	1	b	0	-0.22	9.07	1.95	0.5082
KUEHR	7	b	1	-0.49	14.66	7.98	0.0584
LEE3	1	b	0	0.17	49.07	0.30	0.2463
NHANE3	78	b	11	0.55	24.28	2.25	0.0069
NILSSO	3	b	7	0.26	20.54	0.01	0.2345
NYSTAD	2	b	10	0.10	19.52	0.43	0.6737
OLIVET	5	b	5	1.04	10.27	6.46	0.0009
*PONSON	2	b	6	0.08	113.63	3.16	0.4120
SOYSET	13	b	5	-0.51	7.15	4.07	0.1721
SPENGL	1	b	5	0.73	4.86	1.14	0.1087
STAZI	1	b	2	1.19	2.76	2.49	0.0474
TARIQ	13	b	1	0.33	17.95	0.13	0.1630
WEITZ1	9	b	6	0.06	37.54	1.29	0.7211

Appendix Table E1 - 2

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
*XU	1	b	0	0.16	52.63	0.36	0.2431
*YUAN	5	b	5	0.52	78.71	5.96	0.0000
ZHENG	25	b	0	0.70	2.48	0.51	0.2710

RR data

	N	32
	NS	31
	Wt	1283.81
Het	Chi	70.34
Het	df	31
Het	P	***
Fixed	RR	1.28
	RRl	1.21
	RRu	1.35
	P	+++
Random	RR	1.31
	RRl	1.19
	RRu	1.45
	P	+++
Asymm	P	N.S.

Appendix Table E1 - 3

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

RR data

	N	32
	NS	31
	Wt	1283.81
Het	Chi	70.34
Het	df	31
Het	P	***
Fixed	RR	1.28
	RRl	1.21
	RRu	1.35
	P	+++
Random	RR	1.31
	RRl	1.19
	RRu	1.45
	P	+++
Asymm	P	N.S.

		Sex			
		both	male	female	Total
	N	30	1	1	32
	NS	30	1	1	31
	Wt	1186.61	53.58	43.62	1283.81
Het	Chi	68.52	0.00	0.00	70.34
Het	df	29	0	0	31
Het	P	***	N.S.	N.S.	***
Fixed	RR	1.27	1.26	1.56	1.28
	RRl	1.20	0.96	1.16	1.21
	RRu	1.34	1.65	2.10	1.35
	P	+++	(+)	++	+++
Random	RR	1.31	1.26	1.56	1.31
	RRl	1.18	0.96	1.16	1.19
	RRu	1.45	1.65	2.10	1.45
	P	+++	(+)	++	+++
Between	Chi				1.83
Between	df				2
Between	P				N.S.

		Continent						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	10	1	16	2	2	1	32
	NS	9	1	16	2	2	1	31
	Wt	250.56	0.82	845.17	51.54	122.61	13.10	1283.81
Het	Chi	13.30	0.00	42.12	0.67	0.95	0.00	70.34
Het	df	9	0	15	1	1	0	31
Het	P	N.S.	N.S.	***	N.S.	N.S.	N.S.	***
Fixed	RR	1.41	6.90	1.27	1.21	1.05	2.20	1.28
	RRl	1.24	0.80	1.18	0.92	0.88	1.28	1.21
	RRu	1.59	59.76	1.35	1.59	1.26	3.78	1.35
	P	+++	(+)	+++	N.S.	N.S.	++	+++
Random	RR	1.44	6.90	1.26	1.21	1.05	2.20	1.31
	RRl	1.23	0.80	1.10	0.92	0.88	1.28	1.19
	RRu	1.68	59.76	1.45	1.59	1.26	3.78	1.45
	P	+++	(+)	+++	N.S.	N.S.	++	+++
Between	Chi							13.30
Between	df							5
Between	P							*

Appendix Table E1 - 3

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

RR data

		Country in Europe					
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
	N	3	3	2	7		1	16
	NS	3	3	2	7		1	16
	Wt	116.23	212.75	23.65	487.69		4.86	845.17
Het	Chi	1.82	12.27	10.84	12.85		0.00	42.12
Het	df	2	2	1	6		0	15
Het	P	N.S.	**	***	*		N.S.	***
Fixed	RR	1.15	1.22	1.04	1.32		2.07	1.27
	RRl	0.96	1.07	0.69	1.21		0.85	1.18
	RRu	1.38	1.39	1.55	1.44		5.04	1.35
	P	N.S.	++	N.S.	+++		N.S.	+++
Random	RR	1.15	1.34	1.21	1.32		2.07	1.26
	RRl	0.96	0.88	0.31	1.12		0.85	1.10
	RRu	1.38	2.05	4.73	1.55		5.04	1.45
	P	N.S.	N.S.	N.S.	+++		N.S.	+++
Between	Chi							4.34
Between	df							4
Between	P							N.S.

		Start year of study					
		<1970	1970-79	1980-89	1990+	unknown	Total
	N			9	20	3	32
	NS			9	19	3	31
	Wt			566.25	660.18	57.38	1283.81
Het	Chi			12.08	53.13	1.31	70.34
Het	df			8	19	2	31
Het	P			N.S.	***	N.S.	***
Fixed	RR			1.22	1.30	1.57	1.28
	RRl			1.12	1.21	1.21	1.21
	RRu			1.33	1.40	2.03	1.35
	P			+++	+++	+++	+++
Random	RR			1.22	1.35	1.57	1.31
	RRl			1.08	1.16	1.21	1.19
	RRu			1.38	1.56	2.03	1.45
	P			++	+++	+++	+++
Between	Chi						3.83
Between	df						2
Between	P						N.S.

		Publication year				
		<1990	1990-94	1995-99	2000+	Total
	N		3	12	17	32
	NS		3	12	16	31
	Wt		63.67	397.76	822.39	1283.81
Het	Chi		8.35	29.02	29.15	70.34
Het	df		2	11	16	31
Het	P		*	**	*	***
Fixed	RR		1.04	1.24	1.31	1.28
	RRl		0.81	1.12	1.23	1.21
	RRu		1.33	1.37	1.41	1.35
	P		N.S.	+++	+++	+++
Random	RR		1.06	1.28	1.37	1.31
	RRl		0.61	1.07	1.23	1.19
	RRu		1.83	1.53	1.54	1.45
	P		N.S.	++	+++	+++
Between	Chi					3.82
Between	df					2
Between	P					N.S.

Appendix Table E1 - 3

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

RR data

		Study type CC	Pr	CS	Total
	N	8	6	18	32
	NS	8	6	17	31
	Wt	257.20	549.08	477.53	1283.81
Het	Chi	27.05	13.45	29.44	70.34
Het	df	7	5	17	31
Het	P	***	*	*	***
Fixed	RR	1.31	1.29	1.25	1.28
	RRl	1.16	1.18	1.14	1.21
	RRu	1.48	1.40	1.37	1.35
	P	+++	+++	+++	+++
Random	RR	1.57	1.33	1.25	1.31
	RRl	1.14	1.13	1.10	1.19
	RRu	2.16	1.57	1.42	1.45
	P	++	+++	+++	+++
Between	Chi				0.40
Between	df				2
Between	P				N.S.

		Highest age in RR 0-9	10-14	15+	unknown	Total
	N	15	11	6		32
	NS	15	11	5		31
	Wt	776.40	243.34	264.06		1283.81
Het	Chi	42.09	21.36	4.84		70.34
Het	df	14	10	5		31
Het	P	***	*	N.S.		***
Fixed	RR	1.32	1.21	1.22		1.28
	RRl	1.23	1.07	1.08		1.21
	RRu	1.41	1.37	1.38		1.35
	P	+++	++	++		+++
Random	RR	1.37	1.35	1.22		1.31
	RRl	1.18	1.08	1.08		1.19
	RRu	1.59	1.68	1.38		1.45
	P	+++	++	++		+++
Between	Chi					2.06
Between	df					2
Between	P					N.S.

		Population setting general	school	medical	allergy	other	Total
	N	11	16	4		1	32
	NS	11	15	4		1	31
	Wt	624.05	506.32	39.80		113.63	1283.81
Het	Chi	15.70	37.24	8.88		0.00	70.34
Het	df	10	15	3		0	31
Het	P	N.S.	**	*		N.S.	***
Fixed	RR	1.29	1.27	1.83		1.08	1.28
	RRl	1.20	1.16	1.34		0.90	1.21
	RRu	1.40	1.38	2.50		1.30	1.35
	P	+++	+++	+++		N.S.	+++
Random	RR	1.30	1.29	1.81		1.08	1.31
	RRl	1.16	1.10	1.06		0.90	1.19
	RRu	1.47	1.51	3.10		1.30	1.45
	P	+++	++	+		N.S.	+++
Between	Chi						8.53
Between	df						3
Between	P						*

Appendix Table E1 - 3

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

RR data

Respondent for smoking

		child	parent	med rec	mix/oth	Total
	N	1	23	3	5	32
	NS	1	23	3	4	31
	Wt	0.82	774.82	366.14	142.02	1283.81
Het	Chi	0.00	45.09	10.20	6.02	70.34
Het	df	0	22	2	4	31
Het	P	N.S.	**	**	N.S.	***
Fixed	RR	6.90	1.20	1.38	1.43	1.28
	RRl	0.80	1.12	1.24	1.21	1.21
	RRu	59.76	1.29	1.53	1.68	1.35
	P	(+)	+++	+++	+++	+++
Random	RR	6.90	1.24	1.63	1.43	1.31
	RRl	0.80	1.10	1.18	1.15	1.19
	RRu	59.76	1.39	2.25	1.77	1.45
	P	(+)	+++	++	++	+++
Between	Chi					9.03
Between	df					3
Between	P					*

Child smokers

		exc/none	included	ignored	Total
	N	6	2	24	32
	NS	5	2	24	31
	Wt	253.98	120.02	909.81	1283.81
Het	Chi	3.66	4.55	52.26	70.34
Het	df	5	1	23	31
Het	P	N.S.	*	***	***
Fixed	RR	1.47	1.04	1.26	1.28
	RRl	1.30	0.87	1.18	1.21
	RRu	1.66	1.25	1.34	1.35
	P	+++	N.S.	+++	+++
Random	RR	1.47	1.29	1.28	1.31
	RRl	1.30	0.68	1.14	1.19
	RRu	1.66	2.44	1.45	1.45
	P	+++	N.S.	+++	+++
Between	Chi				9.87
Between	df				2
Between	P				**

Physician diagnosis (lifetime/current)

		yes	no/mixed	Total
	N	16	16	32
	NS	15	16	31
	Wt	681.63	602.18	1283.81
Het	Chi	35.04	30.68	70.34
Het	df	15	15	31
Het	P	**	**	***
Fixed	RR	1.35	1.20	1.28
	RRl	1.25	1.11	1.21
	RRu	1.46	1.30	1.35
	P	+++	+++	+++
Random	RR	1.40	1.23	1.31
	RRl	1.22	1.08	1.19
	RRu	1.61	1.41	1.45
	P	+++	++	+++
Between	Chi			4.63
Between	df			1
Between	P			*

Appendix Table E1 - 3

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

RR data

		Respondent for diagnosis (lifetime/current)				
		medrec	parent	child	mixed	Total
	N	4	22	3	3	32
	NS	4	21	3	3	31
	Wt	375.21	802.67	32.83	73.09	1283.81
Het	Chi	12.79	44.07	2.95	5.54	70.34
Het	df	3	21	2	2	31
Het	P	**	**	N.S.	(*)	***
Fixed	RR	1.36	1.22	1.55	1.39	1.28
	RRl	1.23	1.14	1.10	1.10	1.21
	RRu	1.51	1.31	2.18	1.74	1.35
	P	+++	+++	+	++	+++
Random	RR	1.48	1.24	1.64	1.64	1.31
	RRl	1.08	1.11	1.02	1.02	1.19
	RRu	2.01	1.39	2.64	2.62	1.45
	P	+	+++	+	+	+++
Between	Chi					4.99
Between	df					3
Between	P					N.S.

		Questionnaire for symptoms		
		ISAAC	other	Total
	N	12	20	32
	NS	12	19	31
	Wt	561.81	722.00	1283.81
Het	Chi	25.28	43.35	70.34
Het	df	11	19	31
Het	P	**	**	***
Fixed	RR	1.22	1.32	1.28
	RRl	1.13	1.23	1.21
	RRu	1.33	1.42	1.35
	P	+++	+++	+++
Random	RR	1.30	1.32	1.31
	RRl	1.12	1.16	1.19
	RRu	1.50	1.51	1.45
	P	+++	+++	+++
Between	Chi			1.71
Between	df			1
Between	P			N.S.

		Analysis type		
		prevlnce	onset	Total
	N	28	4	32
	NS	27	4	31
	Wt	761.67	522.14	1283.81
Het	Chi	60.85	9.47	70.34
Het	df	27	3	31
Het	P	***	*	***
Fixed	RR	1.28	1.27	1.28
	RRl	1.19	1.16	1.21
	RRu	1.38	1.38	1.35
	P	+++	+++	+++
Random	RR	1.33	1.28	1.31
	RRl	1.18	1.08	1.19
	RRu	1.50	1.51	1.45
	P	+++	++	+++
Between	Chi			0.03
Between	df			1
Between	P			N.S.

Appendix Table E1 - 3

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

RR data

		Number of cases (lifetime/current asthma) 1-50	51-100	101-200	201+	unknown	Total
	N	1	4	12	14	1	32
	NS	1	4	12	13	1	31
	Wt	2.76	40.66	180.61	1050.78	8.99	1283.81
Het	Chi	0.00	5.48	28.49	28.17	0.00	70.34
Het	df	0	3	11	13	0	31
Het	P	N.S.	N.S.	**	**	N.S.	***
Fixed	RR	3.30	1.04	1.30	1.27	2.46	1.28
	RRl	1.01	0.76	1.13	1.20	1.28	1.21
	RRu	10.74	1.41	1.51	1.35	4.73	1.35
	P	+	N.S.	+++	+++	++	+++
Random	RR	3.30	1.02	1.37	1.30	2.46	1.31
	RRl	1.01	0.66	1.07	1.18	1.28	1.19
	RRu	10.74	1.59	1.75	1.43	4.73	1.45
	P	+	N.S.	+	+++	++	+++
Between	Chi						8.20
Between	df						4
Between	P						(*)

Study adjusts for or is matched on sex

		Yes	No	Total
	N	24	8	32
	NS	23	8	31
	Wt	1002.10	281.71	1283.81
Het	Chi	52.29	17.73	70.34
Het	df	23	7	31
Het	P	***	*	***
Fixed	RR	1.29	1.24	1.28
	RRl	1.21	1.10	1.21
	RRu	1.37	1.39	1.35
	P	+++	+++	+++
Random	RR	1.33	1.27	1.31
	RRl	1.19	1.04	1.19
	RRu	1.49	1.56	1.45
	P	+++	+	+++
Between	Chi			0.32
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on age

	N	13	19	32
	NS	12	19	31
	Wt	388.39	895.42	1283.81
Het	Chi	33.52	36.67	70.34
Het	df	12	18	31
Het	P	***	**	***
Fixed	RR	1.30	1.27	1.28
	RRl	1.17	1.19	1.21
	RRu	1.43	1.35	1.35
	P	+++	+++	+++
Random	RR	1.38	1.29	1.31
	RRl	1.12	1.16	1.19
	RRu	1.69	1.44	1.45
	P	++	+++	+++
Between	Chi			0.15
Between	df			1
Between	P			N.S.

Appendix Table E1 - 3

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

Study adjusts for or is matched on race

RR data

		Yes	No	Total
	N	9	23	32
	NS	8	23	31
	Wt	219.14	1064.67	1283.81
Het	Chi	13.06	53.73	70.34
Het	df	8	22	31
Het	P	N.S.	***	***
Fixed	RR	1.43	1.25	1.28
	RRl	1.26	1.17	1.21
	RRu	1.64	1.32	1.35
	P	+++	+++	+++
Random	RR	1.49	1.26	1.31
	RRl	1.24	1.12	1.19
	RRu	1.79	1.41	1.45
	P	+++	+++	+++
Between	Chi			3.56
Between	df			1
Between	P			(*)

Study adjusts for or is matched on location

	N	11	21	32
	NS	10	21	31
	Wt	405.51	878.30	1283.81
Het	Chi	28.89	40.84	70.34
Het	df	10	20	31
Het	P	**	**	***
Fixed	RR	1.32	1.26	1.28
	RRl	1.20	1.18	1.21
	RRu	1.45	1.34	1.35
	P	+++	+++	+++
Random	RR	1.41	1.27	1.31
	RRl	1.17	1.13	1.19
	RRu	1.71	1.43	1.45
	P	+++	+++	+++
Between	Chi			0.61
Between	df			1
Between	P			N.S.

Study adjusts for or is matched on SES

	N	14	18	32
	NS	14	17	31
	Wt	764.96	518.85	1283.81
Het	Chi	26.36	42.75	70.34
Het	df	13	17	31
Het	P	*	***	***
Fixed	RR	1.24	1.32	1.28
	RRl	1.16	1.22	1.21
	RRu	1.34	1.44	1.35
	P	+++	+++	+++
Random	RR	1.29	1.32	1.31
	RRl	1.14	1.13	1.19
	RRu	1.46	1.54	1.45
	P	+++	+++	+++
Between	Chi			1.23
Between	df			1
Between	P			N.S.

Appendix Table E1 - 3

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

Study adjusts for family medical history

		Yes	No	Total
RR data				
	N	20	12	32
	NS	19	12	31
	Wt	694.89	588.92	1283.81
Het	Chi	50.03	17.71	70.34
Het	df	19	11	31
Het	P	***	(*)	***
Fixed	RR	1.33	1.22	1.28
	RRl	1.23	1.12	1.21
	RRu	1.43	1.32	1.35
	P	+++	+++	+++
Random	RR	1.40	1.20	1.31
	RRl	1.22	1.05	1.19
	RRu	1.61	1.36	1.45
	P	+++	++	+++
Between	Chi			2.60
Between	df			1
Between	P			N.S.

Study adjusts for family composition

	N	8	24	32
	NS	8	23	31
	Wt	572.93	710.88	1283.81
Het	Chi	19.27	51.07	70.34
Het	df	7	23	31
Het	P	**	***	***
Fixed	RR	1.28	1.27	1.28
	RRl	1.18	1.18	1.21
	RRu	1.39	1.37	1.35
	P	+++	+++	+++
Random	RR	1.30	1.33	1.31
	RRl	1.10	1.17	1.19
	RRu	1.54	1.50	1.45
	P	++	+++	+++
Between	Chi			0.01
Between	df			1
Between	P			N.S.

Study adjusts for cooking, heating, air conditioning

	N	4	28	32
	NS	4	27	31
	Wt	348.06	935.75	1283.81
Het	Chi	10.40	55.73	70.34
Het	df	3	27	31
Het	P	*	***	***
Fixed	RR	1.16	1.32	1.28
	RRl	1.05	1.24	1.21
	RRu	1.29	1.41	1.35
	P	++	+++	+++
Random	RR	1.17	1.35	1.31
	RRl	0.95	1.21	1.19
	RRu	1.44	1.51	1.45
	P	N.S.	+++	+++
Between	Chi			4.21
Between	df			1
Between	P			*

Appendix Table E1 - 3

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted
Study adjusts for housing quality, crowding, damp, mould

RR data

		Yes	No	Total
	N	7	25	32
	NS	7	24	31
	Wt	329.89	953.92	1283.81
Het	Chi	17.64	52.56	70.34
Het	df	6	24	31
Het	P	**	***	***
Fixed	RR	1.25	1.28	1.28
	RRl	1.13	1.20	1.21
	RRu	1.40	1.37	1.35
	P	+++	+++	+++
Random	RR	1.32	1.32	1.31
	RRl	1.07	1.17	1.19
	RRu	1.62	1.48	1.45
	P	++	+++	+++
Between	Chi			0.14
Between	df			1
Between	P			N.S.

Study adjusts for pets, animal contact, farming

	N	3	29	32
	NS	3	28	31
	Wt	62.76	1221.05	1283.81
Het	Chi	1.01	67.88	70.34
Het	df	2	28	31
Het	P	N.S.	***	***
Fixed	RR	1.48	1.27	1.28
	RRl	1.16	1.20	1.21
	RRu	1.90	1.34	1.35
	P	++	+++	+++
Random	RR	1.48	1.30	1.31
	RRl	1.16	1.17	1.19
	RRu	1.90	1.44	1.45
	P	++	+++	+++
Between	Chi			1.45
Between	df			1
Between	P			N.S.

Study adjusts for child's medical history

	N	20	12	32
	NS	19	12	31
	Wt	707.63	576.18	1283.81
Het	Chi	46.79	23.47	70.34
Het	df	19	11	31
Het	P	***	*	***
Fixed	RR	1.29	1.26	1.28
	RRl	1.19	1.17	1.21
	RRu	1.38	1.37	1.35
	P	+++	+++	+++
Random	RR	1.36	1.28	1.31
	RRl	1.17	1.12	1.19
	RRu	1.57	1.45	1.45
	P	+++	+++	+++
Between	Chi			0.09
Between	df			1
Between	P			N.S.

Appendix Table E1 - 3

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

Study adjusts for in utero exposure

RR data

		Yes	No	Total
	N	12	20	32
	NS	11	20	31
	Wt	417.31	866.50	1283.81
Het	Chi	28.87	41.26	70.34
Het	df	11	19	31
Het	P	**	**	***
Fixed	RR	1.30	1.26	1.28
	RRl	1.18	1.18	1.21
	RRu	1.43	1.35	1.35
	P	+++	+++	+++
Random	RR	1.35	1.30	1.31
	RRl	1.13	1.15	1.19
	RRu	1.61	1.46	1.45
	P	++	+++	+++
Between	Chi			0.21
Between	df			1
Between	P			N.S.

Study adjusts for in life exposure

		Yes	No	Total
	N	13	19	32
	NS	12	19	31
	Wt	467.07	816.74	1283.81
Het	Chi	28.71	40.92	70.34
Het	df	12	18	31
Het	P	**	**	***
Fixed	RR	1.32	1.25	1.28
	RRl	1.20	1.17	1.21
	RRu	1.44	1.34	1.35
	P	+++	+++	+++
Random	RR	1.35	1.29	1.31
	RRl	1.16	1.13	1.19
	RRu	1.58	1.47	1.45
	P	+++	+++	+++
Between	Chi			0.72
Between	df			1
Between	P			N.S.

Asthma definition (lifetime/current)

		lifetime	current	Total
	N	19	13	32
	NS	18	13	31
	Wt	940.88	342.93	1283.81
Het	Chi	34.60	34.93	70.34
Het	df	18	12	31
Het	P	*	***	***
Fixed	RR	1.26	1.33	1.28
	RRl	1.18	1.20	1.21
	RRu	1.34	1.48	1.35
	P	+++	+++	+++
Random	RR	1.26	1.48	1.31
	RRl	1.14	1.18	1.19
	RRu	1.40	1.85	1.45
	P	+++	+++	+++
Between	Chi			0.81
Between	df			1
Between	P			N.S.

Appendix Table E1 - 3

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)

RR data

		Adjusted Number of adjustment variables						
		0	1	2	3-5	6-9	10+	Total
	N	9	2	1	7	8	5	32
	NS	9	2	1	6	8	5	31
	Wt	274.49	32.60	2.76	212.49	483.24	278.23	1283.81
Het	Chi	12.43	5.47	0.00	13.37	14.12	12.68	70.34
Het	df	8	1	0	6	7	4	31
Het	P	N.S.	*	N.S.	*	*	*	***
Fixed	RR	1.27	0.96	3.30	1.51	1.23	1.23	1.28
	RRl	1.13	0.68	1.01	1.32	1.12	1.10	1.21
	RRu	1.43	1.35	10.74	1.73	1.34	1.39	1.35
	P	+++	N.S.	+	+++	+++	+++	+++
Random	RR	1.31	0.93	3.30	1.50	1.26	1.26	1.31
	RRl	1.11	0.41	1.01	1.19	1.06	1.00	1.19
	RRu	1.54	2.08	10.74	1.89	1.50	1.60	1.45
	P	++	N.S.	+	+++	+	+	+++
Between	Chi							12.27
Between	df							5
Between	P							*

RR adjusted for sex

		Yes	No	Total
	N	17	15	32
	NS	17	14	31
	Wt	856.15	427.66	1283.81
Het	Chi	37.49	32.33	70.34
Het	df	16	14	31
Het	P	**	**	***
Fixed	RR	1.26	1.31	1.28
	RRl	1.18	1.19	1.21
	RRu	1.35	1.44	1.35
	P	+++	+++	+++
Random	RR	1.28	1.37	1.31
	RRl	1.12	1.17	1.19
	RRu	1.45	1.61	1.45
	P	+++	+++	+++
Between	Chi			0.52
Between	df			1
Between	P			N.S.

RR adjusted for age

	N	9	23	32
	NS	8	23	31
	Wt	342.30	941.51	1283.81
Het	Chi	22.35	47.84	70.34
Het	df	8	22	31
Het	P	**	**	***
Fixed	RR	1.25	1.28	1.28
	RRl	1.13	1.20	1.21
	RRu	1.39	1.37	1.35
	P	+++	+++	+++
Random	RR	1.29	1.33	1.31
	RRl	1.04	1.19	1.19
	RRu	1.61	1.48	1.45
	P	+	+++	+++
Between	Chi			0.15
Between	df			1
Between	P			N.S.

Appendix Table E1 - 3

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

RR adjusted for other ETS

RR data

		Yes	No	Total
	N	12	20	32
	NS	11	20	31
	Wt	435.09	848.72	1283.81
Het	Chi	26.46	43.78	70.34
Het	df	11	19	31
Het	P	**	**	***
Fixed	RR	1.29	1.27	1.28
	RRl	1.18	1.19	1.21
	RRu	1.42	1.36	1.35
	P	+++	+++	+++
Random	RR	1.32	1.31	1.31
	RRl	1.12	1.16	1.19
	RRu	1.56	1.49	1.45
	P	+++	+++	+++
Between	Chi			0.10
Between	df			1
Between	P			N.S.

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

		Yes	No	Total
	N	21	11	32
	NS	20	11	31
	Wt	988.62	295.19	1283.81
Het	Chi	55.27	15.05	70.34
Het	df	20	10	31
Het	P	***	N.S.	***
Fixed	RR	1.27	1.29	1.28
	RRl	1.20	1.15	1.21
	RRu	1.35	1.44	1.35
	P	+++	+++	+++
Random	RR	1.30	1.34	1.31
	RRl	1.15	1.14	1.19
	RRu	1.47	1.56	1.45
	P	+++	+++	+++
Between	Chi			0.02
Between	df			1
Between	P			N.S.

Derivation of RR/CI

		Original	Numbers	SumNumbs	Other	Total
	N	18	5	1	8	32
	NS	18	5	1	7	31
	Wt	684.78	172.97	17.95	408.11	1283.81
Het	Chi	41.27	2.01	0.00	22.97	70.34
Het	df	17	4	0	7	31
Het	P	***	N.S.	N.S.	**	***
Fixed	RR	1.34	1.15	1.39	1.23	1.28
	RRl	1.24	0.99	0.88	1.11	1.21
	RRu	1.44	1.34	2.21	1.35	1.35
	P	+++	(+)	N.S.	+++	+++
Random	RR	1.45	1.15	1.39	1.22	1.31
	RRl	1.25	0.99	0.88	1.01	1.19
	RRu	1.69	1.34	2.21	1.47	1.45
	P	+++	(+)	N.S.	+	+++
Between	Chi					4.09
Between	df					3
Between	P					N.S.

Appendix Table E1 - 4

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
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	UNEXTI
AGABI1	55	x	b	c	6	7	all	Eu:Ita	1994	1999	CC	0	Mother	NotMothr	non
AGABI2	55	x	b	c	13	14	all	Eu:Ita	1994	1999	CC	0	Mother	NotMothr	non
ANNESI	2		b	l	1	18	all	Eu:UK	1991	2001	CS	0	Mother	NotMothr	non
BERGMA	2		b	c	7	7	all	Eu:Ger	1990	2000	Pr	0	Mother	NotMothr	non
CELEDO	2		b	c	10	13	all	SCAmer	1998	2001	CC	6	Mother	NotMothr	non
CSONKA	3		b	c	6	13	all	Eu:Sca	*	2000	CS	0	Mother	NotMothr	non
CUNNI1	18	x	b	c	8	11	all	NAmer	1988	1996	CS	9	Mother	NoHhMemb	othr
CUNNI2	1		b	l	9	11	all	NAmer	1993	1995	CS	0	Mother	NotMothr	non
DELL	1	x	b	l	1	1	all	NAmer	1994	2001	CS	0	Mother	NotMothr	non
EHRLI1	1		b	c	7	9	all	Africa	1993	1996	CC	8	Mother	NotMothr	non
EHRLI2	5		b	l	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	non
GILLIL	57	x	m	l	7	19	all	NAmer	1993	2001	CS	0	Mother	NotMothr	non
GILLIL	66	x	f	l	7	19	all	NAmer	1993	2001	CS	0	Mother	NotMothr	non
HABY	1	x	b	c	3	5	all	Auslia	1995	2001	CS	0	Mother	NotMothr	non
HU1	1	x	b	l	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	non
JAAKK2	6	x	b	l	0	7	all	Eu:Sca	1987	2004	Pr	0	Mother	NotMothr	non
JONES	1		b	c	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	non
KUEHR	3	x	b	l	6	8	all	Eu:Ger	1990	1992	CS	0	Mother	NotMothr	non
LEE3	1		b	l	6	15	all	As:FE	2001	2003	CS	0	Mother	NotMothr	non
NHANE3	71	x	b	l	0	5	all	NAmer	1988	2001	CS	0	Mother	NotMothr	non
NILSSO	2	x	b	l	13	14	all	Eu:Sca	*	1999	CS	0	Mother	NotMothr	non
NYSTAD	1	x	b	l	6	16	all	Eu:Sca	1994	1999	CS	0	Mother	NotMothr	non
OLIVET	1	x	b	c	4	9	all	NAmer	1993	1996	CC	0	Mother	NotMothr	non
PONSON	1	x	b	l	0	7	all	Auslia	1988	2000	Pr	0	Mother	NotMothr	non
SOYSET	1	x	b	l	7	13	all	Eu:Sca	1989	1995	CS	0	Mother	NotMothr	non
SPENGL	1		b	c	8	12	all	Eu:est	*	2004	CS	5	Mother	NotMothr	non
STAZI	1		b	l	0	5	all	Eu:Ita	1993	2002	CS	2	Mother	NotMothr	non
TARIQ	11	x	b	c	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	NotMothr	non
WEITZ1	9		b	l	0	0	all	NAmer	1981	1990	CS	6	Mother	NotMothr	non
XU	1		b	l	0	7	all	Eu:Sca	1985	1999	Pr	0	Mother	NotMothr	non
YUAN	1	x	b	l	0	1	all	Eu:Sca	1996	2003	Pr	0	Mother	NotMothr	non
ZHENG	25		b	c	6	10	all	As:FE	1999	2002	CC	0	Mother	NotMothr	non

Appendix Table E1 - 5

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed Case	Exposed Control	Non-exposed Case	Non-exposed Control	RR	95.00%CI
AGABI1	55	b	0	204	2241	708	11981	1.54	(1.31- 1.81)
AGABI2	55	b	0	196	2029	1062	12673	1.15	(0.98- 1.35)
ANNESI	2	b	0	163	1329	256	2405	1.15	(0.94- 1.42)
BERGMA	2	b	0	-	-	-	-	2.46	(1.28- 4.73)
CELEDO	2	b	6	-	-	-	-	6.90	(0.80- 60.00)
CSONKA	3	b	0	-	-	-	-	1.70	(1.20- 2.40)
CUNNI1	18	b	9	-	-	-	-	1.10	(0.75- 1.62)
CUNNI2	1	b	0	37	285	54	500	1.20	(0.77- 1.87)
DELL	1	b	0	-	-	-	-	1.96	(1.21- 3.17)
EHRLI1	1	b	8	-	-	-	-	2.20	(1.28- 3.78)
EHRLI2	5	b	0	-	-	-	-	1.90	(1.10- 3.50)
GILLIL	57	m	0	81	357	334	1607	1.09	(0.83- 1.43)
GILLIL	66	f	0	76	396	216	1809	1.61	(1.21- 2.13)
Subtotal GILLIL								1.31	(1.08- 1.59)
HABY	1	b	0	43	155	147	629	1.19	(0.81- 1.74)
HU1	1	b	0	36	84	77	316	1.76	(1.11- 2.79)
*JAAKK2	6	b	0	-	-	-	-	1.29	(1.15- 1.44)
JONES	1	b	0	22	26	78	74	0.80	(0.42- 1.54)
KUEHR	3	b	0	18	192	144	1047	0.68	(0.41- 1.14)
LEE3	1	b	0	56	-	2168	-	1.18	(0.88- 1.54)
NHANE3	71	b	0	150	1483	330	6225	1.91	(1.56- 2.33)
NILSSO	2	b	0	-	-	-	-	1.40	(1.00- 2.00)
NYSTAD	1	b	0	43	313	120	971	1.11	(0.77- 1.61)
OLIVET	1	b	0	66	35	65	96	2.79	(1.66- 4.67)
*PONSON	1	b	0	140	409	138	449	1.11	(0.92- 1.35)
SOYSET	1	b	0	22	213	29	354	1.26	(0.71- 2.25)
SPENGL	1	b	5	-	-	-	-	2.07	(0.85- 5.03)
STAZI	1	b	2	-	-	-	-	3.30	(1.00- 10.60)
TARIQ	11	b	0	44	206	137	831	1.30	(0.89- 1.88)
WEITZ1	9	b	6	-	-	51	-	1.06	(0.77- 1.46)
*XU	1	b	0	66	1658	217	6403	1.17	(0.90- 1.54)
*YUAN	1	b	0	153	2757	211	6948	1.83	(1.49- 2.24)
ZHENG	25	b	0	5	5	398	801	2.01	(0.58- 6.99)
Partial Totals				1621	14173	6940	56119		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	55	b	0	0.43	146.11	2.49	0.0000
AGABI2	55	b	0	0.14	151.16	3.84	0.0805
ANNESI	2	b	0	0.14	89.21	2.28	0.1808
BERGMA	2	b	0	0.90	8.99	3.22	0.0069
CELEDO	2	b	6	1.93	0.82	2.19	0.0795
CSONKA	3	b	0	0.53	31.98	1.68	0.0027
CUNNI1	18	b	9	0.10	25.91	1.10	0.6276
CUNNI2	1	b	0	0.18	19.59	0.27	0.4153
DELL	1	b	0	0.67	16.57	2.29	0.0062
EHRLI1	1	b	8	0.79	13.10	3.11	0.0043
EHRLI2	5	b	0	0.64	11.47	1.33	0.0297
GILLIL	57	m	0	0.09	53.30	2.44	0.5220
GILLIL	66	f	0	0.47	47.93	1.44	0.0010
Subtotal GILLIL				-0.04	101.22	3.87	
HABY	1	b	0	0.17	26.25	0.44	0.3797
HU1	1	b	0	0.56	17.91	1.24	0.0169
*JAAKK2	6	b	0	0.25	303.84	0.67	0.0000
JONES	1	b	0	-0.22	9.07	2.46	0.5082
KUEHR	3	b	0	-0.38	14.56	6.83	0.1436
LEE3	1	b	0	0.17	49.07	0.91	0.2463
NHANE3	71	b	0	0.65	94.95	11.27	0.0000
NILSSO	2	b	0	0.34	31.98	0.04	0.0571
NYSTAD	1	b	0	0.11	27.92	1.07	0.5760
OLIVET	1	b	0	1.02	14.38	7.51	0.0001
*PONSON	1	b	0	0.11	102.91	3.87	0.2746
SOYSET	1	b	0	0.23	11.43	0.06	0.4332
SPENGL	1	b	5	0.73	4.86	0.88	0.1087
STAZI	1	b	2	1.19	2.76	2.20	0.0474
TARIQ	11	b	0	0.26	27.71	0.05	0.1728
WEITZ1	9	b	6	0.06	37.54	2.22	0.7211

Appendix Table E1 - 5

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
*XU	1	b	0	0.16	52.63	1.04	0.2431
*YUAN	1	b	0	0.60	92.86	8.44	0.0000
ZHENG	25	b	0	0.70	2.48	0.39	0.2710

RR data

	N	32
	NS	31
	Wt	1541.26
Het	Chi	79.25
Het	df	31
Het	P	***
Fixed	RR	1.35
	RRl	1.29
	RRu	1.42
	P	+++
Random	RR	1.38
	RRl	1.26
	RRu	1.52
	P	+++
Asymm	P	N.S.

Appendix Table E1 - 6

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

RR data

	N	32
	NS	31
	Wt	1541.26
Het	Chi	79.25
Het	df	31
Het	P	***
Fixed	RR	1.35
	RRl	1.29
	RRu	1.42
	P	+++
Random	RR	1.38
	RRl	1.26
	RRu	1.52
	P	+++
Asymm	P	N.S.

		Sex			
		both	male	female	Total
	N	30	1	1	32
	NS	30	1	1	31
	Wt	1440.04	53.30	47.93	1541.26
Het	Chi	75.37	0.00	0.00	79.25
Het	df	29	0	0	31
Het	P	***	N.S.	N.S.	***
Fixed	RR	1.35	1.09	1.61	1.35
	RRl	1.29	0.83	1.21	1.29
	RRu	1.43	1.43	2.13	1.42
	P	+++	N.S.	++	+++
Random	RR	1.39	1.09	1.61	1.38
	RRl	1.26	0.83	1.21	1.26
	RRu	1.53	1.43	2.13	1.52
	P	+++	N.S.	++	+++
Between	Chi				3.88
Between	df				2
Between	P				N.S.

		Continent						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	10	1	16	2	2	1	32
	NS	9	1	16	2	2	1	31
	Wt	339.53	0.82	1007.10	51.54	129.16	13.10	1541.26
Het	Chi	26.85	0.00	36.96	0.67	0.09	0.00	79.25
Het	df	9	0	15	1	1	0	31
Het	P	**	N.S.	**	N.S.	N.S.	N.S.	***
Fixed	RR	1.51	6.90	1.33	1.21	1.13	2.20	1.35
	RRl	1.36	0.80	1.25	0.92	0.95	1.28	1.29
	RRu	1.68	59.76	1.41	1.59	1.34	3.78	1.42
	P	+++	(+)	+++	N.S.	N.S.	++	+++
Random	RR	1.52	6.90	1.33	1.21	1.13	2.20	1.38
	RRl	1.25	0.80	1.18	0.92	0.95	1.28	1.26
	RRu	1.85	59.76	1.50	1.59	1.34	3.78	1.52
	P	+++	(+)	+++	N.S.	N.S.	++	+++
Between	Chi							14.68
Between	df							5
Between	P							*

Appendix Table E1 - 6

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

RR data

		Start year of study					
		<1970	1970-79	1980-89	1990+	unknown	Total
	N			9	20	3	32
	NS			9	19	3	31
	Wt			668.40	804.04	68.82	1541.26
Het	Chi			20.92	54.90	0.99	79.25
Het	df			8	19	2	31
Het	P			**	***	N.S.	***
Fixed	RR			1.31	1.37	1.58	1.35
	RRl			1.21	1.28	1.24	1.29
	RRu			1.41	1.47	1.99	1.42
	P			+++	+++	+++	+++
Random	RR			1.30	1.41	1.58	1.38
	RRl			1.12	1.23	1.24	1.26
	RRu			1.51	1.62	1.99	1.52
	P			+++	+++	+++	+++
Between	Chi						2.44
Between	df						2
Between	P						N.S.

		Study type			
		CC	Pr	CS	Total
	N	8	6	18	32
	NS	8	6	17	31
	Wt	348.60	588.95	603.70	1541.26
Het	Chi	22.82	17.13	38.62	79.25
Het	df	7	5	17	31
Het	P	**	**	**	***
Fixed	RR	1.40	1.33	1.34	1.35
	RRl	1.26	1.23	1.24	1.29
	RRu	1.56	1.44	1.45	1.42
	P	+++	+++	+++	+++
Random	RR	1.61	1.37	1.33	1.38
	RRl	1.23	1.15	1.17	1.26
	RRu	2.10	1.64	1.51	1.52
	P	+++	+++	+++	+++
Between	Chi				0.68
Between	df				2
Between	P				N.S.

Appendix Table E1 - 7

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
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	AGUDOT	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNES2	ARIF	ARSHAD	AZIZI	BARRET	BECKET	BENCIV	BENER
	BRABIN	BURCHF	BURR	BUTZ	CALL	CHEN1	CHEN2	CHHABR	CHINN	CLARK	DAIGLE	DEKKER	DEKOK	DIJKST	DODGE	DOLD
	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	ECE	FAGBUL	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2	FORAST
	FORSB1	FORSB2	FORSB3	FREEM1	FREEM2	FUJI	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA
	GURKAN	HAJNAL	HALONE	HJERN1	HJERN2	HOST	HU2	HUGHES	INFANT	JAAKKO	JANG	JENKIN	KABESC	KALYO1	KALYO2	KARUNA
	KASPER	KAY	KEARNE	KENDIR	KERSHA	KIVITY	KNIGHT	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEEDER	LEEN	LEROUX
	LEVES1	LEVES2	LEVES3	LILLJE	LINDFO	LIS	LISTER	MAIER	MARTIN	MAVALE	MCCON1	MCCON2	MCKEEV	MELIA	MELSOM	MOHAME
	MONTEF	MONTEI	MOUSSA	MOYES1	MOYES2	MUMCUO	MURRAY	NICOLA	NITTA	OCONNE	ODDY	OHARA	PALMIE	PETERS	PIC	PIROGO
	POKHAR	QIAN	RASANE	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3	RONMA1	RONMA2	RONMA3	ROSASV	RUDNIK	SANZOR	SARRAZ
	SCHENK	SCHMIT	SELCUK	SENNHA	SHAMS2	SHAMSS	SHERMA	SHIVA	SHOHAT	SIGURS	SOMERV	SOTOQU	SPIEKE	SQUILL	STANHO	STERN1
	STODDA	STRACH	STURM	TIMONE	TOMINA	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG	WARKE	WICKMA
	WIJGA	WILLE1	WILLE2	WITHER	WOLFO1	WOLFO2	WOLFO3	YANG	ZEIGER	ZEJDA	ZHANG					
2	MILLER															
4	BALL	DEBENE	KAPLAN	KELLY	LOPEZC	STERN2	TAYLOR	WEITZ2								

Appendix Table E1 - 8

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL
KUEHR	KUEHR	1	KUEHR/SPIEKE
CSONKA	CSONKA	1	JAAKK2/CSONKA
JAAKK2	JAAKK2	1	JAAKK2/CSONKA

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	UNEXTI	RR	SIG
BALL	2	b	c	6	13	all	NAmer	1980	2000	Pr	8	Mother	NotMothr	non	*	n
DEBENE	3	b	l	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	non	1.86	y
KAPLAN	1	b	l	0	7	all	Eu:UK	1958	1985	Pr	0	Mother	NotMothr	non	*	n
KELLY	1	b	l	5	11	all	Eu:UK	1993	1995	CS	0	Mother	NotMothr	non	*	n
LOPEZC	1	b	c	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	non	6.32	n
STAZI	6	b	l	0	5	all	Eu:Ita	1993	2002	CS	6	Mother	NotMothr	non	*	y
STERN2	5	b	l	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	non	1.38	y
TAYLOR	1	b	l	0	5	all	Eu:UK	1970	1983	Pr	2	Mother	NotMothr	non	*	n
WEITZ2	1	b	c	6	17	all	NAmer	1981	1990	CS	0	Mother	LowMothr	non	*	n

Unadjusted - insufficient data for metaanalysis: as for adjusted plus the following

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	UNEXTI	RR	SIG
CELEDO	1	b	c	10	13	all	SCAmer	1998	2001	CC	0	Mother	NotMothr	non	*	n

Appendix Table E2 -

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Current Asthma (or Lifetime if Current not available)

This analysis is restricted to results for:
1) Exposure during gestation
2) Exposure from mother smoking
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) UNEXSO : not specific parent, neither parent, none in household, none
7) UNEXHI : not exposed defined as smoked none, or smoked none+low
8) RACE : all in study or nearest available, otherwise by race
9) ONSET : yes, no (prevalence)
10) 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 E1 - 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 E2 - 1

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	CompE1	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	UNEXTI
AGABI1	64		b	c	6	7	all	Eu:Ita	1994	1999	CC	12	Mother	NotMothr	non
AGABI2	64		b	c	13	14	all	Eu:Ita	1994	1999	CC	13	Mother	NotMothr	non
ANNESI	2		b	l	1	18	all	Eu:UK	1991	2001	CS	0	Mother	NotMothr	non
BERGMA	2		b	c	7	7	all	Eu:Ger	1990	2000	Pr	0	Mother	NotMothr	non
CELEDO	2		b	c	10	13	all	SCAmer	1998	2001	CC	6	Mother	NotMothr	non
CSONKA	3		b	c	6	13	all	Eu:Sca	*	2000	CS	0	Mother	NotMothr	non
CUNNI1	20		b	c	8	11	all	NAmer	1988	1996	CS	10	Mother	NoHhMemb	othr
CUNNI2	1		b	l	9	11	all	NAmer	1993	1995	CS	0	Mother	NotMothr	non
DELL	3		b	l	1	1	all	NAmer	1994	2001	CS	4	Mother	NotMothr	non
EHRLI1	1		b	c	7	9	all	Africa	1993	1996	CC	8	Mother	NotMothr	non
EHRLI2	5		b	l	3	14	all	NAmer	1988	1992	CC	0	Mother	NotMothr	non
GILLIL	29	x	b	c	7	19	all	NAmer	1993	2001	CS	9	Mother	NotMothr	non
HABY	3		b	c	3	5	all	Auslia	1995	2001	CS	9	Mother	NotMothr	non
HU1	5	x	b	c	10	11	all	NAmer	1994	1997	CS	0	Mother	NotMothr	non
JAAKK2	5		b	l	0	7	all	Eu:Sca	1987	2004	Pr	7	Mother	NotMothr	non
JONES	1		b	c	4	16	all	Eu:UK	1996	1999	CC	0	Mother	NotMothr	non
KUEHR	7		b	l	6	8	all	Eu:Ger	1990	1992	CS	1	Mother	NotMothr	non
LEE3	1		b	l	6	15	all	As:FE	2001	2003	CS	0	Mother	NotMothr	non
NHANE3	78		b	l	0	5	all	NAmer	1988	2001	CS	11	Mother	NotMothr	non
NILSSO	3		b	l	13	14	all	Eu:Sca	*	1999	CS	7	Mother	NotMothr	non
NYSTAD	2		b	l	6	16	all	Eu:Sca	1994	1999	CS	10	Mother	NotMothr	non
OLIVET	5		b	c	4	9	all	NAmer	1993	1996	CC	5	Mother	NotMothr	non
PONSON	2		b	l	0	7	all	Auslia	1988	2000	Pr	6	Mother	NotMothr	non
SOYSET	13		b	l	7	13	all	Eu:Sca	1989	1995	CS	5	Mother	NotMothr	non
SPENGL	1		b	c	8	12	all	Eu:est	*	2004	CS	5	Mother	NotMothr	non
STAZI	1		b	l	0	5	all	Eu:Ita	1993	2002	CS	2	Mother	NotMothr	non
TARIQ	13		b	c	4	4	all	Eu:UK	1989	2000	Pr	1	Mother	NotMothr	non
WEITZ1	6	x	b	c	0	5	all	NAmer	1981	1990	CS	5	Mother	NotMothr	non
XU	1		b	l	0	7	all	Eu:Sca	1985	1999	Pr	0	Mother	NotMothr	non
YUAN	5		b	l	0	1	all	Eu:Sca	1996	2003	Pr	5	Mother	NotMothr	non
ZHENG	25		b	c	6	10	all	As:FE	1999	2002	CC	0	Mother	NotMothr	non

Appendix Table E2 - 2

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed Case	Exposed Control	Non-exposed Case	Non-exposed Control	RR	95.00%CI
AGABI1	64	b	12	204	-	708	-	1.50	(1.24- 1.83)
AGABI2	64	b	13	196	-	1062	-	0.98	(0.81- 1.18)
ANNESI	2	b	0	163	1329	256	2405	1.15	(0.94- 1.42)
BERGMA	2	b	0	-	-	-	-	2.46	(1.28- 4.73)
CELEDO	2	b	6	-	-	-	-	6.90	(0.80- 60.00)
CSONKA	3	b	0	-	-	-	-	1.70	(1.20- 2.40)
CUNNI1	20	b	10	-	-	-	-	1.20	(0.81- 1.79)
CUNNI2	1	b	0	37	285	54	500	1.20	(0.77- 1.87)
DELL	3	b	4	-	-	-	-	1.39	(0.83- 2.34)
EHRLI1	1	b	8	-	-	-	-	2.20	(1.28- 3.78)
EHRLI2	5	b	0	-	-	-	-	1.90	(1.10- 3.50)
GILLIL	29	b	9	105	-	332	-	1.45	(1.06- 1.99)
HABY	3	b	9	43	-	147	-	0.77	(0.40- 1.48)
HU1	5	b	0	21	99	52	341	1.39	(0.80- 2.42)
*JAAKK2	5	b	7	-	-	-	-	1.27	(1.13- 1.43)
JONES	1	b	0	22	26	78	74	0.80	(0.42- 1.54)
KUEHR	7	b	1	18	-	144	-	0.61	(0.37- 1.03)
LEE3	1	b	0	56	-	2168	-	1.18	(0.88- 1.54)
NHANE3	78	b	11	150	-	330	-	1.73	(1.16- 2.57)
NILSSO	3	b	7	-	-	-	-	1.30	(0.80- 1.90)
NYSTAD	2	b	10	43	-	120	-	1.10	(0.70- 1.70)
OLIVET	5	b	5	66	-	65	-	2.82	(1.53- 5.20)
*PONSON	2	b	6	140	-	138	-	1.08	(0.90- 1.30)
SOYSET	13	b	5	22	-	29	-	0.60	(0.30- 1.30)
SPENGL	1	b	5	-	-	-	-	2.07	(0.85- 5.03)
STAZI	1	b	2	-	-	-	-	3.30	(1.00- 10.60)
TARIQ	13	b	1	44	-	137	-	1.39	(0.88- 2.22)
WEITZ1	6	b	5	43	-	74	-	1.61	(1.05- 2.47)
*XU	1	b	0	66	1658	217	6403	1.17	(0.90- 1.54)
*YUAN	5	b	5	153	-	211	-	1.68	(1.35- 2.10)
ZHENG	25	b	0	5	5	398	801	2.01	(0.58- 6.99)
Partial Totals				1597	3402	6720	10524		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	64	b	12	0.41	101.44	2.51	0.0000
AGABI2	64	b	13	-0.02	108.55	7.81	0.8333
ANNESI	2	b	0	0.14	89.21	1.01	0.1808
BERGMA	2	b	0	0.90	8.99	3.83	0.0069
CELEDO	2	b	6	1.93	0.82	2.34	0.0795
CSONKA	3	b	0	0.53	31.98	2.55	0.0027
CUNNI1	20	b	10	0.18	24.44	0.11	0.3674
CUNNI2	1	b	0	0.18	19.59	0.08	0.4153
DELL	3	b	4	0.33	14.30	0.09	0.2130
EHRLI1	1	b	8	0.79	13.10	3.83	0.0043
EHRLI2	5	b	0	0.64	11.47	1.78	0.0297
GILLIL	29	b	9	0.37	38.73	0.59	0.0208
HABY	3	b	9	-0.26	8.98	2.33	0.4336
HU1	5	b	0	0.33	12.52	0.08	0.2429
*JAAKK2	5	b	7	0.24	277.16	0.02	0.0001
JONES	1	b	0	-0.22	9.07	1.98	0.5082
KUEHR	7	b	1	-0.49	14.66	8.08	0.0584
LEE3	1	b	0	0.17	49.07	0.33	0.2463
NHANE3	78	b	11	0.55	24.28	2.19	0.0069
NILSSO	3	b	7	0.26	20.54	0.00	0.2345
NYSTAD	2	b	10	0.10	19.52	0.46	0.6737
OLIVET	5	b	5	1.04	10.27	6.39	0.0009
*PONSON	2	b	6	0.08	113.63	3.33	0.4120
SOYSET	13	b	5	-0.51	7.15	4.12	0.1721
SPENGL	1	b	5	0.73	4.86	1.12	0.1087
STAZI	1	b	2	1.19	2.76	2.47	0.0474
TARIQ	13	b	1	0.33	17.95	0.12	0.1630
WEITZ1	6	b	5	0.48	21.00	1.09	0.0291
*XU	1	b	0	0.16	52.63	0.40	0.2431
*YUAN	5	b	5	0.52	78.71	5.77	0.0000
ZHENG	25	b	0	0.70	2.48	0.50	0.2710

Appendix Table E2 - 2

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Current Asthma (or Lifetime if Current not available)
Adjusted

RR data

	N	31
	NS	31
	Wt	1209.85
Het	Chi	67.30
Het	df	30
Het	P	***
Fixed	RR	1.28
	RRl	1.21
	RRu	1.36
	P	+++
Random	RR	1.33
	RRl	1.20
	RRu	1.46
	P	+++
Asymm	P	N.S.

Appendix Table E2 - 3

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Current Asthma (or Lifetime if Current not available)
Adjusted

RR data

	N	31
	NS	31
	Wt	1209.85
Het	Chi	67.30
Het	df	30
Het	P	***
Fixed	RR	1.28
	RRl	1.21
	RRu	1.36
	P	+++
Random	RR	1.33
	RRl	1.20
	RRu	1.46
	P	+++
Asymm	P	N.S.

		Sex		
		both	male	female	Total
	N	31		31
	NS	31		31
	Wt	1209.85		1209.85
Het	Chi	67.30		67.30
Het	df	30		30
Het	P	***		***
Fixed	RR	1.28		1.28
	RRl	1.21		1.21
	RRu	1.36		1.36
	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 E2 - 7

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
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	AGUDOT	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNES2	ARIF	ARSHAD	AZIZI	BARRET	BECKET	BENCIV	BENER
	BRABIN	BURCHF	BURR	BUTZ	CALL	CHEN1	CHEN2	CHHABR	CHINN	CLARK	DAIGLE	DEKKER	DEKOK	DIJKST	DODGE	DOLD
	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	ECE	FAGBUL	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2	FORAST
	FORSB1	FORSB2	FORSB3	FREEM1	FREEM2	FUJI	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA
	GURKAN	HAJNAL	HALONE	HJERN1	HJERN2	HOST	HU2	HUGHES	INFANT	JAAKKO	JANG	JENKIN	KABESC	KALYO1	KALYO2	KARUNA
	KASPER	KAY	KEARNE	KENDIR	KERSHA	KIVITY	KNIGHT	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEEDER	LEEN	LEROUX
	LEVES1	LEVES2	LEVES3	LILLJE	LINDFO	LIS	LISTER	MAIER	MARTIN	MAVALE	MCCON1	MCCON2	MCKEEV	MELIA	MELSOM	MOHAME
	MONTEF	MONTEI	MOUSSA	MOYES1	MOYES2	MUMCUO	MURRAY	NICOLA	NITTA	OCONNE	ODDY	OHARA	PALMIE	PETERS	PIC	PIROGO
	POKHAR	QIAN	RASANE	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3	RONMA1	RONMA2	RONMA3	ROSASV	RUDNIK	SANZOR	SARRAZ
	SCHENK	SCHMIT	SELCUK	SENNHA	SHAMS2	SHAMSS	SHERMA	SHIVA	SHOHAT	SIGURS	SOMERV	SOTOQU	SPIEKE	SQUILL	STANHO	STERN1
	STODDA	STRACH	STURM	TIMONE	TOMINA	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG	WARKE	WICKMA
	WIJGA	WILLE1	WILLE2	WITHER	WOLFO1	WOLFO2	WOLFO3	YANG	ZEIGER	ZEJDA	ZHANG					
2	MILLER															
4	BALL	DEBENE	KAPLAN	KELLY	LOPEZC	STERN2	TAYLOR	WEITZ2								

Appendix Table E2 - 8

Children - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)
Current Asthma (or Lifetime if Current not available)
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL
KUEHR	KUEHR	1	KUEHR/SPIEKE
CSONKA	CSONKA	1	JAAKK2/CSONKA
JAAKK2	JAAKK2	1	JAAKK2/CSONKA

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-who	UNEXsource	UNEXTI	RR	SIG
BALL	2	b	c	6	13	all	NAmer	1980	2000	Pr	8	Mother	NotMothr	non	*	n
DEBENE	3	b	l	6	12	all	Eu:Ita	*	1994	CS	0	Mother	NotMothr	non	1.86	y
KAPLAN	1	b	l	0	7	all	Eu:UK	1958	1985	Pr	0	Mother	NotMothr	non	*	n
KELLY	1	b	l	5	11	all	Eu:UK	1993	1995	CS	0	Mother	NotMothr	non	*	n
LOPEZC	1	b	c	6	10	all	SCAmer	*	2001	CC	0	Mother	NotMothr	non	6.32	n
STAZI	6	b	l	0	5	all	Eu:Ita	1993	2002	CS	6	Mother	NotMothr	non	*	y
STERN2	6	b	c	7	12	all	NAmer	*	1989	CS	0	Mother	NotMothr	non	0.98	n
TAYLOR	1	b	l	0	5	all	Eu:UK	1970	1983	Pr	2	Mother	NotMothr	non	*	n
WEITZ2	1	b	c	6	17	all	NAmer	1981	1990	CS	0	Mother	LowMothr	non	*	n

Appendix Table E3 -

Children - Meta-analysis of Non-maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)

This analysis is restricted to results for:
1) Exposure during gestation
2) Exposure from household or father smoking, or mother ETS exposed
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) UNEXSO : not specific parent, neither parent, not specified household member, none
7) UNEXHI : not exposed defined as smoked none, or smoked none+low
8) RACE : all in study or nearest available, otherwise by race
9) ONSET : yes, no (prevalence)
10) 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 E3 - 1

Children - Meta-analysis of Non-maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-sou	UNEXsource	UNEXTI
AGABI1	78	b	c	6	7	all	Eu:Ita	1994	1999	CC	12	Father	NotFathr	non
AGABI2	78	b	c	13	14	all	Eu:Ita	1994	1999	CC	13	Father	NotFathr	non
MILLER	3	b	c	2	2	all	NAmer	*	2004	Pr	5	MothETS	None	non
ZHENG	13	b	c	6	10	all	As:FE	1999	2002	CC	6	MothETS	NotMothr	non

Appendix Table E3 - 2

Children - Meta-analysis of Non-maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed Case	Exposed Control	Non-exposed Case	Non-exposed Control	RR	95.00%CI
AGABI1	78	b	12	432	-	461	-	1.12	(0.94- 1.34)
AGABI2	78	b	13	666	-	558	-	1.19	(1.03- 1.37)
MILLER	3	b	5	-	-	-	-	0.52	(0.20- 1.34)
ZHENG	13	b	6	275	-	128	-	1.30	(1.00- 1.60)
Partial Totals				1373	0	1147	0		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	78	b	12	0.11	122.24	0.28	0.2102
AGABI2	78	b	13	0.17	188.84	0.03	0.0168
MILLER	3	b	5	-0.65	4.25	2.82	0.1778
ZHENG	13	b	6	0.26	69.56	0.71	0.0287

RR data

	N	4
	NS	4
	Wt	384.89
Het	Chi	3.84
Het	df	3
Het	P	N.S.
Fixed	RR	1.18
	RRl	1.06
	RRu	1.30
	P	++
Random	RR	1.17
	RRl	1.04
	RRu	1.32
	P	+
Asymm	P	N.S.

Appendix Table E3 - 3

Children - Meta-analysis of Non-maternal In Utero Exposure (irrespective of in life exposure)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

RR data

	N	4
	NS	4
	Wt	384.89
Het	Chi	3.84
Het	df	3
Het	P	N.S.
Fixed	RR	1.18
	RRl	1.06
	RRu	1.30
	P	++
Random	RR	1.17
	RRl	1.04
	RRu	1.32
	P	+
Asymm	P	N.S.

		Sex		
		both	male	female	Total
	N	4			4
	NS	4			4
	Wt	384.89			384.89
Het	Chi	3.84			3.84
Het	df	3			3
Het	P	N.S.			N.S.
Fixed	RR	1.18			1.18
	RRl	1.06			1.06
	RRu	1.30			1.30
	P	++			++
Random	RR	1.17			1.17
	RRl	1.04			1.04
	RRu	1.32			1.32
	P	+			+
Between	Chi				
Between	df				
Between	P				N.S.

Appendix Table E3 - 7

Children - Meta-analysis of Non-maternal In Utero Exposure (irrespective of in life exposure)
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	AGUDOT	AKCAKA	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNES2	ARIF	ARSHAD	AZIZI	BARRET	BECKET	BENCIV	BENER
	BRABIN	BURCHF	BURR	BUTZ	CALL	CHEN1	CHEN2	CHHABR	CHINN	CLARK	DAIGLE	DEKKER	DEKOK	DIJKST	DODGE	DOLD
	DOTTER	DUHME1	DUHME2	DUHME3	DUHME4	ECE	FAGBUL	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2	FORAST
	FORSB1	FORSB2	FORSB3	FREEM1	FREEM2	FUJI	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA
	GURKAN	HAJNAL	HALONE	HJERN1	HJERN2	HOST	HU2	HUGHES	INFANT	JAAKKO	JANG	JENKIN	KABESC	KALYO1	KALYO2	KARUNA
	KASPER	KAY	KEARNE	KENDIR	KERSHA	KIVITY	KNIGHT	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEEDER	LEEN	LEROUX
	LEVES1	LEVES2	LEVES3	LILLJE	LINDFO	LIS	LISTER	MAIER	MARTIN	MAVALE	MCCON1	MCCON2	MCKEEV	MELIA	MELSOM	MOHAME
	MONTEF	MONTEI	MOUSSA	MOYES1	MOYES2	MUMCUO	MURRAY	NICOLA	NITTA	OCONNE	ODDY	OHARA	PALMIE	PETERS	PIC	PIROGO
	POKHAR	QIAN	RASANE	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3	RONMA1	RONMA2	RONMA3	ROSASV	RUDNIK	SANZOR	SARRAZ
	SCHENK	SCHMIT	SELCUK	SENNHA	SHAMS2	SHAMSS	SHERMA	SHIVA	SHOHAT	SIGURS	SOMERV	SOTOQU	SPIEKE	SQUILL	STANHO	STERN1
	STODDA	STRACH	STURM	TIMONE	TOMINA	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG	WARKE	WICKMA
	WIJGA	WILLE1	WILLE2	WITHER	WOLFO1	WOLFO2	WOLFO3	YANG	ZEIGER	ZEJDA	ZHANG					
2	ANNESI	BALL	BERGMA	CELEDO	CSONKA	CUNNI1	CUNNI2	DEBENE	DELL	EHRLI1	EHRLI2	GILLIL	HABY	HU1	JAAKK2	JONES
	KAPLAN	KELLY	KUEHR	LEE3	NHANE3	NILSSO	NYSTAD	OLIVET	PONSON	SOYSET	SPENGL	STAZI	STERN2	TARIQ	TAYLOR	WEITZ1
	WEITZ2	XU	YUAN													
4	LOPEZC															

Appendix Table E3 - 8

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXP-sou	UNEXsource	UNEXTI	RR	SIG
LOPEZC	2	b	c	6	10	all	SCAmer	*	2001	CC	0	HhNotM	NotSpHhM	non	1.49	n