Appendix Table E1 -

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)

This analysis is restricted to results for:
1) Exposure in utero only (i.e. no in life exposure)
2) Results not by amount of exposure
3) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:
4) ASTHMA : lifetime, current
5) EXPOS : in life element of exposure/non-exposure refers to Biochemical, Household (overall), Parent (mother), Parent (father)
6) RACE : all in study or nearest available, otherwise by race
7) ONSET : yes, no (prevalence)
8) 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

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA
AGABI1	59	b	c	6	7	all	Eu:Ita	1994	1999	CC	11	Mother	current	NotMothr	non	-
AGABI2	59	b	c	13	14	all	Eu:Ita	1994	1999	CC	12	Mother	current	NotMothr	non	-
CUNNI1	15	b	c	8	11	all	NAmer	1988	1996	CS	9	AnyHh	lifenotcurr	NoHhMemb	othr	-
GILLIL	2	m	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
GILLIL	10	f	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
NHANE3	30	b	l	4	6	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood
TARIQ	8	b	c	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	in life	NotMothr	non	-

Appendix Table E1 - 2

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed Case	Cont	Non-exposed Case	Cont	RR	95.00%CI
AGABI1	59	b	11	26	-	536	-	1.72	(1.13- 2.63)
AGABI2	59	b	12	24	-	780	-	0.69	(0.45- 1.05)
CUNNI1	15	b	9	-	-	-	-	2.70	(1.13- 6.45)
GILLIL	2	m	3	-	-	-	-	1.70	(1.10- 2.90)
GILLIL	10	f	3	-	-	-	-	1.90	(1.10- 3.50)
Subtotal GILLIL								1.78	(1.23- 2.58)
NHANE3	30	b	4	-	-	-	-	2.63	(0.30- 25.12)
TARIQ	8	b	0	12	46	121	732	1.58	(0.81- 3.07)
Partial Totals				62	46	1437	732		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	59	b	11	0.54	21.53	0.83	0.0119
AGABI2	59	b	12	-0.37	21.40	11.01	0.0860
CUNNI1	15	b	9	0.99	5.06	2.12	0.0254
GILLIL	2	m	3	0.53	16.35	0.56	0.0319
GILLIL	10	f	3	0.64	11.47	1.00	0.0297
Subtotal GILLIL				0.48	27.82	1.56	
NHANE3	30	b	4	0.97	0.78	0.30	0.3919
TARIQ	8	b	0	0.46	8.72	0.11	0.1779

RR data

	N	7
	NS	6
	Wt	85.32
Het	Chi	15.93
Het	df	6
Het	P	*
Fixed	RR	1.41
	RRl	1.14
	RRu	1.75
	P	++
Random	RR	1.53
	RRl	1.05
	RRu	2.23
	P	+
Asymm	P	N.S.

Appendix Table E1 - 3

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

RR data

	N	7
	NS	6
	Wt	85.32
Het	Chi	15.93
Het	df	6
Het	P	*
Fixed	RR	1.41
	RRl	1.14
	RRu	1.75
	P	++
Random	RR	1.53
	RRl	1.05
	RRu	2.23
	P	+
Asymm	P	N.S.

		Sex			
		both	male	female	Total
	N	5	1	1	7
	NS	5	1	1	6
	Wt	57.50	16.35	11.47	85.32
Het	Chi	13.65	0.00	0.00	15.93
Het	df	4	0	0	6
Het	P	**	N.S.	N.S.	*
Fixed	RR	1.26	1.70	1.90	1.41
	RRl	0.98	1.05	1.07	1.14
	RRu	1.64	2.76	3.39	1.75
	P	(+)	+	+	++
Random	RR	1.46	1.70	1.90	1.53
	RRl	0.84	1.05	1.07	1.05
	RRu	2.53	2.76	3.39	2.23
	P	N.S.	+	+	+
Between	Chi				2.27
Between	df				2
Between	P				N.S.

Appendix Table E1 - 4

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

REF	NRR	X	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA
AGABI1	52	x	b	c	6	7	all	Eu:Ita	1994	1999	CC	0	Mother	current	NotMothr	non	-
AGABI2	52	x	b	c	13	14	all	Eu:Ita	1994	1999	CC	0	Mother	current	NotMothr	non	-
CUNNI1	15		b	c	8	11	all	NAmer	1988	1996	CS	9	AnyHh	lifenotcurr	NoHhMemb	othr	-
GILLIL	55	x	m	l	7	19	all	NAmer	1993	2001	CS	0	AnyHh	in life	NoHhMemb	non	-
GILLIL	64	x	f	l	7	19	all	NAmer	1993	2001	CS	0	AnyHh	in life	NoHhMemb	non	-
NHANE3	30		b	l	4	6	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood
TARIQ	8		b	c	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	in life	NotMothr	non	-

Appendix Table E1 - 5

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed Case	Cont	Non-exposed Case	Cont	RR	95.00%CI
AGABI1	52	b	0	26	252	536	9140	1.76	(1.16- 2.66)
AGABI2	52	b	0	24	376	780	9704	0.79	(0.52- 1.21)
CUNNI1	15	b	9	-	-	-	-	2.70	(1.13- 6.45)
GILLIL	55	m	0	19	56	247	1183	1.63	(0.95- 2.78)
GILLIL	64	f	0	13	59	149	1281	1.89	(1.01- 3.54)
Subtotal GILLIL								1.73	(1.15- 2.61)
NHANE3	30	b	4	-	-	-	-	2.63	(0.30- 25.12)
TARIQ	8	b	0	12	46	121	732	1.58	(0.81- 3.07)
Partial Totals				94	789	1833	22040		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	52	b	0	0.56	22.52	0.88	0.0073
AGABI2	52	b	0	-0.23	21.88	7.83	0.2809
CUNNI1	15	b	9	0.99	5.06	1.98	0.0254
GILLIL	55	m	0	0.49	13.27	0.18	0.0770
GILLIL	64	f	0	0.64	9.87	0.73	0.0448
Subtotal GILLIL				0.39	23.13	0.91	
NHANE3	30	b	4	0.97	0.78	0.28	0.3919
TARIQ	8	b	0	0.46	8.72	0.07	0.1779

RR data

	N	7
	NS	6
	Wt	82.09
Het	Chi	11.95
Het	df	6
Het	P	(*)
Fixed	RR	1.44
	RRl	1.16
	RRu	1.79
	P	+++
Random	RR	1.54
	RRl	1.11
	RRu	2.14
	P	+
Asymm	P	N.S.

Appendix Table E1 - 6

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

RR data

	N	7
	NS	6
	Wt	82.09
Het	Chi	11.95
Het	df	6
Het	P	(*)
Fixed	RR	1.44
	RRl	1.16
	RRu	1.79
	P	+++
Random	RR	1.54
	RRl	1.11
	RRu	2.14
	P	+
Asymm	P	N.S.

		Sex			
		both	male	female	Total
	N	5	1	1	7
	NS	5	1	1	6
	Wt	58.96	13.27	9.87	82.09
Het	Chi	10.73	0.00	0.00	11.95
Het	df	4	0	0	6
Het	P	*	N.S.	N.S.	(*)
Fixed	RR	1.34	1.63	1.89	1.44
	RRl	1.04	0.95	1.01	1.16
	RRu	1.74	2.78	3.54	1.79
	P	+	(+)	+	+++
Random	RR	1.49	1.63	1.89	1.54
	RRl	0.92	0.95	1.01	1.11
	RRu	2.42	2.78	3.54	2.14
	P	N.S.	(+)	+	+
Between	Chi				1.21
Between	df				2
Between	P				N.S.

Appendix Table E1 - 7

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
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	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	ARSHAD	AZIZI	BALL	BARRET	BECKET	BENER	BERGMA	BRABIN
	BURCHF	BURR	BUTZ	CALL	CHEN1	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI2	DAIGLE	DEBENE	DEKKER	DEKOK	DELL
	DIJKST	DODGE	DOLD	DOTTER	ECE	EHRLI1	EHRLI2	FAGBUL	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2
	FORAST	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN
	HABY	HAJNAL	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES	INFANT	JAAKKO	JENKIN	JONES	KALYO1	KALYO2	KAPLAN	KARUNA
	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KNIGHT	KUEHR	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEEDER	LEEN
	LEROUX	LILLJE	LINDFO	LIS	LISTER	LOPEZC	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MELIA	MELSOM	MOHAME	MONTEF	MOUSSA
	MOYES1	MOYES2	MUMCUO	MURRAY	NILSSO	NITTA	NYSTAD	OCONNE	ODDY	OHARA	OLIVET	PALMIE	PETERS	PIC	POKHAR	PONSON
	RASANE	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK	SANZOR	SARRAZ	SCHENK	SCHMIT	SELCUK	SENNHA
	SHAMSS	SHERMA	SHOHAT	SIGURS	SOMERV	SOTOQU	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN1	STERN2	STODDA	STRACH	TAYLOR
	TIMONE	TOMINA	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG	WEITZ1	WEITZ2	WILLE1	WILLE2	WITHER
	WOLFO1	WOLFO2	WOLFO3	XU	YANG	ZEIGER	ZEJDA	ZHENG								

Appendix Table E1 - 8

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA	RR	SIG
NHANE3	33	b	1	7	11	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood	*	n

Appendix Table E2 -

IESAST - Meta-analysis of In Life Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)

This analysis is restricted to results for:
1) Exposure in life only (i.e. no in utero exposure)
2) Results not by amount of exposure
3) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:
4) ASTHMA : lifetime, current
5) EXPOS : in life element of exposure/non-exposure refers to Biochemical, Household (overall), Parent (mother), Parent (father)
6) RACE : all in study or nearest available, otherwise by race
7) ONSET : yes, no (prevalence)
8) 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 E2 - 1

IESAST - Meta-analysis of In Life Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA
AGABI1	58	b	c	6	7	all	Eu:Ita	1994	1999	CC	11	Mother	current	NotMothr	non	-
AGABI2	58	b	c	13	14	all	Eu:Ita	1994	1999	CC	12	Mother	current	NotMothr	non	-
CUNNI1	14	b	c	8	11	all	NAmer	1988	1996	CS	9	AnyHh	lifenotcurr	NoHhMemb	othr	-
GILLIL	1	m	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
GILLIL	9	f	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
NHANE3	31	b	l	4	6	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood
TARIQ	7	b	c	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	in life	NotMothr	non	-

Appendix Table E2 - 2

IESAST - Meta-analysis of In Life Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed Case	Cont	Non-exposed Case	Cont	RR	95.00%CI
AGABI1	58	b	11	172	-	536	-	1.05	(0.88- 1.26)
AGABI2	58	b	12	282	-	780	-	1.14	(0.99- 1.33)
CUNNI1	14	b	9	-	-	-	-	0.99	(0.78- 1.25)
GILLIL	1	m	3	-	-	-	-	1.00	(0.80- 1.30)
GILLIL	9	f	3	-	-	-	-	1.10	(0.80- 1.40)
Subtotal GILLIL								1.04	(0.87- 1.25)
NHANE3	31	b	4	-	-	-	-	2.29	(0.91- 5.01)
TARIQ	7	b	0	16	99	121	732	0.98	(0.56- 1.72)
Partial Totals				470	99	1437	732		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	58	b	11	0.05	119.26	0.08	0.5942
AGABI2	58	b	12	0.13	176.29	0.56	0.0819
CUNNI1	14	b	9	-0.01	69.09	0.49	0.9334
GILLIL	1	m	3	0.00	65.19	0.36	1.0000
GILLIL	9	f	3	0.10	49.07	0.02	0.5044
Subtotal GILLIL				-0.05	114.25	0.38	
NHANE3	31	b	4	0.83	5.28	3.00	0.0569
TARIQ	7	b	0	-0.02	12.16	0.11	0.9373

RR data

	N	7
	NS	6
	Wt	496.34
Het	Chi	4.64
Het	df	6
Het	P	N.S.
Fixed	RR	1.08
	RRl	0.99
	RRu	1.18
	P	(+)
Random	RR	1.08
	RRl	0.99
	RRu	1.18
	P	(+)
Asymm	P	N.S.

Appendix Table E2 - 3

IESAST - Meta-analysis of In Life Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

RR data

	N	7
	NS	6
	Wt	496.34
Het	Chi	4.64
Het	df	6
Het	P	N.S.
Fixed	RR	1.08
	RRl	0.99
	RRu	1.18
	P	(+)
Random	RR	1.08
	RRl	0.99
	RRu	1.18
	P	(+)
Asymm	P	N.S.

		Sex			
		both	male	female	Total
	N	5	1	1	7
	NS	5	1	1	6
	Wt	382.08	65.19	49.07	496.34
Het	Chi	4.21	0.00	0.00	4.64
Het	df	4	0	0	6
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.09	1.00	1.10	1.08
	RRl	0.98	0.78	0.83	0.99
	RRu	1.20	1.27	1.46	1.18
	P	(+)	N.S.	N.S.	(+)
Random	RR	1.09	1.00	1.10	1.08
	RRl	0.98	0.78	0.83	0.99
	RRu	1.21	1.27	1.46	1.18
	P	N.S.	N.S.	N.S.	(+)
Between	Chi				0.42
Between	df				2
Between	P				N.S.

Appendix Table E2 - 4

IESAST - Meta-analysis of In Life Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

REF	NRR	X	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA
AGABI1	51	x	b	c	6	7	all	Eu:Ita	1994	1999	CC	0	Mother	current	NotMothr	non	-
AGABI2	51	x	b	c	13	14	all	Eu:Ita	1994	1999	CC	0	Mother	current	NotMothr	non	-
CUNNI1	14		b	c	8	11	all	NAmer	1988	1996	CS	9	AnyHh	lifenotcurr	NoHhMemb	othr	-
GILLIL	54	x	m	l	7	19	all	NAmer	1993	2001	CS	0	AnyHh	in life	NoHhMemb	non	-
GILLIL	63	x	f	l	7	19	all	NAmer	1993	2001	CS	0	AnyHh	in life	NoHhMemb	non	-
NHANE3	31		b	l	4	6	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood
TARIQ	7		b	c	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	in life	NotMothr	non	-

Appendix Table E2 - 5

IESAST - Meta-analysis of In Life Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed Case	Cont	Non-exposed Case	Cont	RR	95.00%CI
AGABI1	51	b	0	172	2841	536	9140	1.03	(0.87- 1.23)
AGABI2	51	b	0	282	2969	780	9704	1.18	(1.02- 1.36)
CUNNI1	14	b	9	-	-	-	-	0.99	(0.78- 1.25)
GILLIL	54	m	0	87	424	247	1183	0.98	(0.75- 1.29)
GILLIL	63	f	0	67	528	149	1281	1.09	(0.80- 1.48)
Subtotal GILLIL								1.03	(0.84- 1.26)
NHANE3	31	b	4	-	-	-	-	2.29	(0.91- 5.01)
TARIQ	7	b	0	16	99	121	732	0.98	(0.56- 1.72)
Partial Totals				624	6861	1833	22040		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	51	b	0	0.03	122.83	0.34	0.7240
AGABI2	51	b	0	0.17	189.82	1.29	0.0215
CUNNI1	14	b	9	-0.01	69.09	0.62	0.9334
GILLIL	54	m	0	-0.02	53.34	0.55	0.8988
GILLIL	63	f	0	0.09	41.13	0.00	0.5767
Subtotal GILLIL				-0.10	94.48	0.55	
NHANE3	31	b	4	0.83	5.28	2.92	0.0569
TARIQ	7	b	0	-0.02	12.16	0.14	0.9373

RR data

	N	7
	NS	6
	Wt	493.66
Het	Chi	5.86
Het	df	6
Het	P	N.S.
Fixed	RR	1.09
	RRl	1.00
	RRu	1.19
	P	(+)
Random	RR	1.09
	RRl	1.00
	RRu	1.19
	P	(+)
Asymm	P	N.S.

Appendix Table E2 - 6

IESAST - Meta-analysis of In Life Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

RR data

	N	7
	NS	6
	Wt	493.66
Het	Chi	5.86
Het	df	6
Het	P	N.S.
Fixed	RR	1.09
	RRl	1.00
	RRu	1.19
	P	(+)
Random	RR	1.09
	RRl	1.00
	RRu	1.19
	P	(+)
Asymm	P	N.S.

		Sex			
		both	male	female	Total
	N	5	1	1	7
	NS	5	1	1	6
	Wt	399.19	53.34	41.13	493.66
Het	Chi	5.24	0.00	0.00	5.86
Het	df	4	0	0	6
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.10	0.98	1.09	1.09
	RRl	1.00	0.75	0.80	1.00
	RRu	1.22	1.29	1.48	1.19
	P	(+)	N.S.	N.S.	(+)
Random	RR	1.10	0.98	1.09	1.09
	RRl	0.97	0.75	0.80	1.00
	RRu	1.24	1.29	1.48	1.19
	P	N.S.	N.S.	N.S.	(+)
Between	Chi				0.62
Between	df				2
Between	P				N.S.

Appendix Table E2 - 7

IESAST - Meta-analysis of In Life Only Exposure (vs No Exposure In Utero or In Life)
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	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	ARSHAD	AZIZI	BALL	BARRET	BECKET	BENER	BERGMA	BRABIN
	BURCHF	BURR	BUTZ	CALL	CHEN1	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI2	DAIGLE	DEBENE	DEKKER	DEKOK	DELL
	DIJKST	DODGE	DOLD	DOTTER	ECE	EHRLI1	EHRLI2	FAGBUL	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2
	FORAST	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN
	HABY	HAJNAL	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES	INFANT	JAAKKO	JENKIN	JONES	KALYO1	KALYO2	KAPLAN	KARUNA
	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KNIGHT	KUEHR	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEEDER	LEEN
	LEROUX	LILLJE	LINDFO	LIS	LISTER	LOPEZC	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MELIA	MELSOM	MOHAME	MONTEF	MOUSSA
	MOYES1	MOYES2	MUMCUO	MURRAY	NILSSO	NITTA	NYSTAD	OCONNE	ODDY	OHARA	OLIVET	PALMIE	PETERS	PIC	POKHAR	PONSON
	RASANE	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK	SANZOR	SARRAZ	SCHENK	SCHMIT	SELCUK	SENNHA
	SHAMSS	SHERMA	SHOHAT	SIGURS	SOMERV	SOTOQU	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN1	STERN2	STODDA	STRACH	TAYLOR
	TIMONE	TOMINA	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG	WEITZ1	WEITZ2	WILLE1	WILLE2	WITHER
	WOLFO1	WOLFO2	WOLFO3	XU	YANG	ZEIGER	ZEJDA	ZHENG								

Appendix Table E2 - 8

IESAST - Meta-analysis of In Life Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA	RR	SIG
NHANE3	34	b	1	7	11	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood	*	n

Appendix Table E3 -

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)

This analysis is restricted to results for:
1) Exposure both in utero and in life
2) Results not by amount of exposure
3) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:
4) ASTHMA : lifetime, current
5) EXPOS : in life element of exposure/non-exposure refers to Biochemical, Household (overall), Parent (mother), Parent (father)
6) RACE : all in study or nearest available, otherwise by race
7) ONSET : yes, no (prevalence)
8) 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 E3 - 1

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA
AGABI1	60	b	c	6	7	all	Eu:Ita	1994	1999	CC	11	Mother	current	NotMothr	non	-
AGABI2	60	b	c	13	14	all	Eu:Ita	1994	1999	CC	12	Mother	current	NotMothr	non	-
CUNNI1	16	b	c	8	11	all	NAmer	1988	1996	CS	9	AnyHh	lifenotcurr	NoHhMemb	othr	-
GILLIL	3	m	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
GILLIL	11	f	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
HAJNAL	4	b	l	6	14	all	Eu:wst	1992	1999	CS	13	Mother	current	NotMothr	non	-
NHANE3	29	b	l	4	6	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood
STERN2	1	b	l	7	12	all	NAmer	*	1989	CS	0	Mother	<2y	NotMothr	non	-
TARIQ	9	b	c	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	in life	NotMothr	non	-

Appendix Table E3 - 2

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed Case	Cont	Non-exposed Case	Cont	RR	95.00%CI
AGABI1	60	b	11	178	-	536	-	1.52	(1.27- 1.83)
AGABI2	60	b	12	172	-	780	-	1.21	(1.02- 1.45)
CUNNI1	16	b	9	-	-	-	-	0.96	(0.63- 1.48)
GILLIL	3	m	3	-	-	-	-	1.10	(0.80- 1.40)
GILLIL	11	f	3	-	-	-	-	1.60	(1.20- 2.20)
Subtotal GILLIL								1.31	(1.06- 1.61)
HAJNAL	4	b	13	-	-	-	-	1.31	(0.92- 1.85)
NHANE3	29	b	4	-	-	-	-	3.16	(1.10- 9.12)
STERN2	1	b	0	-	-	-	-	1.43	(1.09- 1.88)
TARIQ	9	b	0	32	160	121	732	1.21	(0.79- 1.85)
Partial Totals				382	160	1437	732		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	60	b	11	0.42	115.15	2.09	0.0000
AGABI2	60	b	12	0.19	124.18	1.08	0.0337
CUNNI1	16	b	9	-0.04	21.06	2.22	0.8514
GILLIL	3	m	3	0.10	49.07	1.75	0.5044
GILLIL	11	f	3	0.47	41.82	1.45	0.0024
Subtotal GILLIL				-0.00	90.89	3.19	
HAJNAL	4	b	13	0.27	31.49	0.01	0.1297
NHANE3	29	b	4	1.15	3.43	2.58	0.0330
STERN2	1	b	0	0.36	51.71	0.28	0.0101
TARIQ	9	b	0	0.19	21.22	0.18	0.3801

RR data

	N	9
	NS	8
	Wt	459.14
Het	Chi	11.64
Het	df	8
Het	P	N.S.
Fixed	RR	1.33
	RRl	1.21
	RRu	1.46
	P	+++
Random	RR	1.32
	RRl	1.18
	RRu	1.49
	P	+++
Asymm	P	N.S.

Appendix Table E3 - 3

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

RR data

	N	9
	NS	8
	Wt	459.14
Het	Chi	11.64
Het	df	8
Het	P	N.S.
Fixed	RR	1.33
	RRl	1.21
	RRu	1.46
	P	+++
Random	RR	1.32
	RRl	1.18
	RRu	1.49
	P	+++
Asymm	P	N.S.

		Sex			
		both	male	female	Total
	N	7	1	1	9
	NS	7	1	1	8
	Wt	368.25	49.07	41.82	459.14
Het	Chi	8.44	0.00	0.00	11.64
Het	df	6	0	0	8
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.33	1.10	1.60	1.33
	RRl	1.20	0.83	1.18	1.21
	RRu	1.48	1.46	2.17	1.46
	P	+++	N.S.	++	+++
Random	RR	1.33	1.10	1.60	1.32
	RRl	1.16	0.83	1.18	1.18
	RRu	1.52	1.46	2.17	1.49
	P	+++	N.S.	++	+++
Between	Chi				3.20
Between	df				2
Between	P				N.S.

Appendix Table E3 - 4

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

REF	NRR	X	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA
AGABI1	53	x	b	c	6	7	all	Eu:Ita	1994	1999	CC	0	Mother	current	NotMothr	non	-
AGABI2	53	x	b	c	13	14	all	Eu:Ita	1994	1999	CC	0	Mother	current	NotMothr	non	-
CUNNI1	16		b	c	8	11	all	NAmer	1988	1996	CS	9	AnyHh	lifenotcurr	NoHhMemb	othr	-
GILLIL	56	x	m	l	7	19	all	NAmer	1993	2001	CS	0	AnyHh	in life	NoHhMemb	non	-
GILLIL	65	x	f	l	7	19	all	NAmer	1993	2001	CS	0	AnyHh	in life	NoHhMemb	non	-
HAJNAL	4		b	l	6	14	all	Eu:wst	1992	1999	CS	13	Mother	current	NotMothr	non	-
NHANE3	29		b	l	4	6	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood
STERN2	1		b	l	7	12	all	NAmer	*	1989	CS	0	Mother	<2y	NotMothr	non	-
TARIQ	9		b	c	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	in life	NotMothr	non	-

Appendix Table E3 - 5

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

REF	NRR	SEX	ADJ	Numbers Exposed Case	Cont	Non-exposed Case	Cont	RR	95.00%CI
AGABI1	53	b	0	178	1989	536	9140	1.53	(1.28- 1.82)
AGABI2	53	b	0	172	1653	780	9704	1.29	(1.09- 1.54)
CUNNI1	16	b	9	-	-	-	-	0.96	(0.63- 1.48)
GILLIL	56	m	0	62	301	247	1183	0.99	(0.73- 1.34)
GILLIL	65	f	0	63	337	149	1281	1.61	(1.17- 2.21)
Subtotal GILLIL								1.25	(1.00- 1.55)
HAJNAL	4	b	13	-	-	-	-	1.31	(0.92- 1.85)
NHANE3	29	b	4	-	-	-	-	3.16	(1.10- 9.12)
STERN2	1	b	0	-	-	-	-	1.43	(1.09- 1.88)
TARIQ	9	b	0	32	160	121	732	1.21	(0.79- 1.85)
Partial Totals				507	4440	1833	22040		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	53	b	0	0.42	123.52	1.93	0.0000
AGABI2	53	b	0	0.26	128.14	0.20	0.0035
CUNNI1	16	b	9	-0.04	21.06	2.42	0.8514
GILLIL	56	m	0	-0.01	41.08	3.98	0.9308
GILLIL	65	f	0	0.47	37.98	1.19	0.0035
Subtotal GILLIL				-0.13	79.05	5.17	
HAJNAL	4	b	13	0.27	31.49	0.02	0.1297
NHANE3	29	b	4	1.15	3.43	2.50	0.0330
STERN2	1	b	0	0.36	51.71	0.19	0.0101
TARIQ	9	b	0	0.19	21.22	0.24	0.3801

RR data

	N	9
	NS	8
	Wt	459.63
Het	Chi	12.66
Het	df	8
Het	P	N.S.
Fixed	RR	1.35
	RRl	1.23
	RRu	1.48
	P	+++
Random	RR	1.33
	RRl	1.17
	RRu	1.51
	P	+++
Asymm	P	N.S.

Appendix Table E3 - 6

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Unadjusted

RR data

	N	9
	NS	8
	Wt	459.63
Het	Chi	12.66
Het	df	8
Het	P	N.S.
Fixed	RR	1.35
	RRl	1.23
	RRu	1.48
	P	+++
Random	RR	1.33
	RRl	1.17
	RRu	1.51
	P	+++
Asymm	P	N.S.

		Sex			
		both	male	female	Total
	N	7	1	1	9
	NS	7	1	1	8
	Wt	380.58	41.08	37.98	459.63
Het	Chi	7.40	0.00	0.00	12.66
Het	df	6	0	0	8
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.37	0.99	1.61	1.35
	RRl	1.24	0.73	1.17	1.23
	RRu	1.51	1.34	2.21	1.48
	P	+++	N.S.	++	+++
Random	RR	1.36	0.99	1.61	1.33
	RRl	1.21	0.73	1.17	1.17
	RRu	1.53	1.34	2.21	1.51
	P	+++	N.S.	++	+++
Between	Chi				5.27
Between	df				2
Between	P				(*)

Appendix Table E3 - 7

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
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	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	ARSHAD	AZIZI	BALL	BARRET	BECKET	BENER	BERGMA	BRABIN
	BURCHF	BURR	BUTZ	CALL	CHEN1	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI2	DAIGLE	DEBENE	DEKKER	DEKOK	DELL
	DIJKST	DODGE	DOLD	DOTTER	ECE	EHRLI1	EHRLI2	FAGBUL	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2
	FORAST	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN
	HABY	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES	INFANT	JAAKKO	JENKIN	JONES	KALYO1	KALYO2	KAPLAN	KARUNA	KAY
	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KNIGHT	KUEHR	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEEDER	LEEN	LEROUX
	LILLJE	LINDFO	LIS	LISTER	LOPEZC	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MELIA	MELSOM	MOHAME	MONTEF	MOUSSA	MOYES1
	MOYES2	MUMCUO	MURRAY	NILSSO	NITTA	NYSTAD	OCONNE	ODDY	OHARA	OLIVET	PALMIE	PETERS	PIC	POKHAR	PONSON	RASANE
	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK	SANZOR	SARRAZ	SCHENK	SCHMIT	SELCUK	SENNHA	SHAMSS
	SHERMA	SHOHAT	SIGURS	SOMERV	SOTOQU	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN1	STODDA	STRACH	TAYLOR	TIMONE	TOMINA
	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG	WEITZ1	WEITZ2	WILLE1	WILLE2	WITHER	WOLFO1	WOLFO2
	WOLFO3	XU	YANG	ZEIGER	ZEJDA	ZHENG										

Appendix Table E3 - 8

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Potentially overlapping studies

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

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA	RR	SIG
NHANE3	32	b	1	7	11	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood	*	n
STERN2	3	b	1	7	12	all	NAmer	*	1989	CS	3	Mother	<2y	NotMothr	non	-	*	y

Appendix Table E4 -

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)

This analysis is restricted to results for:
1) Exposure in utero only (i.e. no in life exposure)
2) Results not by amount of exposure
3) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:
4) ASTHMA : lifetime, current
5) EXPOS : in life element of exposure/nonexposure refers to Biochemical, Household (overall), Parent (father), Parent (mother)
6) RACE : all in study or nearest available, otherwise by race
7) ONSET : yes, no (prevalence)
8) 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 E4 - 1

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	CompE1	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA
AGABI1	73	x	b	c	6	7	all	Eu:Ita	1994	1999	CC	11	Father	current	NotFathr	non	-
AGABI2	73	x	b	c	13	14	all	Eu:Ita	1994	1999	CC	12	Father	current	NotFathr	non	-
CUNNI1	15		b	c	8	11	all	NAmer	1988	1996	CS	9	AnyHh	lifenotcurr	NoHhMemb	othr	-
GILLIL	2		m	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
GILLIL	10		f	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
NHANE3	30		b	l	4	6	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood
TARIQ	8		b	c	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	in life	NotMothr	non	-

Appendix Table E4 - 2

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed Case	Cont	Non-exposed Case	Cont	RR	95.00%CI
AGABI1	73	b	11	82	-	383	-	1.23	(0.96- 1.58)
AGABI2	73	b	12	222	-	475	-	1.20	(1.02- 1.41)
CUNNI1	15	b	9	-	-	-	-	2.70	(1.13- 6.45)
GILLIL	2	m	3	-	-	-	-	1.70	(1.10- 2.90)
GILLIL	10	f	3	-	-	-	-	1.90	(1.10- 3.50)
Subtotal GILLIL								1.78	(1.23- 2.58)
NHANE3	30	b	4	-	-	-	-	2.63	(0.30- 25.12)
TARIQ	8	b	0	12	46	121	732	1.58	(0.81- 3.07)
Partial Totals				316	46	979	732		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	73	b	11	0.21	61.90	0.18	0.1034
AGABI2	73	b	12	0.18	146.57	0.90	0.0273
CUNNI1	15	b	9	0.99	5.06	2.72	0.0254
GILLIL	2	m	3	0.53	16.35	1.19	0.0319
GILLIL	10	f	3	0.64	11.47	1.67	0.0297
Subtotal GILLIL				0.65	27.82	2.86	
NHANE3	30	b	4	0.97	0.78	0.39	0.3919
TARIQ	8	b	0	0.46	8.72	0.33	0.1779

RR data

	N	7
	NS	6
	Wt	250.85
Het	Chi	7.38
Het	df	6
Het	P	N.S.
Fixed	RR	1.30
	RRl	1.15
	RRu	1.47
	P	+++
Random	RR	1.36
	RRl	1.15
	RRu	1.61
	P	+++
Asymm	P	**

Appendix Table E4 - 3

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

RR data

	N	7
	NS	6
	Wt	250.85
Het	Chi	7.38
Het	df	6
Het	P	N.S.
Fixed	RR	1.30
	RRl	1.15
	RRu	1.47
	P	+++
Random	RR	1.36
	RRl	1.15
	RRu	1.61
	P	+++
Asymm	P	**

		Sex			
		both	male	female	Total
	N	5	1	1	7
	NS	5	1	1	6
	Wt	223.03	16.35	11.47	250.85
Het	Chi	4.17	0.00	0.00	7.38
Het	df	4	0	0	6
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.25	1.70	1.90	1.30
	RRl	1.09	1.05	1.07	1.15
	RRu	1.42	2.76	3.39	1.47
	P	+++	+	+	+++
Random	RR	1.25	1.70	1.90	1.36
	RRl	1.09	1.05	1.07	1.15
	RRu	1.45	2.76	3.39	1.61
	P	++	+	+	+++
Between	Chi				3.21
Between	df				2
Between	P				N.S.

Appendix Table E4 - 7

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
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	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	ARSHAD	AZIZI	BALL	BARRET	BECKET	BENER	BERGMA	BRABIN
	BURCHF	BURR	BUTZ	CALL	CHEN1	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI2	DAIGLE	DEBENE	DEKKER	DEKOK	DELL
	DIJKST	DODGE	DOLD	DOTTER	ECE	EHRLI1	EHRLI2	FAGBUL	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2
	FORAST	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN
	HABY	HAJNAL	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES	INFANT	JAAKKO	JENKIN	JONES	KALYO1	KALYO2	KAPLAN	KARUNA
	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KNIGHT	KUEHR	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEEDER	LEEN
	LEROUX	LILLJE	LINDFO	LIS	LISTER	LOPEZC	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MELIA	MELSOM	MOHAME	MONTEF	MOUSSA
	MOYES1	MOYES2	MUMCUO	MURRAY	NILSSO	NITTA	NYSTAD	OCONNE	ODDY	OHARA	OLIVET	PALMIE	PETERS	PIC	POKHAR	PONSON
	RASANE	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK	SANZOR	SARRAZ	SCHENK	SCHMIT	SELCUK	SENNHA
	SHAMSS	SHERMA	SHOHAT	SIGURS	SOMERV	SOTOQU	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN1	STERN2	STODDA	STRACH	TAYLOR
	TIMONE	TOMINA	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG	WEITZ1	WEITZ2	WILLE1	WILLE2	WITHER
	WOLFO1	WOLFO2	WOLFO3	XU	YANG	ZEIGER	ZEJDA	ZHENG								

Appendix Table E4 - 8

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA	RR	SIG
NHANE3	33	b	1	7	11	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood	*	n

Appendix Table E5 -

IESAST - Meta-analysis of In Life Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)

This analysis is restricted to results for:
1) Exposure in life only (i.e. no in utero exposure)
2) Results not by amount of exposure
3) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:
4) ASTHMA : lifetime, current
5) EXPOS : in life element of exposure/nonexposure refers to Biochemical, Household (overall), Parent (father), Parent (mother)
6) RACE : all in study or nearest available, otherwise by race
7) ONSET : yes, no (prevalence)
8) 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 E2 - 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 E5 - 1

IESAST - Meta-analysis of In Life Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	CompE2	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA
AGABI1	72	x	b	c	6	7	all	Eu:Ita	1994	1999	CC	11	Father	current	NotFathr	non	-
AGABI2	72	x	b	c	13	14	all	Eu:Ita	1994	1999	CC	12	Father	current	NotFathr	non	-
CUNNI1	14		b	c	8	11	all	NAmer	1988	1996	CS	9	AnyHh	lifenotcurr	NoHhMemb	othr	-
GILLIL	1		m	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
GILLIL	9		f	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
NHANE3	31		b	l	4	6	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood
TARIQ	7		b	c	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	in life	NotMothr	non	-

Appendix Table E5 - 2

IESAST - Meta-analysis of In Life Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed Case	Cont	Non-exposed Case	Cont	RR	95.00%CI
AGABI1	72	b	11	78	-	383	-	1.18	(0.92- 1.52)
AGABI2	72	b	12	83	-	475	-	0.97	(0.76- 1.24)
CUNNI1	14	b	9	-	-	-	-	0.99	(0.78- 1.25)
GILLIL	1	m	3	-	-	-	-	1.00	(0.80- 1.30)
GILLIL	9	f	3	-	-	-	-	1.10	(0.80- 1.40)
Subtotal GILLIL								1.04	(0.87- 1.25)
NHANE3	31	b	4	-	-	-	-	2.29	(0.91- 5.01)
TARIQ	7	b	0	16	99	121	732	0.98	(0.56- 1.72)
Partial Totals				177	99	979	732		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	72	b	11	0.17	60.95	0.82	0.1963
AGABI2	72	b	12	-0.03	64.12	0.41	0.8073
CUNNI1	14	b	9	-0.01	69.09	0.25	0.9334
GILLIL	1	m	3	0.00	65.19	0.16	1.0000
GILLIL	9	f	3	0.10	49.07	0.10	0.5044
Subtotal GILLIL				-0.00	114.25	0.26	
NHANE3	31	b	4	0.83	5.28	3.20	0.0569
TARIQ	7	b	0	-0.02	12.16	0.06	0.9373

RR data

	N	7
	NS	6
	Wt	325.85
Het	Chi	5.01
Het	df	6
Het	P	N.S.
Fixed	RR	1.05
	RRl	0.94
	RRu	1.17
	P	N.S.
Random	RR	1.05
	RRl	0.94
	RRu	1.17
	P	N.S.
Asymm	P	N.S.

Appendix Table E5 - 3

IESAST - Meta-analysis of In Life Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

RR data

	N	7
	NS	6
	Wt	325.85
Het	Chi	5.01
Het	df	6
Het	P	N.S.
Fixed	RR	1.05
	RRl	0.94
	RRu	1.17
	P	N.S.
Random	RR	1.05
	RRl	0.94
	RRu	1.17
	P	N.S.
Asymm	P	N.S.

		Sex			
		both	male	female	Total
	N	5	1	1	7
	NS	5	1	1	6
	Wt	211.60	65.19	49.07	325.85
Het	Chi	4.74	0.00	0.00	5.01
Het	df	4	0	0	6
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.06	1.00	1.10	1.05
	RRl	0.92	0.78	0.83	0.94
	RRu	1.21	1.27	1.46	1.17
	P	N.S.	N.S.	N.S.	N.S.
Random	RR	1.06	1.00	1.10	1.05
	RRl	0.91	0.78	0.83	0.94
	RRu	1.24	1.27	1.46	1.17
	P	N.S.	N.S.	N.S.	N.S.
Between	Chi				0.27
Between	df				2
Between	P				N.S.

Appendix Table E5 - 7

IESAST - Meta-analysis of In Life Only Exposure (vs No Exposure In Utero or In Life)
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	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	ARSHAD	AZIZI	BALL	BARRET	BECKET	BENER	BERGMA	BRABIN
	BURCHF	BURR	BUTZ	CALL	CHEN1	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI2	DAIGLE	DEBENE	DEKKER	DEKOK	DELL
	DIJKST	DODGE	DOLD	DOTTER	ECE	EHRLI1	EHRLI2	FAGBUL	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2
	FORAST	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN
	HABY	HAJNAL	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES	INFANT	JAAKKO	JENKIN	JONES	KALYO1	KALYO2	KAPLAN	KARUNA
	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KNIGHT	KUEHR	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEEDER	LEEN
	LEROUX	LILLJE	LINDFO	LIS	LISTER	LOPEZC	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MELIA	MELSOM	MOHAME	MONTEF	MOUSSA
	MOYES1	MOYES2	MUMCUO	MURRAY	NILSSO	NITTA	NYSTAD	OCONNE	ODDY	OHARA	OLIVET	PALMIE	PETERS	PIC	POKHAR	PONSON
	RASANE	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK	SANZOR	SARRAZ	SCHENK	SCHMIT	SELCUK	SENNHA
	SHAMSS	SHERMA	SHOHAT	SIGURS	SOMERV	SOTOQU	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN1	STERN2	STODDA	STRACH	TAYLOR
	TIMONE	TOMINA	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG	WEITZ1	WEITZ2	WILLE1	WILLE2	WITHER
	WOLFO1	WOLFO2	WOLFO3	XU	YANG	ZEIGER	ZEJDA	ZHENG								

Appendix Table E5 - 8

IESAST - Meta-analysis of In Life Only Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA	RR	SIG
NHANE3	34	b	1	7	11	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood	*	n

Appendix Table E6 -

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)

This analysis is restricted to results for:
1) Exposure both in utero and in life
2) Results not by amount of exposure
3) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:
4) ASTHMA : lifetime, current
5) EXPOS : in life element of exposure/nonexposure refers to Biochemical, Household (overall), Parent (father), Parent (mother)
6) RACE : all in study or nearest available, otherwise by race
7) ONSET : yes, no (prevalence)
8) 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 E3 - 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 E6 - 1

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	CompE3	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA
AGABI1	74	x	b	c	6	7	all	Eu:Ita	1994	1999	CC	11	Father	current	NotFathr	non	-
AGABI2	74	x	b	c	13	14	all	Eu:Ita	1994	1999	CC	12	Father	current	NotFathr	non	-
CUNNI1	16		b	c	8	11	all	NAmer	1988	1996	CS	9	AnyHh	lifenotcurr	NoHhMemb	othr	-
GILLIL	3		m	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
GILLIL	11		f	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
HAJNAL	4		b	l	6	14	all	Eu:wst	1992	1999	CS	13	Mother	current	NotMothr	non	-
NHANE3	29		b	l	4	6	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood
STERN2	1		b	l	7	12	all	NAmer	*	1989	CS	0	Mother	<2y	NotMothr	non	-
TARIQ	9		b	c	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	in life	NotMothr	non	-

Appendix Table E6 - 2

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed Case	Cont	Non-exposed Case	Cont	RR	95.00%CI
AGABI1	74	b	11	350	-	383	-	1.19	(1.02- 1.39)
AGABI2	74	b	12	444	-	475	-	1.10	(0.86- 1.40)
CUNNI1	16	b	9	-	-	-	-	0.96	(0.63- 1.48)
GILLIL	3	m	3	-	-	-	-	1.10	(0.80- 1.40)
GILLIL	11	f	3	-	-	-	-	1.60	(1.20- 2.20)
Subtotal GILLIL								1.31	(1.06- 1.61)
HAJNAL	4	b	13	-	-	-	-	1.31	(0.92- 1.85)
NHANE3	29	b	4	-	-	-	-	3.16	(1.10- 9.12)
STERN2	1	b	0	-	-	-	-	1.43	(1.09- 1.88)
TARIQ	9	b	0	32	160	121	732	1.21	(0.79- 1.85)
Partial Totals				826	160	979	732		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	74	b	11	0.17	160.41	0.19	0.0276
AGABI2	74	b	12	0.10	64.71	0.82	0.4433
CUNNI1	16	b	9	-0.04	21.06	1.30	0.8514
GILLIL	3	m	3	0.10	49.07	0.62	0.5044
GILLIL	11	f	3	0.47	41.82	2.87	0.0024
Subtotal GILLIL				0.15	90.89	3.49	
HAJNAL	4	b	13	0.27	31.49	0.12	0.1297
NHANE3	29	b	4	1.15	3.43	3.05	0.0330
STERN2	1	b	0	0.36	51.71	1.16	0.0101
TARIQ	9	b	0	0.19	21.22	0.01	0.3801

RR data

N		9
NS		8
	Wt	444.93
Het	Chi	10.14
Het	df	8
Het	P	N.S.
Fixed	RR	1.23
	RRl	1.12
	RRu	1.35
	P	+++
Random	RR	1.24
	RRl	1.11
	RRu	1.39
	P	+++
Asymm	P	N.S.

Appendix Table E6 - 3

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Adjusted

RR data

	N	9
	NS	8
	Wt	444.93
Het	Chi	10.14
Het	df	8
Het	P	N.S.
Fixed	RR	1.23
	RRl	1.12
	RRu	1.35
	P	+++
Random	RR	1.24
	RRl	1.11
	RRu	1.39
	P	+++
Asymm	P	N.S.

		Sex			
		both	male	female	Total
	N	7	1	1	9
	NS	7	1	1	8
	Wt	354.04	49.07	41.82	444.93
Het	Chi	6.57	0.00	0.00	10.14
Het	df	6	0	0	8
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.21	1.10	1.60	1.23
	RRl	1.09	0.83	1.18	1.12
	RRu	1.35	1.46	2.17	1.35
	P	+++	N.S.	++	+++
Random	RR	1.22	1.10	1.60	1.24
	RRl	1.08	0.83	1.18	1.11
	RRu	1.36	1.46	2.17	1.39
	P	+++	N.S.	++	+++
Between	Chi				3.58
Between	df				2
Between	P				N.S.

Appendix Table E6 - 7

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
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	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	ARSHAD	AZIZI	BALL	BARRET	BECKET	BENER	BERGMA	BRABIN
	BURCHF	BURR	BUTZ	CALL	CHEN1	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI2	DAIGLE	DEBENE	DEKKER	DEKOK	DELL
	DIJKST	DODGE	DOLD	DOTTER	ECE	EHRLI1	EHRLI2	FAGBUL	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2
	FORAST	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN
	HABY	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES	INFANT	JAAKKO	JENKIN	JONES	KALYO1	KALYO2	KAPLAN	KARUNA	KAY
	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KNIGHT	KUEHR	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEEDER	LEEN	LEROUX
	LILLJE	LINDFO	LIS	LISTER	LOPEZC	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MELIA	MELSOM	MOHAME	MONTEF	MOUSSA	MOYES1
	MOYES2	MUMCUO	MURRAY	NILSSO	NITTA	NYSTAD	OCONNE	ODDY	OHARA	OLIVET	PALMIE	PETERS	PIC	POKHAR	PONSON	RASANE
	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK	SANZOR	SARRAZ	SCHENK	SCHMIT	SELCUK	SENNHA	SHAMSS
	SHERMA	SHOHAT	SIGURS	SOMERV	SOTOQU	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN1	STODDA	STRACH	TAYLOR	TIMONE	TOMINA
	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG	WEITZ1	WEITZ2	WILLE1	WILLE2	WITHER	WOLFO1	WOLFO2
	WOLFO3	XU	YANG	ZEIGER	ZEJDA	ZHENG										

Appendix Table E6 - 8

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Lifetime Asthma (or Current if Lifetime not available)
Potentially overlapping studies

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

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA	RR	SIG
NHANE3	32	b	1	7	11	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood	*	n
STERN2	3	b	1	7	12	all	NAmer	*	1989	CS	3	Mother	<2y	NotMothr	non	-	*	y

Appendix Table E7 -

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Current Asthma (or Lifetime if Current not available)

This analysis is restricted to results for:
1) Exposure in utero only (i.e. no in life exposure)
2) Results not by amount of exposure
3) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:
4) ASTHMA : current, lifetime
5) EXPOS : in life element of exposure/non-exposure refers to Biochemical, Household (overall), Parent (mother), Parent (father)
6) RACE : all in study or nearest available, otherwise by race
7) ONSET : yes, no (prevalence)
8) 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 E7 - 1

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	CompE1	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA
AGABI1	59		b	c	6	7	all	Eu:Ita	1994	1999	CC	11	Mother	current	NotMothr	non	-
AGABI2	59		b	c	13	14	all	Eu:Ita	1994	1999	CC	12	Mother	current	NotMothr	non	-
CUNNI1	15		b	c	8	11	all	NAmer	1988	1996	CS	9	AnyHh	lifenotcurr	NoHhMemb	othr	-
GILLIL	2		m	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
GILLIL	10		f	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
NHANE3	63	x	b	c	4	6	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood
TARIQ	8		b	c	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	in life	NotMothr	non	-

Appendix Table E7 - 2

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed Case	Cont	Non-exposed Case	Cont	RR	95.00%CI
AGABI1	59	b	11	26	-	536	-	1.72	(1.13- 2.63)
AGABI2	59	b	12	24	-	780	-	0.69	(0.45- 1.05)
CUNNI1	15	b	9	-	-	-	-	2.70	(1.13- 6.45)
GILLIL	2	m	3	-	-	-	-	1.70	(1.10- 2.90)
GILLIL	10	f	3	-	-	-	-	1.90	(1.10- 3.50)
Subtotal GILLIL								1.78	(1.23- 2.58)
NHANE3	63	b	4	-	-	-	-	1.74	(0.30- 11.48)
TARIQ	8	b	0	12	46	121	732	1.58	(0.81- 3.07)
Partial Totals				62	46	1437	732		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	59	b	11	0.54	21.53	0.85	0.0119
AGABI2	59	b	12	-0.37	21.40	10.92	0.0860
CUNNI1	15	b	9	0.99	5.06	2.14	0.0254
GILLIL	2	m	3	0.53	16.35	0.57	0.0319
GILLIL	10	f	3	0.64	11.47	1.02	0.0297
Subtotal GILLIL				0.49	27.82	1.60	
NHANE3	63	b	4	0.55	1.16	0.05	0.5514
TARIQ	8	b	0	0.46	8.72	0.11	0.1779

RR data

	N	7
	NS	6
	Wt	85.70
Het	Chi	15.67
Het	df	6
Het	P	*
Fixed	RR	1.41
	RRl	1.14
	RRu	1.74
	P	++
Random	RR	1.52
	RRl	1.05
	RRu	2.20
	P	+
Asymm	P	N.S.

Appendix Table E7 - 3

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Current Asthma (or Lifetime if Current not available)
Adjusted

RR data

	N	7
	NS	6
	Wt	85.70
Het	Chi	15.67
Het	df	6
Het	P	*
Fixed	RR	1.41
	RRl	1.14
	RRu	1.74
	P	++
Random	RR	1.52
	RRl	1.05
	RRu	2.20
	P	+
Asymm	P	N.S.

		Sex			
		both	male	female	Total
	N	5	1	1	7
	NS	5	1	1	6
	Wt	57.87	16.35	11.47	85.70
Het	Chi	13.35	0.00	0.00	15.67
Het	df	4	0	0	6
Het	P	**	N.S.	N.S.	*
Fixed	RR	1.26	1.70	1.90	1.41
	RRl	0.97	1.05	1.07	1.14
	RRu	1.63	2.76	3.39	1.74
	P	(+)	+	+	++
Random	RR	1.43	1.70	1.90	1.52
	RRl	0.83	1.05	1.07	1.05
	RRu	2.45	2.76	3.39	2.20
	P	N.S.	+	+	+
Between	Chi				2.32
Between	df				2
Between	P				N.S.

Appendix Table E7 - 7

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
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	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	ARSHAD	AZIZI	BALL	BARRET	BECKET	BENER	BERGMA	BRABIN
	BURCHF	BURR	BUTZ	CALL	CHEN1	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI2	DAIGLE	DEBENE	DEKKER	DEKOK	DELL
	DIJKST	DODGE	DOLD	DOTTER	ECE	EHRLI1	EHRLI2	FAGBUL	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2
	FORAST	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN
	HABY	HAJNAL	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES	INFANT	JAAKKO	JENKIN	JONES	KALYO1	KALYO2	KAPLAN	KARUNA
	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KNIGHT	KUEHR	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEEDER	LEEN
	LEROUX	LILLJE	LINDFO	LIS	LISTER	LOPEZC	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MELIA	MELSOM	MOHAME	MONTEF	MOUSSA
	MOYES1	MOYES2	MUMCUO	MURRAY	NILSSO	NITTA	NYSTAD	OCONNE	ODDY	OHARA	OLIVET	PALMIE	PETERS	PIC	POKHAR	PONSON
	RASANE	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK	SANZOR	SARRAZ	SCHENK	SCHMIT	SELCUK	SENNHA
	SHAMSS	SHERMA	SHOHAT	SIGURS	SOMERV	SOTOQU	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN1	STERN2	STODDA	STRACH	TAYLOR
	TIMONE	TOMINA	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG	WEITZ1	WEITZ2	WILLE1	WILLE2	WITHER
	WOLFO1	WOLFO2	WOLFO3	XU	YANG	ZEIGER	ZEJDA	ZHENG								

Appendix Table E7 - 8

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Current Asthma (or Lifetime if Current not available)
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA	RR	SIG
NHANE3	66	b	c	7	11	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood	*	n

Appendix Table E8 -

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Current Asthma (or Lifetime if Current not available)

This analysis is restricted to results for:
1) Exposure in life only (i.e. no in utero exposure)
2) Results not by amount of exposure
3) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:
4) ASTHMA : current, lifetime
5) EXPOS : in life element of exposure/non-exposure refers to Biochemical, Household (overall), Parent (mother), Parent (father)
6) RACE : all in study or nearest available, otherwise by race
7) ONSET : yes, no (prevalence)
8) 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 E2 - 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 E8 - 1

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	CompE2	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA
AGABI1	58		b	c	6	7	all	Eu:Ita	1994	1999	CC	11	Mother	current	NotMothr	non	-
AGABI2	58		b	c	13	14	all	Eu:Ita	1994	1999	CC	12	Mother	current	NotMothr	non	-
CUNNI1	14		b	c	8	11	all	NAmer	1988	1996	CS	9	AnyHh	lifenotcurr	NoHhMemb	othr	-
GILLIL	1		m	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
GILLIL	9		f	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
NHANE3	64	x	b	c	4	6	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood
TARIQ	7		b	c	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	in life	NotMothr	non	-

Appendix Table E8 - 2

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed Case	Cont	Non-exposed Case	Cont	RR	95.00%CI
AGABI1	58	b	11	172	-	536	-	1.05	(0.88- 1.26)
AGABI2	58	b	12	282	-	780	-	1.14	(0.99- 1.33)
CUNNI1	14	b	9	-	-	-	-	0.99	(0.78- 1.25)
GILLIL	1	m	3	-	-	-	-	1.00	(0.80- 1.30)
GILLIL	9	f	3	-	-	-	-	1.10	(0.80- 1.40)
Subtotal GILLIL								1.04	(0.87- 1.25)
NHANE3	64	b	4	-	-	-	-	4.57	(1.38- 13.80)
TARIQ	7	b	0	16	99	121	732	0.98	(0.56- 1.72)
Partial Totals				470	99	1437	732		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	58	b	11	0.05	119.26	0.08	0.5942
AGABI2	58	b	12	0.13	176.29	0.55	0.0819
CUNNI1	14	b	9	-0.01	69.09	0.50	0.9334
GILLIL	1	m	3	0.00	65.19	0.37	1.0000
GILLIL	9	f	3	0.10	49.07	0.02	0.5044
Subtotal GILLIL				-0.05	114.25	0.39	
NHANE3	64	b	4	1.52	2.90	6.05	0.0097
TARIQ	7	b	0	-0.02	12.16	0.12	0.9373

RR data

	N	7
	NS	6
	Wt	493.95
Het	Chi	7.69
Het	df	6
Het	P	N.S.
Fixed	RR	1.08
	RRl	0.99
	RRu	1.18
	P	(+)
Random	RR	1.07
	RRl	0.97
	RRu	1.20
	P	N.S.
Asymm	P	N.S.

Appendix Table E8 - 3

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Current Asthma (or Lifetime if Current not available)
Adjusted

RR data

	N	7
	NS	6
	Wt	493.95
Het	Chi	7.69
Het	df	6
Het	P	N.S.
Fixed	RR	1.08
	RRl	0.99
	RRu	1.18
	P	(+)
Random	RR	1.07
	RRl	0.97
	RRu	1.20
	P	N.S.
Asymm	P	N.S.

		Sex			
		both	male	female	Total
	N	5	1	1	7
	NS	5	1	1	6
	Wt	379.70	65.19	49.07	493.95
Het	Chi	7.26	0.00	0.00	7.69
Het	df	4	0	0	6
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.09	1.00	1.10	1.08
	RRl	0.98	0.78	0.83	0.99
	RRu	1.20	1.27	1.46	1.18
	P	(+)	N.S.	N.S.	(+)
Random	RR	1.09	1.00	1.10	1.07
	RRl	0.93	0.78	0.83	0.97
	RRu	1.28	1.27	1.46	1.20
	P	N.S.	N.S.	N.S.	N.S.
Between	Chi				0.43
Between	df				2
Between	P				N.S.

Appendix Table E8 - 7

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
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	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	ARSHAD	AZIZI	BALL	BARRET	BECKET	BENER	BERGMA	BRABIN
	BURCHF	BURR	BUTZ	CALL	CHEN1	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI2	DAIGLE	DEBENE	DEKKER	DEKOK	DELL
	DIJKST	DODGE	DOLD	DOTTER	ECE	EHRLI1	EHRLI2	FAGBUL	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2
	FORAST	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN
	HABY	HAJNAL	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES	INFANT	JAAKKO	JENKIN	JONES	KALYO1	KALYO2	KAPLAN	KARUNA
	KAY	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KNIGHT	KUEHR	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEEDER	LEEN
	LEROUX	LILLJE	LINDFO	LIS	LISTER	LOPEZC	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MELIA	MELSOM	MOHAME	MONTEF	MOUSSA
	MOYES1	MOYES2	MUMCUO	MURRAY	NILSSO	NITTA	NYSTAD	OCONNE	ODDY	OHARA	OLIVET	PALMIE	PETERS	PIC	POKHAR	PONSON
	RASANE	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK	SANZOR	SARRAZ	SCHENK	SCHMIT	SELCUK	SENNHA
	SHAMSS	SHERMA	SHOHAT	SIGURS	SOMERV	SOTOQU	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN1	STERN2	STODDA	STRACH	TAYLOR
	TIMONE	TOMINA	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG	WEITZ1	WEITZ2	WILLE1	WILLE2	WITHER
	WOLFO1	WOLFO2	WOLFO3	XU	YANG	ZEIGER	ZEJDA	ZHENG								

Appendix Table E8 - 8

IESAST - Meta-analysis of In Utero Only Exposure (vs No Exposure In Utero or In Life)
Current Asthma (or Lifetime if Current not available)
Potentially overlapping studies

REF	REFGP	PRINC	OVERLAP
GILLIL	GILLIL	1	MCCON1/GILLIL

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA	RR	SIG
NHANE3	67	b	c	7	11	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood	*	n

Appendix Table E9 -

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Current Asthma (or Lifetime if Current not available)

This analysis is restricted to results for:
1) Exposure both in utero and in life
2) Results not by amount of exposure
3) Results complete enough for use in metaanalysis

Within each study, results are then selected (in the following order of preference, within each sex) for:
4) ASTHMA : current, lifetime
5) EXPOS : in life element of exposure/non-exposure refers to Biochemical, Household (overall), Parent (mother), Parent (father)
6) RACE : all in study or nearest available, otherwise by race
7) ONSET : yes, no (prevalence)
8) 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 E3 - 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 E9 - 1

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	CompE3	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA
AGABI1	60		b	c	6	7	all	Eu:Ita	1994	1999	CC	11	Mother	current	NotMothr	non	-
AGABI2	60		b	c	13	14	all	Eu:Ita	1994	1999	CC	12	Mother	current	NotMothr	non	-
CUNNI1	16		b	c	8	11	all	NAmer	1988	1996	CS	9	AnyHh	lifenotcurr	NoHhMemb	othr	-
GILLIL	3		m	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
GILLIL	11		f	l	7	19	all	NAmer	1993	2001	CS	3	AnyHh	in life	NoHhMemb	non	-
HAJNAL	4		b	l	6	14	all	Eu:wst	1992	1999	CS	13	Mother	current	NotMothr	non	-
NHANE3	62	x	b	c	4	6	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood
STERN2	2	x	b	c	7	12	all	NAmer	*	1989	CS	0	Mother	<2y	NotMothr	non	-
TARIQ	9		b	c	4	4	all	Eu:UK	1989	2000	Pr	0	Mother	in life	NotMothr	non	-

Appendix Table E9 - 2

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Current Asthma (or Lifetime if Current not available)
Adjusted

REF	NRR	SEX	ADJ	Numbers Exposed Case	Exposed Cont	Non-exposed Case	Non-exposed Cont	RR	95.00%CI
AGABI1	60	b	11	178	-	536	-	1.52	(1.27- 1.83)
AGABI2	60	b	12	172	-	780	-	1.21	(1.02- 1.45)
CUNNI1	16	b	9	-	-	-	-	0.96	(0.63- 1.48)
GILLIL	3	m	3	-	-	-	-	1.10	(0.80- 1.40)
GILLIL	11	f	3	-	-	-	-	1.60	(1.20- 2.20)
Subtotal GILLIL								1.31	(1.06- 1.61)
HAJNAL	4	b	13	-	-	-	-	1.31	(0.92- 1.85)
NHANE3	62	b	4	-	-	-	-	7.24	(2.51- 20.89)
STERN2	2	b	0	-	-	-	-	0.98	(0.68- 1.41)
TARIQ	9	b	0	32	160	121	732	1.21	(0.79- 1.85)
Partial Totals				382	160	1437	732		

*prospective study

REF	NRR	SEX	ADJ	Ys	Ws	Qs	Ps
AGABI1	60	b	11	0.42	115.15	2.85	0.0000
AGABI2	60	b	12	0.19	124.18	0.62	0.0337
CUNNI1	16	b	9	-0.04	21.06	1.93	0.8514
GILLIL	3	m	3	0.10	49.07	1.36	0.5044
GILLIL	11	f	3	0.47	41.82	1.82	0.0024
Subtotal GILLIL				0.04	90.89	3.17	
HAJNAL	4	b	13	0.27	31.49	0.00	0.1297
NHANE3	62	b	4	1.98	3.42	10.10	0.0003
STERN2	2	b	0	-0.02	28.89	2.29	0.9135
TARIQ	9	b	0	0.19	21.22	0.11	0.3801

RR data

	N	9
	NS	8
	Wt	436.31
Het	Chi	21.07
Het	df	8
Het	P	**
Fixed	RR	1.30
	RRl	1.18
	RRu	1.43
	P	+++
Random	RR	1.29
	RRl	1.09
	RRu	1.53
	P	++
Asymm	P	N.S.

Appendix Table E9 - 3

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Current Asthma (or Lifetime if Current not available)
Adjusted

RR data

	N	9
	NS	8
	Wt	436.31
Het	Chi	21.07
Het	df	8
Het	P	**
Fixed	RR	1.30
	RRl	1.18
	RRu	1.43
	P	+++
Random	RR	1.29
	RRl	1.09
	RRu	1.53
	P	++
Asymm	P	N.S.

		Sex			
		both	male	female	Total
	N	7	1	1	9
	NS	7	1	1	8
	Wt	345.42	49.07	41.82	436.31
Het	Chi	17.90	0.00	0.00	21.07
Het	df	6	0	0	8
Het	P	**	N.S.	N.S.	**
Fixed	RR	1.30	1.10	1.60	1.30
	RRl	1.17	0.83	1.18	1.18
	RRu	1.44	1.46	2.17	1.43
	P	+++	N.S.	++	+++
Random	RR	1.29	1.10	1.60	1.29
	RRl	1.04	0.83	1.18	1.09
	RRu	1.59	1.46	2.17	1.53
	P	+	N.S.	++	++
Between	Chi				3.17
Between	df				2
Between	P				N.S.

Appendix Table E9 - 7

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
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	ALBA	ALDAWO	ALFRA1	ALFRA2	ANDRAE	ANNESI	ARSHAD	AZIZI	BALL	BARRET	BECKET	BENER	BERGMA	BRABIN
	BURCHF	BURR	BUTZ	CALL	CHEN1	CHEN2	CHHABR	CHINN	CLARK	CSONKA	CUNNI2	DAIGLE	DEBENE	DEKKER	DEKOK	DELL
	DIJKST	DODGE	DOLD	DOTTER	ECE	EHRLI1	EHRLI2	FAGBUL	FARBE1	FARBE2	FARBE3	FAROOQ	FERGUS	FIELDE	FLYNN1	FLYNN2
	FORAST	FORSB1	FORSB2	FORSB3	FUJI	GOLD	GOREN1	GOREN2	GOREN3	GOREN4	GOREN5	GOREN6	GORTM1	GORTM2	GUPTA	GURKAN
	HABY	HJERN1	HJERN2	HOST	HU1	HU2	HUGHES	INFANT	JAAKKO	JENKIN	JONES	KALYO1	KALYO2	KAPLAN	KARUNA	KAY
	KEARNE	KELLY	KENDIR	KERSHA	KIVITY	KNIGHT	KUEHR	KUHR	LAM1	LAM2	LAU	LEE1	LEE2	LEEDER	LEEN	LEROUX
	LILLJE	LINDFO	LIS	LISTER	LOPEZC	MAIER	MARTIN	MCCON1	MCCON2	MCKEEV	MELIA	MELSOM	MOHAME	MONTEF	MOUSSA	MOYES1
	MOYES2	MUMCUO	MURRAY	NILSSO	NITTA	NYSTAD	OCONNE	ODDY	OHARA	OLIVET	PALMIE	PETERS	PIC	POKHAR	PONSON	RASANE
	RATAGE	RENNIE	RIBEIR	RONCH1	RONCH2	RONCH3	RONMAR	ROSASV	RUDNIK	SANZOR	SARRAZ	SCHENK	SCHMIT	SELCUK	SENNHA	SHAMSS
	SHERMA	SHOHAT	SIGURS	SOMERV	SOTOQU	SOYSET	SPIEKE	SQUILL	STANHO	STAZI	STERN1	STODDA	STRACH	TAYLOR	TIMONE	TOMINA
	TSIMOY	ULRIK	VARELA	VAVILI	VENNER	VERHOE	VOLKME	VONMAF	WANG	WEITZ1	WEITZ2	WILLE1	WILLE2	WITHER	WOLFO1	WOLFO2
	WOLFO3	XU	YANG	ZEIGER	ZEJDA	ZHENG										

Appendix Table E9 - 8

IESAST - Meta-analysis of Both In Utero and In Life Exposure (vs No Exposure In Utero or In Life)
Current Asthma (or Lifetime if Current not available)
Potentially overlapping studies

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

Adjusted - insufficient data for metaanalysis

REF	NRR	SEX	AST	AGEL	AGEH	RACE	LOC	BEGYR	PUBYR	STTYP	ADJ	EXPOS	EXPOS-time	UNEXsource	UNEXTI	BIOMEA	RR	SIG
NHANE3	65	b	c	7	11	w+b	NAmer	1988	2001	CS	4	Biochem	-	Low	-	blood	*	n
STERN2	4	b	c	7	12	all	NAmer	*	1989	CS	3	Mother	<2y	NotMothr	non	-	*	n