

Table A1 -

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

This analysis is restricted to results for:

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

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

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

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

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 Section -3 and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

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

		Lifetime Asthma Adjusted						
		<u>Overall</u>						
	N	93						
	NS	88						
	Wt	4665.56						
	Het Chi	153.76						
	Het df	92						
	Het P	***						
Fixed	RR	1.24						
	RR1	1.20						
	RRu	1.27						
	P	+++						
Random	RR	1.23						
	RR1	1.17						
	RRu	1.28						
	P	+++						
Asymm	P	N.S.						
		<u>Sex</u>						
		both	male	female	Total			
	N	82	6	5	93			
	Het P	***	(*)	N.S.	***			
Fixed	RR	1.24	1.14	1.12	1.24			
	RR1	1.21	0.98	0.94	1.20			
	RRu	1.28	1.32	1.33	1.27			
	P	+++	(+)	N.S.	+++			
Between	P	N.S.						
		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	30	2	39	13	9		93
	Het P	N.S.	N.S.	**	*	*		***
Fixed	RR	1.27	2.11	1.26	1.16	1.13		1.24
	RR1	1.19	0.95	1.21	1.05	1.05		1.20
	RRu	1.35	4.68	1.31	1.28	1.22		1.27
	P	+++	(+)	+++	++	+++		+++
Between	P	*						
		<u>Country in Europe</u>						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
	N	10	5	6	7	5	6	39
	Het P	*	N.S.	N.S.	*	N.S.	(*)	**
Fixed	RR	1.29	1.28	1.11	1.13	1.18	1.31	1.26
	RR1	1.23	1.08	0.96	0.97	1.02	1.18	1.21
	RRu	1.35	1.51	1.28	1.33	1.38	1.46	1.31
	P	+++	++	N.S.	N.S.	+	+++	+++
Between	P	N.S.						
		<u>Country in Asia</u>						
		FarEast	Cent/SE	MidlEast	Total			
	N	5	2	6	13			
	Het P	N.S.	*	N.S.	*			
Fixed	RR	0.99	1.75	1.31	1.16			
	RR1	0.87	1.10	1.14	1.05			
	RRu	1.14	2.79	1.51	1.28			
	P	N.S.	+	+++	++			
Between	P	**						
		<u>Start year of study</u>						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N	5	13	26	38	11	93	
	Het P	N.S.	N.S.	(*)	**	***	***	
Fixed	RR	1.23	1.24	1.27	1.20	1.25	1.24	
	RR1	1.08	1.14	1.19	1.14	1.19	1.20	
	RRu	1.41	1.35	1.36	1.26	1.31	1.27	
	P	++	+++	+++	+++	+++	+++	
Between	P	N.S.						
		<u>Publication year</u>						
		<1990	1990-94	1995-99	2000+	Total		
	N	16	18	33	26	93		
	Het P	*	N.S.	**	*	***		
Fixed	RR	1.14	1.22	1.23	1.26	1.24		
	RR1	1.03	1.14	1.17	1.21	1.20		
	RRu	1.27	1.31	1.29	1.32	1.27		
	P	++	+++	+++	+++	+++		
Between	P	N.S.						

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

		Lifetime Asthma					
		Adjusted					
		Study type					
		CC	Pr	CS	Total		
	N	12	15	66	93		
Het	P	***	N.S.	**	***		
Fixed	RR	1.29	1.27	1.21	1.24		
	RRl	1.10	1.22	1.16	1.20		
	RRu	1.51	1.34	1.25	1.27		
	P	++	+++	+++	+++		
Between	P				N.S.		
		Highest age in RR					
		0-9	10-14	15+	unknown	Total	
	N	19	35	38	1	93	
Het	P	**	**	*	N.S.	***	
Fixed	RR	1.24	1.24	1.23	1.18	1.24	
	RRl	1.15	1.19	1.17	0.62	1.20	
	RRu	1.33	1.29	1.30	2.24	1.27	
	P	+++	+++	+++	N.S.	+++	
Between	P				N.S.	N.S.	
		Population setting					
		general	school	medical	allergy	other	Total
	N	20	45	20	3	5	93
Het	P	N.S.	***	N.S.	N.S.	(*)	***
Fixed	RR	1.25	1.19	1.30	1.16	1.07	1.24
	RRl	1.15	1.14	1.24	0.91	0.91	1.20
	RRu	1.35	1.24	1.37	1.47	1.26	1.27
	P	+++	+++	+++	N.S.	N.S.	+++
Between	P						*
		Respondent for smoking					
		child	parent	med rec	mix/oth	Total	
	N	7	61	3	22	93	
Het	P	**	**	N.S.	N.S.	***	
Fixed	RR	0.99	1.24	1.31	1.21	1.24	
	RRl	0.89	1.19	1.24	1.13	1.20	
	RRu	1.11	1.29	1.38	1.30	1.27	
	P	N.S.	+++	+++	+++	+++	
Between	P					***	
		Child smokers					
		exc/none	included	ignored	Total		
	N	20	7	66	93		
Het	P	N.S.	N.S.	***	***		
Fixed	RR	1.09	1.29	1.25	1.24		
	RRl	1.01	1.17	1.21	1.20		
	RRu	1.19	1.42	1.29	1.27		
	P	+	+++	+++	+++		
Between	P				**		
		Physician diagnosis (lifetime)					
		yes	no/mixed	Total			
	N	53	40	93			
Het	P	**	**	***			
Fixed	RR	1.22	1.26	1.24			
	RRl	1.18	1.20	1.20			
	RRu	1.27	1.33	1.27			
	P	+++	+++	+++			
Between	P			N.S.			
		Respondent for diagnosis (lifetime)					
		medrec	parent	child	mixed	Total	
	N	12	59	10	12	93	
Het	P	N.S.	*	**	N.S.	***	
Fixed	RR	1.30	1.23	1.02	1.25	1.24	
	RRl	1.23	1.19	0.93	1.14	1.20	
	RRu	1.37	1.28	1.13	1.37	1.27	
	P	+++	+++	N.S.	+++	+++	
Between	P					***	

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

		Lifetime Asthma Adjusted					
		Questionnaire for symptoms					
		ISAAC	ATS	other	Total		
	N	13	11	69	93		
Het	P	**	N.S.	***	***		
Fixed	RR	1.16	1.25	1.25	1.24		
	RR1	1.08	1.14	1.21	1.20		
	RRu	1.24	1.36	1.29	1.27		
	P	+++	+++	+++	+++		
Between	P				N.S.		
		Analysis type			Total		
		prevalence	onset				
	N	81	12	93			
Het	P	***	N.S.	***			
Fixed	RR	1.22	1.27	1.24			
	RR1	1.18	1.20	1.20			
	RRu	1.26	1.33	1.27			
	P	+++	+++	+++			
Between	P			N.S.			
		Number of cases (lifetime asthma)					
		1-50	51-100	101-200	201+	unknown	Total
	N	11	15	25	41	1	93
Het	P	(*)	*	**	*	N.S.	***
Fixed	RR	1.50	1.41	1.23	1.22	1.36	1.24
	RR1	1.16	1.21	1.13	1.19	0.99	1.20
	RRu	1.94	1.64	1.34	1.26	1.87	1.27
	P	++	+++	+++	+++	(+)	+++
Between	P						N.S.
		Study adjusts for or is matched on sex					
		Yes	No	Total			
	N	39	54	93			
Het	P	**	**	***			
Fixed	RR	1.23	1.24	1.24			
	RR1	1.17	1.20	1.20			
	RRu	1.29	1.28	1.27			
	P	+++	+++	+++			
Between	P			N.S.			
		Study adjusts for or is matched on age					
	N	22	71	93			
Het	P	**	***	***			
Fixed	RR	1.20	1.24	1.24			
	RR1	1.13	1.20	1.20			
	RRu	1.28	1.29	1.27			
	P	+++	+++	+++			
Between	P			N.S.			
		Study adjusts for or is matched on race					
	N	13	80	93			
Het	P	*	***	***			
Fixed	RR	1.27	1.23	1.24			
	RR1	1.18	1.19	1.20			
	RRu	1.38	1.27	1.27			
	P	+++	+++	+++			
Between	P			N.S.			
		Study adjusts for or is matched on location					
	N	19	74	93			
Het	P	*	***	***			
Fixed	RR	1.18	1.25	1.24			
	RR1	1.11	1.21	1.20			
	RRu	1.25	1.30	1.27			
	P	+++	+++	+++			
Between	P			(*)			

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

Lifetime Asthma				
Adjusted				
<u>Study adjusts for or is matched on SES</u>				
		Yes	No	Total
	N	26	67	93
Het	P	**	**	***
Fixed	RR	1.22	1.24	1.24
	RRl	1.15	1.20	1.20
	RRu	1.29	1.28	1.27
	P	+++	+++	+++
Between	P			N.S.
<u>Study adjusts for family medical history</u>				
	N	34	59	93
Het	P	(*)	***	***
Fixed	RR	1.23	1.24	1.24
	RRl	1.17	1.20	1.20
	RRu	1.29	1.28	1.27
	P	+++	+++	+++
Between	P			N.S.
<u>Study adjusts for family composition</u>				
	N	17	76	93
Het	P	N.S.	***	***
Fixed	RR	1.28	1.23	1.24
	RRl	1.19	1.19	1.20
	RRu	1.37	1.27	1.27
	P	+++	+++	+++
Between	P			N.S.
<u>Study adjusts for cooking, heating, air conditioning</u>				
	N	12	81	93
Het	P	(*)	***	***
Fixed	RR	1.27	1.23	1.24
	RRl	1.18	1.19	1.20
	RRu	1.38	1.27	1.27
	P	+++	+++	+++
Between	P			N.S.
<u>Study adjusts for housing quality, crowding, damp, mould</u>				
	N	14	79	93
Het	P	(*)	***	***
Fixed	RR	1.25	1.23	1.24
	RRl	1.14	1.20	1.20
	RRu	1.37	1.27	1.27
	P	+++	+++	+++
Between	P			N.S.
<u>Study adjusts for pets, animal contact, farming</u>				
	N	11	82	93
Het	P	N.S.	***	***
Fixed	RR	1.26	1.23	1.24
	RRl	1.13	1.20	1.20
	RRu	1.40	1.27	1.27
	P	+++	+++	+++
Between	P			N.S.
<u>Study adjusts for child's medical history</u>				
	N	30	63	93
Het	P	**	***	***
Fixed	RR	1.22	1.24	1.24
	RRl	1.15	1.20	1.20
	RRu	1.29	1.28	1.27
	P	+++	+++	+++
Between	P			N.S.
<u>Study adjusts for in utero exposure</u>				
	N	5	88	93
Het	P	(*)	***	***
Fixed	RR	1.03	1.24	1.24
	RRl	0.88	1.21	1.20
	RRu	1.19	1.28	1.27
	P	N.S.	+++	+++
Between	P			*

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

		Lifetime Asthma			Adjusted			
		Study adjusts for in life exposure						
		Yes	No	Total				
	N	16	77	93				
Het	P	(*)	***	***				
Fixed	RR	1.20	1.24	1.24				
	RR1	1.12	1.21	1.20				
	RRu	1.28	1.28	1.27				
	P	+++	+++	+++				
Between	P			N.S.				
<u>Exposed Overall : Source/who is smoker</u>								
		Biochem	TotETS	AnyHh	AnyPar	Mother	Father	Total
	N	2	4	39	19	27	2	93
Het	P	N.S.	N.S.	**	N.S.	*	N.S.	***
Fixed	RR	1.36	1.71	1.15	1.22	1.31	1.15	1.24
	RR1	0.97	1.24	1.10	1.12	1.25	0.88	1.20
	RRu	1.91	2.37	1.21	1.33	1.36	1.49	1.27
	P	(+)	++	+++	+++	+++	N.S.	+++
Between	P							***
<u>Exposed Overall : when Exposed</u>								
		lif/ev	age<7y	current	unspec	other	Total	
	N	23	6	29	32	3	93	
Het	P	*	***	N.S.	*	N.S.	***	
Fixed	RR	1.24	1.23	1.27	1.19	1.45	1.24	
	RR1	1.19	1.11	1.19	1.13	1.14	1.20	
	RRu	1.30	1.37	1.35	1.26	1.85	1.27	
	P	+++	+++	+++	+++	++	+++	
Between	P						N.S.	
<u>Unexposed Overall : who is smoker</u>								
		NoHhMemb	NoParent	NotSpPar	Total			
	N	45	21	27	93			
Het	P	***	N.S.	*	***			
Fixed	RR	1.16	1.21	1.31	1.24			
	RR1	1.11	1.11	1.25	1.20			
	RRu	1.22	1.31	1.36	1.27			
	P	+++	+++	+++	+++			
Between	P				***			
<u>Unexposed Overall : time</u>								
		non	never	non+othr	NA	Total		
	N	80	11		2	93		
Het	P	***	N.S.		N.S.	***		
Fixed	RR	1.20	1.29		1.36	1.24		
	RR1	1.16	1.23		0.97	1.20		
	RRu	1.25	1.36		1.91	1.27		
	P	+++	+++		(+)	+++		
Between	P					(*)		
<u>Number of adjustment variables</u>								
		0	1	2	3-5	6-9	10+	Total
	N	47	14	3	11	15	3	93
Het	P	*	*	N.S.	***	N.S.	N.S.	***
Fixed	RR	1.24	1.19	1.27	1.14	1.29	1.31	1.24
	RR1	1.20	1.08	1.09	1.05	1.19	1.08	1.20
	RRu	1.29	1.32	1.48	1.24	1.39	1.60	1.27
	P	+++	+++	++	++	+++	++	+++
Between	P							N.S.
<u>RR adjusted for sex</u>								
		Yes	No	Total				
	N	24	69	93				
Het	P	*	***	***				
Fixed	RR	1.25	1.23	1.24				
	RR1	1.18	1.19	1.20				
	RRu	1.33	1.27	1.27				
	P	+++	+++	+++				
Between	P			N.S.				

Table A1 - 3

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

		Lifetime Asthma Adjusted			
		<u>RR adjusted for age</u>			
		Yes	No	Total	
	N	19	74	93	
Het	P	*	***	***	
Fixed	RR	1.17	1.25	1.24	
	RR1	1.09	1.21	1.20	
	RRu	1.26	1.29	1.27	
	P	+++	+++	+++	
Between	P			N.S.	
		<u>RR adjusted for other ETS</u>			
	N	6	87	93	
Het	P	**	***	***	
Fixed	RR	1.18	1.24	1.24	
	RR1	1.05	1.20	1.20	
	RRu	1.34	1.28	1.27	
	P	++	+++	+++	
Between	P			N.S.	
		<u>RR adjusted for factor other than sex, age, other ETS</u>			
	N	43	50	93	
Het	P	***	*	***	
Fixed	RR	1.23	1.24	1.24	
	RR1	1.17	1.20	1.20	
	RRu	1.29	1.29	1.27	
	P	+++	+++	+++	
Between	P			N.S.	
		<u>Derivation of RR/CI</u>			
	Original	Numbers	SumNumbs	Other	Total
	N	29	32	13	93
Het	P	*	*	N.S.	**
Fixed	RR	1.27	1.22	1.10	1.25
	RR1	1.21	1.15	0.99	1.19
	RRu	1.34	1.29	1.22	1.30
	P	+++	+++	(+)	+++
Between	P				N.S.

Table A1 - 6

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

		Lifetime Asthma Unadjusted						
		<u>Overall</u>						
	N	95						
	NS	88						
	Wt	5039.16						
	Het Chi	163.33						
	Het df	94						
	Het P	***						
Fixed	RR	1.25						
	RRl	1.21						
	RRu	1.28						
	P	+++						
Random	RR	1.24						
	RRl	1.19						
	RRu	1.29						
	P	+++						
Asymm	P	N.S.						
		<u>Sex</u>						
		both	male	female	Total			
	N	80	8	7	95			
	Het P	***	N.S.	N.S.	***			
Fixed	RR	1.24	1.22	1.33	1.25			
	RRl	1.21	1.10	1.17	1.21			
	RRu	1.28	1.35	1.50	1.28			
	P	+++	+++	+++	+++			
Between	P	N.S.						
		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	30	2	40	13	10		95
	Het P	(*)	N.S.	**	(*)	**		***
Fixed	RR	1.29	2.11	1.26	1.14	1.19		1.25
	RRl	1.22	0.95	1.22	1.04	1.11		1.21
	RRu	1.37	4.68	1.31	1.25	1.27		1.28
	P	+++	(+)	+++	++	+++		+++
Between	P							(*)
		<u>Start year of study</u>						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N	6	14	26	38	11	95	
	Het P	N.S.	(*)	**	*	***	***	
Fixed	RR	1.30	1.25	1.26	1.22	1.25	1.25	
	RRl	1.17	1.15	1.19	1.16	1.19	1.21	
	RRu	1.44	1.36	1.35	1.28	1.31	1.28	
	P	+++	+++	+++	+++	+++	+++	
Between	P							N.S.
		<u>Study type</u>						
		CC	Pr	CS	Total			
	N	12	15	68	95			
	Het P	**	(*)	**	***			
Fixed	RR	1.27	1.29	1.22	1.25			
	RRl	1.09	1.23	1.18	1.21			
	RRu	1.49	1.35	1.27	1.28			
	P	++	+++	+++	+++			
Between	P							N.S.

Table A3 -

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

This analysis is restricted to results for:

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

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

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

Finally by Age: whole study if available, otherwise by widest available age Overall
 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 Section -3
 and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A
 for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A3 - 3

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

		Current Asthma						
		Adjusted						
		<u>Overall</u>						
	N	73						
	NS	71						
	Wt	6396.00						
	Het Chi	177.00						
	Het df	72						
	Het P	***						
Fixed	RR	1.13						
	RR1	1.10						
	RRu	1.16						
	P	+++						
Random	RR	1.18						
	RR1	1.11						
	RRu	1.26						
	P	+++						
Asymm	P	N.S.						
		<u>Sex</u>						
		both	male	female	Total			
	N	69	2	2	73			
	Het P	***	***	N.S.	***			
Fixed	RR	1.13	0.94	0.64	1.13			
	RR1	1.10	0.58	0.32	1.10			
	RRu	1.16	1.52	1.27	1.16			
	P	+++	N.S.	N.S.	+++			
Between	P	N.S.						
		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	13	3	31	21	2	3	73
	Het P	**	N.S.	**	***	*	N.S.	***
Fixed	RR	1.16	1.46	1.21	1.11	1.18	1.64	1.13
	RR1	1.08	1.13	1.13	1.07	0.73	1.11	1.10
	RRu	1.25	1.90	1.30	1.14	1.89	2.42	1.16
	P	+++	++	+++	+++	N.S.	+	+++
Between	P	N.S.						*
		<u>Country in Europe</u>						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
	N	5	3	4	12	4	3	31
	Het P	N.S.	N.S.	N.S.	**	*	**	**
Fixed	RR	1.16	1.21	1.40	1.23	1.25	0.98	1.21
	RR1	0.90	1.08	1.05	1.10	0.96	0.75	1.13
	RRu	1.49	1.37	1.86	1.38	1.61	1.27	1.30
	P	N.S.	++	+	+++	(+)	N.S.	+++
Between	P	N.S.						N.S.
		<u>Country in Asia</u>						
		FarEast	Cent/SE	MidlEast	Total			
	N	13	5	3	21			
	Het P	***	N.S.	N.S.	***			
Fixed	RR	1.09	1.56	1.15	1.11			
	RR1	1.06	1.33	0.93	1.07			
	RRu	1.12	1.82	1.43	1.14			
	P	+++	+++	N.S.	+++			
Between	P	***						
		<u>Start year of study</u>						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N		5	17	44	7	73	
	Het P		N.S.	***	***	N.S.	***	
Fixed	RR		0.96	1.24	1.11	1.49	1.13	
	RR1		0.81	1.15	1.08	1.25	1.10	
	RRu		1.13	1.33	1.14	1.76	1.16	
	P		N.S.	+++	+++	+++	+++	
Between	P		***					
		<u>Publication year</u>						
		<1990	1990-94	1995-99	2000+	Total		
	N	3	16	29	25	73		
	Het P	(*)	**	**	***	***		
Fixed	RR	0.77	1.26	1.10	1.19	1.13		
	RR1	0.48	1.15	1.07	1.13	1.10		
	RRu	1.24	1.38	1.13	1.26	1.16		
	P	N.S.	+++	+++	+++	+++		
Between	P		**					

Table A3 - 3

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

		Current Asthma					
		Adjusted					
		Study type					
		CC	Pr	CS	Total		
	N	23	8	42	73		
Het	P	N.S.	*	***	***		
Fixed	RR	1.31	1.10	1.11	1.13		
	RRl	1.22	0.98	1.08	1.10		
	RRu	1.42	1.23	1.14	1.16		
	P	+++	N.S.	+++	+++		
Between	P				***		
		Highest age in RR					
		0-9	10-14	15+	unknown	Total	
	N	15	27	30	1	73	
Het	P	N.S.	**	***	N.S.	***	
Fixed	RR	1.36	1.16	1.10	1.96	1.13	
	RRl	1.24	1.10	1.07	1.10	1.10	
	RRu	1.50	1.22	1.13	3.48	1.16	
	P	+++	+++	+++	+	+++	
Between	P					***	
		Population setting					
		general	school	medical	allergy	other	Total
	N	8	47	17	1		73
Het	P	**	***	N.S.	N.S.		***
Fixed	RR	1.21	1.12	1.25	3.33		1.13
	RRl	1.08	1.09	1.11	0.78		1.10
	RRu	1.36	1.15	1.40	14.23		1.16
	P	+++	+++	+++	N.S.		+++
Between	P						(*)
		Respondent for smoking					
		child	parent	med rec	mix/oth	Total	
	N	8	49		16	73	
Het	P	***	***		**	***	
Fixed	RR	1.08	1.13		1.12	1.13	
	RRl	0.98	1.10		1.02	1.10	
	RRu	1.19	1.16		1.22	1.16	
	P	N.S.	+++		+	+++	
Between	P					N.S.	
		Child smokers					
		exc/none	included	ignored	Total		
	N	9	12	52	73		
Het	P	**	(*)	***	***		
Fixed	RR	1.13	1.08	1.23	1.13		
	RRl	1.00	1.05	1.17	1.10		
	RRu	1.27	1.12	1.28	1.16		
	P	+	+++	+++	+++		
Between	P					***	
		Physician diagnosis (current)					
		yes	no/mix	Total			
	N	29	44	73			
Het	P	**	***	***			
Fixed	RR	1.17	1.12	1.13			
	RRl	1.07	1.10	1.10			
	RRu	1.27	1.15	1.16			
	P	+++	+++	+++			
Between	P			N.S.			
		Respondent for diagnosis (current)					
		medrec	parent	child	mixed	Total	
	N	16	38	13	6	73	
Het	P	N.S.	***	***	**	***	
Fixed	RR	1.30	1.21	1.08	1.00	1.13	
	RRl	1.13	1.16	1.05	0.83	1.10	
	RRu	1.49	1.26	1.12	1.22	1.16	
	P	+++	+++	+++	N.S.	+++	
Between	P					***	

Table A3 - 3

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

		Current Asthma Adjusted					
		Questionnaire for symptoms					
		ISAAC	ATS	other	Total		
	N	13	9	51	73		
Het	P	***	*	***	***		
Fixed	RR	1.12	1.06	1.19	1.13		
	RR1	1.09	0.94	1.12	1.10		
	RRu	1.15	1.19	1.25	1.16		
	P	+++	N.S.	+++	+++		
Between	P				(*)		
		Number of cases (current asthma)					
		1-50	51-100	101-200	201+	unknown	Total
	N	14	15	17	25	2	73
Het	P	N.S.	*	**	***	N.S.	***
Fixed	RR	1.26	0.97	1.09	1.14	1.29	1.13
	RR1	1.00	0.84	1.00	1.11	0.94	1.10
	RRu	1.58	1.13	1.18	1.17	1.78	1.16
	P	+	N.S.	(+)	+++	N.S.	+++
Between	P						N.S.
		Study adjusts for or is matched on sex					
		Yes	No	Total			
	N	49	24	73			
Het	P	***	***	***			
Fixed	RR	1.12	1.21	1.13			
	RR1	1.10	1.10	1.10			
	RRu	1.15	1.33	1.16			
	P	+++	+++	+++			
Between	P			N.S.			
		Study adjusts for or is matched on age					
	N	41	32	73			
Het	P	***	***	***			
Fixed	RR	1.13	1.15	1.13			
	RR1	1.10	1.07	1.10			
	RRu	1.16	1.24	1.16			
	P	+++	+++	+++			
Between	P			N.S.			
		Study adjusts for or is matched on race					
	N	12	61	73			
Het	P	**	***	***			
Fixed	RR	1.17	1.12	1.13			
	RR1	1.09	1.09	1.10			
	RRu	1.26	1.15	1.16			
	P	+++	+++	+++			
Between	P			N.S.			
		Study adjusts for or is matched on location					
	N	32	41	73			
Het	P	***	***	***			
Fixed	RR	1.12	1.24	1.13			
	RR1	1.09	1.15	1.10			
	RRu	1.14	1.33	1.16			
	P	+++	+++	+++			
Between	P			**			
		Study adjusts for or is matched on SES					
	N	30	43	73			
Het	P	***	***	***			
Fixed	RR	1.11	1.24	1.13			
	RR1	1.08	1.16	1.10			
	RRu	1.14	1.33	1.16			
	P	+++	+++	+++			
Between	P			**			
		Study adjusts for family medical history					
	N	27	46	73			
Het	P	*	***	***			
Fixed	RR	1.17	1.12	1.13			
	RR1	1.11	1.09	1.10			
	RRu	1.24	1.15	1.16			
	P	+++	+++	+++			
Between	P			N.S.			

Table A3 - 3

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

		Current Asthma						
		Adjusted						
		Study adjusts for family composition						
		Yes	No	Total				
	N	14	59	73				
Het	P	*	***	***				
Fixed	RR	1.13	1.13	1.13				
	RR1	1.04	1.10	1.10				
	RRu	1.24	1.16	1.16				
	P	++	+++	+++				
Between	P			N.S.				
		Study adjusts for cooking, heating, air conditioning						
	N	24	49	73				
Het	P	***	***	***				
Fixed	RR	1.10	1.21	1.13				
	RR1	1.07	1.15	1.10				
	RRu	1.13	1.27	1.16				
	P	+++	+++	+++				
Between	P			***				
		Study adjusts for housing quality, crowding, damp, mould						
	N	22	51	73				
Het	P	***	***	***				
Fixed	RR	1.17	1.12	1.13				
	RR1	1.10	1.09	1.10				
	RRu	1.25	1.15	1.16				
	P	+++	+++	+++				
Between	P			N.S.				
		Study adjusts for pets, animal contact, farming						
	N	20	53	73				
Het	P	***	***	***				
Fixed	RR	1.22	1.11	1.13				
	RR1	1.15	1.08	1.10				
	RRu	1.30	1.14	1.16				
	P	+++	+++	+++				
Between	P			**				
		Study adjusts for child's medical history						
	N	18	55	73				
Het	P	N.S.	***	***				
Fixed	RR	1.27	1.12	1.13				
	RR1	1.16	1.09	1.10				
	RRu	1.40	1.15	1.16				
	P	+++	+++	+++				
Between	P			*				
		Study adjusts for in utero exposure						
	N	9	64	73				
Het	P	(*)	***	***				
Fixed	RR	1.11	1.13	1.13				
	RR1	1.02	1.10	1.10				
	RRu	1.21	1.16	1.16				
	P	+	+++	+++				
Between	P			N.S.				
		Study adjusts for in life exposure						
	N	18	55	73				
Het	P	*	***	***				
Fixed	RR	1.20	1.12	1.13				
	RR1	1.12	1.09	1.10				
	RRu	1.28	1.15	1.16				
	P	+++	+++	+++				
Between	P			(*)				
		Exposed Overall : Source/who is smoker						
		Biochem	TotETS	AnyHh	AnyPar	Mother	Father	Total
	N	2	1	36	16	17	1	73
Het	P	N.S.	N.S.	***	N.S.	**	N.S.	***
Fixed	RR	1.34	1.13	1.11	1.21	1.19	0.94	1.13
	RR1	0.83	0.82	1.08	1.11	1.10	0.62	1.10
	RRu	2.16	1.57	1.14	1.32	1.30	1.43	1.16
	P	N.S.	N.S.	+++	+++	+++	N.S.	+++
Between	P							N.S.

Table A3 - 3

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

		Current Asthma Adjusted						
		Exposed Overall : when Exposed						
		lif/ev	age<7y	current	unspec	other	Total	
	N	8	8	23	31	3	73	
Het	P	*	N.S.	***	***	N.S.	***	
Fixed	RR	1.03	1.42	1.18	1.11	1.41	1.13	
	RR1	0.93	1.23	1.12	1.07	1.03	1.10	
	RRu	1.15	1.64	1.24	1.14	1.93	1.16	
	P	N.S.	+++	+++	+++	+	+++	
Between	P						***	
		Unexposed Overall : who is smoker						
		NoHhMemb	NoParent	NotSpPar	Total			
	N	40	16	17	73			
Het	P	***	N.S.	**	***			
Fixed	RR	1.11	1.21	1.19	1.13			
	RR1	1.09	1.11	1.09	1.10			
	RRu	1.15	1.32	1.29	1.16			
	P	+++	+++	+++	+++			
Between	P				(*)			
		Unexposed Overall : time						
		non	never	non+othr	NA	Total		
	N	66	5		2	73		
Het	P	***	*		N.S.	***		
Fixed	RR	1.13	1.10		1.34	1.13		
	RR1	1.10	1.00		0.83	1.10		
	RRu	1.16	1.20		2.16	1.16		
	P	+++	(+)		N.S.	+++		
Between	P					N.S.		
		Number of adjustment variables						
		0	1	2	3-5	6-9	10+	Total
	N	29	3	1	9	21	10	73
Het	P	**	N.S.	N.S.	**	***	*	***
Fixed	RR	1.15	1.08	1.78	1.21	1.11	1.19	1.13
	RR1	1.06	0.81	1.34	1.05	1.08	1.09	1.10
	RRu	1.25	1.44	2.36	1.40	1.14	1.29	1.16
	P	+++	N.S.	+++	++	+++	+++	+++
Between	P							*
		RR adjusted for sex						
		Yes	No	Total				
	N	36	37	73				
Het	P	***	***	***				
Fixed	RR	1.13	1.12	1.13				
	RR1	1.10	1.04	1.10				
	RRu	1.16	1.20	1.16				
	P	+++	++	+++				
Between	P			N.S.				
		RR adjusted for age						
		Yes	No	Total				
	N	29	44	73				
Het	P	***	***	***				
Fixed	RR	1.12	1.16	1.13				
	RR1	1.09	1.09	1.10				
	RRu	1.15	1.24	1.16				
	P	+++	+++	+++				
Between	P			N.S.				
		RR adjusted for other ETS						
		Yes	No	Total				
	N	11	62	73				
Het	P	N.S.	***	***				
Fixed	RR	1.25	1.12	1.13				
	RR1	1.15	1.09	1.10				
	RRu	1.35	1.15	1.16				
	P	+++	+++	+++				
Between	P			**				

Table A3 - 3

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

		Current Asthma		
		Adjusted		
		RR adjusted for factor other than sex, age, other ETS		
		Yes	No	Total
	N	42	31	73
Het	P	***	***	***
Fixed	RR	1.12	1.18	1.13
	RRl	1.09	1.09	1.10
	RRu	1.15	1.27	1.16
	P	+++	+++	+++
Between	P			N.S.

		Derivation of RR/CI				
		Original	Numbers	SumNumbs	Other	Total
	N	32	14	8	19	73
Het	P	***	*	*	***	***
Fixed	RR	1.13	1.14	1.07	1.15	1.13
	RRl	1.10	1.04	0.90	1.07	1.10
	RRu	1.16	1.26	1.26	1.24	1.16
	P	+++	++	N.S.	+++	+++
Between	P					N.S.

Table A3 - 6

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

		Current Asthma Unadjusted						
		<u>Overall</u>						
	N	73						
	NS	71						
	Wt	7368.63						
	Het Chi	240.30						
	Het df	72						
	Het P	***						
Fixed	RR	1.10						
	RRl	1.07						
	RRu	1.12						
	P	+++						
Random	RR	1.20						
	RRl	1.13						
	RRu	1.28						
	P	+++						
Asymm	P	**						
		<u>Sex</u>						
		both	male	female	Total			
	N	69	2	2	73			
	Het P	***	***	N.S.	***			
Fixed	RR	1.10	0.94	0.64	1.10			
	RRl	1.07	0.58	0.32	1.07			
	RRu	1.12	1.52	1.27	1.12			
	P	+++	N.S.	N.S.	+++			
Between	P				N.S.			
		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	13	3	31	21	2	3	73
	Het P	**	N.S.	**	***	*	N.S.	***
Fixed	RR	1.15	1.46	1.26	1.06	1.19	2.07	1.10
	RRl	1.08	1.13	1.18	1.03	0.88	1.43	1.07
	RRu	1.23	1.90	1.35	1.09	1.62	3.01	1.12
	P	+++	++	+++	+++	N.S.	+++	+++
Between	P							***
		<u>Start year of study</u>						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N		5	17	44	7	73	
	Het P		N.S.	***	***	(*)	***	
Fixed	RR		0.96	1.24	1.07	1.58	1.10	
	RRl		0.81	1.15	1.05	1.34	1.07	
	RRu		1.13	1.32	1.10	1.87	1.12	
	P		N.S.	+++	+++	+++	+++	
Between	P							***
		<u>Study type</u>						
		CC	Pr	CS	Total			
	N	23	8	42	73			
	Het P	N.S.	*	***	***			
Fixed	RR	1.35	1.12	1.07	1.10			
	RRl	1.25	1.00	1.04	1.07			
	RRu	1.45	1.25	1.10	1.12			
	P	+++	+	+++	+++			
Between	P					***		

Table A5 -

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

This analysis is restricted to results for:

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

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

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

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

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 Section -3

and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A5 - 3

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

		Lifetime Asthma						
		Adjusted						
		<u>Overall</u>						
	N	64						
	NS	60						
	Wt	3289.50						
	Het Chi	92.02						
	Het df	63						
	Het P	**						
Fixed	RR	1.27						
	RR1	1.23						
	RRu	1.32						
	P	+++						
Random	RR	1.26						
	RR1	1.20						
	RRu	1.33						
	P	+++						
Asymm	P	N.S.						
		<u>Sex</u>						
		both	male	female	Total			
	N	55	5	4	64			
	Het P	**	N.S.	N.S.	**			
Fixed	RR	1.27	1.34	1.18	1.27			
	RR1	1.23	1.09	0.93	1.23			
	RRu	1.32	1.64	1.50	1.32			
	P	+++	++	N.S.	+++			
Between	P	N.S.						
		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	22	1	25	11	5		64
	Het P	N.S.	N.S.	**	N.S.	*		**
Fixed	RR	1.33	1.57	1.28	1.22	1.18		1.27
	RR1	1.23	0.53	1.22	1.09	1.06		1.23
	RRu	1.44	4.66	1.33	1.36	1.32		1.32
	P	+++	N.S.	+++	+++	++		+++
Between	P	N.S.						
		<u>Country in Europe</u>						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
	N	9	1	3	6	4	2	25
	Het P	*	N.S.	*	(*)	N.S.	N.S.	**
Fixed	RR	1.31	1.28	1.12	1.19	1.14	1.21	1.28
	RR1	1.25	0.93	0.94	1.01	0.93	0.99	1.22
	RRu	1.38	1.77	1.34	1.40	1.40	1.47	1.33
	P	+++	N.S.	N.S.	+	N.S.	(+)	+++
Between	P	N.S.						
		<u>Country in Asia</u>						
		FarEast	Cent/SE	MidlEast	Total			
	N	4	1	6	11			
	Het P	N.S.	N.S.	N.S.	N.S.			
Fixed	RR	1.04	0.79	1.36	1.22			
	RR1	0.86	0.42	1.18	1.09			
	RRu	1.26	1.47	1.57	1.36			
	P	N.S.	N.S.	+++	+++			
Between	P	*						
		<u>Start year of study</u>						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N	5	10	20	21	8	64	
	Het P	N.S.	(*)	*	N.S.	N.S.	**	
Fixed	RR	1.23	1.23	1.32	1.20	1.31	1.27	
	RR1	1.08	1.12	1.22	1.11	1.24	1.23	
	RRu	1.41	1.34	1.42	1.30	1.38	1.32	
	P	++	+++	+++	+++	+++	+++	
Between	P	N.S.						
		<u>Publication year</u>						
		<1990	1990-94	1995-99	2000+	Total		
	N	14	15	20	15	64		
	Het P	**	N.S.	N.S.	N.S.	**		
Fixed	RR	1.18	1.26	1.32	1.28	1.27		
	RR1	1.07	1.16	1.23	1.22	1.23		
	RRu	1.31	1.36	1.42	1.34	1.32		
	P	++	+++	+++	+++	+++		
Between	P	N.S.						

Table A5 - 3

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

		Lifetime Asthma					
		Adjusted					
		Study type					
		CC	Pr	CS	Total		
	N	8	14	42	64		
Het	P	*	N.S.	*	**		
Fixed	RR	1.30	1.27	1.27	1.27		
	RR1	1.09	1.21	1.21	1.23		
	RRu	1.56	1.33	1.34	1.32		
	P	++	+++	+++	+++		
Between	P	N.S.					
		Highest age in RR					
		0-9	10-14	15+	unknown	Total	
	N	13	23	27	1	64	
Het	P	**	(*)	N.S.	N.S.	**	
Fixed	RR	1.27	1.27	1.29	1.24	1.27	
	RR1	1.16	1.21	1.21	0.72	1.23	
	RRu	1.39	1.33	1.37	2.14	1.32	
	P	+++	+++	+++	N.S.	+++	
Between	P	N.S.					
		Population setting					
		general	school	medical	allergy	other	Total
	N	17	26	16	2	3	64
Het	P	N.S.	*	N.S.	N.S.	N.S.	**
Fixed	RR	1.25	1.24	1.32	1.15	1.13	1.27
	RR1	1.15	1.17	1.25	0.88	0.96	1.23
	RRu	1.37	1.32	1.39	1.49	1.33	1.32
	P	+++	+++	+++	N.S.	N.S.	+++
Between	P	N.S.					
		Respondent for smoking					
		child	parent	med rec	mix/oth	Total	
	N	4	40	3	17	64	
Het	P	*	**	N.S.	N.S.	**	
Fixed	RR	1.04	1.25	1.31	1.28	1.27	
	RR1	0.85	1.19	1.24	1.18	1.23	
	RRu	1.27	1.32	1.38	1.39	1.32	
	P	N.S.	+++	+++	+++	+++	
Between	P	N.S.					
		Child smokers					
		exc/none	included	ignored	Total		
	N	15	8	41	64		
Het	P	N.S.	N.S.	*	**		
Fixed	RR	1.18	1.32	1.28	1.27		
	RR1	1.05	1.19	1.23	1.23		
	RRu	1.32	1.46	1.33	1.32		
	P	++	+++	+++	+++		
Between	P	N.S.					
		Physician diagnosis (lifetime)					
		yes	no/mixed	Total			
	N	34	30	64			
Het	P	*	(*)	**			
Fixed	RR	1.28	1.26	1.27			
	RR1	1.22	1.20	1.23			
	RRu	1.34	1.33	1.32			
	P	+++	+++	+++			
Between	P	N.S.					
		Respondent for diagnosis (lifetime)					
		medrec	parent	child	mixed	Total	
	N	11	38	8	7	64	
Het	P	N.S.	(*)	*	N.S.	**	
Fixed	RR	1.30	1.28	1.08	1.24	1.27	
	RR1	1.23	1.22	0.94	1.12	1.23	
	RRu	1.37	1.35	1.24	1.38	1.32	
	P	+++	+++	N.S.	+++	+++	
Between	P	(*)					

Table A5 - 3

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

		Lifetime Asthma Adjusted					
		Questionnaire for symptoms					
		ISAAC	ATS	other	Total		
	N	9	9	46	64		
Het	P	N.S.	N.S.	**	**		
Fixed	RR	1.18	1.28	1.29	1.27		
	RR1	1.08	1.17	1.24	1.23		
	RRu	1.29	1.40	1.34	1.32		
	P	+++	+++	+++	+++		
Between	P				N.S.		
		Analysis type			Total		
		prevalence	onset				
	N	53	11	64			
Het	P	*	(*)	**			
Fixed	RR	1.28	1.26	1.27			
	RR1	1.23	1.20	1.23			
	RRu	1.34	1.33	1.32			
	P	+++	+++	+++			
Between	P			N.S.			
		Number of cases (lifetime asthma)					
		1-50	51-100	101-200	201+	unknown	Total
	N	6	11	16	30	1	64
Het	P	(*)	N.S.	*	N.S.	N.S.	**
Fixed	RR	1.38	1.58	1.22	1.26	1.36	1.27
	RR1	0.97	1.33	1.09	1.22	0.99	1.23
	RRu	1.95	1.87	1.36	1.31	1.87	1.32
	P	(+)	+++	+++	+++	(+)	+++
Between	P						N.S.
		Study adjusts for or is matched on sex			Total		
		Yes	No				
	N	28	36	64			
Het	P	N.S.	*	**			
Fixed	RR	1.26	1.28	1.27			
	RR1	1.18	1.23	1.23			
	RRu	1.34	1.33	1.32			
	P	+++	+++	+++			
Between	P			N.S.			
		Study adjusts for or is matched on age			Total		
	N	15	49	64			
Het	P	N.S.	*	**			
Fixed	RR	1.25	1.28	1.27			
	RR1	1.15	1.23	1.23			
	RRu	1.35	1.33	1.32			
	P	+++	+++	+++			
Between	P			N.S.			
		Study adjusts for or is matched on race			Total		
	N	9	55	64			
Het	P	N.S.	*	**			
Fixed	RR	1.35	1.26	1.27			
	RR1	1.22	1.22	1.23			
	RRu	1.49	1.31	1.32			
	P	+++	+++	+++			
Between	P			N.S.			
		Study adjusts for or is matched on location			Total		
	N	14	50	64			
Het	P	N.S.	*	**			
Fixed	RR	1.22	1.29	1.27			
	RR1	1.13	1.24	1.23			
	RRu	1.32	1.34	1.32			
	P	+++	+++	+++			
Between	P			N.S.			

Table A5 - 3

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

		Lifetime Asthma		
		Adjusted		
		<u>Study adjusts for or is matched on SES</u>		
		Yes	No	Total
	N	19	45	64
Het	P	*	(*)	**
Fixed	RR	1.24	1.28	1.27
	RR1	1.16	1.23	1.23
	RRu	1.33	1.33	1.32
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for family medical history</u>		
	N	20	44	64
Het	P	N.S.	*	**
Fixed	RR	1.24	1.29	1.27
	RR1	1.16	1.24	1.23
	RRu	1.31	1.34	1.32
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for family composition</u>		
	N	11	53	64
Het	P	N.S.	*	**
Fixed	RR	1.28	1.27	1.27
	RR1	1.18	1.22	1.23
	RRu	1.38	1.32	1.32
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for cooking, heating, air conditioning</u>		
	N	5	59	64
Het	P	N.S.	**	**
Fixed	RR	1.21	1.28	1.27
	RR1	1.10	1.23	1.23
	RRu	1.34	1.33	1.32
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for housing quality, crowding, damp, mould</u>		
	N	9	55	64
Het	P	N.S.	**	**
Fixed	RR	1.15	1.28	1.27
	RR1	1.02	1.24	1.23
	RRu	1.29	1.33	1.32
	P	+	+++	+++
Between	P			(*)
		<u>Study adjusts for pets, animal contact, farming</u>		
	N	8	56	64
Het	P	N.S.	**	**
Fixed	RR	1.17	1.28	1.27
	RR1	1.02	1.23	1.23
	RRu	1.35	1.32	1.32
	P	+	+++	+++
Between	P			N.S.
		<u>Study adjusts for child's medical history</u>		
	N	22	42	64
Het	P	(*)	*	**
Fixed	RR	1.26	1.28	1.27
	RR1	1.17	1.23	1.23
	RRu	1.35	1.33	1.32
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for in utero exposure</u>		
	N	2	62	64
Het	P	**	*	**
Fixed	RR	1.22	1.27	1.27
	RR1	0.78	1.23	1.23
	RRu	1.91	1.32	1.32
	P	N.S.	+++	+++
Between	P			N.S.

Table A5 - 3

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

		Lifetime Asthma						
		Adjusted						
		Study adjusts for in life exposure						
		Yes	No	Total				
	N	13	51	64				
Het	P	N.S.	*	**				
Fixed	RR	1.29	1.27	1.27				
	RRl	1.19	1.22	1.23				
	RRu	1.39	1.32	1.32				
	P	+++	+++	+++				
Between	P	N.S.						
<u>Exposed Overall : who is smoker</u>								
		AnyPar	Mother	Father	Total			
	N	21	39	4	64			
Het	P	N.S.	**	N.S.	**			
Fixed	RR	1.22	1.30	1.00	1.27			
	RRl	1.12	1.25	0.83	1.23			
	RRu	1.31	1.35	1.20	1.32			
	P	+++	+++	N.S.	+++			
Between	P	N.S.				*		
<u>Exposed Overall : when Exposed</u>								
		lif/ev	age<7y	current	unspec	other	Total	
	N	21	6	17	18	2	64	
Het	P	(*)	***	*	N.S.	(*)	**	
Fixed	RR	1.27	1.23	1.25	1.33	1.27	1.27	
	RRl	1.21	1.12	1.16	1.22	0.98	1.23	
	RRu	1.33	1.37	1.35	1.44	1.65	1.32	
	P	+++	+++	+++	+++	(+)	+++	
Between	P	N.S.				N.S.		
<u>Unexposed Overall : who is smoker</u>								
		NoHhMemb	NoParent	NotSpPar	Total			
	N	3	22	39	64			
Het	P	N.S.	N.S.	**	**			
Fixed	RR	0.97	1.21	1.30	1.27			
	RRl	0.76	1.12	1.25	1.23			
	RRu	1.24	1.30	1.35	1.32			
	P	N.S.	+++	+++	+++			
Between	P	N.S.				*		
<u>Unexposed Overall : time</u>								
		non	never	non+othr	Total			
	N	52	12		64			
Het	P	**	N.S.		**			
Fixed	RR	1.25	1.30		1.27			
	RRl	1.19	1.24		1.23			
	RRu	1.31	1.37		1.32			
	P	+++	+++		+++			
Between	P	N.S.						
<u>Number of adjustment variables</u>								
		0	1	2	3-5	6-9	10+	Total
	N	31	11	2	9	9	2	64
Het	P	N.S.	*	N.S.	**	N.S.	N.S.	**
Fixed	RR	1.28	1.32	1.23	1.27	1.25	1.28	1.27
	RRl	1.22	1.14	1.03	1.14	1.13	1.00	1.23
	RRu	1.33	1.52	1.47	1.42	1.37	1.63	1.32
	P	+++	+++	+	+++	+++	(+)	+++
Between	P	N.S.				N.S.		
<u>RR adjusted for sex</u>								
		Yes	No	Total				
	N	18	46	64				
Het	P	*	*	**				
Fixed	RR	1.25	1.28	1.27				
	RRl	1.16	1.23	1.23				
	RRu	1.35	1.33	1.32				
	P	+++	+++	+++				
Between	P	N.S.						

Table A5 - 3

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

<u>RR adjusted for age</u>				
		Yes	No	Total
	N	13	51	64
Het	P	N.S.	*	**
Fixed	RR	1.23	1.28	1.27
	RRl	1.11	1.23	1.23
	RRu	1.36	1.32	1.32
	P	+++	+++	+++
Between	P			N.S.

<u>RR adjusted for other ETS</u>				
		4	60	64
Het	P	(*)	*	**
Fixed	RR	1.46	1.27	1.27
	RRl	1.22	1.22	1.23
	RRu	1.74	1.31	1.32
	P	+++	+++	+++
Between	P			N.S.

<u>RR adjusted for factor other than sex, age, other ETS</u>				
		30	34	64
Het	P	**	N.S.	**
Fixed	RR	1.28	1.27	1.27
	RRl	1.20	1.22	1.23
	RRu	1.36	1.32	1.32
	P	+++	+++	+++
Between	P			N.S.

<u>Derivation of RR/CI</u>						
		Original	Numbers	SumNumbs	Other	Total
	N	24	16	13	11	64
Het	P	*	N.S.	N.S.	*	**
Fixed	RR	1.26	1.35	1.17	1.28	1.27
	RRl	1.18	1.24	1.05	1.22	1.23
	RRu	1.34	1.47	1.31	1.35	1.32
	P	+++	+++	++	+++	+++
Between	P					N.S.

Table A5 - 6

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

		Lifetime Asthma Unadjusted						
		<u>Overall</u>						
	N	65						
	NS	60						
	Wt	3538.99						
	Het Chi	95.82						
	Het df	64						
	Het P	**						
Fixed	RR	1.28						
	RRl	1.24						
	RRu	1.32						
	P	+++						
Random	RR	1.27						
	RRl	1.21						
	RRu	1.33						
	P	+++						
Asymm	P	N.S.						
		<u>Sex</u>						
		both	male	female	Total			
	N	54	6	5	65			
	Het P	**	N.S.	N.S.	**			
Fixed	RR	1.27	1.29	1.34	1.28			
	RRl	1.23	1.14	1.16	1.24			
	RRu	1.32	1.46	1.55	1.32			
	P	+++	+++	+++	+++			
Between	P				N.S.			
		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	22	1	25	11	6		65
	Het P	N.S.	N.S.	**	N.S.	*		**
Fixed	RR	1.37	1.57	1.26	1.21	1.27		1.28
	RRl	1.26	0.53	1.21	1.08	1.16		1.24
	RRu	1.48	4.66	1.32	1.34	1.38		1.32
	P	+++	N.S.	+++	+++	+++		+++
Between	P							N.S.
		<u>Start year of study</u>						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N	6	10	20	21	8	65	
	Het P	N.S.	*	**	N.S.	N.S.	**	
Fixed	RR	1.30	1.24	1.32	1.18	1.31	1.28	
	RRl	1.17	1.13	1.23	1.09	1.24	1.24	
	RRu	1.44	1.35	1.43	1.28	1.38	1.32	
	P	+++	+++	+++	+++	+++	+++	
Between	P						N.S.	
		<u>Study type</u>						
		CC	Pr	CS	Total			
	N	8	14	43	65			
	Het P	*	*	(*)	**			
Fixed	RR	1.30	1.28	1.27	1.28			
	RRl	1.09	1.22	1.21	1.24			
	RRu	1.56	1.34	1.33	1.32			
	P	++	+++	+++	+++			
Between	P				N.S.			

Table A7 -

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

This analysis is restricted to results for:

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

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

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

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

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 Section -3

and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A7 - 3

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

		Current Asthma						
		Adjusted						
		Overall						
	N	40						
	NS	40						
	Wt	1131.13						
	Het Chi	71.20						
	Het df	39						
	Het P	**						
Fixed	RR	1.19						
	RR1	1.12						
	RRu	1.26						
	P	+++						
Random	RR	1.18						
	RR1	1.08						
	RRu	1.29						
	P	+++						
Asymm	P	N.S.						
		Sex						
		both	male	female	Total			
	N	40			40			
	Het P	**			**			
Fixed	RR	1.19			1.19			
	RR1	1.12			1.12			
	RRu	1.26			1.26			
	P	+++			+++			
Between	P				N.S.			
		Continent						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	9	2	17	9	2	1	40
	Het P	N.S.	N.S.	*	*	*	N.S.	**
Fixed	RR	1.19	1.47	1.18	1.08	1.18	1.41	1.19
	RR1	1.08	1.13	1.08	0.91	0.73	0.84	1.12
	RRu	1.32	1.92	1.28	1.29	1.89	2.36	1.26
	P	+++	++	+++	N.S.	N.S.	N.S.	+++
Between	P							N.S.
		Country in Europe						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
	N	4	3		7	3		17
	Het P	N.S.	N.S.		**	*		*
Fixed	RR	1.13	1.21		1.14	1.18		1.18
	RR1	0.88	1.08		0.98	0.90		1.08
	RRu	1.46	1.37		1.33	1.54		1.28
	P	N.S.	++		(+)	N.S.		+++
Between	P							N.S.
		Country in Asia						
		FarEast	Cent/SE	MidlEast	Total			
	N	6		3	9			
	Het P	(*)		(*)	*			
Fixed	RR	0.99		1.19	1.08			
	RR1	0.77		0.93	0.91			
	RRu	1.26		1.51	1.29			
	P	N.S.		N.S.	N.S.			
Between	P				N.S.			
		Start year of study						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N		3	11	24	2	40	
	Het P		(*)	N.S.	(*)	N.S.	**	
Fixed	RR		0.95	1.40	1.16	1.12	1.19	
	RR1		0.80	1.24	1.08	0.83	1.12	
	RRu		1.13	1.57	1.25	1.49	1.26	
	P		N.S.	+++	+++	N.S.	+++	
Between	P						**	
		Publication year						
		<1990	1990-94	1995-99	2000+	Total		
	N	3	12	14	11	40		
	Het P	(*)	**	N.S.	*	**		
Fixed	RR	0.77	1.18	1.26	1.08	1.19		
	RR1	0.48	1.06	1.16	0.96	1.12		
	RRu	1.24	1.33	1.37	1.22	1.26		
	P	N.S.	++	+++	N.S.	+++		
Between	P						(*)	

Table A7 - 3

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

		Current Asthma					
		Adjusted					
		Study type					
		CC	Pr	CS	Total		
	N	14	5	21	40		
Het	P	N.S.	*	**	**		
Fixed	RR	1.27	1.12	1.15	1.19		
	RR1	1.15	0.97	1.06	1.12		
	RRu	1.40	1.28	1.25	1.26		
	P	+++	N.S.	++	+++		
Between	P				N.S.		
		Highest age in RR					
		0-9	10-14	15+	unknown	Total	
	N	10	11	18	1	40	
Het	P	(*)	N.S.	**	N.S.	**	
Fixed	RR	1.33	1.08	1.22	1.96	1.19	
	RR1	1.18	0.99	1.11	1.10	1.12	
	RRu	1.51	1.18	1.35	3.48	1.26	
	P	+++	N.S.	+++	+	+++	
Between	P					*	
		Population setting					
		general	school	medical	allergy	other	Total
	N	6	23	10	1		40
Het	P	*	*	*	N.S.		**
Fixed	RR	1.15	1.18	1.28	3.33		1.19
	RR1	1.01	1.09	1.10	0.78		1.12
	RRu	1.31	1.27	1.48	14.23		1.26
	P	+	+++	++	N.S.		+++
Between	P						N.S.
		Respondent for smoking					
		child	parent	med rec	mix/oth	Total	
	N	4	25		11	40	
Het	P	*	*		*	**	
Fixed	RR	1.08	1.20		1.19	1.19	
	RR1	0.87	1.11		1.07	1.12	
	RRu	1.34	1.29		1.32	1.26	
	P	N.S.	+++		++	+++	
Between	P					N.S.	
		Child smokers					
		exc/none	included	ignored	Total		
	N	6	8	26	40		
Het	P	*	N.S.	**	**		
Fixed	RR	1.13	1.13	1.24	1.19		
	RR1	0.97	1.01	1.14	1.12		
	RRu	1.31	1.25	1.34	1.26		
	P	N.S.	+	+++	+++		
Between	P					N.S.	
		Physician diagnosis (current)					
		yes	no/mix	Total			
	N	16	24	40			
Het	P	**	*	**			
Fixed	RR	1.19	1.19	1.19			
	RR1	1.04	1.11	1.12			
	RRu	1.35	1.27	1.26			
	P	+	+++	+++			
Between	P				N.S.		
		Respondent for diagnosis (current)					
		medrec	parent	child	mixed	Total	
	N	11	21	8		40	
Het	P	(*)	(*)	*		**	
Fixed	RR	1.36	1.20	1.01		1.19	
	RR1	1.15	1.12	0.88		1.12	
	RRu	1.62	1.29	1.18		1.26	
	P	+++	+++	N.S.		+++	
Between	P					*	

Table A7 - 3

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

		Current Asthma Adjusted				
		Questionnaire for symptoms				
		ISAAC	ATS	other	Total	
	N	7	2	31	40	
Het	P	N.S.	N.S.	***	**	
Fixed	RR	1.26	1.00	1.19	1.19	
	RRl	1.14	0.85	1.10	1.12	
	RRu	1.40	1.18	1.28	1.26	
	P	+++	N.S.	+++	+++	
Between	P				(*)	
		Number of cases (current asthma)				
		1-50	51-100	101-200	201+	unknown
	N	7	8	11	14	40
Het	P	N.S.	(*)	**	(*)	**
Fixed	RR	1.15	1.09	1.17	1.21	1.19
	RRl	0.85	0.89	1.03	1.12	1.12
	RRu	1.54	1.34	1.32	1.30	1.26
	P	N.S.	N.S.	+	+++	+++
Between	P					N.S.
		Study adjusts for or is matched on sex				
		Yes	No	Total		
	N	29	11	40		
Het	P	**	(*)	**		
Fixed	RR	1.17	1.25	1.19		
	RRl	1.10	1.08	1.12		
	RRu	1.25	1.44	1.26		
	P	+++	++	+++		
Between	P			N.S.		
		Study adjusts for or is matched on age				
	N	23	17	40		
Het	P	***	N.S.	**		
Fixed	RR	1.17	1.24	1.19		
	RRl	1.09	1.11	1.12		
	RRu	1.25	1.38	1.26		
	P	+++	+++	+++		
Between	P			N.S.		
		Study adjusts for or is matched on race				
	N	7	33	40		
Het	P	N.S.	**	**		
Fixed	RR	1.18	1.19	1.19		
	RRl	1.07	1.11	1.12		
	RRu	1.31	1.28	1.26		
	P	++	+++	+++		
Between	P			N.S.		
		Study adjusts for or is matched on location				
	N	16	24	40		
Het	P	**	*	**		
Fixed	RR	1.18	1.20	1.19		
	RRl	1.10	1.09	1.12		
	RRu	1.27	1.33	1.26		
	P	+++	+++	+++		
Between	P			N.S.		
		Study adjusts for or is matched on SES				
	N	16	24	40		
Het	P	*	*	**		
Fixed	RR	1.18	1.21	1.19		
	RRl	1.10	1.09	1.12		
	RRu	1.26	1.34	1.26		
	P	+++	+++	+++		
Between	P			N.S.		
		Study adjusts for family medical history				
	N	14	26	40		
Het	P	(*)	**	**		
Fixed	RR	1.19	1.19	1.19		
	RRl	1.09	1.09	1.12		
	RRu	1.28	1.29	1.26		
	P	+++	+++	+++		
Between	P			N.S.		

Table A7 - 3

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

Current Asthma					
Adjusted					
<u>Study adjusts for family composition</u>					
		Yes	No	Total	
	N	8	32	40	
Het	P	*	*	**	
Fixed	RR	1.10	1.24	1.19	
	RR1	1.00	1.16	1.12	
	RRu	1.21	1.34	1.26	
	P	+	+++	+++	
Between	P			*	
<u>Study adjusts for cooking, heating, air conditioning</u>					
	N	7	33	40	
Het	P	*	**	**	
Fixed	RR	1.21	1.18	1.19	
	RR1	1.10	1.09	1.12	
	RRu	1.32	1.27	1.26	
	P	+++	+++	+++	
Between	P			N.S.	
<u>Study adjusts for housing quality, crowding, damp, mould</u>					
	N	8	32	40	
Het	P	N.S.	***	**	
Fixed	RR	1.24	1.15	1.19	
	RR1	1.13	1.07	1.12	
	RRu	1.37	1.24	1.26	
	P	+++	+++	+++	
Between	P			N.S.	
<u>Study adjusts for pets, animal contact, farming</u>					
	N	6	34	40	
Het	P	N.S.	**	**	
Fixed	RR	1.33	1.17	1.19	
	RR1	1.13	1.10	1.12	
	RRu	1.55	1.24	1.26	
	P	+++	+++	+++	
Between	P			N.S.	
<u>Study adjusts for child's medical history</u>					
	N	10	30	40	
Het	P	N.S.	**	**	
Fixed	RR	1.29	1.17	1.19	
	RR1	1.11	1.10	1.12	
	RRu	1.50	1.25	1.26	
	P	++	+++	+++	
Between	P			N.S.	
<u>Study adjusts for in utero exposure</u>					
	N	6	34	40	
Het	P	N.S.	***	**	
Fixed	RR	1.20	1.18	1.19	
	RR1	1.08	1.10	1.12	
	RRu	1.35	1.26	1.26	
	P	++	+++	+++	
Between	P			N.S.	
<u>Study adjusts for in life exposure</u>					
	N	12	28	40	
Het	P	N.S.	**	**	
Fixed	RR	1.27	1.12	1.19	
	RR1	1.17	1.03	1.12	
	RRu	1.39	1.21	1.26	
	P	+++	++	+++	
Between	P			*	
<u>Exposed Overall : who is smoker</u>					
		AnyPar	Mother	Father	Total
	N	16	22	2	40
Het	P	N.S.	***	N.S.	**
Fixed	RR	1.21	1.19	0.84	1.19
	RR1	1.11	1.10	0.60	1.12
	RRu	1.32	1.29	1.18	1.26
	P	+++	+++	N.S.	+++
Between	P				N.S.

Table A7 - 3

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

		Current Asthma						
		Adjusted						
		Exposed Overall : when Exposed						
		lif/ev	age<7y	current	unspec	other	Total	
	N	8	2	14	15	1	40	
Het	P	(*)	N.S.	(*)	*	N.S.	**	
Fixed	RR	1.00	1.64	1.22	1.22	1.47	1.19	
	RR1	0.89	1.22	1.13	1.08	0.97	1.12	
	RRu	1.14	2.21	1.33	1.37	2.23	1.26	
	P	N.S.	++	+++	++	(+)	+++	
Between	P						**	
		Unexposed Overall : who is smoker						
		NoHhMemb	NoParent	NotSpPar	Total			
	N	4	16	20	40			
Het	P	N.S.	N.S.	***	**			
Fixed	RR	0.84	1.21	1.19	1.19			
	RR1	0.59	1.11	1.10	1.12			
	RRu	1.20	1.32	1.29	1.26			
	P	N.S.	+++	+++	+++			
Between	P				N.S.			
		Unexposed Overall : time						
		non	never	non+othr	Total			
	N	34	6		40			
Het	P	*	*		**			
Fixed	RR	1.25	1.10		1.19			
	RR1	1.16	1.00		1.12			
	RRu	1.35	1.20		1.26			
	P	+++	(+)		+++			
Between	P				*			
		Number of adjustment variables						
		0	1	2	3-5	6-9	10+	Total
	N	18	3		7	7	5	40
Het	P	*	N.S.		*	**	N.S.	**
Fixed	RR	1.18	1.09		1.26	1.20	1.17	1.19
	RR1	1.05	0.83		1.07	1.05	1.07	1.12
	RRu	1.33	1.45		1.49	1.37	1.28	1.26
	P	++	N.S.		++	++	+++	+++
Between	P							N.S.
		RR adjusted for sex			Total			
		Yes	No					
	N	19	21	40				
Het	P	**	(*)	**				
Fixed	RR	1.20	1.17	1.19				
	RR1	1.12	1.04	1.12				
	RRu	1.28	1.30	1.26				
	P	+++	++	+++				
Between	P			N.S.				
		RR adjusted for age			Total			
		Yes	No					
	N	14	26	40				
Het	P	**	(*)	**				
Fixed	RR	1.16	1.23	1.19				
	RR1	1.08	1.12	1.12				
	RRu	1.25	1.35	1.26				
	P	+++	+++	+++				
Between	P			N.S.				
		RR adjusted for other ETS			Total			
		Yes	No					
	N	7	33	40				
Het	P	N.S.	**	**				
Fixed	RR	1.27	1.13	1.19				
	RR1	1.16	1.05	1.12				
	RRu	1.39	1.22	1.26				
	P	+++	++	+++				
Between	P			(*)				

Table A7 - 3

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

Adjusted				
RR adjusted for factor other than sex, age, other ETS				
		Yes	No	Total
	N	21	19	40
Het	P	**	*	**
Fixed	RR	1.20	1.16	1.19
	RRl	1.12	1.03	1.12
	RRu	1.28	1.30	1.26
	P	+++	+	+++
Between	P			N.S.

Derivation of RR/CI						
		Original	Numbers	SumNumbs	Other	Total
	N	13	8	6	13	40
Het	P	N.S.	N.S.	*	**	**
Fixed	RR	1.27	1.20	1.15	1.08	1.19
	RRl	1.17	1.02	0.95	0.98	1.12
	RRu	1.39	1.43	1.39	1.20	1.26
	P	+++	+	N.S.	N.S.	+++
Between	P					N.S.

Table A7 - 6

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

		Current Asthma Unadjusted						
		<u>Overall</u>						
	N	40						
	NS	40						
	Wt	1291.33						
	Het Chi	73.94						
	Het df	39						
	Het P	***						
Fixed	RR	1.25						
	RRl	1.19						
	RRu	1.32						
	P	+++						
Random	RR	1.23						
	RRl	1.13						
	RRu	1.34						
	P	+++						
Asymm	P	N.S.						
		<u>Sex</u>						
		both	male	female	Total			
	N	40			40			
	Het P	***			***			
Fixed	RR	1.25			1.25			
	RRl	1.19			1.19			
	RRu	1.32			1.32			
	P	+++			+++			
Between	P				N.S.			
		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	9	2	17	9	2	1	40
	Het P	N.S.	N.S.	N.S.	**	*	N.S.	***
Fixed	RR	1.19	1.47	1.24	1.33	1.19	2.12	1.25
	RRl	1.08	1.13	1.15	1.15	0.88	1.32	1.19
	RRu	1.31	1.92	1.35	1.53	1.62	3.42	1.32
	P	+++	++	+++	+++	N.S.	++	+++
Between	P							N.S.
		<u>Start year of study</u>						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N		3	11	24	2	40	
	Het P		(*)	N.S.	*	*	***	
Fixed	RR		0.95	1.36	1.26	1.31	1.25	
	RRl		0.80	1.23	1.17	0.98	1.19	
	RRu		1.13	1.52	1.35	1.73	1.32	
	P		N.S.	+++	+++	(+)	+++	
Between	P						**	
		<u>Study type</u>						
		CC	Pr	CS	Total			
	N	14	5	21	40			
	Het P	(*)	*	**	***			
Fixed	RR	1.30	1.15	1.25	1.25			
	RRl	1.19	1.01	1.15	1.19			
	RRu	1.42	1.32	1.35	1.32			
	P	+++	+	+++	+++			
Between	P				N.S.			

Table A25 -

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

This analysis is restricted to results for:

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

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

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

Finally by Age: whole study if available, otherwise by widest available age Overall
 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 Section -3
 and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A
 for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A25 - 3

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

		<u>Overall</u>						
	N	152						
	NS	145						
	Wt	10688.14						
Het	Chi	329.14						
Het	df	151						
Het	P	***						
Fixed	RR	1.18						
	RR1	1.15						
	RRu	1.20						
	P	+++						
Random	RR	1.22						
	RR1	1.17						
	RRu	1.27						
	P	+++						
Asymm	P	**						
		<u>Sex</u>						
		both	male	female	Total			
	N	137	8	7	152			
Het	P	***	**	N.S.	***			
Fixed	RR	1.18	1.12	1.08	1.18			
	RR1	1.15	0.97	0.91	1.15			
	RRu	1.20	1.29	1.28	1.20			
	P	+++	N.S.	N.S.	+++			
Between	P					N.S.		
		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	37	5	65	32	10	3	152
Het	P	*	N.S.	***	***	*	N.S.	***
Fixed	RR	1.25	1.52	1.24	1.11	1.14	1.64	1.18
	RR1	1.19	1.18	1.20	1.08	1.06	1.11	1.15
	RRu	1.32	1.95	1.29	1.14	1.23	2.42	1.20
	P	+++	++	+++	+++	+++	+	+++
Between	P	***						
		<u>Country in Europe</u>						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
	N	15	8	7	18	9	8	65
Het	P	*	N.S.	N.S.	**	(*)	**	***
Fixed	RR	1.28	1.23	1.13	1.17	1.20	1.26	1.24
	RR1	1.22	1.12	0.99	1.06	1.05	1.14	1.20
	RRu	1.35	1.36	1.30	1.29	1.37	1.39	1.29
	P	+++	+++	(+)	++	++	+++	+++
Between	P	N.S.						
		<u>Country in Asia</u>						
		FarEast	Cent/SE	MidlEast	Total			
	N	16	7	9	32			
Het	P	***	*	N.S.	***			
Fixed	RR	1.09	1.57	1.26	1.11			
	RR1	1.06	1.36	1.12	1.08			
	RRu	1.12	1.82	1.42	1.14			
	P	+++	+++	+++	+++			
Between	P	***						
		<u>Start year of study</u>						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N	5	14	40	75	18	152	
Het	P	N.S.	(*)	***	***	***	***	
Fixed	RR	1.23	1.23	1.25	1.13	1.27	1.18	
	RR1	1.08	1.13	1.19	1.11	1.21	1.15	
	RRu	1.41	1.34	1.31	1.16	1.33	1.20	
	P	++	+++	+++	+++	+++	+++	
Between	P	***						
		<u>Publication year</u>						
		<1990	1990-94	1995-99	2000+	Total		
	N	18	33	53	48	152		
Het	P	*	(*)	***	***	***	***	
Fixed	RR	1.14	1.27	1.13	1.24	1.18		
	RR1	1.03	1.20	1.10	1.20	1.15		
	RRu	1.26	1.35	1.16	1.28	1.20		
	P	+	+++	+++	+++	+++		
Between	P	***						

Table A25 - 3

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

		Study type					
		CC	Pr	CS	Total		
	N	35	20	97	152		
Het	P	**	N.S.	***	***		
Fixed	RR	1.31	1.26	1.14	1.18		
	RRl	1.22	1.20	1.12	1.15		
	RRu	1.40	1.32	1.17	1.20		
	P	+++	+++	+++	+++		
Between	P				***		
		Highest age in RR					
		0-9	10-14	15+	unknown	Total	
	N	32	57	61	2	152	
Het	P	**	***	***	N.S.	***	
Fixed	RR	1.28	1.22	1.13	1.56	1.18	
	RRl	1.20	1.18	1.10	1.02	1.15	
	RRu	1.35	1.26	1.16	2.40	1.20	
	P	+++	+++	+++	+	+++	
Between	P					***	
		Population setting					
		general	school	medical	allergy	other	Total
	N	26	80	37	4	5	152
Het	P	*	***	N.S.	N.S.	(*)	***
Fixed	RR	1.24	1.14	1.29	1.19	1.07	1.18
	RRl	1.16	1.11	1.24	0.94	0.91	1.15
	RRu	1.33	1.17	1.35	1.51	1.26	1.20
	P	+++	+++	+++	N.S.	N.S.	+++
Between	P						***
		Respondent for smoking					
		child	parent	med rec	mix/oth	Total	
	N	12	105	3	32	152	
Het	P	***	***	N.S.	*	***	
Fixed	RR	1.06	1.16	1.31	1.20	1.18	
	RRl	0.98	1.14	1.24	1.13	1.15	
	RRu	1.14	1.19	1.38	1.27	1.20	
	P	N.S.	+++	+++	+++	+++	
Between	P					***	
		Child smokers					
		exc/none	included	ignored	Total		
	N	23	15	114	152		
Het	P	(*)	**	***	***		
Fixed	RR	1.12	1.10	1.24	1.18		
	RRl	1.04	1.07	1.21	1.15		
	RRu	1.21	1.14	1.27	1.20		
	P	++	+++	+++	+++		
Between	P				***		
		Physician diagnosis (lifetime/current)					
		yes	no/mixed	Total			
	N	80	72	152			
Het	P	***	***	***			
Fixed	RR	1.21	1.16	1.18			
	RRl	1.18	1.13	1.15			
	RRu	1.26	1.18	1.20			
	P	+++	+++	+++			
Between	P			*			
		Respondent for diagnosis (lifetime/current)					
		medrec	parent	child	mixed	Total	
	N	28	89	18	17	152	
Het	P	N.S.	***	***	**	***	
Fixed	RR	1.30	1.23	1.08	1.18	1.18	
	RRl	1.23	1.20	1.05	1.09	1.15	
	RRu	1.36	1.27	1.11	1.29	1.20	
	P	+++	+++	+++	+++	+++	
Between	P					***	

Table A25 - 3

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

		<u>Questionnaire for symptoms</u>			
		ISAAC	ATS	other	Total
	N	24	19	109	152
Het	P	***	N.S.	***	***
Fixed	RR	1.12	1.22	1.24	1.18
	RR1	1.09	1.13	1.20	1.15
	RRu	1.15	1.32	1.27	1.20
	P	+++	+++	+++	+++
Between	P				***

		<u>Analysis type</u>		
		prevalence	onset	Total
	N	140	12	152
Het	P	***	N.S.	***
Fixed	RR	1.16	1.27	1.18
	RR1	1.14	1.20	1.15
	RRu	1.18	1.33	1.20
	P	+++	+++	+++
Between	P			**

		<u>Number of cases (lifetime/current asthma)</u>					Total
		1-50	51-100	101-200	201+	unknown	
	N	11	15	25	41	60	152
Het	P	(*)	*	**	*	***	***
Fixed	RR	1.50	1.41	1.23	1.22	1.13	1.18
	RR1	1.16	1.21	1.13	1.19	1.10	1.15
	RRu	1.94	1.64	1.34	1.26	1.16	1.20
	P	++	+++	+++	+++	+++	+++
Between	P						***

		<u>Study adjusts for or is matched on sex</u>		
		Yes	No	Total
	N	75	77	152
Het	P	***	***	***
Fixed	RR	1.15	1.24	1.18
	RR1	1.12	1.20	1.15
	RRu	1.17	1.28	1.20
	P	+++	+++	+++
Between	P			***

		<u>Study adjusts for or is matched on age</u>		
	N	53	99	152
Het	P	***	***	***
Fixed	RR	1.14	1.23	1.18
	RR1	1.11	1.19	1.15
	RRu	1.17	1.26	1.20
	P	+++	+++	+++
Between	P			***

		<u>Study adjusts for or is matched on race</u>		
	N	20	132	152
Het	P	***	***	***
Fixed	RR	1.25	1.17	1.18
	RR1	1.18	1.14	1.15
	RRu	1.33	1.19	1.20
	P	+++	+++	+++
Between	P			*

		<u>Study adjusts for or is matched on location</u>		
	N	44	108	152
Het	P	***	***	***
Fixed	RR	1.13	1.25	1.18
	RR1	1.10	1.21	1.15
	RRu	1.16	1.29	1.20
	P	+++	+++	+++
Between	P			***

Table A25 - 3

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

		Adjusted		
		<u>Study adjusts for or is matched on SES</u>		
		Yes	No	Total
	N	48	104	152
Het	P	***	***	***
Fixed	RR	1.13	1.25	1.18
	RR1	1.10	1.21	1.15
	RRu	1.16	1.28	1.20
	P	+++	+++	+++
Between	P			***
		<u>Study adjusts for family medical history</u>		
	N	52	100	152
Het	P	**	***	***
Fixed	RR	1.21	1.16	1.18
	RR1	1.17	1.14	1.15
	RRu	1.26	1.19	1.20
	P	+++	+++	+++
Between	P			(*)
		<u>Study adjusts for family composition</u>		
	N	25	127	152
Het	P	(*)	***	***
Fixed	RR	1.25	1.17	1.18
	RR1	1.17	1.14	1.15
	RRu	1.32	1.19	1.20
	P	+++	+++	+++
Between	P			*
		<u>Study adjusts for cooking, heating, air conditioning</u>		
	N	32	120	152
Het	P	***	***	***
Fixed	RR	1.12	1.23	1.18
	RR1	1.09	1.20	1.15
	RRu	1.15	1.26	1.20
	P	+++	+++	+++
Between	P			***
		<u>Study adjusts for housing quality, crowding, damp, mould</u>		
	N	32	120	152
Het	P	***	***	***
Fixed	RR	1.18	1.17	1.18
	RR1	1.12	1.15	1.15
	RRu	1.25	1.20	1.20
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for pets, animal contact, farming</u>		
	N	28	124	152
Het	P	***	***	***
Fixed	RR	1.22	1.17	1.18
	RR1	1.15	1.15	1.15
	RRu	1.29	1.19	1.20
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for child's medical history</u>		
	N	43	109	152
Het	P	**	***	***
Fixed	RR	1.23	1.17	1.18
	RR1	1.17	1.14	1.15
	RRu	1.30	1.19	1.20
	P	+++	+++	+++
Between	P			*
		<u>Study adjusts for in utero exposure</u>		
	N	11	141	152
Het	P	*	***	***
Fixed	RR	1.10	1.18	1.18
	RR1	1.02	1.16	1.15
	RRu	1.19	1.20	1.20
	P	+	+++	+++
Between	P			(*)

Table A25 - 3

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

		Adjusted						
		Study adjusts for in life exposure						
		Yes	No	Total				
	N	31	121	152				
Het	P	**	***	***				
Fixed	RR	1.21	1.17	1.18				
	RR1	1.15	1.15	1.15				
	RRu	1.27	1.19	1.20				
	P	+++	+++	+++				
Between	P			N.S.				
<u>Asthma definition (lifetime/current)</u>								
		lifetime	current	Total				
	N	93	59	152				
Het	P	***	***	***				
Fixed	RR	1.24	1.13	1.18				
	RR1	1.20	1.10	1.15				
	RRu	1.27	1.16	1.20				
	P	+++	+++	+++				
Between	P			***				
<u>Exposed Overall : Source/who is smoker</u>								
		Biochem	TotETS	AnyHh	AnyPar	Mother	Father	Total
	N	3	5	67	34	40	3	152
Het	P	N.S.	N.S.	***	N.S.	**	N.S.	***
Fixed	RR	1.40	1.39	1.13	1.21	1.30	1.08	1.18
	RR1	1.01	1.11	1.10	1.14	1.25	0.87	1.15
	RRu	1.93	1.75	1.15	1.29	1.35	1.35	1.20
	P	+	++	+++	+++	+++	N.S.	+++
Between	P							***
<u>Exposed Overall : when Exposed</u>								
		lif/ev	age<7y	current	unspec	other	Total	
	N	29	14	46	59	4	152	
Het	P	**	**	***	***	N.S.	***	
Fixed	RR	1.23	1.29	1.22	1.12	1.46	1.18	
	RR1	1.18	1.19	1.17	1.10	1.15	1.15	
	RRu	1.28	1.41	1.27	1.15	1.86	1.20	
	P	+++	+++	+++	+++	++	+++	
Between	P						***	
<u>Unexposed Overall : who is smoker</u>								
		NoHhMemb	NoParent	NotSpPar	Total			
	N	76	36	40	152			
Het	P	***	N.S.	**	***			
Fixed	RR	1.13	1.21	1.30	1.18			
	RR1	1.10	1.13	1.25	1.15			
	RRu	1.16	1.28	1.35	1.20			
	P	+++	+++	+++	+++			
Between	P				***			
<u>Unexposed Overall : time</u>								
		non	never	non+othr	NA	Total		
	N	134	15		3	152		
Het	P	***	*		N.S.	***		
Fixed	RR	1.16	1.27		1.40	1.18		
	RR1	1.13	1.21		1.01	1.15		
	RRu	1.18	1.33		1.93	1.20		
	P	+++	+++		+	+++		
Between	P					***		
<u>Number of adjustment variables</u>								
		0	1	2	3-5	6-9	10+	Total
	N	74	16	4	16	31	11	152
Het	P	**	*	N.S.	***	***	N.S.	***
Fixed	RR	1.23	1.19	1.37	1.16	1.13	1.25	1.18
	RR1	1.19	1.07	1.20	1.07	1.10	1.15	1.15
	RRu	1.27	1.31	1.57	1.25	1.16	1.36	1.20
	P	+++	+++	+++	+++	+++	+++	+++
Between	P							***

Table A25 - 3

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

		<u>RR adjusted for sex</u>				
		Yes	No	Total		
	N	49	103	152		
Het	P	***	***	***		
Fixed	RR	1.15	1.21	1.18		
	RR1	1.12	1.18	1.15		
	RRu	1.18	1.25	1.20		
	P	+++	+++	+++		
Between	P			**		
		<u>RR adjusted for age</u>				
	N	39	113	152		
Het	P	***	***	***		
Fixed	RR	1.13	1.23	1.18		
	RR1	1.10	1.20	1.15		
	RRu	1.16	1.27	1.20		
	P	+++	+++	+++		
Between	P			***		
		<u>RR adjusted for other ETS</u>				
	N	16	136	152		
Het	P	*	***	***		
Fixed	RR	1.25	1.17	1.18		
	RR1	1.16	1.15	1.15		
	RRu	1.34	1.19	1.20		
	P	+++	+++	+++		
Between	P			(*)		
		<u>RR adjusted for factor other than sex, age, other ETS</u>				
	N	73	79	152		
Het	P	***	***	***		
Fixed	RR	1.15	1.23	1.18		
	RR1	1.12	1.19	1.15		
	RRu	1.17	1.27	1.20		
	P	+++	+++	+++		
Between	P			***		
		<u>Derivation of RR/CI</u>				
	Original	Numbers	SumNumbs	Other	Total	
	N	56	45	19	32	152
Het	P	***	**	(*)	***	***
Fixed	RR	1.15	1.20	1.10	1.23	1.18
	RR1	1.13	1.14	1.00	1.19	1.15
	RRu	1.18	1.26	1.20	1.29	1.20
	P	+++	+++	+	+++	+++
Between	P					*

Table A25 - 6

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

		<u>Overall</u>						
	N	154						
	NS	145						
	Wt	11905.13						
Het	Chi	425.46						
Het	df	153						
Het	P	***						
Fixed	RR	1.16						
	RR1	1.14						
	RRu	1.18						
	P	+++						
Random	RR	1.24						
	RR1	1.19						
	RRu	1.29						
	P	+++						
Asymm	P	***						
		<u>Sex</u>						
		both	male	female	Total			
	N	135	10	9	154			
Het	P	***	**	N.S.	***			
Fixed	RR	1.15	1.20	1.30	1.16			
	RR1	1.13	1.09	1.15	1.14			
	RRu	1.17	1.33	1.46	1.18			
	P	+++	+++	+++	+++			
Between	P	N.S.						
		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	37	5	66	32	11	3	154
Het	P	**	N.S.	***	***	**	N.S.	***
Fixed	RR	1.27	1.52	1.26	1.06	1.20	2.07	1.16
	RR1	1.21	1.18	1.22	1.04	1.12	1.43	1.14
	RRu	1.33	1.95	1.30	1.09	1.28	3.01	1.18
	P	+++	++	+++	+++	+++	+++	+++
Between	P	***						
		<u>Start year of study</u>						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N	6	15	40	75	18	154	
Het	P	N.S.	(*)	***	***	***	***	
Fixed	RR	1.30	1.25	1.25	1.10	1.28	1.16	
	RR1	1.17	1.15	1.19	1.08	1.22	1.14	
	RRu	1.44	1.36	1.31	1.13	1.34	1.18	
	P	+++	+++	+++	+++	+++	+++	
Between	P	***						
		<u>Study type</u>			Total			
		CC	Pr	CS	Total			
	N	35	20	99	154			
Het	P	**	*	***	***			
Fixed	RR	1.33	1.27	1.12	1.16			
	RR1	1.25	1.21	1.10	1.14			
	RRu	1.42	1.33	1.14	1.18			
	P	+++	+++	+++	+++			
Between	P	***						

Table A26 -

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

This analysis is restricted to results for:

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

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

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

Finally by Age: whole study if available, otherwise by widest available age Overall
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 Section -3
and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A
for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A26 - 3

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

		<u>Overall</u>							
	N	95							
	NS	91							
	Wt	4170.68							
Het	Chi	144.79							
Het	df	94							
Het	P	***							
Fixed	RR	1.26							
	RR1	1.22							
	RRu	1.30							
	P	+++							
Random	RR	1.25							
	RR1	1.19							
	RRu	1.31							
	P	+++							
Asymm	P	N.S.							
		<u>Sex</u>							
		both	male	female	Total				
	N	86	5	4	95				
Het	P	***	N.S.	N.S.	***				
Fixed	RR	1.26	1.34	1.18	1.26				
	RR1	1.22	1.09	0.93	1.22				
	RRu	1.30	1.64	1.50	1.30				
	P	+++	++	N.S.	+++				
Between	P					N.S.			
		<u>Continent</u>							
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total	
	N	26	3	41	18	6	1	95	
Het	P	N.S.	N.S.	***	(*)	*	N.S.	***	
Fixed	RR	1.35	1.48	1.25	1.19	1.20	1.41	1.26	
	RR1	1.25	1.14	1.20	1.08	1.08	0.84	1.22	
	RRu	1.44	1.92	1.30	1.31	1.33	2.36	1.30	
	P	+++	++	+++	+++	+++	N.S.	+++	
Between	P	N.S.							
		<u>Country in Europe</u>							
		UK	Italy	Germany	Scand	othWest	East/Bal	Total	
	N	13	4	3	12	7	2	41	
Het	P	(*)	N.S.	*	**	(*)	N.S.	***	
Fixed	RR	1.31	1.22	1.12	1.12	1.15	1.21	1.25	
	RR1	1.24	1.09	0.94	1.00	0.98	0.99	1.20	
	RRu	1.37	1.36	1.34	1.26	1.36	1.47	1.30	
	P	+++	+++	N.S.	(+)	(+)	(+)	+++	
Between	P	N.S.							
		<u>Country in Asia</u>							
		FarEast	Cent/SE	MidlEast	Total				
	N	8	1	9	18				
Het	P	N.S.	N.S.	N.S.	(*)				
Fixed	RR	1.04	0.79	1.32	1.19				
	RR1	0.89	0.42	1.16	1.08				
	RRu	1.21	1.47	1.49	1.31				
	P	N.S.	N.S.	+++	+++				
Between	P					*			
		<u>Start year of study</u>							
		<1970	1970-79	1980-89	1990+	unknown	Total		
	N	5	11	30	39	10	95		
Het	P	N.S.	*	*	*	N.S.	***		
Fixed	RR	1.23	1.22	1.34	1.18	1.30	1.26		
	RR1	1.08	1.12	1.25	1.11	1.24	1.22		
	RRu	1.41	1.33	1.42	1.25	1.37	1.30		
	P	++	+++	+++	+++	+++	+++		
Between	P	*							
		<u>Publication year</u>							
		<1990	1990-94	1995-99	2000+	Total			
	N	16	26	29	24	95			
Het	P	**	*	N.S.	*	***			
Fixed	RR	1.17	1.28	1.30	1.25	1.26			
	RR1	1.06	1.19	1.23	1.19	1.22			
	RRu	1.30	1.37	1.38	1.30	1.30			
	P	++	+++	+++	+++	+++			
Between	P	N.S.							

Table A26 - 3

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

		<u>Study type</u>					
		CC	Pr	CS	Total		
	N	22	15	58	95		
Het	P	*	N.S.	**	***		
Fixed	RR	1.28	1.27	1.25	1.26		
	RRl	1.17	1.21	1.20	1.22		
	RRu	1.39	1.33	1.31	1.30		
	P	+++	+++	+++	+++		
Between	P				N.S.		
		<u>Highest age in RR</u>					
		0-9	10-14	15+	unknown	Total	
	N	22	31	40	2	95	
Het	P	**	(*)	*	N.S.	***	
Fixed	RR	1.28	1.24	1.28	1.54	1.26	
	RRl	1.19	1.19	1.21	1.04	1.22	
	RRu	1.38	1.30	1.35	2.29	1.30	
	P	+++	+++	+++	+	+++	
Between	P					N.S.	
		<u>Population setting</u>					
		general	school	medical	allergy	other	Total
	N	22	41	26	3	3	95
Het	P	*	*	N.S.	N.S.	N.S.	***
Fixed	RR	1.22	1.24	1.32	1.19	1.13	1.26
	RRl	1.14	1.18	1.25	0.92	0.96	1.22
	RRu	1.31	1.30	1.38	1.53	1.33	1.30
	P	+++	+++	+++	N.S.	N.S.	+++
Between	P						N.S.
		<u>Respondent for smoking</u>					
		child	parent	med rec	mix/oth	Total	
	N	5	63	3	24	95	
Het	P	*	***	N.S.	N.S.	***	
Fixed	RR	1.11	1.23	1.31	1.30	1.26	
	RRl	0.95	1.18	1.24	1.21	1.22	
	RRu	1.29	1.29	1.38	1.40	1.30	
	P	N.S.	+++	+++	+++	+++	
Between	P					(*)	
		<u>Child smokers</u>					
		exc/none	included	ignored	Total		
	N	18	11	66	95		
Het	P	N.S.	N.S.	**	***		
Fixed	RR	1.18	1.30	1.27	1.26		
	RRl	1.08	1.20	1.22	1.22		
	RRu	1.30	1.42	1.31	1.30		
	P	+++	+++	+++	+++		
Between	P				N.S.		
		<u>Physician diagnosis (current/lifetime)</u>					
		yes	no/mix	Total			
	N	43	52	95			
Het	P	**	(*)	***			
Fixed	RR	1.28	1.24	1.26			
	RRl	1.23	1.19	1.22			
	RRu	1.34	1.30	1.30			
	P	+++	+++	+++			
Between	P			N.S.			
		<u>Respondent for diagnosis (current/lifetime)</u>					
		medrec	parent	child	mixed	Total	
	N	22	57	10	6	95	
Het	P	(*)	(*)	*	N.S.	***	
Fixed	RR	1.30	1.27	1.05	1.17	1.26	
	RRl	1.24	1.22	0.94	0.99	1.22	
	RRu	1.37	1.32	1.18	1.38	1.30	
	P	+++	+++	N.S.	(+)	+++	
Between	P					**	

Table A26 - 3

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

		<u>Questionnaire for symptoms</u>			
		ISAAC	ATS	other	Total
	N	14	10	71	95
Het	P	N.S.	N.S.	***	***
Fixed	RR	1.21	1.28	1.27	1.26
	RR1	1.13	1.17	1.23	1.22
	RRu	1.30	1.40	1.32	1.30
	P	+++	+++	+++	+++
Between	P				N.S.

		<u>Analysis type</u>		
		prevalence	onset	Total
	N	85	10	95
Het	P	***	(*)	***
Fixed	RR	1.26	1.26	1.26
	RR1	1.21	1.20	1.22
	RRu	1.31	1.33	1.30
	P	+++	+++	+++
Between	P			N.S.

		<u>Number of cases (current/lifetime asthma)</u>					Total
		1-50	51-100	101-200	201+	unknown	
	N	8	8	11	14	54	95
Het	P	N.S.	*	**	N.S.	*	***
Fixed	RR	1.18	1.08	1.15	1.27	1.28	1.26
	RR1	0.89	0.91	1.02	1.18	1.23	1.22
	RRu	1.56	1.28	1.31	1.35	1.33	1.30
	P	N.S.	N.S.	+	+++	+++	+++
Between	P						N.S.

		<u>Study adjusts for or is matched on sex</u>		
		Yes	No	Total
	N	49	46	95
Het	P	**	*	***
Fixed	RR	1.24	1.28	1.26
	RR1	1.18	1.23	1.22
	RRu	1.30	1.33	1.30
	P	+++	+++	+++
Between	P			N.S.

		<u>Study adjusts for or is matched on age</u>		
		Yes	No	Total
	N	33	62	95
Het	P	**	*	***
Fixed	RR	1.24	1.27	1.26
	RR1	1.17	1.23	1.22
	RRu	1.31	1.32	1.30
	P	+++	+++	+++
Between	P			N.S.

		<u>Study adjusts for or is matched on race</u>		
		Yes	No	Total
	N	12	83	95
Het	P	N.S.	***	***
Fixed	RR	1.35	1.25	1.26
	RR1	1.24	1.21	1.22
	RRu	1.46	1.29	1.30
	P	+++	+++	+++
Between	P			(*)

		<u>Study adjusts for or is matched on location</u>		
		Yes	No	Total
	N	25	70	95
Het	P	*	**	***
Fixed	RR	1.22	1.28	1.26
	RR1	1.16	1.23	1.22
	RRu	1.29	1.32	1.30
	P	+++	+++	+++
Between	P			N.S.

Table A26 - 3

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

		Adjusted		
		<u>Study adjusts for or is matched on SES</u>		
		Yes	No	Total
	N	31	64	95
Het	P	**	*	***
Fixed	RR	1.23	1.28	1.26
	RR1	1.17	1.23	1.22
	RRu	1.30	1.33	1.30
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for family medical history</u>		
	N	31	64	95
Het	P	(*)	**	***
Fixed	RR	1.23	1.28	1.26
	RR1	1.17	1.23	1.22
	RRu	1.30	1.33	1.30
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for family composition</u>		
	N	17	78	95
Het	P	*	**	***
Fixed	RR	1.23	1.27	1.26
	RR1	1.15	1.23	1.22
	RRu	1.32	1.31	1.30
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for cooking, heating, air conditioning</u>		
	N	11	84	95
Het	P	N.S.	***	***
Fixed	RR	1.25	1.26	1.26
	RR1	1.16	1.22	1.22
	RRu	1.35	1.31	1.30
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for housing quality, crowding, damp, mould</u>		
	N	15	80	95
Het	P	N.S.	***	***
Fixed	RR	1.19	1.28	1.26
	RR1	1.11	1.23	1.22
	RRu	1.29	1.32	1.30
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for pets, animal contact, farming</u>		
	N	13	82	95
Het	P	N.S.	***	***
Fixed	RR	1.21	1.27	1.26
	RR1	1.08	1.23	1.22
	RRu	1.35	1.31	1.30
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for child's medical history</u>		
	N	29	66	95
Het	P	(*)	**	***
Fixed	RR	1.26	1.26	1.26
	RR1	1.18	1.22	1.22
	RRu	1.35	1.30	1.30
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for in utero exposure</u>		
	N	7	88	95
Het	P	(*)	**	***
Fixed	RR	1.21	1.27	1.26
	RR1	1.09	1.23	1.22
	RRu	1.36	1.31	1.30
	P	+++	+++	+++
Between	P			N.S.

Table A26 - 3

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

		Study adjusts for in life exposure			Adjusted			
		Yes	No	Total				
	N	24	71	95				
Het	P	N.S.	***	***				
Fixed	RR	1.29	1.25	1.26				
	RRl	1.21	1.21	1.22				
	RRu	1.36	1.30	1.30				
	P	+++	+++	+++				
Between	P			N.S.				
<u>Asthma definition (lifetime/current)</u>								
		lifetime	current	Total				
	N	63	32	95				
Het	P	*	**	***				
Fixed	RR	1.27	1.21	1.26				
	RRl	1.23	1.14	1.22				
	RRu	1.32	1.30	1.30				
	P	+++	+++	+++				
Between	P			N.S.				
<u>Exposed Overall : who is smoker</u>								
		AnyPar	Mother	Father	Total			
	N	36	54	5	95			
Het	P	N.S.	***	N.S.	***			
Fixed	RR	1.21	1.30	0.99	1.26			
	RRl	1.14	1.25	0.83	1.22			
	RRu	1.28	1.34	1.17	1.30			
	P	+++	+++	N.S.	+++			
Between	P				**			
<u>Exposed Overall : when Exposed</u>								
		lif/ev	age<7y	current	unspec	other	Total	
	N	27	8	28	31	1	95	
Het	P	**	***	(*)	N.S.	N.S.	***	
Fixed	RR	1.25	1.27	1.25	1.28	1.55	1.26	
	RRl	1.20	1.16	1.18	1.19	1.09	1.22	
	RRu	1.31	1.40	1.33	1.37	2.20	1.30	
	P	+++	+++	+++	+++	+	+++	
Between	P						N.S.	
<u>Unexposed Overall : who is smoker</u>								
		NoHhMemb	NoParent	NotSpPar	Total			
	N	5	37	53	95			
Het	P	N.S.	N.S.	***	***			
Fixed	RR	0.93	1.21	1.29	1.26			
	RRl	0.75	1.14	1.25	1.22			
	RRu	1.17	1.28	1.34	1.30			
	P	N.S.	+++	+++	+++			
Between	P				**			
<u>Unexposed Overall : time</u>								
		non	never	non+othr	Total			
	N	79	16		95			
Het	P	**	*		***			
Fixed	RR	1.25	1.27		1.26			
	RRl	1.20	1.22		1.22			
	RRu	1.30	1.34		1.30			
	P	+++	+++		+++			
Between	P				N.S.			
<u>Number of adjustment variables</u>								
		0	1	2	3-5	6-9	10+	Total
	N	47	13	2	11	16	6	95
Het	P	(*)	*	N.S.	**	**	N.S.	***
Fixed	RR	1.27	1.28	1.23	1.27	1.23	1.25	1.26
	RRl	1.22	1.12	1.03	1.15	1.14	1.13	1.22
	RRu	1.32	1.46	1.47	1.41	1.33	1.38	1.30
	P	+++	+++	+	+++	+++	+++	+++
Between	P							N.S.

Table A26 - 3

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

		<u>RR adjusted for sex</u>		
		Yes	No	Total
	N	31	64	95
Het	P	**	*	***
Fixed	RR	1.24	1.27	1.26
	RR1	1.18	1.22	1.22
	RRu	1.31	1.32	1.30
	P	+++	+++	+++
Between	P			N.S.

		<u>RR adjusted for age</u>		
		Yes	No	Total
	N	23	72	95
Het	P	**	**	***
Fixed	RR	1.23	1.27	1.26
	RR1	1.15	1.23	1.22
	RRu	1.31	1.32	1.30
	P	+++	+++	+++
Between	P			N.S.

		<u>RR adjusted for other ETS</u>		
		Yes	No	Total
	N	11	84	95
Het	P	N.S.	***	***
Fixed	RR	1.30	1.25	1.26
	RR1	1.20	1.21	1.22
	RRu	1.41	1.30	1.30
	P	+++	+++	+++
Between	P			N.S.

		<u>RR adjusted for factor other than sex, age, other ETS</u>		
		Yes	No	Total
	N	44	51	95
Het	P	***	(*)	***
Fixed	RR	1.26	1.26	1.26
	RR1	1.20	1.21	1.22
	RRu	1.32	1.31	1.30
	P	+++	+++	+++
Between	P			N.S.

		<u>Derivation of RR/CI</u>				
		Original	Numbers	SumNumbs	Other	Total
	N	35	23	17	20	95
Het	P	(*)	N.S.	N.S.	***	***
Fixed	RR	1.27	1.32	1.18	1.25	1.26
	RR1	1.20	1.23	1.07	1.19	1.22
	RRu	1.33	1.43	1.30	1.31	1.30
	P	+++	+++	++	+++	+++
Between	P					N.S.

Table A26 - 6

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

		<u>Overall</u>						
	N	96						
	NS	91						
	Wt	4582.92						
	Het Chi	145.46						
	Het df	95						
	Het P	***						
Fixed	RR	1.28						
	RR1	1.24						
	RRu	1.32						
	P	+++						
Random	RR	1.27						
	RR1	1.22						
	RRu	1.33						
	P	+++						
Asymm	P	N.S.						
		<u>Sex</u>						
		both	male	female	Total			
	N	85	6	5	96			
	Het P	***	N.S.	N.S.	***			
Fixed	RR	1.28	1.29	1.34	1.28			
	RR1	1.24	1.14	1.16	1.24			
	RRu	1.32	1.46	1.55	1.32			
	P	+++	+++	+++	+++			
Between	P	N.S.						
		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	26	3	41	18	7	1	96
	Het P	N.S.	N.S.	**	**	*	N.S.	***
Fixed	RR	1.35	1.48	1.26	1.26	1.27	2.12	1.28
	RR1	1.26	1.14	1.21	1.15	1.17	1.32	1.24
	RRu	1.45	1.92	1.31	1.38	1.38	3.42	1.32
	P	+++	++	+++	+++	+++	++	+++
Between	P	N.S.						
		<u>Start year of study</u>					Total	
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N	6	11	30	39	10	96	
	Het P	N.S.	*	**	N.S.	*	***	
Fixed	RR	1.30	1.23	1.33	1.23	1.31	1.28	
	RR1	1.17	1.13	1.25	1.16	1.24	1.24	
	RRu	1.44	1.35	1.41	1.30	1.38	1.32	
	P	+++	+++	+++	+++	+++	+++	
Between	P	N.S.						
		<u>Study type</u>				Total		
		CC	Pr	CS	Total			
	N	22	15	59	96			
	Het P	*	*	*	***			
Fixed	RR	1.30	1.28	1.27	1.28			
	RR1	1.20	1.22	1.22	1.24			
	RRu	1.41	1.34	1.33	1.32			
	P	+++	+++	+++	+++			
Between	P	N.S.						

Table A31 -

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

This analysis is restricted to results for:

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

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

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

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

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 Section -3 and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A31 - 3

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

		<u>Overall</u>						
	N	53						
	NS	50						
	Wt	3134.15						
	Het Chi	87.69						
	Het df	52						
	Het P	**						
Fixed	RR	1.22						
	RR1	1.18						
	RRu	1.27						
	P	+++						
Random	RR	1.20						
	RR1	1.14						
	RRu	1.27						
	P	+++						
Asymm	P	N.S.						
		<u>Sex</u>						
		both	male	female	Total			
	N	47	3	3	53			
	Het P	**	N.S.	N.S.	**			
Fixed	RR	1.23	1.03	1.13	1.22			
	RR1	1.19	0.86	0.93	1.18			
	RRu	1.28	1.24	1.39	1.27			
	P	+++	N.S.	N.S.	+++			
Between	P	N.S.						
		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	21	1	19	7	5		53
	Het P	N.S.	N.S.	*	N.S.	N.S.		**
Fixed	RR	1.23	1.57	1.27	1.04	1.09		1.22
	RR1	1.13	0.53	1.22	0.91	0.99		1.18
	RRu	1.34	4.66	1.33	1.18	1.20		1.27
	P	+++	N.S.	+++	N.S.	(+)		+++
Between	P	**						
		<u>Country in Europe</u>						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
	N	6		6	2	2	3	19
	Het P	**		N.S.	N.S.	N.S.	N.S.	*
Fixed	RR	1.28		1.11	1.54	1.19	1.38	1.27
	RR1	1.21		0.96	1.08	0.94	1.21	1.22
	RRu	1.35		1.28	2.20	1.51	1.56	1.33
	P	+++		N.S.	+	N.S.	+++	+++
Between	P	N.S.						
		<u>Country in Asia</u>						
		FarEast	Cent/SE	MidlEast	Total			
	N	5	1	1	7			
	Het P	N.S.	N.S.	N.S.	N.S.			
Fixed	RR	0.99	1.07	1.51	1.04			
	RR1	0.87	0.58	1.00	0.91			
	RRu	1.14	1.99	2.28	1.18			
	P	N.S.	N.S.	+	N.S.			
Between	P	N.S.						
		<u>Start year of study</u>						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N	1	9	15	24	4	53	
	Het P	N.S.	N.S.	N.S.	**	**	**	
Fixed	RR	1.29	1.17	1.30	1.18	1.25	1.22	
	RR1	0.92	1.03	1.17	1.11	1.19	1.18	
	RRu	1.80	1.32	1.44	1.25	1.32	1.27	
	P	N.S.	+	+++	+++	+++	+++	
Between	P	N.S.						
		<u>Publication year</u>						
		<1990	1990-94	1995-99	2000+	Total		
	N	8	12	21	12	53		
	Het P	*	N.S.	*	N.S.	**		
Fixed	RR	1.15	1.19	1.19	1.27	1.22		
	RR1	0.99	1.08	1.12	1.21	1.18		
	RRu	1.33	1.31	1.26	1.33	1.27		
	P	(+)	+++	+++	+++	+++		
Between	P	N.S.						

Table A31 - 3

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

		<u>Study type</u>				
		CC	Pr	CS	Total	
	N	7	11	35	53	
Het	P	(*)	N.S.	*	**	
Fixed	RR	1.42	1.29	1.16	1.22	
	RR1	1.15	1.22	1.10	1.18	
	RRu	1.74	1.36	1.22	1.27	
	P	+++	+++	+++	+++	
Between	P				**	

		<u>Highest age in RR</u>				
		0-9	10-14	15+	unknown	Total
	N	13	19	20	1	53
Het	P	**	**	N.S.	N.S.	**
Fixed	RR	1.19	1.24	1.19	1.18	1.22
	RR1	1.07	1.19	1.11	0.62	1.18
	RRu	1.32	1.30	1.27	2.24	1.27
	P	+++	+++	+++	N.S.	+++
Between	P					N.S.

		<u>Population setting</u>					
		general	school	medical	allergy	other	Total
	N	10	21	16	3	3	53
Het	P	N.S.	**	N.S.	N.S.	N.S.	**
Fixed	RR	1.25	1.12	1.30	1.16	1.35	1.22
	RR1	1.10	1.05	1.23	0.91	1.00	1.18
	RRu	1.42	1.18	1.36	1.47	1.82	1.27
	P	+++	+++	+++	N.S.	+	+++
Between	P						**

		<u>Respondent for smoking</u>					
		child	parent	med rec	mix/oth	Total	
	N	5	32	3	13	53	
Het	P	N.S.	*	N.S.	N.S.	**	
Fixed	RR	0.98	1.22	1.31	1.19	1.22	
	RR1	0.87	1.15	1.24	1.08	1.18	
	RRu	1.10	1.29	1.38	1.30	1.27	
	P	N.S.	+++	+++	+++	+++	
Between	P					***	

		<u>Child smokers</u>				
		exc/none	included	ignored	Total	
	N	14	6	33	53	
Het	P	N.S.	N.S.	**	**	
Fixed	RR	1.07	1.29	1.24	1.22	
	RR1	0.97	1.12	1.20	1.18	
	RRu	1.18	1.48	1.29	1.27	
	P	N.S.	+++	+++	+++	
Between	P				*	

		<u>Physician diagnosis (lifetime)</u>			
		yes	no/mixed	Total	
	N	53		53	
Het	P	**		**	
Fixed	RR	1.22		1.22	
	RR1	1.18		1.18	
	RRu	1.27		1.27	
	P	+++		+++	
Between	P			N.S.	

		<u>Respondent for diagnosis (lifetime)</u>				
		medrec	parent	child	mixed	Total
	N	12	31	7	3	53
Het	P	N.S.	(*)	(*)	N.S.	**
Fixed	RR	1.30	1.20	1.01	1.39	1.22
	RR1	1.23	1.14	0.91	1.07	1.18
	RRu	1.37	1.27	1.13	1.81	1.27
	P	+++	+++	N.S.	+	+++
Between	P					***

Table A31 - 3

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

		Questionnaire for symptoms			
		ISAAC	ATS	other	Total
	N	5	4	44	53
Het	P	*	N.S.	*	**
Fixed	RR	1.07	1.14	1.24	1.22
	RR1	0.95	0.91	1.20	1.18
	RRu	1.20	1.42	1.29	1.27
	P	N.S.	N.S.	+++	+++
Between	P				*

		Analysis type		
		prevlnce	onset	Total
	N	44	9	53
Het	P	**	N.S.	**
Fixed	RR	1.18	1.28	1.22
	RR1	1.13	1.22	1.18
	RRu	1.24	1.35	1.27
	P	+++	+++	+++
Between	P			*

		Number of cases (lifetime asthma)					Total
		1-50	51-100	101-200	201+	unknown	
	N	6	10	13	23	1	53
Het	P	N.S.	N.S.	*	**	N.S.	**
Fixed	RR	1.33	1.46	1.25	1.21	1.36	1.22
	RR1	0.93	1.22	1.11	1.16	0.99	1.18
	RRu	1.90	1.76	1.41	1.25	1.87	1.27
	P	N.S.	+++	+++	+++	(+)	+++
Between	P						N.S.

		Study adjusts for or is matched on sex		
		Yes	No	Total
	N	22	31	53
Het	P	*	*	**
Fixed	RR	1.15	1.25	1.22
	RR1	1.07	1.20	1.18
	RRu	1.23	1.30	1.27
	P	+++	+++	+++
Between	P			*

		Study adjusts for or is matched on age		
	N	13	40	53
Het	P	N.S.	**	**
Fixed	RR	1.09	1.25	1.22
	RR1	1.00	1.20	1.18
	RRu	1.19	1.30	1.27
	P	+	+++	+++
Between	P			**

		Study adjusts for or is matched on race		
	N	9	44	53
Het	P	*	**	**
Fixed	RR	1.18	1.23	1.22
	RR1	1.06	1.18	1.18
	RRu	1.33	1.27	1.27
	P	++	+++	+++
Between	P			N.S.

		Study adjusts for or is matched on location		
	N	9	44	53
Het	P	(*)	*	**
Fixed	RR	1.09	1.25	1.22
	RR1	1.00	1.20	1.18
	RRu	1.19	1.30	1.27
	P	+	+++	+++
Between	P			**

Table A31 - 3

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

		Adjusted		
		<u>Study adjusts for or is matched on SES</u>		
		Yes	No	Total
	N	17	36	53
Het	P	**	*	**
Fixed	RR	1.18	1.23	1.22
	RR1	1.08	1.18	1.18
	RRu	1.29	1.28	1.27
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for family medical history</u>		
	N	18	35	53
Het	P	N.S.	**	**
Fixed	RR	1.19	1.23	1.22
	RR1	1.11	1.18	1.18
	RRu	1.28	1.28	1.27
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for family composition</u>		
	N	9	44	53
Het	P	N.S.	***	**
Fixed	RR	1.28	1.22	1.22
	RR1	1.14	1.17	1.18
	RRu	1.44	1.26	1.27
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for cooking, heating, air conditioning</u>		
	N	7	46	53
Het	P	N.S.	**	**
Fixed	RR	1.35	1.21	1.22
	RR1	1.18	1.17	1.18
	RRu	1.55	1.26	1.27
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for housing quality, crowding, damp, mould</u>		
	N	7	46	53
Het	P	N.S.	**	**
Fixed	RR	1.38	1.22	1.22
	RR1	1.18	1.17	1.18
	RRu	1.61	1.26	1.27
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for pets, animal contact, farming</u>		
	N	5	48	53
Het	P	N.S.	***	**
Fixed	RR	1.26	1.22	1.22
	RR1	1.10	1.18	1.18
	RRu	1.44	1.27	1.27
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for child's medical history</u>		
	N	17	36	53
Het	P	*	*	**
Fixed	RR	1.18	1.24	1.22
	RR1	1.11	1.19	1.18
	RRu	1.27	1.29	1.27
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for in utero exposure</u>		
	N	4	49	53
Het	P	N.S.	**	**
Fixed	RR	0.99	1.24	1.22
	RR1	0.85	1.19	1.18
	RRu	1.15	1.28	1.27
	P	N.S.	+++	+++
Between	P			**

Table A31 - 3

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

<u>Study adjusts for in life exposure</u>			
	Yes	No	Total
N	8	45	53
Het P	N.S.	**	**
Fixed RR	1.09	1.25	1.22
RR1	0.99	1.20	1.18
RRu	1.19	1.29	1.27
P	(+)	+++	+++
Between P			**

<u>Exposed Overall : Source/who is smoker</u>							
	Biochem	TotETS	AnyHh	AnyPar	Mother	Father	Total
N	2	3	26	8	12	2	53
Het P	N.S.	N.S.	*	N.S.	*	N.S.	**
Fixed RR	1.36	1.65	1.15	1.30	1.28	1.15	1.22
RR1	0.97	1.12	1.09	1.11	1.22	0.88	1.18
RRu	1.91	2.43	1.21	1.52	1.35	1.49	1.27
P	(+)	+	+++	++	+++	N.S.	+++
Between P							*

<u>Exposed Overall : when Exposed</u>						
	lif/ev	age<7y	current	unspec	other	Total
N	15	4	14	17	3	53
Het P	(*)	***	N.S.	N.S.	N.S.	**
Fixed RR	1.25	1.39	1.28	1.13	1.45	1.22
RR1	1.20	1.05	1.16	1.06	1.14	1.18
RRu	1.32	1.84	1.42	1.20	1.85	1.27
P	+++	+	+++	+++	++	+++
Between P						*

<u>Unexposed Overall : who is smoker</u>				
	NoHhMemb	NoParent	NotSpPar	Total
N	31	10	12	53
Het P	**	N.S.	*	**
Fixed RR	1.16	1.25	1.28	1.22
RR1	1.11	1.09	1.22	1.18
RRu	1.22	1.44	1.35	1.27
P	+++	++	+++	+++
Between P				*

<u>Unexposed Overall : time</u>					
	non	never	non+othr	NA	Total
N	43	8		2	53
Het P	**	N.S.		N.S.	**
Fixed RR	1.15	1.30		1.36	1.22
RR1	1.10	1.24		0.97	1.18
RRu	1.21	1.37		1.91	1.27
P	+++	+++		(+)	+++
Between P					**

<u>Number of adjustment variables</u>							
	0	1	2	3-5	6-9	10+	Total
N	27	8	1	7	9	1	53
Het P	N.S.	**	N.S.	*	N.S.	N.S.	**
Fixed RR	1.25	1.16	1.18	1.09	1.31	1.39	1.22
RR1	1.19	1.02	0.76	0.99	1.16	0.93	1.18
RRu	1.30	1.31	1.83	1.20	1.47	2.07	1.27
P	+++	+	N.S.	(+)	+++	N.S.	+++
Between P							N.S.

<u>RR adjusted for sex</u>			
	Yes	No	Total
N	14	39	53
Het P	*	**	**
Fixed RR	1.20	1.23	1.22
RR1	1.10	1.18	1.18
RRu	1.31	1.28	1.27
P	+++	+++	+++
Between P			N.S.

Table A31 - 3

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

<u>RR adjusted for age</u>				
		Yes	No	Total
	N	12	41	53
Het	P	N.S.	**	**
Fixed	RR	1.10	1.25	1.22
	RRl	1.00	1.20	1.18
	RRu	1.20	1.30	1.27
	P	+	+++	+++
Between	P			**

<u>RR adjusted for other ETS</u>				
		3	50	53
Het	P	N.S.	**	**
Fixed	RR	0.96	1.24	1.22
	RRl	0.82	1.19	1.18
	RRu	1.13	1.28	1.27
	P	N.S.	+++	+++
Between	P			**

<u>RR adjusted for factor other than sex, age, other ETS</u>				
		25	28	53
Het	P	***	N.S.	**
Fixed	RR	1.17	1.25	1.22
	RRl	1.10	1.19	1.18
	RRu	1.25	1.30	1.27
	P	+++	+++	+++
Between	P			N.S.

<u>Derivation of RR/CI</u>						
		Original	Numbers	SumNumbs	Other	Total
	N	18	18	7	10	53
Het	P	N.S.	(*)	N.S.	***	**
Fixed	RR	1.25	1.16	1.13	1.25	1.22
	RRl	1.16	1.07	0.99	1.19	1.18
	RRu	1.34	1.25	1.28	1.32	1.27
	P	+++	+++	(+)	+++	+++
Between	P					N.S.

Table A31 - 6

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

		<u>Overall</u>						
	N	53						
	NS	50						
	Wt	3307.48						
	Het Chi	98.64						
	Het df	52						
	Het P	***						
Fixed	RR	1.24						
	RR1	1.19						
	RRu	1.28						
	P	+++						
Random	RR	1.23						
	RR1	1.16						
	RRu	1.30						
	P	+++						
Asymm	P	N.S.						
		<u>Sex</u>						
		both	male	female	Total			
	N	47	3	3	53			
	Het P	***	N.S.	N.S.	***			
Fixed	RR	1.24	1.05	1.26	1.24			
	RR1	1.20	0.88	1.03	1.19			
	RRu	1.29	1.26	1.53	1.28			
	P	+++	N.S.	+	+++			
Between	P	N.S.						
		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	21	1	19	7	5		53
	Het P	*	N.S.	*	N.S.	N.S.		***
Fixed	RR	1.27	1.57	1.28	1.03	1.09		1.24
	RR1	1.18	0.53	1.23	0.90	0.99		1.19
	RRu	1.37	4.66	1.34	1.17	1.20		1.28
	P	+++	N.S.	+++	N.S.	(+)		+++
Between	P	**						
		<u>Start year of study</u>						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N	1	9	15	24	4	53	
	Het P	N.S.	N.S.	**	**	**	***	
Fixed	RR	1.29	1.17	1.29	1.21	1.25	1.24	
	RR1	0.92	1.03	1.18	1.14	1.19	1.19	
	RRu	1.80	1.32	1.41	1.28	1.32	1.28	
	P	N.S.	+	+++	+++	+++	+++	
Between	P	N.S.						
		<u>Study type</u>						
		CC	Pr	CS	Total			
	N	7	11	35	53			
	Het P	(*)	*	**	***			
Fixed	RR	1.43	1.30	1.18	1.24			
	RR1	1.16	1.23	1.13	1.19			
	RRu	1.75	1.37	1.24	1.28			
	P	+++	+++	+++	+++			
Between	P	**						

Table A33 -

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

This analysis is restricted to results for:

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

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

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

Finally by Age: whole study if available, otherwise by widest available age Overall
 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 Section -3
 and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A
 for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A33 - 3

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

		<u>Overall</u>						
	N	29						
	NS	29						
	Wt	512.28						
	Het Chi	49.53						
	Het df	28						
	Het P	**						
Fixed	RR	1.17						
	RR1	1.07						
	RRu	1.27						
	P	+++						
Random	RR	1.19						
	RR1	1.05						
	RRu	1.35						
	P	++						
Asymm	P	N.S.						
		<u>Sex</u>						
		both	male	female	Total			
	N	29						
	Het P	**						
Fixed	RR	1.17						
	RR1	1.07						
	RRu	1.27						
	P	+++						
Between	P	N.S.						
		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	4	1	15	6		3	29
	Het P	N.S.	N.S.	*	N.S.		N.S.	**
Fixed	RR	1.37	1.22	1.22	0.93		1.64	1.17
	RR1	1.05	0.31	1.09	0.79		1.11	1.07
	RRu	1.79	4.83	1.37	1.10		2.42	1.27
	P	+	N.S.	+++	N.S.		+	+++
Between	P	N.S.						*
		<u>Country in Europe</u>						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
	N	3	1	1	8	1	1	15
	Het P	N.S.	N.S.	N.S.	**	N.S.	N.S.	*
Fixed	RR	1.48	1.00	1.32	1.17	2.07	1.28	1.22
	RR1	0.88	0.70	0.88	1.01	1.21	0.94	1.09
	RRu	2.48	1.42	1.97	1.36	3.54	1.75	1.37
	P	N.S.	N.S.	N.S.	+	++	N.S.	+++
Between	P	N.S.						
		<u>Country in Asia</u>						
		FarEast	Cent/SE	MidlEast	Total			
	N	3	1	2	6			
	Het P	N.S.	N.S.	N.S.	N.S.			
Fixed	RR	0.85	1.13	0.96	0.93			
	RR1	0.68	0.82	0.60	0.79			
	RRu	1.06	1.57	1.51	1.10			
	P	N.S.	N.S.	N.S.	N.S.			
Between	P	N.S.						
		<u>Start year of study</u>						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N		1	6	17	5	29	
	Het P		N.S.	*	(*)	N.S.	**	
Fixed	RR		0.35	1.21	1.15	1.23	1.17	
	RR1		0.08	1.01	1.04	0.94	1.07	
	RRu		1.47	1.44	1.28	1.61	1.27	
	P		N.S.	+	++	N.S.	+++	
Between	P	N.S.						
		<u>Publication year</u>						
		<1990	1990-94	1995-99	2000+	Total		
	N	1	11	12	5	29		
	Het P	N.S.	N.S.	(*)	*	**		
Fixed	RR	0.35	1.31	1.18	1.02	1.17		
	RR1	0.08	1.11	1.05	0.85	1.07		
	RRu	1.47	1.55	1.34	1.22	1.27		
	P	N.S.	++	++	N.S.	+++		
Between	P	N.S.						

Table A33 - 3

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

		Physician Diagnosed Current Asthma				Adjusted	
		Study type					
		CC	Pr	CS	Total		
	N	15	3	11	29		
Het	P	N.S.	(*)	**	**		
Fixed	RR	1.31	1.03	1.10	1.17		
	RR1	1.14	0.81	0.97	1.07		
	RRu	1.51	1.30	1.25	1.27		
	P	+++	N.S.	N.S.	+++		
Between	P				(*)		
		Highest age in RR					
		0-9	10-14	15+	unknown	Total	
	N	6	10	12	1	29	
Het	P	N.S.	N.S.	*	N.S.	**	
Fixed	RR	1.46	1.12	1.07	1.96	1.17	
	RR1	1.18	0.99	0.91	1.10	1.07	
	RRu	1.80	1.26	1.26	3.48	1.27	
	P	+++	(+)	N.S.	+	+++	
Between	P					*	
		Population setting					
		general	school	medical	allergy	other	Total
	N	4	9	15	1		29
Het	P	**	(*)	N.S.	N.S.		**
Fixed	RR	1.09	1.07	1.29	3.33		1.17
	RR1	0.91	0.92	1.13	0.78		1.07
	RRu	1.31	1.24	1.47	14.23		1.27
	P	N.S.	N.S.	+++	N.S.		+++
Between	P						N.S.
		Respondent for smoking					
		child	parent	med rec	mix/oth	Total	
	N	1	20		8	29	
Het	P	N.S.	*		N.S.	**	
Fixed	RR	3.73	1.19		1.07	1.17	
	RR1	1.17	1.08		0.90	1.07	
	RRu	11.91	1.31		1.28	1.27	
	P	+	+++		N.S.	+++	
Between	P					(*)	
		Child smokers			Total		
		exc/none	included	ignored	Total		
	N		5	24	29		
Het	P		(*)	*	**		
Fixed	RR		1.04	1.19	1.17		
	RR1		0.84	1.09	1.07		
	RRu		1.30	1.31	1.27		
	P		N.S.	+++	+++		
Between	P				N.S.		
		Physician diagnosis (current)			Total		
		yes	no/mix	Total	Total		
	N	29		29			
Het	P	**		**			
Fixed	RR	1.17		1.17			
	RR1	1.07		1.07			
	RRu	1.27		1.27			
	P	+++		+++			
Between	P			N.S.			
		Respondent for diagnosis (current)				Total	
		medrec	parent	child	mixed	Total	
	N	16	8	2	3	29	
Het	P	N.S.	(*)	N.S.	N.S.	**	
Fixed	RR	1.30	1.23	0.80	1.05	1.17	
	RR1	1.13	1.06	0.62	0.84	1.07	
	RRu	1.49	1.42	1.04	1.31	1.27	
	P	+++	++	(-)	N.S.	+++	
Between	P					**	

Table A33 - 3

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

		<u>Questionnaire for symptoms</u>			
		ISAAC	ATS	other	Total
	N		5	24	29
Het	P		*	*	**
Fixed	RR		1.22	1.16	1.17
	RR1		1.01	1.05	1.07
	RRu		1.47	1.27	1.27
	P		+	++	+++
Between	P				N.S.

		<u>Number of cases (current asthma)</u>					Total
		1-50	51-100	101-200	201+	unknown	
	N	7	7	6	8	1	29
Het	P	N.S.	N.S.	**	N.S.	N.S.	**
Fixed	RR	1.49	1.16	1.10	1.17	1.32	1.17
	RR1	1.03	0.92	0.93	1.03	0.88	1.07
	RRu	2.15	1.46	1.30	1.32	1.97	1.27
	P	+	N.S.	N.S.	+	N.S.	+++
Between	P						N.S.

		<u>Study adjusts for or is matched on sex</u>		
		Yes	No	Total
	N	20	9	29
Het	P	**	N.S.	**
Fixed	RR	1.17	1.16	1.17
	RR1	1.06	0.97	1.07
	RRu	1.29	1.38	1.27
	P	++	N.S.	+++
Between	P			N.S.

		<u>Study adjusts for or is matched on age</u>		
		Yes	No	Total
	N	20	9	29
Het	P	**	N.S.	**
Fixed	RR	1.18	1.10	1.17
	RR1	1.08	0.88	1.07
	RRu	1.30	1.36	1.27
	P	+++	N.S.	+++
Between	P			N.S.

		<u>Study adjusts for or is matched on race</u>		
		Yes	No	Total
	N		29	29
Het	P		**	**
Fixed	RR		1.17	1.17
	RR1		1.07	1.07
	RRu		1.27	1.27
	P		+++	+++
Between	P			N.S.

		<u>Study adjusts for or is matched on location</u>		
		Yes	No	Total
	N	13	16	29
Het	P	**	(*)	**
Fixed	RR	1.13	1.22	1.17
	RR1	1.02	1.06	1.07
	RRu	1.27	1.40	1.27
	P	+	++	+++
Between	P			N.S.

		<u>Study adjusts for or is matched on SES</u>		
		Yes	No	Total
	N	10	19	29
Het	P	*	N.S.	**
Fixed	RR	1.07	1.27	1.17
	RR1	0.95	1.12	1.07
	RRu	1.21	1.43	1.27
	P	N.S.	+++	+++
Between	P			(*)

		<u>Study adjusts for family medical history</u>		
		Yes	No	Total
	N	10	19	29
Het	P	N.S.	*	**
Fixed	RR	1.32	1.06	1.17
	RR1	1.16	0.94	1.07
	RRu	1.50	1.19	1.27
	P	+++	N.S.	+++
Between	P			*

Table A33 - 3

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

<u>Study adjusts for family composition</u>								
		Yes	No	Total				
	N	4	25	29				
Het	P	*	(*)	**				
Fixed	RR	0.89	1.22	1.17				
	RR1	0.71	1.11	1.07				
	RRu	1.12	1.34	1.27				
	P	N.S.	+++	+++				
Between	P			*				
<u>Study adjusts for cooking, heating, air conditioning</u>								
	N	8	21	29				
Het	P	*	(*)	**				
Fixed	RR	1.33	1.10	1.17				
	RR1	1.15	0.99	1.07				
	RRu	1.55	1.22	1.27				
	P	+++	(+)	+++				
Between	P			*				
<u>Study adjusts for housing quality, crowding, damp, mould</u>								
	N	9	20	29				
Het	P	(*)	*	**				
Fixed	RR	1.11	1.22	1.17				
	RR1	0.98	1.08	1.07				
	RRu	1.27	1.37	1.27				
	P	N.S.	++	+++				
Between	P			N.S.				
<u>Study adjusts for pets, animal contact, farming</u>								
	N	8	21	29				
Het	P	(*)	*	**				
Fixed	RR	1.28	1.11	1.17				
	RR1	1.11	0.99	1.07				
	RRu	1.48	1.23	1.27				
	P	+++	(+)	+++				
Between	P			N.S.				
<u>Study adjusts for child's medical history</u>								
	N	10	19	29				
Het	P	N.S.	**	**				
Fixed	RR	1.28	1.10	1.17				
	RR1	1.11	0.99	1.07				
	RRu	1.48	1.23	1.27				
	P	+++	(+)	+++				
Between	P			N.S.				
<u>Study adjusts for in utero exposure</u>								
	N		29	29				
Het	P		**	**				
Fixed	RR		1.17	1.17				
	RR1		1.07	1.07				
	RRu		1.27	1.27				
	P		+++	+++				
Between	P			N.S.				
<u>Study adjusts for in life exposure</u>								
	N	7	22	29				
Het	P	N.S.	*	**				
Fixed	RR	1.45	1.09	1.17				
	RR1	1.22	0.99	1.07				
	RRu	1.74	1.21	1.27				
	P	+++	(+)	+++				
Between	P			**				
<u>Exposed Overall : Source/who is smoker</u>								
		Biochem	TotETS	AnyHh	AnyPar	Mother	Father	Total
	N	1	1	13	6	7	1	29
Het	P	N.S.	N.S.	(*)	N.S.	**	N.S.	**
Fixed	RR	1.88	1.13	1.14	1.32	1.16	0.94	1.17
	RR1	0.60	0.82	1.01	1.07	0.95	0.62	1.07
	RRu	5.88	1.57	1.29	1.62	1.42	1.43	1.27
	P	N.S.	N.S.	+	++	N.S.	N.S.	+++
Between	P							N.S.

Table A33 - 3

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

		<u>Exposed Overall : when Exposed</u>					
		lif/ev	age<7y	current	unspec	other	Total
	N	4	5	5	14	1	29
Het	P	*	N.S.	N.S.	(*)	N.S.	**
Fixed	RR	0.98	1.40	1.02	1.20	1.88	1.17
	RR1	0.79	1.18	0.84	1.04	0.60	1.07
	RRu	1.21	1.67	1.23	1.38	5.88	1.27
	P	N.S.	+++	N.S.	+	N.S.	+++
Between	P						*

		<u>Unexposed Overall : who is smoker</u>				
		NoHhMemb	NoParent	NotSpPar	Total	
	N	16	6	7	29	
Het	P	(*)	N.S.	**	**	
Fixed	RR	1.14	1.32	1.14	1.17	
	RR1	1.02	1.07	0.95	1.07	
	RRu	1.27	1.62	1.37	1.27	
	P	+	++	N.S.	+++	
Between	P			N.S.		

		<u>Unexposed Overall : time</u>				
		non	never	non+othr	NA	Total
	N	26	2		1	29
Het	P	*	N.S.		N.S.	**
Fixed	RR	1.22	0.80		1.88	1.17
	RR1	1.11	0.62		0.60	1.07
	RRu	1.34	1.04		5.88	1.27
	P	+++	(-)		N.S.	+++
Between	P					**

		<u>Number of adjustment variables</u>						
		0	1	2	3-5	6-9	10+	Total
	N	14	2		1	7	5	29
Het	P	N.S.	N.S.		N.S.	*	(*)	**
Fixed	RR	1.21	1.24		2.07	1.04	1.22	1.17
	RR1	1.04	0.85		1.21	0.90	1.03	1.07
	RRu	1.41	1.82		3.54	1.20	1.45	1.27
	P	+	N.S.		++	N.S.	+	+++
Between	P							N.S.

		<u>RR adjusted for sex</u>		
		Yes	No	Total
	N	12	17	29
Het	P	**	N.S.	**
Fixed	RR	1.18	1.16	1.17
	RR1	1.05	1.01	1.07
	RRu	1.32	1.32	1.27
	P	++	+	+++
Between	P			N.S.

		<u>RR adjusted for age</u>		
	N	10	19	29
Het	P	**	N.S.	**
Fixed	RR	1.16	1.18	1.17
	RR1	1.03	1.04	1.07
	RRu	1.30	1.34	1.27
	P	+	++	+++
Between	P			N.S.

		<u>RR adjusted for other ETS</u>		
	N	4	25	29
Het	P	N.S.	*	**
Fixed	RR	1.36	1.13	1.17
	RR1	1.12	1.02	1.07
	RRu	1.65	1.24	1.27
	P	++	+	+++
Between	P			(*)

Table A33 - 3

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

Adjusted				
RR adjusted for factor other than sex, age, other ETS				
		Yes	No	Total
	N	15	14	29
Het	P	**	N.S.	**
Fixed	RR	1.15	1.21	1.17
	RRl	1.04	1.04	1.07
	RRu	1.28	1.41	1.27
	P	++	+	+++
Between	P			N.S.

Derivation of RR/CI						
		Original	Numbers	SumNumbs	Other	Total
	N	9	7	5	8	29
Het	P	N.S.	N.S.	N.S.	***	**
Fixed	RR	1.22	1.18	1.21	1.11	1.17
	RRl	1.04	0.93	0.99	0.96	1.07
	RRu	1.42	1.50	1.48	1.28	1.27
	P	+	N.S.	(+)	N.S.	+++
Between	P					N.S.

Table A33 - 6

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

		<u>Overall</u>							
	N	29							
	NS	29							
	Wt	561.21							
	Het Chi	52.29							
	Het df	28							
	Het P	**							
Fixed	RR	1.18							
	RRl	1.09							
	RRu	1.28							
	P	+++							
Random	RR	1.20							
	RRl	1.06							
	RRu	1.36							
	P	++							
Asymm	P	N.S.							
		<u>Sex</u>							
		both	male	female	Total				
	N	29			29				
	Het P	**			**				
Fixed	RR	1.18			1.18				
	RRl	1.09			1.09				
	RRu	1.28			1.28				
	P	+++			+++				
Between	P				N.S.				
		<u>Continent</u>							
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total	
	N	4	1	15	6		3	29	
	Het P	N.S.	N.S.	N.S.	N.S.		N.S.	**	
Fixed	RR	1.18	1.22	1.29	0.88		2.07	1.18	
	RRl	0.96	0.31	1.15	0.75		1.43	1.09	
	RRu	1.44	4.83	1.44	1.04		3.01	1.28	
	P	N.S.	N.S.	+++	N.S.		+++	+++	
Between	P							***	
		<u>Start year of study</u>							
		<1970	1970-79	1980-89	1990+	unknown	Total		
	N		1	6	17	5	29		
	Het P		N.S.	*	*	(*)	**		
Fixed	RR		0.35	1.14	1.17	1.40	1.18		
	RRl		0.08	0.98	1.06	1.08	1.09		
	RRu		1.47	1.34	1.30	1.82	1.28		
	P		N.S.	(+)	++	+	+++		
Between	P						N.S.		
		<u>Study type</u>							
		CC	Pr	CS	Total				
	N	15	3	11	29				
	Het P	N.S.	(*)	**	**				
Fixed	RR	1.29	1.03	1.13	1.18				
	RRl	1.14	0.81	1.00	1.09				
	RRu	1.46	1.30	1.28	1.28				
	P	+++	N.S.	(+)	+++				
Between	P				N.S.				

Table A41 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma

This analysis is restricted to results for:

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

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

- 6) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
 - 7) UNEXSO : neither parent, none in household
 - 8) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
 - 9) UNEXHI : not exposed defined as smoked none, or smoked none+low
 - 10) RACE : all in study or nearest available, otherwise by race
 - 11) ONSET : yes, no (prevalence)
 - 12) For overlapping studies: principal rather than subsidiary studies
- Finally by Age: whole study if available, otherwise by widest available age Overall
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 Section -3
and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A
for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
Adjusted

		<u>Overall</u>			
N		9			
NS		8			
Wt		260.40			
Het Chi		12.95			
Het df		8			
Het P		N.S.			
Fixed RR		1.40			
RR1		1.24			
RRu		1.58			
P		+++			
Random RR		1.44			
RR1		1.22			
RRu		1.70			
P		+++			
Asymm P		N.S.			

		<u>Sex</u>			
		both	male	female	Total
N		7	1	1	9
Het P		(*)	N.S.	N.S.	N.S.
Fixed RR		1.38	1.72	1.24	1.40
RR1		1.20	1.20	0.81	1.24
RRu		1.57	2.47	1.89	1.58
P		+++	++	N.S.	+++
Between P					N.S.

		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
N		4		3	1	1		9
Het P		N.S.		N.S.	N.S.	N.S.		N.S.
Fixed RR		1.67		1.38	1.32	1.10		1.40
RR1		1.31		1.12	1.07	0.75		1.24
RRu		2.13		1.70	1.64	1.63		1.58
P		+++		++	+	N.S.		+++
Between P								N.S.

		<u>Country in Europe</u>						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
N		1	1	1				3
Het P		N.S.	N.S.	N.S.				N.S.
Fixed RR		1.93	1.50	1.11				1.38
RR1		1.23	1.03	0.82				1.12
RRu		3.02	2.18	1.51				1.70
P		++	+	N.S.				++
Between P								N.S.

		<u>Country in Asia</u>			
		FarEast	Cent/SE	MidlEast	Total
N				1	1
Het P				N.S.	N.S.
Fixed RR				1.32	1.32
RR1				1.07	1.07
RRu				1.64	1.64
P				+	+
Between P					N.S.

		<u>Start year of study</u>					
		<1970	1970-79	1980-89	1990+	unknown	Total
N		2	2	4		1	9
Het P		N.S.	N.S.	(*)		N.S.	N.S.
Fixed RR		1.50	1.19	1.36		1.93	1.40
RR1		1.14	0.84	1.16		1.23	1.24
RRu		1.97	1.70	1.58		3.02	1.58
P		++	N.S.	+++		++	+++
Between P							N.S.

		<u>Publication year</u>				
		<1990	1990-94	1995-99	2000+	Total
N		4	2	3		9
Het P		N.S.	N.S.	*		N.S.
Fixed RR		1.37	1.25	1.51		1.40
RR1		1.11	0.99	1.26		1.24
RRu		1.71	1.59	1.82		1.58
P		++	(+)	+++		+++
Between P						N.S.

Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically

		Lifetime Asthma					
		Adjusted					
		Study type					
		CC	Pr	CS	Total		
	N		3	6	9		
Het	P		*	N.S.	N.S.		
Fixed	RR		1.48	1.38	1.40		
	RR1		1.09	1.21	1.24		
	RRu		2.01	1.58	1.58		
	P		+	+++	+++		
Between	P				N.S.		
		Highest age in RR					
		0-9	10-14	15+	unknown	Total	
	N	1	5	3		9	
Het	P	N.S.	N.S.	(*)		N.S.	
Fixed	RR	1.10	1.36	1.67		1.40	
	RR1	0.75	1.17	1.30		1.24	
	RRu	1.63	1.58	2.15		1.58	
	P	N.S.	+++	+++		+++	
Between	P					N.S.	
		Population setting					
		general	school	medical	allergy	other	Total
	N	2	5	2			9
Het	P	N.S.	(*)	(*)			N.S.
Fixed	RR	1.50	1.37	1.40			1.40
	RR1	1.14	1.17	1.05			1.24
	RRu	1.97	1.59	1.88			1.58
	P	++	+++	+			+++
Between	P						N.S.
		Respondent for smoking					
		child	parent	med rec	mix/oth	Total	
	N		6		3	9	
Het	P		N.S.		(*)	N.S.	
Fixed	RR		1.33		1.67	1.40	
	RR1		1.15		1.30	1.24	
	RRu		1.52		2.15	1.58	
	P		+++		+++	+++	
Between	P					N.S.	
		Child smokers					
		exc/none	included	ignored	Total		
	N	3	1	5	9		
Het	P	N.S.	N.S.	N.S.	N.S.		
Fixed	RR	1.52	2.90	1.32	1.40		
	RR1	1.17	1.55	1.14	1.24		
	RRu	1.97	5.43	1.51	1.58		
	P	++	+++	+++	+++		
Between	P				*		
		Physician diagnosis (lifetime)					
		yes	no/mixed	Total			
	N	4	5	9			
Het	P	*	N.S.	N.S.			
Fixed	RR	1.28	1.45	1.40			
	RR1	1.03	1.26	1.24			
	RRu	1.59	1.68	1.58			
	P	+	+++	+++			
Between	P			N.S.			
		Respondent for diagnosis (lifetime)					
		medrec	parent	child	mixed	Total	
	N	1	7	1		9	
Het	P	N.S.	N.S.	N.S.		N.S.	
Fixed	RR	1.10	1.39	2.90		1.40	
	RR1	0.75	1.22	1.55		1.24	
	RRu	1.63	1.58	5.43		1.58	
	P	N.S.	+++	+++		+++	
Between	P					*	

Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
Adjusted

		<u>Questionnaire for symptoms</u>			
		ISAAC	ATS	other	Total
	N		2	7	9
Het	P		N.S.	(*)	N.S.
Fixed	RR		1.36	1.42	1.40
	RR1		1.13	1.21	1.24
	RRu		1.65	1.67	1.58
	P		++	+++	+++
Between	P				N.S.

		<u>Analysis type</u>		
		prevlnce	onset	Total
	N	8	1	9
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.43	1.10	1.40
	RR1	1.26	0.75	1.24
	RRu	1.63	1.63	1.58
	P	+++	N.S.	+++
Between	P			N.S.

		<u>Number of cases (lifetime asthma)</u>					
		1-50	51-100	101-200	201+	unknown	Total
	N	1		1	7		9
Het	P	N.S.		N.S.	(*)		N.S.
Fixed	RR	1.73		1.10	1.43		1.40
	RR1	0.74		0.75	1.25		1.24
	RRu	4.04		1.63	1.62		1.58
	P	N.S.		N.S.	+++		+++
Between	P						N.S.

		<u>Study adjusts for or is matched on sex</u>		
		Yes	No	Total
	N	3	6	9
Het	P	*	N.S.	N.S.
Fixed	RR	1.47	1.38	1.40
	RR1	1.15	1.20	1.24
	RRu	1.88	1.58	1.58
	P	++	+++	+++
Between	P			N.S.

		<u>Study adjusts for or is matched on age</u>		
	N	3	6	9
Het	P	N.S.	*	N.S.
Fixed	RR	1.50	1.36	1.40
	RR1	1.20	1.17	1.24
	RRu	1.87	1.57	1.58
	P	+++	+++	+++
Between	P			N.S.

		<u>Study adjusts for or is matched on race</u>		
	N	2	7	9
Het	P	N.S.	N.S.	N.S.
Fixed	RR	2.42	1.35	1.40
	RR1	1.46	1.19	1.24
	RRu	4.00	1.53	1.58
	P	+++	+++	+++
Between	P			*

		<u>Study adjusts for or is matched on location</u>		
	N	2	7	9
Het	P	N.S.	(*)	N.S.
Fixed	RR	1.36	1.42	1.40
	RR1	1.13	1.21	1.24
	RRu	1.65	1.67	1.58
	P	++	+++	+++
Between	P			N.S.

Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
Adjusted

		<u>Study adjusts for or is matched on SES</u>		
		Yes	No	Total
	N	3	6	9
Het	P	*	N.S.	N.S.
Fixed	RR	1.47	1.38	1.40
	RR1	1.15	1.20	1.24
	RRu	1.88	1.58	1.58
	P	++	+++	+++
Between	P			N.S.
		<u>Study adjusts for family medical history</u>		
		2	7	9
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.27	1.50	1.40
	RR1	1.05	1.28	1.24
	RRu	1.53	1.75	1.58
	P	+	+++	+++
Between	P			N.S.
		<u>Study adjusts for family composition</u>		
		2	7	9
Het	P	N.S.	(*)	N.S.
Fixed	RR	1.29	1.43	1.40
	RR1	0.99	1.24	1.24
	RRu	1.70	1.63	1.58
	P	(+)	+++	+++
Between	P			N.S.
		<u>Study adjusts for cooking, heating, air conditioning</u>		
		1	8	9
Het	P	N.S.	(*)	N.S.
Fixed	RR	1.50	1.39	1.40
	RR1	1.03	1.22	1.24
	RRu	2.18	1.58	1.58
	P	+	+++	+++
Between	P			N.S.
		<u>Study adjusts for housing quality, crowding, damp, mould</u>		
		1	8	9
Het	P	N.S.	(*)	N.S.
Fixed	RR	1.50	1.39	1.40
	RR1	1.03	1.22	1.24
	RRu	2.18	1.58	1.58
	P	+	+++	+++
Between	P			N.S.
		<u>Study adjusts for pets, animal contact, farming</u>		
		1	8	9
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.10	1.43	1.40
	RR1	0.75	1.26	1.24
	RRu	1.63	1.63	1.58
	P	N.S.	+++	+++
Between	P			N.S.
		<u>Study adjusts for child's medical history</u>		
		5	4	9
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.34	1.46	1.40
	RR1	1.13	1.23	1.24
	RRu	1.59	1.74	1.58
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for in utero exposure</u>		
		9	9	
Het	P		N.S.	N.S.
Fixed	RR		1.40	1.40
	RR1		1.24	1.24
	RRu		1.58	1.58
	P		+++	+++
Between	P			N.S.

Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
 Adjusted

		<u>Study adjusts for in life exposure</u>						
		Yes	No	Total				
	N	5	4	9				
Het	P	N.S.	N.S.	N.S.				
Fixed	RR	1.32	1.67	1.40				
	RRl	1.14	1.31	1.24				
	RRu	1.51	2.13	1.58				
	P	+++	+++	+++				
Between	P				(*)			
<u>Exposed Overall : when Exposed</u>								
		lif/ev	age<7y	current	unspec	other	Total	
	N	4			4	1	9	
Het	P	N.S.			N.S.	N.S.	N.S.	
Fixed	RR	1.34			1.40	2.90	1.40	
	RRl	1.14			1.14	1.55	1.24	
	RRu	1.56			1.71	5.43	1.58	
	P	+++			++	+++	+++	
Between	P						(*)	
<u>Unexposed Overall : who is smoker</u>								
		NoHhMemb	NoParent	NotSpPar	Total			
	N			9	9			
Het	P		N.S.		N.S.			
Fixed	RR		1.40		1.40			
	RRl		1.24		1.24			
	RRu		1.58		1.58			
	P		+++		+++			
Between	P						N.S.	
<u>Unexposed Overall : time</u>								
		non	never	non+othr	Total			
	N	8	1		9			
Het	P	(*)	N.S.		N.S.			
Fixed	RR	1.43	1.32		1.40			
	RRl	1.24	1.07		1.24			
	RRu	1.66	1.64		1.58			
	P	+++	+		+++			
Between	P						N.S.	
<u>Number of adjustment variables</u>								
		0	1	2	3-5	6-9	10+	Total
	N	3	4		1	1		9
Het	P	N.S.	N.S.		N.S.	N.S.		N.S.
Fixed	RR	1.22	1.61		2.90	1.50		1.40
	RRl	1.04	1.29		1.55	1.03		1.24
	RRu	1.44	2.02		5.43	2.18		1.58
	P	+	+++		+++	+		+++
Between	P							*
<u>RR adjusted for sex</u>								
		Yes	No	Total				
	N	2	7	9				
Het	P	(*)	N.S.	N.S.				
Fixed	RR	1.78	1.34	1.40				
	RRl	1.29	1.18	1.24				
	RRu	2.46	1.53	1.58				
	P	+++	+++	+++				
Between	P				N.S.			
<u>RR adjusted for age</u>								
		3	6	9				
	N	3	6	9				
Het	P	N.S.	*	N.S.				
Fixed	RR	1.50	1.36	1.40				
	RRl	1.20	1.17	1.24				
	RRu	1.87	1.57	1.58				
	P	+++	+++	+++				
Between	P				N.S.			

Table A41 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
Adjusted

		<u>RR adjusted for other ETS</u>		
		Yes	No	Total
	N		9	9
Het	P		N.S.	N.S.
Fixed	RR		1.40	1.40
	RR1		1.24	1.24
	RRu		1.58	1.58
	P		+++	+++
Between	P			N.S.

		<u>RR adjusted for factor other than sex, age, other ETS</u>		
		4	5	9
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.82	1.29	1.40
	RR1	1.42	1.12	1.24
	RRu	2.34	1.48	1.58
	P	+++	+++	+++
Between	P			*

		<u>Derivation of RR/CI</u>				
		Original	Numbers	SumNumbs	Other	Total
	N	2	3	2	2	9
Het	P	(*)	N.S.	(*)	N.S.	N.S.
Fixed	RR	1.78	1.27	1.40	1.50	1.40
	RR1	1.29	1.06	1.05	1.14	1.24
	RRu	2.46	1.51	1.88	1.97	1.58
	P	+++	++	+	++	+++
Between	P					N.S.

Table A41 - 6

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Lifetime Asthma
 Unadjusted

		<u>Overall</u>						
	N	9						
	NS	8						
	Wt	262.89						
	Het Chi	22.38						
	Het df	8						
	Het P	**						
Fixed	RR	1.44						
	RR1	1.28						
	RRu	1.63						
	P	+++						
Random	RR	1.55						
	RR1	1.24						
	RRu	1.92						
	P	+++						
Asymm	P	N.S.						
<u>Sex</u>								
		both	male	female	Total			
	N	7	1	1	9			
	Het P	**	N.S.	N.S.	**			
Fixed	RR	1.43	1.72	1.24	1.44			
	RR1	1.25	1.20	0.81	1.28			
	RRu	1.63	2.47	1.89	1.63			
	P	+++	++	N.S.	+++			
Between	P				N.S.			
<u>Continent</u>								
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	4		3	1	1		9
	Het P	**		(*)	N.S.	N.S.		**
Fixed	RR	1.81		1.42	1.32	1.10		1.44
	RR1	1.42		1.16	1.07	0.75		1.28
	RRu	2.30		1.75	1.64	1.63		1.63
	P	+++		+++	+	N.S.		+++
Between	P							N.S.
<u>Start year of study</u>								
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N	2	2	4		1	9	
	Het P	N.S.	N.S.	***		N.S.	**	
Fixed	RR	1.50	1.22	1.41		1.96	1.44	
	RR1	1.14	0.85	1.21		1.27	1.28	
	RRu	1.97	1.73	1.65		3.01	1.63	
	P	++	N.S.	+++		++	+++	
Between	P						N.S.	
<u>Study type</u>								
		CC	Pr	CS	Total			
	N		3	6	9			
	Het P		***	N.S.	**			
Fixed	RR		1.68	1.40	1.44			
	RR1		1.24	1.23	1.28			
	RRu		2.29	1.60	1.63			
	P		+++	+++	+++			
Between	P				N.S.			

Table A43 -

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Current Asthma

This analysis is restricted to results for:

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

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

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

Finally by Age: whole study if available, otherwise by widest available age Overall
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 Section -3
and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A
for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Current Asthma
Adjusted

		<u>Overall</u>							
	N	6							
	NS	6							
	Wt	214.86							
Het	Chi	15.12							
Het	df	5							
Het	P	**							
Fixed	RR	1.41							
	RR1	1.23							
	RRu	1.61							
	P	+++							
Random	RR	1.68							
	RR1	1.23							
	RRu	2.28							
	P	+++							
Asymm	P	*							
<u>Sex</u>									
		both	male	female			Total		
	N	6				6			
Het	P	**				**			
Fixed	RR	1.41				1.41			
	RR1	1.23				1.23			
	RRu	1.61				1.61			
	P	+++				+++			
Between	P					N.S.			
<u>Continent</u>									
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total	
	N	2		4				6	
Het	P	*		*				**	
Fixed	RR	1.86		1.35				1.41	
	RR1	1.27		1.17				1.23	
	RRu	2.73		1.56				1.61	
	P	++		+++				+++	
Between	P							N.S.	
<u>Country in Europe</u>									
		UK	Italy	Germany	Scand	othWest	East/Bal	Total	
	N	1		2		1		4	
Het	P	N.S.		N.S.		N.S.		*	
Fixed	RR	11.00		1.32		1.94		1.35	
	RR1	2.51		1.14		0.74		1.17	
	RRu	48.30		1.52		5.12		1.56	
	P	++		+++		N.S.		+++	
Between	P							*	
<u>Country in Asia</u>									
		FarEast	Cent/SE	MidlEast			Total		
	N					4			
Het	P					N.S.			
Fixed	RR					N.S.			
	RR1					N.S.			
	RRu					N.S.			
	P					N.S.			
Between	P					N.S.			
<u>Start year of study</u>									
		<1970	1970-79	1980-89	1990+	unknown	Total		
	N			2		4		6	
Het	P			N.S.		*		**	
Fixed	RR			2.79		1.35		1.41	
	RR1			1.61		1.17		1.23	
	RRu			4.82		1.55		1.61	
	P			+++		+++		+++	
Between	P							*	
<u>Publication year</u>									
		<1990	1990-94	1995-99	2000+			Total	
	N	2		3		1		6	
Het	P	(*)		*		N.S.		**	
Fixed	RR	3.27		1.37		1.40		1.41	
	RR1	1.45		1.19		0.88		1.23	
	RRu	7.34		1.58		2.24		1.61	
	P	++		+++		N.S.		+++	
Between	P							N.S.	

Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically

		Current Asthma					
		Adjusted					
		Study type					
		CC	Pr	CS	Total		
	N	3	2	1	6		
Het	P	N.S.	N.S.	N.S.	**		
Fixed	RR	1.33	4.04	1.40	1.41		
	RRl	1.15	2.20	0.88	1.23		
	RRu	1.53	7.39	2.24	1.61		
	P	+++	+++	N.S.	+++		
Between	P				**		
		Highest age in RR					
		0-9	10-14	15+	unknown	Total	
	N	2	1	3		6	
Het	P	**	N.S.	N.S.		**	
Fixed	RR	1.41	1.29	1.87		1.41	
	RRl	1.14	1.06	1.31		1.23	
	RRu	1.75	1.56	2.68		1.61	
	P	++	++	+++		+++	
Between	P					N.S.	
		Population setting					
		general	school	medical	allergy	other	Total
	N		4	1	1		6
Het	P		(*)	N.S.	N.S.		**
Fixed	RR		1.37	1.94	11.00		1.41
	RRl		1.20	0.74	2.51		1.23
	RRu		1.57	5.12	48.30		1.61
	P		+++	N.S.	++		+++
Between	P						*
		Respondent for smoking					
		child	parent	med rec	mix/oth	Total	
	N		4		2	6	
Het	P		*		*	**	
Fixed	RR		1.35		1.86	1.41	
	RRl		1.17		1.27	1.23	
	RRu		1.56		2.73	1.61	
	P		+++		++	+++	
Between	P					N.S.	
		Child smokers					
		exc/none	included	ignored	Total		
	N	2	2	2	6		
Het	P	N.S.	**	(*)	**		
Fixed	RR	1.36	1.39	3.27	1.41		
	RRl	1.11	1.15	1.45	1.23		
	RRu	1.66	1.67	7.34	1.61		
	P	++	+++	++	+++		
Between	P				N.S.		
		Physician diagnosis (current)					
		yes	no/mix	Total			
	N	2	4	6			
Het	P	(*)	(*)	**			
Fixed	RR	3.27	1.37	1.41			
	RRl	1.45	1.20	1.23			
	RRu	7.34	1.57	1.61			
	P	++	+++	+++			
Between	P			*			
		Respondent for diagnosis (current)					
		medrec	parent	child	mixed	Total	
	N	2	3	1		6	
Het	P	(*)	N.S.	N.S.		**	
Fixed	RR	3.27	1.32	3.30		1.41	
	RRl	1.45	1.15	1.70		1.23	
	RRu	7.34	1.52	6.40		1.61	
	P	++	+++	+++		+++	
Between	P					**	

Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically

		Current Asthma				
		Adjusted				
		Questionnaire for symptoms				
		ISAAC	ATS	other	Total	
	N	2		4	6	
Het	P	N.S.		*	**	
Fixed	RR	1.32		2.07	1.41	
	RR1	1.14		1.46	1.23	
	RRu	1.52		2.92	1.61	
	P	+++		+++	+++	
Between	P				*	
		Number of cases (current asthma)				
		1-50	51-100	101-200	201+	unknown
	N	2		1	3	6
Het	P	(*)		N.S.	N.S.	**
Fixed	RR	3.27		3.30	1.32	1.41
	RR1	1.45		1.70	1.15	1.23
	RRu	7.34		6.40	1.52	1.61
	P	++		+++	+++	+++
Between	P					**
		Study adjusts for or is matched on sex				
		Yes	No	Total		
	N	5	1	6		
Het	P	**	N.S.	**		
Fixed	RR	1.40	1.94	1.41		
	RR1	1.22	0.74	1.23		
	RRu	1.60	5.12	1.61		
	P	+++	N.S.	+++		
Between	P			N.S.		
		Study adjusts for or is matched on age				
	N	3	3	6		
Het	P	N.S.	N.S.	**		
Fixed	RR	1.32	3.29	1.41		
	RR1	1.15	1.97	1.23		
	RRu	1.52	5.49	1.61		
	P	+++	+++	+++		
Between	P			***		
		Study adjusts for or is matched on race				
	N	2	4	6		
Het	P	*	*	**		
Fixed	RR	1.86	1.35	1.41		
	RR1	1.27	1.17	1.23		
	RRu	2.73	1.56	1.61		
	P	++	+++	+++		
Between	P			N.S.		
		Study adjusts for or is matched on location				
	N	3	3	6		
Het	P	N.S.	N.S.	**		
Fixed	RR	1.32	3.29	1.41		
	RR1	1.15	1.97	1.23		
	RRu	1.52	5.49	1.61		
	P	+++	+++	+++		
Between	P			***		
		Study adjusts for or is matched on SES				
	N	4	2	6		
Het	P	**	N.S.	**		
Fixed	RR	1.40	1.49	1.41		
	RR1	1.21	0.98	1.23		
	RRu	1.61	2.27	1.61		
	P	+++	(+)	+++		
Between	P			N.S.		
		Study adjusts for family medical history				
	N	4	2	6		
Het	P	*	N.S.	**		
Fixed	RR	1.35	2.79	1.41		
	RR1	1.17	1.61	1.23		
	RRu	1.55	4.82	1.61		
	P	+++	+++	+++		
Between	P			*		

Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
Current Asthma
Adjusted

		<u>Study adjusts for family composition</u>					
		Yes	No	Total			
	N		6	6			
Het	P		**	**			
Fixed	RR		1.41	1.41			
	RR1		1.23	1.23			
	RRu		1.61	1.61			
	P		+++	+++			
Between	P			N.S.			
		<u>Study adjusts for cooking, heating, air conditioning</u>					
		2	4	6			
Het	P	N.S.	*	**			
Fixed	RR	1.32	2.07	1.41			
	RR1	1.14	1.46	1.23			
	RRu	1.52	2.92	1.61			
	P	+++	+++	+++			
Between	P			*			
		<u>Study adjusts for housing quality, crowding, damp, mould</u>					
		2	4	6			
Het	P	N.S.	*	**			
Fixed	RR	1.32	2.07	1.41			
	RR1	1.14	1.46	1.23			
	RRu	1.52	2.92	1.61			
	P	+++	+++	+++			
Between	P			*			
		<u>Study adjusts for pets, animal contact, farming</u>					
		1	5	6			
Het	P	N.S.	N.S.	**			
Fixed	RR	11.00	1.38	1.41			
	RR1	2.51	1.21	1.23			
	RRu	48.30	1.58	1.61			
	P	++	+++	+++			
Between	P			**			
		<u>Study adjusts for child's medical history</u>					
		2	4	6			
Het	P	**	(*)	**			
Fixed	RR	1.69	1.38	1.41			
	RR1	1.08	1.20	1.23			
	RRu	2.64	1.59	1.61			
	P	+	+++	+++			
Between	P			N.S.			
		<u>Study adjusts for in utero exposure</u>					
		3	3	6			
Het	P	N.S.	N.S.	**			
Fixed	RR	1.32	3.29	1.41			
	RR1	1.15	1.97	1.23			
	RRu	1.52	5.49	1.61			
	P	+++	+++	+++			
Between	P			***			
		<u>Study adjusts for in life exposure</u>					
		5	1	6			
Het	P	(*)	N.S.	**			
Fixed	RR	1.36	3.30	1.41			
	RR1	1.18	1.70	1.23			
	RRu	1.56	6.40	1.61			
	P	+++	+++	+++			
Between	P			*			
		<u>Exposed Overall : when Exposed</u>					
		lif/ev	age<7y	current	unspec	other	Total
	N	1			4	1	6
Het	P	N.S.		N.S.		N.S.	**
Fixed	RR	11.00		1.33		3.30	1.41
	RR1	2.51		1.16		1.70	1.23
	RRu	48.30		1.53		6.40	1.61
	P	++		+++		+++	+++
Between	P						***

Table A43 - 3

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically

		Current Asthma						
		Adjusted						
		Unexposed Overall : who is smoker						
		NoHhMemb	NoParent	NotSpPar	Total			
		N	1	5	6			
Het	P	N.S.	**		**			
Fixed	RR	1.40	1.41		1.41			
	RR1	0.88	1.22		1.23			
	RRu	2.24	1.62		1.61			
	P	N.S.	+++		+++			
Between	P				N.S.			
		Unexposed Overall : time						
		non	never	non+othr	Total			
		N	4	2	6			
Het	P	*	N.S.		**			
Fixed	RR	2.07	1.32		1.41			
	RR1	1.46	1.14		1.23			
	RRu	2.92	1.52		1.61			
	P	+++	+++		+++			
Between	P				*			
		Number of adjustment variables						
		0	1	2	3-5	6-9	10+	Total
		N	1		1	2	2	6
Het	P	N.S.			N.S.	**	N.S.	**
Fixed	RR	1.94			3.30	1.69	1.32	1.41
	RR1	0.74			1.70	1.08	1.14	1.23
	RRu	5.12			6.40	2.64	1.52	1.61
	P	N.S.			+++	+	+++	+++
Between	P							*
		RR adjusted for sex						
		Yes	No	Total				
		N	5	1	6			
Het	P	**	N.S.		**			
Fixed	RR	1.40	1.94		1.41			
	RR1	1.22	0.74		1.23			
	RRu	1.60	5.12		1.61			
	P	+++	N.S.		+++			
Between	P				N.S.			
		RR adjusted for age						
		N	3	3	6			
Het	P	N.S.	N.S.		**			
Fixed	RR	1.32	3.29		1.41			
	RR1	1.15	1.97		1.23			
	RRu	1.52	5.49		1.61			
	P	+++	+++		+++			
Between	P				***			
		RR adjusted for other ETS						
		N	2	4	6			
Het	P	N.S.	*		**			
Fixed	RR	1.32	2.07		1.41			
	RR1	1.14	1.46		1.23			
	RRu	1.52	2.92		1.61			
	P	+++	+++		+++			
Between	P				*			
		RR adjusted for factor other than sex, age, other ETS						
		N	5	1	6			
Het	P	**	N.S.		**			
Fixed	RR	1.40	1.94		1.41			
	RR1	1.22	0.74		1.23			
	RRu	1.60	5.12		1.61			
	P	+++	N.S.		+++			
Between	P				N.S.			
		Derivation of RR/CI						
		Original	Numbers	SumNumbs	Other	Total		
		N	5	1		6		
Het	P	**	N.S.			**		
Fixed	RR	1.40	1.94			1.41		
	RR1	1.22	0.74			1.23		
	RRu	1.60	5.12			1.61		
	P	+++	N.S.			+++		
Between	P					N.S.		

Table A43 - 6

IESAST - Meta-analysis of Lifetime Parental Exposure, Both Parents specifically
 Current Asthma
 Unadjusted

		<u>Overall</u>						
	N	6						
	NS	6						
	Wt	224.53						
Het	Chi	18.02						
Het	df	5						
Het	P	**						
Fixed	RR	1.46						
	RR1	1.28						
	RRu	1.67						
	P	+++						
Random	RR	1.80						
	RR1	1.29						
	RRu	2.51						
	P	+++						
Asymm	P	(*)						
<u>Sex</u>								
		both	male	female		Total		
	N	6				6		
Het	P	**				**		
Fixed	RR	1.46				1.46		
	RR1	1.28				1.28		
	RRu	1.67				1.67		
	P	+++				+++		
Between	P					N.S.		
<u>Continent</u>								
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	2		4				6
Het	P	**		*				**
Fixed	RR	2.01		1.40				1.46
	RR1	1.37		1.22				1.28
	RRu	2.95		1.61				1.67
	P	+++		+++				+++
Between	P							(*)
<u>Start year of study</u>								
		<1970	1970-79	1980-89	1990+	unknown		Total
	N			2	4			6
Het	P			N.S.	(*)			**
Fixed	RR			3.26	1.39			1.46
	RR1			1.89	1.22			1.28
	RRu			5.63	1.59			1.67
	P			+++	+++			+++
Between	P							**
<u>Study type</u>								
		CC	Pr	CS		Total		
	N	3	2	1		6		
Het	P	N.S.	N.S.	N.S.		**		
Fixed	RR	1.38	4.89	1.40		1.46		
	RR1	1.20	2.67	0.88		1.28		
	RRu	1.58	8.94	2.24		1.67		
	P	+++	+++	N.S.		+++		
Between	P					***		

Table A45 -

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma

This analysis is restricted to results for:

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

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

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

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

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 Section -3 and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
Adjusted

		<u>Overall</u>			
	N	44			
	NS	42			
	Wt	2761.06			
Het	Chi	74.60			
Het	df	43			
Het	P	**			
Fixed	RR	1.30			
	RR1	1.25			
	RRu	1.35			
	P	+++			
Random	RR	1.31			
	RR1	1.23			
	RRu	1.39			
	P	+++			
Asymm	P	N.S.			

		<u>Sex</u>			
		both	male	female	Total
	N	39	3	2	44
Het	P	**	N.S.	N.S.	**
Fixed	RR	1.29	1.68	1.54	1.30
	RR1	1.24	1.20	0.91	1.25
	RRu	1.34	2.35	2.60	1.35
	P	+++	++	N.S.	+++
Between	P	N.S.			

		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	15	1	17	6	5		44
Het	P	N.S.	N.S.	**	N.S.	**		**
Fixed	RR	1.36	1.57	1.30	1.37	1.16		1.30
	RR1	1.25	0.53	1.24	1.18	1.04		1.25
	RRu	1.49	4.66	1.36	1.59	1.29		1.35
	P	+++	N.S.	+++	+++	++		+++
Between	P	N.S.						

		<u>Country in Europe</u>						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
	N	7	1	2	3	2	2	17
Het	P	*	N.S.	*	N.S.	N.S.	N.S.	**
Fixed	RR	1.31	1.57	1.07	1.63	1.15	1.21	1.30
	RR1	1.25	1.18	0.87	1.23	0.89	0.99	1.24
	RRu	1.38	2.09	1.31	2.16	1.48	1.47	1.36
	P	+++	++	N.S.	+++	N.S.	(+)	+++
Between	P	(*)						

		<u>Country in Asia</u>			
		FarEast	Cent/SE	MidlEast	Total
	N	1		5	6
Het	P	N.S.		N.S.	N.S.
Fixed	RR	1.32		1.38	1.37
	RR1	0.71		1.18	1.18
	RRu	2.45		1.60	1.59
	P	N.S.		+++	+++
Between	P	N.S.			

		<u>Start year of study</u>					
		<1970	1970-79	1980-89	1990+	unknown	Total
	N	1	9	16	12	6	44
Het	P	N.S.	**	*	N.S.	N.S.	**
Fixed	RR	1.26	1.20	1.37	1.21	1.33	1.30
	RR1	1.05	1.10	1.27	1.09	1.25	1.25
	RRu	1.51	1.32	1.49	1.35	1.40	1.35
	P	+	+++	+++	+++	+++	+++
Between	P	N.S.					

		<u>Publication year</u>				
		<1990	1990-94	1995-99	2000+	Total
	N	8	12	15	9	44
Het	P	***	N.S.	N.S.	N.S.	**
Fixed	RR	1.18	1.30	1.36	1.29	1.30
	RR1	1.02	1.19	1.26	1.22	1.25
	RRu	1.35	1.41	1.47	1.36	1.35
	P	+	+++	+++	+++	+++
Between	P	N.S.				

Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
Adjusted

		<u>Study type</u>				
		CC	Pr	CS	Total	
	N	4	11	29	44	
Het	P	N.S.	**	(*)	**	
Fixed	RR	1.84	1.26	1.33	1.30	
	RRl	1.37	1.20	1.26	1.25	
	RRu	2.48	1.32	1.42	1.35	
	P	+++	+++	+++	+++	
Between	P				*	

		<u>Highest age in RR</u>				
		0-9	10-14	15+	unknown	Total
	N	9	17	18		44
Het	P	***	N.S.	N.S.		**
Fixed	RR	1.23	1.30	1.35		1.30
	RRl	1.12	1.24	1.25		1.25
	RRu	1.35	1.36	1.45		1.35
	P	+++	+++	+++		+++
Between	P					N.S.

		<u>Population setting</u>					
		general	school	medical	allergy	other	Total
	N	8	22	12		2	44
Het	P	(*)	*	*		(*)	**
Fixed	RR	1.35	1.28	1.32		1.14	1.30
	RRl	1.19	1.20	1.25		0.96	1.25
	RRu	1.53	1.36	1.39		1.35	1.35
	P	+++	+++	+++		N.S.	+++
Between	P						N.S.

		<u>Respondent for smoking</u>					
		child	parent	med rec	mix/oth	Total	
	N	3	27	2	12	44	
Het	P	*	***	N.S.	N.S.	**	
Fixed	RR	1.21	1.27	1.31	1.33	1.30	
	RRl	0.92	1.20	1.24	1.22	1.25	
	RRu	1.58	1.35	1.39	1.46	1.35	
	P	N.S.	+++	+++	+++	+++	
Between	P						N.S.

		<u>Child smokers</u>				
		exc/none	included	ignored	Total	
	N	8	8	28	44	
Het	P	N.S.	N.S.	**	**	
Fixed	RR	1.30	1.32	1.29	1.30	
	RRl	1.08	1.20	1.24	1.25	
	RRu	1.56	1.46	1.35	1.35	
	P	++	+++	+++	+++	
Between	P					N.S.

		<u>Physician diagnosis (lifetime)</u>			
		yes	no/mixed	Total	
	N	23	21	44	
Het	P	**	N.S.	**	
Fixed	RR	1.29	1.31	1.30	
	RRl	1.23	1.23	1.25	
	RRu	1.35	1.39	1.35	
	P	+++	+++	+++	
Between	P				N.S.

		<u>Respondent for diagnosis (lifetime)</u>				
		medrec	parent	child	mixed	Total
	N	6	26	6	6	44
Het	P	**	*	*	N.S.	**
Fixed	RR	1.30	1.31	1.18	1.27	1.30
	RRl	1.23	1.23	0.99	1.14	1.25
	RRu	1.38	1.39	1.42	1.42	1.35
	P	+++	+++	(+)	+++	+++
Between	P					N.S.

Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
Adjusted

		<u>Questionnaire for symptoms</u>			
		ISAAC	ATS	other	Total
	N	7	7	30	44
Het	P	N.S.	N.S.	***	**
Fixed	RR	1.18	1.33	1.31	1.30
	RR1	1.06	1.21	1.26	1.25
	RRu	1.30	1.46	1.37	1.35
	P	++	+++	+++	+++
Between	P				N.S.

		<u>Analysis type</u>		
		prevalence	onset	Total
	N	35	9	44
Het	P	*	**	**
Fixed	RR	1.35	1.25	1.30
	RR1	1.28	1.19	1.25
	RRu	1.42	1.32	1.35
	P	+++	+++	+++
Between	P			(*)

		<u>Number of cases (lifetime asthma)</u>					Total
		1-50	51-100	101-200	201+	unknown	
	N	3	7	11	22	1	44
Het	P	*	N.S.	**	N.S.	N.S.	**
Fixed	RR	1.19	1.77	1.26	1.29	1.36	1.30
	RR1	0.72	1.43	1.10	1.24	0.99	1.25
	RRu	1.96	2.20	1.44	1.34	1.87	1.35
	P	N.S.	+++	+++	+++	(+)	+++
Between	P						(*)

		<u>Study adjusts for or is matched on sex</u>		
		Yes	No	Total
	N	21	23	44
Het	P	*	**	**
Fixed	RR	1.28	1.30	1.30
	RR1	1.20	1.25	1.25
	RRu	1.37	1.37	1.35
	P	+++	+++	+++
Between	P			N.S.

		<u>Study adjusts for or is matched on age</u>		
	N	11	33	44
Het	P	N.S.	***	**
Fixed	RR	1.34	1.29	1.30
	RR1	1.22	1.24	1.25
	RRu	1.46	1.34	1.35
	P	+++	+++	+++
Between	P			N.S.

		<u>Study adjusts for or is matched on race</u>		
	N	7	37	44
Het	P	N.S.	**	**
Fixed	RR	1.33	1.29	1.30
	RR1	1.20	1.24	1.25
	RRu	1.48	1.34	1.35
	P	+++	+++	+++
Between	P			N.S.

		<u>Study adjusts for or is matched on location</u>		
	N	8	36	44
Het	P	N.S.	***	**
Fixed	RR	1.30	1.30	1.30
	RR1	1.20	1.24	1.25
	RRu	1.42	1.35	1.35
	P	+++	+++	+++
Between	P			N.S.

Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
Adjusted

		<u>Study adjusts for or is matched on SES</u>		
		Yes	No	Total
	N	14	30	44
Het	P	***	N.S.	**
Fixed	RR	1.25	1.31	1.30
	RR1	1.16	1.26	1.25
	RRu	1.35	1.37	1.35
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for family medical history</u>		
	N	17	27	44
Het	P	*	*	**
Fixed	RR	1.23	1.33	1.30
	RR1	1.15	1.27	1.25
	RRu	1.31	1.40	1.35
	P	+++	+++	+++
Between	P			*
		<u>Study adjusts for family composition</u>		
	N	9	35	44
Het	P	**	*	**
Fixed	RR	1.27	1.30	1.30
	RR1	1.17	1.25	1.25
	RRu	1.38	1.36	1.35
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for cooking, heating, air conditioning</u>		
	N	4	40	44
Het	P	N.S.	**	**
Fixed	RR	1.23	1.31	1.30
	RR1	1.12	1.26	1.25
	RRu	1.36	1.36	1.35
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for housing quality, crowding, damp, mould</u>		
	N	5	39	44
Het	P	N.S.	**	**
Fixed	RR	1.29	1.30	1.30
	RR1	1.12	1.25	1.25
	RRu	1.49	1.35	1.35
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for pets, animal contact, farming</u>		
	N	6	38	44
Het	P	N.S.	**	**
Fixed	RR	1.16	1.31	1.30
	RR1	0.98	1.26	1.25
	RRu	1.37	1.36	1.35
	P	(+)	+++	+++
Between	P			N.S.
		<u>Study adjusts for child's medical history</u>		
	N	16	28	44
Het	P	*	*	**
Fixed	RR	1.23	1.32	1.30
	RR1	1.13	1.26	1.25
	RRu	1.33	1.37	1.35
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for in utero exposure</u>		
	N	2	42	44
Het	P	**	**	**
Fixed	RR	1.22	1.30	1.30
	RR1	0.78	1.25	1.25
	RRu	1.91	1.35	1.35
	P	N.S.	+++	+++
Between	P			N.S.

Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
Adjusted

		<u>Study adjusts for in life exposure</u>						
		Yes	No	Total				
	N	12	32	44				
Het	P	*	**	**				
Fixed	RR	1.31	1.29	1.30				
	RR1	1.21	1.24	1.25				
	RRu	1.42	1.35	1.35				
	P	+++	+++	+++				
Between	P			N.S.				
<u>Exposed Overall : Who is smoker</u>								
		Mother	MothersOnly	Total				
	N	44		44				
Het	P	**		**				
Fixed	RR	1.30		1.30				
	RR1	1.25		1.25				
	RRu	1.35		1.35				
	P	+++		+++				
Between	P			N.S.				
<u>Exposed Overall : when Exposed</u>								
		lif/ev	age<7y	current	unspec	other	Total	
	N	13	6	12	11	2	44	
Het	P	**	***	(*)	N.S.	(*)	**	
Fixed	RR	1.29	1.23	1.31	1.38	1.28	1.30	
	RR1	1.23	1.12	1.20	1.24	0.98	1.25	
	RRu	1.36	1.37	1.43	1.53	1.67	1.35	
	P	+++	+++	+++	+++	(+)	+++	
Between	P						N.S.	
<u>Unexposed Overall : who is smoker</u>								
		NoHhMemb	NoParent	NotSpPar	Total			
	N	2		42	44			
Het	P	N.S.		**	**			
Fixed	RR	1.20		1.30	1.30			
	RR1	0.78		1.25	1.25			
	RRu	1.84		1.35	1.35			
	P	N.S.		+++	+++			
Between	P				N.S.			
<u>Unexposed Overall : time</u>								
		non	never	non+othr	Total			
	N	36	8		44			
Het	P	***	N.S.		**			
Fixed	RR	1.28	1.32		1.30			
	RR1	1.21	1.25		1.25			
	RRu	1.35	1.39		1.35			
	P	+++	+++		+++			
Between	P				N.S.			
<u>Number of adjustment variables</u>								
		0	1	2	3-5	6-9	10+	Total
	N	18	8	3	6	7	2	44
Het	P	(*)	***	N.S.	N.S.	(*)	N.S.	**
Fixed	RR	1.30	1.20	1.25	1.45	1.25	1.34	1.30
	RR1	1.24	1.04	1.06	1.25	1.13	1.10	1.25
	RRu	1.37	1.39	1.47	1.68	1.39	1.64	1.35
	P	+++	+	++	+++	+++	++	+++
Between	P							N.S.
<u>RR adjusted for sex</u>								
		Yes	No	Total				
	N	14	30	44				
Het	P	(*)	**	**				
Fixed	RR	1.29	1.30	1.30				
	RR1	1.19	1.25	1.25				
	RRu	1.40	1.36	1.35				
	P	+++	+++	+++				
Between	P			N.S.				

Table A45 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
Adjusted

		<u>RR adjusted for age</u>		
		Yes	No	Total
	N	9	35	44
Het	P	N.S.	**	**
Fixed	RR	1.38	1.29	1.30
	RRl	1.23	1.24	1.25
	RRu	1.56	1.34	1.35
	P	+++	+++	+++
Between	P			N.S.

		<u>RR adjusted for other ETS</u>		
		8	36	44
Het	P	**	*	**
Fixed	RR	1.31	1.30	1.30
	RRl	1.17	1.25	1.25
	RRu	1.47	1.35	1.35
	P	+++	+++	+++
Between	P			N.S.

		<u>RR adjusted for factor other than sex, age, other ETS</u>		
		23	21	44
Het	P	**	*	**
Fixed	RR	1.32	1.29	1.30
	RRl	1.23	1.23	1.25
	RRu	1.41	1.35	1.35
	P	+++	+++	+++
Between	P			N.S.

		<u>Derivation of RR/CI</u>				
		Original	Numbers	SumNumbs	Other	Total
	N	19	14	4	7	44
Het	P	(*)	N.S.	**	*	**
Fixed	RR	1.29	1.34	1.05	1.30	1.30
	RRl	1.21	1.23	0.85	1.24	1.25
	RRu	1.38	1.47	1.30	1.37	1.35
	P	+++	+++	N.S.	+++	+++
Between	P					N.S.

Table A45 - 6

IESAST - Meta-analysis of Lifetime Maternal Exposure
Lifetime Asthma
 Unadjusted

		<u>Overall</u>			
	N	45			
	NS	42			
	Wt	3020.03			
	Het Chi	64.21			
	Het df	44			
	Het P	*			
Fixed	RR	1.30			
	RRl	1.26			
	RRu	1.35			
	P	+++			
Random	RR	1.31			
	RRl	1.24			
	RRu	1.38			
	P	+++			
Asymm	P	N.S.			

		<u>Sex</u>			
		both	male	female	Total
	N	38	4	3	45
	Het P	*	N.S.	N.S.	*
Fixed	RR	1.29	1.33	1.45	1.30
	RRl	1.24	1.16	1.22	1.26
	RRu	1.34	1.53	1.73	1.35
	P	+++	+++	+++	+++
Between	P	N.S.			

		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	15	1	17	6	6		45
	Het P	N.S.	N.S.	*	N.S.	**		*
Fixed	RR	1.38	1.57	1.29	1.33	1.25		1.30
	RRl	1.26	0.53	1.23	1.16	1.14		1.26
	RRu	1.51	4.66	1.35	1.52	1.37		1.35
	P	+++	N.S.	+++	+++	+++		+++
Between	P	N.S.						

		<u>Start year of study</u>					Total
		<1970	1970-79	1980-89	1990+	unknown	
	N	2	9	16	12	6	45
	Het P	N.S.	**	N.S.	N.S.	N.S.	*
Fixed	RR	1.34	1.22	1.37	1.19	1.33	1.30
	RRl	1.19	1.11	1.27	1.08	1.26	1.26
	RRu	1.51	1.33	1.48	1.32	1.40	1.35
	P	+++	+++	+++	+++	+++	+++
Between	P	N.S.					

		<u>Study type</u>			
		CC	Pr	CS	Total
	N	4	11	30	45
	Het P	N.S.	*	N.S.	*
Fixed	RR	1.84	1.27	1.33	1.30
	RRl	1.37	1.21	1.26	1.26
	RRu	2.48	1.33	1.40	1.35
	P	+++	+++	+++	+++
Between	P	*			

Table A47 -

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma

This analysis is restricted to results for:

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

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

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

Finally by Age: whole study if available, otherwise by widest available age Overall
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 Section -3
and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A
for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma
Adjusted

		<u>Overall</u>							
	N	27							
	NS	27							
	Wt	1106.74							
	Het Chi	58.67							
	Het df	26							
	Het P	***							
Fixed	RR	1.21							
	RR1	1.14							
	RRu	1.28							
	P	+++							
Random	RR	1.23							
	RR1	1.10							
	RRu	1.38							
	P	+++							
Asymm	P	N.S.							
<u>Sex</u>									
		both	male	female	Total				
	N	27			27				
	Het P	***			***				
Fixed	RR	1.21			1.21				
	RR1	1.14			1.14				
	RRu	1.28			1.28				
	P	+++			+++				
Between	P				N.S.				
<u>Continent</u>									
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total	
	N	9	1	10	6	1		27	
	Het P	N.S.	N.S.	**	*	N.S.		***	
Fixed	RR	1.20	1.53	1.20	1.24	0.36		1.21	
	RR1	1.08	1.14	1.11	0.99	0.13		1.14	
	RRu	1.33	2.04	1.29	1.55	1.00		1.28	
	P	+++	++	+++	(+)	(-)		+++	
Between	P							(*)	
<u>Country in Europe</u>									
		UK	Italy	Germany	Scand	othWest	East/Bal	Total	
	N	4	2		3	1		10	
	Het P	N.S.	(*)		***	N.S.		**	
Fixed	RR	1.15	1.19		1.14	2.07		1.20	
	RR1	0.89	1.09		0.91	1.21		1.11	
	RRu	1.47	1.30		1.44	3.54		1.29	
	P	N.S.	+++		N.S.	++		+++	
Between	P							N.S.	
<u>Country in Asia</u>									
		FarEast	Cent/SE	MidlEast	Total				
	N	3		3	6				
	Het P	(*)		(*)	*				
Fixed	RR	1.55		1.19	1.24				
	RR1	0.87		0.93	0.99				
	RRu	2.77		1.51	1.55				
	P	N.S.		N.S.	(+)				
Between	P				N.S.				
<u>Start year of study</u>									
		<1970	1970-79	1980-89	1990+	unknown	Total		
	N		3	10	14		27		
	Het P		(*)	*	(*)		***		
Fixed	RR		0.95	1.42	1.18		1.21		
	RR1		0.80	1.26	1.10		1.14		
	RRu		1.13	1.60	1.27		1.28		
	P		N.S.	+++	+++		+++		
Between	P						***		
<u>Publication year</u>									
		<1990	1990-94	1995-99	2000+	Total			
	N	3	8	10	6	27			
	Het P	(*)	***	N.S.	*	***			
Fixed	RR	0.77	1.26	1.23	1.10	1.21			
	RR1	0.48	1.10	1.14	0.95	1.14			
	RRu	1.24	1.43	1.33	1.28	1.28			
	P	N.S.	+++	+++	N.S.	+++			
Between	P					N.S.			

Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure							
Current Asthma							
Adjusted							
Study type							
		CC	Pr	CS	Total		
	N	10	5	12	27		
Het	P	*	*	**	***		
Fixed	RR	1.23	1.13	1.21	1.21		
	RR1	1.13	0.98	1.09	1.14		
	RRu	1.34	1.29	1.35	1.28		
	P	+++	(+)	+++	+++		
Between	P				N.S.		
Highest age in RR							
		0-9	10-14	15+	unknown	Total	
	N	6	6	14	1	27	
Het	P	N.S.	N.S.	***	N.S.	***	
Fixed	RR	1.30	1.10	1.27	1.96	1.21	
	RR1	1.16	1.00	1.14	1.10	1.14	
	RRu	1.46	1.20	1.42	3.48	1.28	
	P	+++	+	+++	+	+++	
Between	P					*	
Population setting							
		general	school	medical	allergy	other	Total
	N	4	16	6	1		27
Het	P	**	*	*	N.S.		***
Fixed	RR	1.14	1.20	1.46	2.02		1.21
	RR1	0.99	1.12	1.13	0.82		1.14
	RRu	1.32	1.29	1.90	4.99		1.28
	P	(+)	+++	++	N.S.		+++
Between	P						N.S.
Respondent for smoking							
		child	parent	med rec	mix/oth	Total	
	N	3	15		9	27	
Het	P	*	**		*	***	
Fixed	RR	1.17	1.22		1.19	1.21	
	RR1	0.92	1.13		1.07	1.14	
	RRu	1.47	1.31		1.33	1.28	
	P	N.S.	+++		++	+++	
Between	P					N.S.	
Child smokers							
		exc/none	included	ignored	Total		
	N	4	7	16	27		
Het	P	*	N.S.	**	***		
Fixed	RR	1.26	1.11	1.29	1.21		
	RR1	1.11	1.01	1.17	1.14		
	RRu	1.43	1.22	1.41	1.28		
	P	+++	+	+++	+++		
Between	P				(*)		
Physician diagnosis (current)							
		yes	no/mix	Total			
	N	11	16	27			
Het	P	***	*	***			
Fixed	RR	1.22	1.20	1.21			
	RR1	1.02	1.13	1.14			
	RRu	1.46	1.28	1.28			
	P	+	+++	+++			
Between	P			N.S.			
Respondent for diagnosis (current)							
		medrec	parent	child	mixed	Total	
	N	8	13	6		27	
Het	P	*	*	**		***	
Fixed	RR	1.51	1.21	1.07		1.21	
	RR1	1.17	1.13	0.91		1.14	
	RRu	1.94	1.29	1.26		1.28	
	P	++	+++	N.S.		+++	
Between	P					(*)	

Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma
Adjusted

		<u>Questionnaire for symptoms</u>			
		ISAAC	ATS	other	Total
	N	7	2	18	27
Het	P	N.S.	N.S.	***	***
Fixed	RR	1.22	1.00	1.28	1.21
	RRl	1.12	0.85	1.15	1.14
	RRu	1.32	1.18	1.42	1.28
	P	+++	N.S.	+++	+++
Between	P				*

		<u>Number of cases (current asthma)</u>					Total
		1-50	51-100	101-200	201+	unknown	
	N	4	6	5	12		27
Het	P	*	N.S.	**	*		***
Fixed	RR	1.33	1.27	1.17	1.20		1.21
	RRl	0.91	0.98	0.97	1.13		1.14
	RRu	1.94	1.64	1.40	1.29		1.28
	P	N.S.	(+)	(+)	+++		+++
Between	P						N.S.

		<u>Study adjusts for or is matched on sex</u>		
		Yes	No	Total
	N	22	5	27
Het	P	**	**	***
Fixed	RR	1.20	1.37	1.21
	RRl	1.13	1.08	1.14
	RRu	1.27	1.73	1.28
	P	+++	++	+++
Between	P			N.S.

		<u>Study adjusts for or is matched on age</u>		
		Yes	No	Total
	N	16	11	27
Het	P	**	*	***
Fixed	RR	1.18	1.30	1.21
	RRl	1.11	1.14	1.14
	RRu	1.26	1.49	1.28
	P	+++	+++	+++
Between	P			N.S.

		<u>Study adjusts for or is matched on race</u>		
		Yes	No	Total
	N	7	20	27
Het	P	(*)	***	***
Fixed	RR	1.18	1.22	1.21
	RRl	1.07	1.13	1.14
	RRu	1.31	1.31	1.28
	P	++	+++	+++
Between	P			N.S.

		<u>Study adjusts for or is matched on location</u>		
		Yes	No	Total
	N	12	15	27
Het	P	**	*	***
Fixed	RR	1.18	1.37	1.21
	RRl	1.10	1.19	1.14
	RRu	1.25	1.58	1.28
	P	+++	+++	+++
Between	P			(*)

		<u>Study adjusts for or is matched on SES</u>		
		Yes	No	Total
	N	13	14	27
Het	P	**	*	***
Fixed	RR	1.18	1.35	1.21
	RRl	1.11	1.17	1.14
	RRu	1.26	1.56	1.28
	P	+++	+++	+++
Between	P			N.S.

		<u>Study adjusts for family medical history</u>		
		Yes	No	Total
	N	12	15	27
Het	P	(*)	***	***
Fixed	RR	1.18	1.27	1.21
	RRl	1.10	1.14	1.14
	RRu	1.27	1.42	1.28
	P	+++	+++	+++
Between	P			N.S.

Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure
Current Asthma
 Adjusted

<u>Study adjusts for family composition</u>				
		Yes	No	Total
	N	5	22	27
Het	P	**	**	***
Fixed	RR	1.11	1.25	1.21
	RRl	1.01	1.17	1.14
	RRu	1.24	1.35	1.28
	P	+	+++	+++
Between	P			(*)
<u>Study adjusts for cooking, heating, air conditioning</u>				
	N	7	20	27
Het	P	*	**	***
Fixed	RR	1.18	1.24	1.21
	RRl	1.10	1.13	1.14
	RRu	1.28	1.37	1.28
	P	+++	+++	+++
Between	P			N.S.
<u>Study adjusts for housing quality, crowding, damp, mould</u>				
	N	7	20	27
Het	P	N.S.	***	***
Fixed	RR	1.22	1.19	1.21
	RRl	1.13	1.09	1.14
	RRu	1.32	1.30	1.28
	P	+++	+++	+++
Between	P			N.S.
<u>Study adjusts for pets, animal contact, farming</u>				
	N	6	21	27
Het	P	N.S.	***	***
Fixed	RR	1.33	1.19	1.21
	RRl	1.13	1.11	1.14
	RRu	1.55	1.27	1.28
	P	+++	+++	+++
Between	P			N.S.
<u>Study adjusts for child's medical history</u>				
	N	8	19	27
Het	P	N.S.	***	***
Fixed	RR	1.34	1.19	1.21
	RRl	1.12	1.12	1.14
	RRu	1.59	1.27	1.28
	P	++	+++	+++
Between	P			N.S.
<u>Study adjusts for in utero exposure</u>				
	N	5	22	27
Het	P	N.S.	***	***
Fixed	RR	1.17	1.24	1.21
	RRl	1.07	1.15	1.14
	RRu	1.27	1.35	1.28
	P	+++	+++	+++
Between	P			N.S.
<u>Study adjusts for in life exposure</u>				
	N	11	16	27
Het	P	(*)	***	***
Fixed	RR	1.23	1.16	1.21
	RRl	1.15	1.04	1.14
	RRu	1.32	1.28	1.28
	P	+++	++	+++
Between	P			N.S.
<u>Exposed Overall : Who is smoker</u>				
		Mother	MothOnly	Total
	N	26	1	27
Het	P	***	N.S.	***
Fixed	RR	1.21	0.90	1.21
	RRl	1.14	0.52	1.14
	RRu	1.28	1.56	1.28
	P	+++	N.S.	+++
Between	P			N.S.

Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure								
Current Asthma								
Adjusted								
Exposed Overall : when Exposed								
		lif/ev	age<7y	current	unspec	other	Total	
	N	8		7	11	1	27	
Het	P	*		*	(*)	N.S.	***	
Fixed	RR	1.13		1.32	1.39	1.60	1.21	
	RR1	1.05		1.16	1.18	1.03	1.14	
	RRu	1.21		1.50	1.63	2.48	1.28	
	P	++		+++	+++	+	+++	
Between	P						*	
Unexposed Overall : who is smoker								
		NoHhMemb	NoParent	NotSpPar	Total			
	N	3		24	27			
Het	P	N.S.		***	***			
Fixed	RR	0.95		1.21	1.21			
	RR1	0.60		1.14	1.14			
	RRu	1.52		1.29	1.28			
	P	N.S.		+++	+++			
Between	P				N.S.			
Unexposed Overall : time								
		non	never	non+othr	Total			
	N	22		5	27			
Het	P	*		**	***			
Fixed	RR	1.34		1.12	1.21			
	RR1	1.23		1.04	1.14			
	RRu	1.47		1.21	1.28			
	P	+++		++	+++			
Between	P				**			
Number of adjustment variables								
		0	1	2	3-5	6-9	10+	Total
	N	11	3		4	4	5	27
Het	P	*	*		N.S.	**	N.S.	***
Fixed	RR	1.32	1.16		1.54	1.20	1.16	1.21
	RR1	1.10	0.85		1.23	1.04	1.08	1.14
	RRu	1.58	1.58		1.93	1.39	1.25	1.28
	P	++	N.S.		+++	+	+++	+++
Between	P							N.S.
RR adjusted for sex								
		Yes	No	Total				
	N	13	14	27				
Het	P	**	*	***				
Fixed	RR	1.19	1.28	1.21				
	RR1	1.12	1.09	1.14				
	RRu	1.27	1.49	1.28				
	P	+++	++	+++				
Between	P			N.S.				
RR adjusted for age								
		11	16	Total				
	N	11	16	27				
Het	P	**	*	***				
Fixed	RR	1.18	1.29	1.21				
	RR1	1.10	1.14	1.14				
	RRu	1.26	1.46	1.28				
	P	+++	+++	+++				
Between	P			N.S.				
RR adjusted for other ETS								
		7	20	Total				
	N	7	20	27				
Het	P	(*)	***	***				
Fixed	RR	1.23	1.17	1.21				
	RR1	1.14	1.06	1.14				
	RRu	1.32	1.29	1.28				
	P	+++	++	+++				
Between	P			N.S.				

Table A47 - 3

IESAST - Meta-analysis of Lifetime Maternal Exposure					
Current Asthma					
Adjusted					
RR adjusted for factor other than sex, age, other ETS					
		Yes	No	Total	
	N	14	13	27	
Het	P	**	**	***	
Fixed	RR	1.19	1.30	1.21	
	RRl	1.12	1.10	1.14	
	RRu	1.27	1.53	1.28	
	P	+++	++	+++	
Between	P			N.S.	
Derivation of RR/CI					
	Original	Numbers	SumNumbs	Other	Total
	N	6	7	3	11
Het	P	N.S.	N.S.	N.S.	***
Fixed	RR	1.34	1.45	0.89	1.16
	RRl	1.18	1.19	0.65	1.07
	RRu	1.52	1.77	1.23	1.24
	P	+++	+++	N.S.	+++
Between	P				*

Table A47 - 6

IESAST - Meta-analysis of Lifetime Maternal Exposure
 Current Asthma
 Unadjusted

		<u>Overall</u>							
	N	27							
	NS	27							
	Wt	1261.67							
	Het Chi	53.23							
	Het df	26							
	Het P	**							
Fixed	RR	1.27							
	RRl	1.20							
	RRu	1.34							
	P	+++							
Random	RR	1.27							
	RRl	1.15							
	RRu	1.41							
	P	+++							
Asymm	P	N.S.							
		<u>Sex</u>							
		both	male	female	Total				
	N	27		27					
	Het P	**		**					
Fixed	RR	1.27		1.27					
	RRl	1.20		1.20					
	RRu	1.34		1.34					
	P	+++		+++					
Between	P			N.S.					
		<u>Continent</u>							
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total	
	N	9	1	10	6	1		27	
	Het P	N.S.	N.S.	(*)	*	N.S.		**	
Fixed	RR	1.18	1.53	1.26	1.54	0.36		1.27	
	RRl	1.07	1.14	1.17	1.30	0.13		1.20	
	RRu	1.30	2.04	1.36	1.82	1.00		1.34	
	P	+++	++	+++	+++	(-)		+++	
Between	P							**	
		<u>Start year of study</u>					Total		
		<1970	1970-79	1980-89	1990+	unknown			
	N		3	10	14		27		
	Het P		(*)	(*)	N.S.		**		
Fixed	RR		0.95	1.37	1.29		1.27		
	RRl		0.80	1.23	1.20		1.20		
	RRu		1.13	1.52	1.38		1.34		
	P		N.S.	+++	+++		+++		
Between	P						**		
		<u>Study type</u>				Total			
		CC	Pr	CS					
	N	10	5	12	27				
	Het P	N.S.	*	**	**				
Fixed	RR	1.26	1.14	1.34	1.27				
	RRl	1.17	1.00	1.21	1.20				
	RRu	1.37	1.31	1.47	1.34				
	P	+++	(+)	+++	+++				
Between	P				N.S.				

Table A53 -

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma

This analysis is restricted to results for:

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

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

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

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

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 Section -3 and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
Adjusted

		<u>Overall</u>			
	N	31			
	NS	27			
	Wt	2059.12			
Het	Chi	66.46			
Het	df	30			
Het	P	***			
Fixed	RR	1.18			
	RRl	1.13			
	RRu	1.23			
	P	+++			
Random	RR	1.16			
	RRl	1.08			
	RRu	1.26			
	P	+++			
Asymm	P	N.S.			

		<u>Sex</u>			
		both	male	female	Total
	N	22	5	4	31
Het	P	**	***	N.S.	***
Fixed	RR	1.18	1.22	1.15	1.18
	RRl	1.13	1.08	0.98	1.13
	RRu	1.24	1.38	1.34	1.23
	P	+++	++	(+)	+++
Between	P	N.S.			

		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	9		9	9	4		31
Het	P	N.S.		N.S.	***	*		***
Fixed	RR	1.25		1.22	1.19	1.05		1.18
	RRl	1.06		1.15	1.08	0.95		1.13
	RRu	1.47		1.30	1.30	1.16		1.23
	P	++		+++	+++	N.S.		+++
Between	P	(*)						

		<u>Country in Europe</u>						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
	N	4	1	1	1		2	9
Het	P	N.S.	N.S.	N.S.	N.S.		N.S.	N.S.
Fixed	RR	1.27	0.95	1.00	1.52		1.13	1.22
	RRl	1.19	0.71	0.79	0.84		0.95	1.15
	RRu	1.36	1.27	1.26	2.75		1.34	1.30
	P	+++	N.S.	N.S.	N.S.		N.S.	+++
Between	P	(*)						

		<u>Country in Asia</u>			
		FarEast	Cent/SE	MidlEast	Total
	N	4	1	4	9
Het	P	N.S.	N.S.	***	***
Fixed	RR	0.98	0.79	1.36	1.19
	RRl	0.84	0.42	1.20	1.08
	RRu	1.14	1.47	1.53	1.30
	P	N.S.	N.S.	+++	+++
Between	P	**			

		<u>Start year of study</u>					
		<1970	1970-79	1980-89	1990+	unknown	Total
	N	2	5	10	9	5	31
Het	P	N.S.	N.S.	(*)	N.S.	***	***
Fixed	RR	1.08	1.34	1.09	1.07	1.32	1.18
	RRl	0.96	1.10	0.99	0.97	1.23	1.13
	RRu	1.22	1.63	1.19	1.18	1.41	1.23
	P	N.S.	++	(+)	N.S.	+++	+++
Between	P	***					

		<u>Publication year</u>				
		<1990	1990-94	1995-99	2000+	Total
	N	3	10	11	7	31
Het	P	N.S.	N.S.	(*)	***	***
Fixed	RR	1.41	1.10	1.07	1.29	1.18
	RRl	1.12	1.00	0.99	1.21	1.13
	RRu	1.78	1.20	1.17	1.38	1.23
	P	++	+	(+)	+++	+++
Between	P	***				

Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
Adjusted

		<u>Study type</u>					
		CC	Pr	CS	Total		
	N	1	6	24	31		
Het	P	N.S.	N.S.	***	***		
Fixed	RR	0.79	1.28	1.13	1.18		
	RR1	0.42	1.19	1.07	1.13		
	RRu	1.47	1.37	1.19	1.23		
	P	N.S.	+++	+++	+++		
Between	P					*	
		<u>Highest age in RR</u>					
		0-9	10-14	15+	unknown	Total	
	N	6	11	14		31	
Het	P	(*)	N.S.	**		***	
Fixed	RR	1.05	1.21	1.25		1.18	
	RR1	0.96	1.14	1.14		1.13	
	RRu	1.15	1.28	1.36		1.23	
	P	N.S.	+++	+++		+++	
Between	P					*	
		<u>Population setting</u>					
		general	school	medical	allergy	other	Total
	N	6	15	8	2		31
Het	P	*	***	N.S.	N.S.		***
Fixed	RR	1.07	1.12	1.28	1.15		1.18
	RR1	0.93	1.05	1.20	0.88		1.13
	RRu	1.24	1.20	1.37	1.49		1.23
	P	N.S.	+++	+++	N.S.		+++
Between	P						*
		<u>Respondent for smoking</u>					
		child	parent	med rec	mix/oth	Total	
	N	3	17	1	10	31	
Het	P	N.S.	***	N.S.	N.S.	***	
Fixed	RR	0.95	1.15	1.28	1.18	1.18	
	RR1	0.81	1.08	1.19	1.06	1.13	
	RRu	1.12	1.23	1.38	1.32	1.23	
	P	N.S.	+++	+++	++	+++	
Between	P					**	
		<u>Child smokers</u>			Total		
		exc/none	included	ignored	Total		
	N	8	4	19	31		
Het	P	N.S.	N.S.	***	***		
Fixed	RR	1.03	1.22	1.20	1.18		
	RR1	0.90	1.03	1.14	1.13		
	RRu	1.18	1.45	1.26	1.23		
	P	N.S.	+	+++	+++		
Between	P				N.S.		
		<u>Physician diagnosis (lifetime)</u>			Total		
		yes	no/mixed	Total	Total		
	N	17	14	31	31		
Het	P	N.S.	***	***	***		
Fixed	RR	1.20	1.16	1.18	1.18		
	RR1	1.13	1.08	1.13	1.13		
	RRu	1.27	1.24	1.23	1.23		
	P	+++	+++	+++	+++		
Between	P			N.S.			
		<u>Respondent for diagnosis (lifetime)</u>				Total	
		medrec	parent	child	mixed	Total	
	N	5	18	4	4	31	
Het	P	N.S.	***	N.S.	N.S.	***	
Fixed	RR	1.27	1.15	1.00	1.18	1.18	
	RR1	1.18	1.08	0.87	0.99	1.13	
	RRu	1.36	1.23	1.16	1.40	1.23	
	P	+++	+++	N.S.	(+)	+++	
Between	P					*	

Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
Adjusted

		<u>Questionnaire for symptoms</u>			
		ISAAC	ATS	other	Total
	N	3	7	21	31
Het	P	N.S.	N.S.	***	***
Fixed	RR	1.12	1.15	1.20	1.18
	RR1	0.97	1.02	1.14	1.13
	RRu	1.29	1.29	1.26	1.23
	P	N.S.	+	+++	+++
Between	P				N.S.

		<u>Analysis type</u>		
		prevalence	onset	Total
	N	26	5	31
Het	P	***	N.S.	***
Fixed	RR	1.13	1.28	1.18
	RR1	1.07	1.19	1.13
	RRu	1.19	1.37	1.23
	P	+++	+++	+++
Between	P			**

		<u>Number of cases (lifetime asthma)</u>					Total
		1-50	51-100	101-200	201+	unknown	
	N	1	5	6	18	1	31
Het	P	N.S.	N.S.	**	*	N.S.	***
Fixed	RR	0.82	1.12	1.53	1.15	1.10	1.18
	RR1	0.28	0.86	1.33	1.10	0.80	1.13
	RRu	2.40	1.45	1.76	1.21	1.51	1.23
	P	N.S.	N.S.	+++	+++	N.S.	+++
Between	P						**

		<u>Study adjusts for or is matched on sex</u>		
		Yes	No	Total
	N	15	16	31
Het	P	*	**	***
Fixed	RR	1.08	1.24	1.18
	RR1	1.00	1.17	1.13
	RRu	1.16	1.31	1.23
	P	+	+++	+++
Between	P			**

		<u>Study adjusts for or is matched on age</u>		
				Total
	N	7	24	31
Het	P	N.S.	***	***
Fixed	RR	1.03	1.20	1.18
	RR1	0.90	1.15	1.13
	RRu	1.17	1.26	1.23
	P	N.S.	+++	+++
Between	P			*

		<u>Study adjusts for or is matched on race</u>		
				Total
	N	2	29	31
Het	P	N.S.	***	***
Fixed	RR	1.41	1.18	1.18
	RR1	1.10	1.13	1.13
	RRu	1.81	1.23	1.23
	P	++	+++	+++
Between	P			N.S.

		<u>Study adjusts for or is matched on location</u>		
				Total
	N	5	26	31
Het	P	(*)	*	***
Fixed	RR	0.97	1.23	1.18
	RR1	0.88	1.18	1.13
	RRu	1.08	1.29	1.23
	P	N.S.	+++	+++
Between	P			***

Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
Adjusted

		<u>Study adjusts for or is matched on SES</u>		
		Yes	No	Total
	N	8	23	31
Het	P	*	**	***
Fixed	RR	1.04	1.21	1.18
	RR1	0.93	1.15	1.13
	RRu	1.16	1.27	1.23
	P	N.S.	+++	+++
Between	P			*
		<u>Study adjusts for family medical history</u>		
	N	12	19	31
Het	P	N.S.	***	***
Fixed	RR	1.18	1.19	1.18
	RR1	1.10	1.12	1.13
	RRu	1.26	1.25	1.23
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for family composition</u>		
	N	5	26	31
Het	P	**	**	***
Fixed	RR	1.02	1.20	1.18
	RR1	0.89	1.15	1.13
	RRu	1.18	1.26	1.23
	P	N.S.	+++	+++
Between	P			*
		<u>Study adjusts for cooking, heating, air conditioning</u>		
	N	1	30	31
Het	P	N.S.	***	***
Fixed	RR	0.95	1.19	1.18
	RR1	0.71	1.14	1.13
	RRu	1.27	1.24	1.23
	P	N.S.	+++	+++
Between	P			N.S.
		<u>Study adjusts for housing quality, crowding, damp, mould</u>		
	N	3	28	31
Het	P	N.S.	***	***
Fixed	RR	1.05	1.19	1.18
	RR1	0.90	1.14	1.13
	RRu	1.24	1.25	1.23
	P	N.S.	+++	+++
Between	P			N.S.
		<u>Study adjusts for pets, animal contact, farming</u>		
	N	4	27	31
Het	P	N.S.	***	***
Fixed	RR	1.35	1.17	1.18
	RR1	1.13	1.12	1.13
	RRu	1.62	1.23	1.23
	P	++	+++	+++
Between	P			N.S.
		<u>Study adjusts for child's medical history</u>		
	N	12	19	31
Het	P	N.S.	***	***
Fixed	RR	1.18	1.18	1.18
	RR1	1.09	1.12	1.13
	RRu	1.27	1.25	1.23
	P	+++	+++	+++
Between	P			N.S.
		<u>Study adjusts for in utero exposure</u>		
	N	1	30	31
Het	P	N.S.	***	***
Fixed	RR	1.52	1.18	1.18
	RR1	0.84	1.13	1.13
	RRu	2.75	1.23	1.23
	P	N.S.	+++	+++
Between	P			N.S.

Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
Adjusted

		<u>Study adjusts for in life exposure</u>						
		Yes	No	Total				
	N	12	19	31				
Het	P	*	**	***				
Fixed	RR	1.12	1.23	1.18				
	RR1	1.05	1.16	1.13				
	RRu	1.20	1.30	1.23				
	P	+++	+++	+++				
Between	P			*				
 <u>Exposed Overall : Who is smoker</u>								
		Father	FathOnly	Total				
	N	29	2	31				
Het	P	***	N.S.	***				
Fixed	RR	1.18	1.15	1.18				
	RR1	1.13	0.88	1.13				
	RRu	1.24	1.49	1.23				
	P	+++	N.S.	+++				
Between	P			N.S.				
 <u>Exposed Overall : when Exposed</u>								
		lif/ev	age<7y	current	unspec	other	Total	
	N	8	2	9	11	1	31	
Het	P	**	N.S.	*	N.S.	N.S.	***	
Fixed	RR	1.29	1.07	1.08	1.11	1.30	1.18	
	RR1	1.21	0.67	1.00	1.01	0.92	1.13	
	RRu	1.37	1.69	1.17	1.22	1.84	1.23	
	P	+++	N.S.	+	+	N.S.	+++	
Between	P						**	
 <u>Unexposed Overall : who is smoker</u>								
		NoHhMemb	NoParent	NotSpPar	Total			
	N	2	2	27	31			
Het	P	N.S.	N.S.	***	***			
Fixed	RR	0.90	1.15	1.20	1.18			
	RR1	0.74	0.88	1.15	1.13			
	RRu	1.09	1.49	1.26	1.23			
	P	N.S.	N.S.	+++	+++			
Between	P				*			
 <u>Unexposed Overall : time</u>								
		non	never	non+othr	Total			
	N	24	7		31			
Het	P	(*)	**		***			
Fixed	RR	1.11	1.27		1.18			
	RR1	1.05	1.20		1.13			
	RRu	1.18	1.36		1.23			
	P	+++	+++		+++			
Between	P				**			
 <u>Number of adjustment variables</u>								
		0	1	2	3-5	6-9	10+	Total
	N	19	4	2	2	3	1	31
Het	P	*	N.S.	N.S.	N.S.	**	N.S.	***
Fixed	RR	1.23	1.16	1.33	0.90	0.97	0.95	1.18
	RR1	1.17	0.98	0.98	0.74	0.81	0.71	1.13
	RRu	1.29	1.38	1.80	1.09	1.17	1.27	1.23
	P	+++	(+)	(+)	N.S.	N.S.	N.S.	+++
Between	P							**
 <u>RR adjusted for sex</u>								
		Yes	No	Total				
	N	7	24	31				
Het	P	(*)	*	***				
Fixed	RR	0.95	1.22	1.18				
	RR1	0.84	1.17	1.13				
	RRu	1.06	1.28	1.23				
	P	N.S.	+++	+++				
Between	P			***				

Table A53 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
Adjusted

		<u>RR adjusted for age</u>		
		Yes	No	Total
	N	6	25	31
Het	P	N.S.	***	***
Fixed	RR	1.01	1.20	1.18
	RRl	0.88	1.15	1.13
	RRu	1.15	1.26	1.23
	P	N.S.	+++	+++
Between	P			*

		<u>RR adjusted for other ETS</u>		
		Yes	No	Total
	N	6	25	31
Het	P	**	**	***
Fixed	RR	1.06	1.20	1.18
	RRl	0.95	1.15	1.13
	RRu	1.19	1.26	1.23
	P	N.S.	+++	+++
Between	P			(*)

		<u>RR adjusted for factor other than sex, age, other ETS</u>		
		Yes	No	Total
	N	9	22	31
Het	P	*	*	***
Fixed	RR	1.01	1.22	1.18
	RRl	0.90	1.16	1.13
	RRu	1.12	1.28	1.23
	P	N.S.	+++	+++
Between	P			**

		<u>Derivation of RR/CI</u>				
		Original	Numbers	SumNumbs	Other	Total
	N	8	14	5	4	31
Het	P	(*)	**	N.S.	N.S.	***
Fixed	RR	1.02	1.18	1.23	1.26	1.18
	RRl	0.92	1.10	1.03	1.17	1.13
	RRu	1.13	1.27	1.46	1.35	1.23
	P	N.S.	+++	+	+++	+++
Between	P					**

Table A53 - 6

IESAST - Meta-analysis of Lifetime Paternal Exposure
Lifetime Asthma
 Unadjusted

		<u>Overall</u>							
	N	31							
	NS	27							
	Wt	2094.54							
	Het Chi	59.08							
	Het df	30							
	Het P	**							
Fixed	RR	1.19							
	RR1	1.14							
	RRu	1.24							
	P	+++							
Random	RR	1.18							
	RR1	1.10							
	RRu	1.27							
	P	+++							
Asymm	P	N.S.							
<u>Sex</u>									
		both	male	female	Total				
	N	22	5	4	31				
	Het P	*	***	N.S.	**				
Fixed	RR	1.19	1.22	1.15	1.19				
	RR1	1.14	1.08	0.98	1.14				
	RRu	1.25	1.37	1.34	1.24				
	P	+++	++	(+)	+++				
Between	P	N.S.							
<u>Continent</u>									
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total	
	N	9		9	9	4		31	
	Het P	N.S.		N.S.	***	N.S.		**	
Fixed	RR	1.24		1.24	1.19	1.06		1.19	
	RR1	1.06		1.17	1.08	0.96		1.14	
	RRu	1.46		1.31	1.30	1.17		1.24	
	P	++		+++	+++	N.S.		+++	
Between	P	(*)							
<u>Start year of study</u>									
		<1970	1970-79	1980-89	1990+	unknown	Total		
	N	2	5	10	9	5	31		
	Het P	N.S.	N.S.	N.S.	N.S.	***	**		
Fixed	RR	1.08	1.30	1.12	1.07	1.32	1.19		
	RR1	0.96	1.07	1.03	0.97	1.24	1.14		
	RRu	1.22	1.57	1.23	1.18	1.42	1.24		
	P	N.S.	++	+	N.S.	+++	+++		
Between	P	***							
<u>Study type</u>									
		CC	Pr	CS	Total				
	N	1	6	24	31				
	Het P	N.S.	N.S.	***	**				
Fixed	RR	0.79	1.27	1.15	1.19				
	RR1	0.42	1.19	1.09	1.14				
	RRu	1.47	1.37	1.21	1.24				
	P	N.S.	+++	+++	+++				
Between	P	*							

Table A55 -

IESAST - Meta-analysis of Lifetime Paternal Exposure
Current Asthma

This analysis is restricted to results for:

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

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

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

Finally by Age: whole study if available, otherwise by widest available age Overall
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 Section -3
and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A
for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Current Asthma
Adjusted

		<u>Overall</u>						
	N	21						
	NS	21						
	Wt	925.35						
Het	Chi	25.22						
Het	df	20						
Het	P	N.S.						
Fixed	RR	1.03						
	RRl	0.96						
	RRu	1.10						
	P	N.S.						
Random	RR	1.00						
	RRl	0.93						
	RRu	1.09						
	P	N.S.						
Asymm	P	*						
		<u>Sex</u>						
		both	male	female	Total			
	N	21				21		
Het	P	N.S.				N.S.		
Fixed	RR	1.03				1.03		
	RRl	0.96				0.96		
	RRu	1.10				1.10		
	P	N.S.				N.S.		
Between	P	N.S.				N.S.		
		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	7					21	
Het	P	N.S.					N.S.	
Fixed	RR	0.92					1.03	
	RRl	0.80					0.96	
	RRu	1.04					1.10	
	P	N.S.					N.S.	
Between	P	N.S.					N.S.	
		<u>Country in Europe</u>						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
	N	3						7
Het	P	N.S.						N.S.
Fixed	RR	0.86						1.08
	RRl	0.65						0.99
	RRu	1.14						1.19
	P	N.S.						N.S.
Between	P	N.S.						N.S.
		<u>Country in Asia</u>						
		FarEast	Cent/SE	MidlEast	Total			
	N	3				6		
Het	P	N.S.				N.S.		
Fixed	RR	0.79				0.96		
	RRl	0.58				0.82		
	RRu	1.07				1.12		
	P	N.S.				N.S.		
Between	P	N.S.				N.S.		
		<u>Start year of study</u>						
		<1970	1970-79	1980-89	1990+	unknown	Total	
	N	1					11	21
Het	P	N.S.					N.S.	N.S.
Fixed	RR	0.84					1.06	1.03
	RRl	0.52					0.98	0.96
	RRu	1.36					1.15	1.10
	P	N.S.					N.S.	N.S.
Between	P	N.S.					N.S.	N.S.
		<u>Publication year</u>						
		<1990	1990-94	1995-99	2000+	Total		
	N	2					21	
Het	P	N.S.					N.S.	
Fixed	RR	1.04					1.03	
	RRl	0.73					0.96	
	RRu	1.50					1.10	
	P	N.S.					N.S.	
Between	P	N.S.					N.S.	

Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure							
Current Asthma							
Adjusted							
Study type							
		CC	Pr	CS	Total		
	N	9	2	10	21		
Het	P	N.S.	N.S.	N.S.	N.S.		
Fixed	RR	1.04	1.29	0.99	1.03		
	RRl	0.96	0.92	0.90	0.96		
	RRu	1.13	1.80	1.10	1.10		
	P	N.S.	N.S.	N.S.	N.S.		
Between	P				N.S.		
Highest age in RR							
		0-9	10-14	15+	unknown	Total	
	N	4	4	12	1	21	
Het	P	N.S.	N.S.	N.S.	N.S.	N.S.	
Fixed	RR	1.02	1.11	0.99	0.71	1.03	
	RRl	0.90	0.99	0.89	0.44	0.96	
	RRu	1.15	1.24	1.10	1.15	1.10	
	P	N.S.	(+)	N.S.	N.S.	N.S.	
Between	P					N.S.	
Population setting							
		general	school	medical	allergy	other	Total
	N	4	11	6			21
Het	P	N.S.	N.S.	N.S.			N.S.
Fixed	RR	0.85	1.11	0.82			1.03
	RRl	0.72	1.03	0.69			0.96
	RRu	1.01	1.20	0.98			1.10
	P	(-)	++	-			N.S.
Between	P						***
Respondent for smoking							
		child	parent	med rec	mix/oth	Total	
	N	3	11		7	21	
Het	P	N.S.	N.S.		N.S.	N.S.	
Fixed	RR	0.97	1.06		0.95	1.03	
	RRl	0.80	0.98		0.82	0.96	
	RRu	1.18	1.15		1.09	1.10	
	P	N.S.	N.S.		N.S.	N.S.	
Between	P					N.S.	
Child smokers							
		exc/none	included	ignored	Total		
	N	4	4	13	21		
Het	P	N.S.	N.S.	N.S.	N.S.		
Fixed	RR	1.07	1.15	0.95	1.03		
	RRl	0.93	1.02	0.87	0.96		
	RRu	1.22	1.30	1.04	1.10		
	P	N.S.	+	N.S.	N.S.		
Between	P				*		
Physician diagnosis (current)							
		yes	no/mix	Total			
	N	9	12	21			
Het	P	N.S.	N.S.	N.S.			
Fixed	RR	0.85	1.08	1.03			
	RRl	0.74	1.00	0.96			
	RRu	0.99	1.15	1.10			
	P	-	+	N.S.			
Between	P			**			
Respondent for diagnosis (current)							
		medrec	parent	child	mixed	Total	
	N	7	9	5		21	
Het	P	N.S.	N.S.	N.S.		N.S.	
Fixed	RR	0.84	1.07	1.03		1.03	
	RRl	0.71	0.99	0.88		0.96	
	RRu	0.99	1.16	1.21		1.10	
	P	-	(+)	N.S.		N.S.	
Between	P					*	

Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Current Asthma
Adjusted

		<u>Questionnaire for symptoms</u>			
		ISAAC	ATS	other	Total
	N	4	1	16	21
Het	P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.10	1.41	0.95	1.03
	RRl	1.01	0.80	0.86	0.96
	RRu	1.21	2.48	1.04	1.10
	P	+	N.S.	N.S.	N.S.
Between	P				*

		<u>Number of cases (current asthma)</u>					
		1-50	51-100	101-200	201+	unknown	Total
	N	2	6	3	10		21
Het	P	N.S.	N.S.	(*)	N.S.		N.S.
Fixed	RR	1.11	0.84	1.06	1.05		1.03
	RRl	0.70	0.68	0.81	0.98		0.96
	RRu	1.74	1.04	1.40	1.13		1.10
	P	N.S.	N.S.	N.S.	N.S.		N.S.
Between	P						N.S.

		<u>Study adjusts for or is matched on sex</u>		
		Yes	No	Total
	N	17	4	21
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.01	1.12	1.03
	RRl	0.95	0.95	0.96
	RRu	1.09	1.33	1.10
	P	N.S.	N.S.	N.S.
Between	P			N.S.

		<u>Study adjusts for or is matched on age</u>		
	N	14	7	21
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.00	1.12	1.03
	RRl	0.92	0.99	0.96
	RRu	1.07	1.27	1.10
	P	N.S.	(+)	N.S.
Between	P			N.S.

		<u>Study adjusts for or is matched on race</u>		
	N	4	17	21
Het	P	(*)	N.S.	N.S.
Fixed	RR	0.99	1.04	1.03
	RRl	0.87	0.97	0.96
	RRu	1.14	1.12	1.10
	P	N.S.	N.S.	N.S.
Between	P			N.S.

		<u>Study adjusts for or is matched on location</u>		
	N	11	10	21
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.02	1.07	1.03
	RRl	0.94	0.94	0.96
	RRu	1.09	1.22	1.10
	P	N.S.	N.S.	N.S.
Between	P			N.S.

		<u>Study adjusts for or is matched on SES</u>		
	N	9	12	21
Het	P	(*)	N.S.	N.S.
Fixed	RR	1.04	0.99	1.03
	RRl	0.97	0.88	0.96
	RRu	1.13	1.12	1.10
	P	N.S.	N.S.	N.S.
Between	P			N.S.

		<u>Study adjusts for family medical history</u>		
	N	8	13	21
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.06	0.98	1.03
	RRl	0.98	0.89	0.96
	RRu	1.15	1.09	1.10
	P	N.S.	N.S.	N.S.
Between	P			N.S.

Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure
Current Asthma
Adjusted

<u>Study adjusts for family composition</u>				
		Yes	No	Total
	N	4	17	21
Het	P	N.S.	N.S.	N.S.
Fixed	RR	0.92	1.06	1.03
	RRl	0.81	0.99	0.96
	RRu	1.06	1.14	1.10
	P	N.S.	N.S.	N.S.
Between	P			(*)
<u>Study adjusts for cooking, heating, air conditioning</u>				
	N	5	16	21
Het	P	*	N.S.	N.S.
Fixed	RR	1.06	1.00	1.03
	RRl	0.96	0.91	0.96
	RRu	1.16	1.10	1.10
	P	N.S.	N.S.	N.S.
Between	P			N.S.
<u>Study adjusts for housing quality, crowding, damp, mould</u>				
	N	6	15	21
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.06	0.98	1.03
	RRl	0.98	0.89	0.96
	RRu	1.16	1.09	1.10
	P	N.S.	N.S.	N.S.
Between	P			N.S.
<u>Study adjusts for pets, animal contact, farming</u>				
	N	4	17	21
Het	P	N.S.	N.S.	N.S.
Fixed	RR	0.92	1.05	1.03
	RRl	0.79	0.98	0.96
	RRu	1.07	1.13	1.10
	P	N.S.	N.S.	N.S.
Between	P			N.S.
<u>Study adjusts for child's medical history</u>				
	N	5	16	21
Het	P	N.S.	N.S.	N.S.
Fixed	RR	0.85	1.06	1.03
	RRl	0.70	0.99	0.96
	RRu	1.02	1.13	1.10
	P	(-)	N.S.	N.S.
Between	P			*
<u>Study adjusts for in utero exposure</u>				
	N	4	17	21
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.13	0.96	1.03
	RRl	1.02	0.88	0.96
	RRu	1.25	1.05	1.10
	P	+	N.S.	N.S.
Between	P			*
<u>Study adjusts for in life exposure</u>				
	N	9	12	21
Het	P	(*)	N.S.	N.S.
Fixed	RR	1.03	1.03	1.03
	RRl	0.95	0.92	0.96
	RRu	1.11	1.16	1.10
	P	N.S.	N.S.	N.S.
Between	P			N.S.
<u>Exposed Overall : Who is smoker</u>				
		Father	FathOnly	Total
	N	20	1	21
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.03	1.10	1.03
	RRl	0.96	0.69	0.96
	RRu	1.10	1.76	1.10
	P	N.S.	N.S.	N.S.
Between	P			N.S.

Table A55 - 3

IESAST - Meta-analysis of Lifetime Paternal Exposure								
Current Asthma								
Adjusted								
Exposed Overall : when Exposed								
		lif/ev	age<7y	current	unspec	other	Total	
	N	5		6	9	1	21	
Het	P	N.S.		N.S.	N.S.	N.S.	N.S.	
Fixed	RR	1.07		0.96	0.97	1.40	1.03	
	RR1	0.98		0.85	0.84	0.97	0.96	
	RRu	1.18		1.09	1.12	2.03	1.10	
	P	N.S.		N.S.	N.S.	(+)	N.S.	
Between	P						N.S.	
Unexposed Overall : who is smoker								
		NoHhMemb	NoParent	NotSpPar	Total			
	N	4		17	21			
Het	P	N.S.		N.S.	N.S.			
Fixed	RR	0.87		1.04	1.03			
	RR1	0.67		0.97	0.96			
	RRu	1.13		1.11	1.10			
	P	N.S.		N.S.	N.S.			
Between	P				N.S.			
Unexposed Overall : time								
		non	never	non+othr	Total			
	N	17		4	21			
Het	P	N.S.		N.S.	N.S.			
Fixed	RR	0.97		1.11	1.03			
	RR1	0.89		1.01	0.96			
	RRu	1.06		1.23	1.10			
	P	N.S.		+	N.S.			
Between	P				*			
Number of adjustment variables								
		0	1	2	3-5	6-9	10+	Total
	N	9	2		3	4	3	21
Het	P	N.S.		N.S.	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.03		0.81	0.81	0.88	1.12	1.03
	RR1	0.91		0.53	0.62	0.74	1.02	0.96
	RRu	1.16		1.23	1.06	1.05	1.23	1.10
	P	N.S.		N.S.	N.S.	N.S.	+	N.S.
Between	P							*
RR adjusted for sex								
		Yes	No	Total				
	N	10	11	21				
Het	P	N.S.		N.S.				
Fixed	RR	1.04		1.01				
	RR1	0.96		0.90				
	RRu	1.12		1.13				
	P	N.S.		N.S.				
Between	P			N.S.				
RR adjusted for age								
		8	13	21				
	N	8	13	21				
Het	P	N.S.		N.S.				
Fixed	RR	1.04		1.02				
	RR1	0.95		0.92				
	RRu	1.13		1.13				
	P	N.S.		N.S.				
Between	P			N.S.				
RR adjusted for other ETS								
		6	15	21				
	N	6	15	21				
Het	P	N.S.		N.S.				
Fixed	RR	1.06		0.99				
	RR1	0.97		0.89				
	RRu	1.15		1.09				
	P	N.S.		N.S.				
Between	P			N.S.				

Table A55 - 3

<u>IESAST - Meta-analysis of Lifetime Paternal Exposure</u>						
<u>Current Asthma</u>						
<u>Adjusted</u>						
<u>RR adjusted for factor other than sex, age, other ETS</u>						
		<u>Yes</u>	<u>No</u>	<u>Total</u>		
	N	11	10	21		
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.03	1.02	1.03		
	RRl	0.96	0.91	0.96		
	RRu	1.11	1.15	1.10		
	P	N.S.	N.S.	N.S.		
Between	P			N.S.		
<u>Derivation of RR/CI</u>						
		<u>Original</u>	<u>Numbers</u>	<u>SumNumbs</u>	<u>Other</u>	<u>Total</u>
	N	7	7	2	5	21
Het	P	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed	RR	0.96	1.06	0.82	1.09	1.03
	RRl	0.85	0.91	0.65	0.99	0.96
	RRu	1.09	1.23	1.04	1.20	1.10
	P	N.S.	N.S.	N.S.	(+)	N.S.
Between	P					N.S.

Table A55 - 6

IESAST - Meta-analysis of Lifetime Paternal Exposure
 Current Asthma
 Unadjusted

		<u>Overall</u>									
	N	21									
	NS	21									
	Wt	1032.39									
	Het Chi	25.51									
	Het df	20									
	Het P	N.S.									
	Fixed RR	1.06									
	RRl	0.99									
	RRu	1.12									
	P	(+)									
	Random RR	1.03									
	RRl	0.95									
	RRu	1.11									
	P	N.S.									
	Asymm P	*									
<u>Sex</u>											
		both	male	female	Total						
	N	21		21							
	Het P	N.S.		N.S.							
	Fixed RR	1.06		1.06							
	RRl	0.99		0.99							
	RRu	1.12		1.12							
	P	(+)		(+)							
	Between P	N.S.		N.S.							
<u>Continent</u>											
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total			
	N	7	1	7	6			21			
	Het P	N.S.	N.S.	N.S.	N.S.			N.S.			
	Fixed RR	0.92	1.19	1.12	1.03			1.06			
	RRl	0.81	0.97	1.02	0.90			0.99			
	RRu	1.04	1.45	1.22	1.17			1.12			
	P	N.S.	(+)	+	N.S.			(+)			
	Between P	N.S.		N.S.				(*)			
<u>Start year of study</u>											
		<1970	1970-79	1980-89	1990+	unknown	Total				
	N		1	9	11		21				
	Het P		N.S.	(*)	N.S.		N.S.				
	Fixed RR		0.84	0.98	1.10		1.06				
	RRl		0.52	0.88	1.02		0.99				
	RRu		1.36	1.10	1.18		1.12				
	P		N.S.	N.S.	+		(+)				
	Between P		N.S.				N.S.				
<u>Study type</u>											
		CC	Pr	CS	Total						
	N	9	2	10	21						
	Het P	N.S.	N.S.	N.S.	N.S.						
	Fixed RR	1.06	1.29	1.03	1.06						
	RRl	0.98	0.92	0.94	0.99						
	RRu	1.16	1.80	1.13	1.12						
	P	N.S.	N.S.	N.S.	(+)						
	Between P	N.S.									

Table A65 -

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
Lifetime Asthma

This analysis is restricted to results for:

- 1) Lifetime asthma
- 2) Paternal or household exposure without maternal exposure
- 3) Exposure during child's lifetime (also including household member ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

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

- 6) WHOSMO : father only, household member (but not mother)
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : not specified household member, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) ONSET : yes, no (prevalence)
- 13) For overlapping studies: principal rather than subsidiary studies

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

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 Section -3 and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
Lifetime Asthma
Adjusted

		<u>Overall</u>							
	N	10							
	NS	9							
	Wt	254.27							
	Het Chi	9.86							
	Het df	9							
	Het P	N.S.							
	Fixed RR	1.14							
	RR1	1.01							
	RRu	1.29							
	P	+							
	Random RR	1.14							
	RR1	1.00							
	RRu	1.30							
	P	+							
	Asymm P	(*)							
<u>Sex</u>									
		both	male	female	Total				
	N	8	1	1	10				
	Het P	N.S.	N.S.	N.S.	N.S.				
	Fixed RR	1.14	1.10	1.19	1.14				
	RR1	0.99	0.76	0.83	1.01				
	RRu	1.31	1.60	1.72	1.29				
	P	(+)	N.S.	N.S.	+				
	Between P	N.S.							
<u>Continent</u>									
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total	
	N			5	4	1		10	
	Het P			N.S.	N.S.	N.S.		N.S.	
	Fixed RR			1.12	1.10	1.41		1.14	
	RR1			0.95	0.89	0.95		1.01	
	RRu			1.32	1.35	2.11		1.29	
	P			N.S.	N.S.	(+)		+	
	Between P	N.S.							
<u>Country in Europe</u>									
		UK	Italy	Germany	Scand	othWest	East/Bal	Total	
	N	2	1	1			1	5	
	Het P	N.S.	N.S.	N.S.		N.S.		N.S.	
	Fixed RR	1.50	0.86	1.07		1.20		1.12	
	RR1	1.04	0.61	0.79		0.87		0.95	
	RRu	2.16	1.21	1.45		1.65		1.32	
	P	+	N.S.	N.S.		N.S.		N.S.	
	Between P	N.S.							
<u>Country in Asia</u>									
		FarEast	Cent/SE	MidlEast	Total				
	N	3		1	4				
	Het P	N.S.		N.S.	N.S.				
	Fixed RR	1.17		0.91	1.10				
	RR1	0.92		0.59	0.89				
	RRu	1.48		1.39	1.35				
	P	N.S.		N.S.	N.S.				
	Between P	N.S.							
<u>Start year of study</u>									
		<1970	1970-79	1980-89	1990+	unknown	Total		
	N		1	5	3	1	10		
	Het P		N.S.	N.S.	N.S.	N.S.	N.S.		
	Fixed RR		1.41	1.05	1.17	1.25	1.14		
	RR1		0.95	0.88	0.95	0.81	1.01		
	RRu		2.11	1.26	1.43	1.92	1.29		
	P		(+)	N.S.	N.S.	N.S.	+		
	Between P	N.S.							
<u>Publication year</u>									
		<1990	1990-94	1995-99	2000+	Total			
	N	4	2	2	2	10			
	Het P	N.S.	N.S.	N.S.	N.S.	N.S.			
	Fixed RR	1.28	0.97	1.22	1.15	1.14			
	RR1	1.00	0.78	0.94	0.88	1.01			
	RRu	1.64	1.22	1.57	1.49	1.29			
	P	+	N.S.	N.S.	N.S.	+			
	Between P	N.S.							

Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure

		<u>Lifetime Asthma</u>					
		Adjusted					
		<u>Study type</u>					
		CC	Pr	CS	Total		
	N	1	1	8	10		
Het	P	N.S.	N.S.	N.S.	N.S.		
Fixed	RR	2.41	1.41	1.08	1.14		
	RRl	1.20	0.95	0.95	1.01		
	RRu	4.86	2.11	1.24	1.29		
	P	+	(+)	N.S.	+		
Between	P				*		
		<u>Highest age in RR</u>					
		0-9	10-14	15+	unknown	Total	
	N	3	5	2		10	
Het	P	N.S.	N.S.	N.S.		N.S.	
Fixed	RR	1.52	1.05	1.15		1.14	
	RRl	1.12	0.90	0.88		1.01	
	RRu	2.05	1.23	1.49		1.29	
	P	++	N.S.	N.S.		+	
Between	P					N.S.	
		<u>Population setting</u>					
		general	school	medical	allergy	other	Total
	N	1	4	3	2		10
Het	P	N.S.	N.S.	N.S.	N.S.		N.S.
Fixed	RR	1.28	1.02	1.46	1.15		1.14
	RRl	0.71	0.86	1.11	0.88		1.01
	RRu	2.30	1.21	1.91	1.49		1.29
	P	N.S.	N.S.	++	N.S.		+
Between	P						N.S.
		<u>Respondent for smoking</u>					
		child	parent	med rec	mix/oth	Total	
	N		8		2	10	
Het	P		N.S.		N.S.	N.S.	
Fixed	RR		1.14		1.15	1.14	
	RRl		0.99		0.88	1.01	
	RRu		1.31		1.49	1.29	
	P		(+)		N.S.	+	
Between	P					N.S.	
		<u>Child smokers</u>			Total		
		exc/none	included	ignored	Total		
	N	3		7	10		
Het	P	N.S.		N.S.	N.S.		
Fixed	RR	1.17		1.12	1.14		
	RRl	0.95		0.96	1.01		
	RRu	1.43		1.31	1.29		
	P	N.S.		N.S.	+		
Between	P				N.S.		
		<u>Physician diagnosis (lifetime)</u>			Total		
		yes	no/mixed	Total	Total		
	N	6	4	10			
Het	P	N.S.	N.S.	N.S.			
Fixed	RR	1.22	1.04	1.14			
	RRl	1.04	0.86	1.01			
	RRu	1.44	1.25	1.29			
	P	+	N.S.	+			
Between	P				N.S.		
		<u>Respondent for diagnosis (lifetime)</u>				Total	
		medrec	parent	child	mixed	Total	
	N	4	6			10	
Het	P	N.S.	N.S.			N.S.	
Fixed	RR	1.30	1.06			1.14	
	RRl	1.05	0.91			1.01	
	RRu	1.60	1.24			1.29	
	P	+	N.S.			+	
Between	P					N.S.	

Table A65 - 3

<u>IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure</u>						
<u>Lifetime Asthma</u>						
<u>Adjusted</u>						
<u>Questionnaire for symptoms</u>						
		<u>ISAAC</u>	<u>ATS</u>	<u>other</u>	<u>Total</u>	
	N	1	4	5	10	
Het	P	N.S.	N.S.	N.S.	N.S.	
Fixed	RR	1.20	1.01	1.27	1.14	
	RRl	0.87	0.84	1.05	1.01	
	RRu	1.65	1.21	1.54	1.29	
	P	N.S.	N.S.	+	+	
Between	P				N.S.	
<u>Analysis type</u>						
		<u>prevalence</u>	<u>onset</u>	<u>Total</u>		
	N	9	1	10		
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.11	1.41	1.14		
	RRl	0.98	0.95	1.01		
	RRu	1.27	2.11	1.29		
	P	N.S.	(+)	+		
Between	P			N.S.		
<u>Number of cases (lifetime asthma)</u>						
		<u>1-50</u>	<u>51-100</u>	<u>101-200</u>	<u>201+ unknown</u>	<u>Total</u>
	N		2	2	6	10
Het	P		N.S.	N.S.	N.S.	N.S.
Fixed	RR		1.66	1.15	1.10	1.14
	RRl		1.06	0.86	0.95	1.01
	RRu		2.61	1.54	1.26	1.29
	P		+	N.S.	N.S.	+
Between	P					N.S.
<u>Study adjusts for or is matched on sex</u>						
		<u>Yes</u>	<u>No</u>	<u>Total</u>		
	N	3	7	10		
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.11	1.15	1.14		
	RRl	0.91	0.99	1.01		
	RRu	1.36	1.35	1.29		
	P	N.S.	(+)	+		
Between	P			N.S.		
<u>Study adjusts for or is matched on age</u>						
		<u>2</u>	<u>8</u>	<u>10</u>		
	N			10		
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.03	1.18	1.14		
	RRl	0.81	1.03	1.01		
	RRu	1.30	1.37	1.29		
	P	N.S.	+	+		
Between	P			N.S.		
<u>Study adjusts for or is matched on race</u>						
		<u>10</u>	<u>10</u>			
	N		10			
Het	P	N.S.	N.S.			
Fixed	RR	1.14	1.14			
	RRl	1.01	1.01			
	RRu	1.29	1.29			
	P	+	+			
Between	P		N.S.			
<u>Study adjusts for or is matched on location</u>						
		<u>2</u>	<u>8</u>	<u>10</u>		
	N			10		
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.03	1.18	1.14		
	RRl	0.81	1.03	1.01		
	RRu	1.30	1.37	1.29		
	P	N.S.	+	+		
Between	P			N.S.		

Table A65 - 3

<u>IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure</u>				
<u>Lifetime Asthma</u>				
<u>Adjusted</u>				
<u>Study adjusts for or is matched on SES</u>				
		<u>Yes</u>	<u>No</u>	<u>Total</u>
	N	4	6	10
Het	P	*	N.S.	N.S.
Fixed	RR	1.18	1.11	1.14
	RR1	0.97	0.95	1.01
	RRu	1.43	1.30	1.29
	P	(+)	N.S.	+
Between	P			N.S.
<u>Study adjusts for family medical history</u>				
	N	2	8	10
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.28	1.10	1.14
	RR1	1.00	0.95	1.01
	RRu	1.64	1.26	1.29
	P	(+)	N.S.	+
Between	P			N.S.
<u>Study adjusts for family composition</u>				
	N	3	7	10
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.11	1.15	1.14
	RR1	0.91	0.99	1.01
	RRu	1.36	1.35	1.29
	P	N.S.	(+)	+
Between	P			N.S.
<u>Study adjusts for cooking, heating, air conditioning</u>				
	N	2	8	10
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.03	1.18	1.14
	RR1	0.81	1.03	1.01
	RRu	1.30	1.37	1.29
	P	N.S.	+	+
Between	P			N.S.
<u>Study adjusts for housing quality, crowding, damp, mould</u>				
	N	2	8	10
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.03	1.18	1.14
	RR1	0.81	1.03	1.01
	RRu	1.30	1.37	1.29
	P	N.S.	+	+
Between	P			N.S.
<u>Study adjusts for pets, animal contact, farming</u>				
	N	2	8	10
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.28	1.10	1.14
	RR1	1.00	0.95	1.01
	RRu	1.64	1.26	1.29
	P	(+)	N.S.	+
Between	P			N.S.
<u>Study adjusts for child's medical history</u>				
	N	3	7	10
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.20	1.11	1.14
	RR1	0.97	0.95	1.01
	RRu	1.48	1.29	1.29
	P	(+)	N.S.	+
Between	P			N.S.
<u>Study adjusts for in utero exposure</u>				
	N		10	10
Het	P		N.S.	N.S.
Fixed	RR		1.14	1.14
	RR1		1.01	1.01
	RRu		1.29	1.29
	P		+	+
Between	P			N.S.

Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure								
Lifetime Asthma								
Adjusted								
Study adjusts for in life exposure								
		Yes	No	Total				
	N	4	6	10				
Het	P	N.S.	N.S.	N.S.				
Fixed	RR	1.10	1.18	1.14				
	RRl	0.92	1.00	1.01				
	RRu	1.31	1.40	1.29				
	P	N.S.	(+)	+				
Between	P	N.S.						
Exposure source								
		FathOnly	HhNotMot	Total				
	N	6	4	10				
Het	P	N.S.	N.S.	N.S.				
Fixed	RR	1.11	1.20	1.14				
	RRl	0.96	0.96	1.01				
	RRu	1.29	1.50	1.29				
	P	N.S.	N.S.	+				
Between	P	N.S.						
Exposed Overall : when Exposed								
		lif/ev	age<7y	current	unspec	other	Total	
	N	2	1	4	3		10	
Het	P	N.S.	N.S.	N.S.	N.S.		N.S.	
Fixed	RR	1.37	2.41	1.11	1.03		1.14	
	RRl	0.98	1.20	0.93	0.84		1.01	
	RRu	1.90	4.86	1.34	1.26		1.29	
	P	(+)	+	N.S.	N.S.		+	
Between	P	(*)						
Unexposed Overall : who is smoker								
		NoHhMemb	NoParent	NotSpPar	Total			
	N	4	2	4	10			
Het	P	N.S.	N.S.	N.S.	N.S.			
Fixed	RR	1.20	1.15	1.10	1.14			
	RRl	0.96	0.88	0.92	1.01			
	RRu	1.50	1.49	1.31	1.29			
	P	N.S.	N.S.	N.S.	+			
Between	P	N.S.						
Unexposed Overall : time								
		non	never	non+othr	Total			
	N	8	2		10			
Het	P	N.S.	N.S.		N.S.			
Fixed	RR	1.14	1.15		1.14			
	RRl	0.99	0.88		1.01			
	RRu	1.31	1.49		1.29			
	P	(+)	N.S.		+			
Between	P	N.S.						
Number of adjustment variables								
		0	1	2	3-5	6-9	10+	Total
	N	6	2			1	1	10
Het	P	N.S.	N.S.			N.S.	N.S.	N.S.
Fixed	RR	1.14	1.50			0.86	1.20	1.14
	RRl	0.97	1.04			0.61	0.87	1.01
	RRu	1.33	2.16			1.21	1.65	1.29
	P	N.S.	+			N.S.	N.S.	+
Between	P	N.S.						
RR adjusted for sex								
		Yes	No	Total				
	N	2	8	10				
Het	P	N.S.	N.S.	N.S.				
Fixed	RR	1.03	1.18	1.14				
	RRl	0.81	1.03	1.01				
	RRu	1.30	1.37	1.29				
	P	N.S.	+	+				
Between	P	N.S.						

Table A65 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
Lifetime Asthma
Adjusted

		<u>RR adjusted for age</u>				
		Yes	No	Total		
	N	2	8	10		
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.03	1.18	1.14		
	RRl	0.81	1.03	1.01		
	RRu	1.30	1.37	1.29		
	P	N.S.	+	+		
Between	P			N.S.		
		<u>RR adjusted for other ETS</u>				
	N		10	10		
Het	P		N.S.	N.S.		
Fixed	RR		1.14	1.14		
	RRl		1.01	1.01		
	RRu		1.29	1.29		
	P		+	+		
Between	P			N.S.		
		<u>RR adjusted for factor other than sex, age, other ETS</u>				
	N	4	6	10		
Het	P	(*)	N.S.	N.S.		
Fixed	RR	1.15	1.14	1.14		
	RRl	0.94	0.97	1.01		
	RRu	1.39	1.33	1.29		
	P	N.S.	N.S.	+		
Between	P			N.S.		
		<u>Derivation of RR/CI</u>				
		Original	Numbers	SumNumbs	Other	Total
	N	1	2	6	1	10
Het	P	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.20	1.02	1.22	0.86	1.14
	RRl	0.87	0.72	1.04	0.61	1.01
	RRu	1.65	1.44	1.43	1.21	1.29
	P	N.S.	N.S.	+	N.S.	+
Between	P					N.S.

Table A65 - 6

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Lifetime Asthma
 Unadjusted

		<u>Overall</u>			
	N	10			
	NS	9			
	Wt	256.88			
	Het Chi	9.84			
	Het df	9			
	Het P	N.S.			
	Fixed RR	1.15			
	RRl	1.02			
	RRu	1.30			
	P	+			
Random	RR	1.15			
	RRl	1.01			
	RRu	1.31			
	P	+			
Asymm	P	(*)			

		<u>Sex</u>			
		both	male	female	Total
	N	8	1	1	10
	Het P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.15	1.10	1.19	1.15
	RRl	1.00	0.76	0.83	1.02
	RRu	1.32	1.60	1.72	1.30
	P	+	N.S.	N.S.	+
Between	P	N.S.			

		<u>Continent</u>					Total
		NAmer	SCAmer	Europe	Asia	Auslia	Africa
	N			5	4	1	10
	Het P			N.S.	N.S.	N.S.	N.S.
Fixed	RR			1.14	1.10	1.41	1.15
	RRl			0.97	0.89	0.95	1.02
	RRu			1.34	1.35	2.11	1.30
	P			N.S.	N.S.	(+)	+
Between	P						N.S.

		<u>Start year of study</u>					Total
		<1970	1970-79	1980-89	1990+	unknown	
	N		1	5	3	1	10
	Het P		N.S.	N.S.	N.S.	N.S.	N.S.
Fixed	RR		1.41	1.06	1.17	1.27	1.15
	RRl		0.95	0.89	0.95	0.85	1.02
	RRu		2.11	1.28	1.43	1.91	1.30
	P		(+)	N.S.	N.S.	N.S.	+
Between	P						N.S.

		<u>Study type</u>			Total
		CC	Pr	CS	
	N	1	1	8	10
	Het P	N.S.	N.S.	N.S.	N.S.
Fixed	RR	2.45	1.41	1.09	1.15
	RRl	1.23	0.95	0.96	1.02
	RRu	4.86	2.11	1.25	1.30
	P	+	(+)	N.S.	+
Between	P				*

Table A67 -

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
Current Asthma

This analysis is restricted to results for:

- 1) Current asthma
- 2) Paternal or household exposure without maternal exposure
- 3) Exposure during child's lifetime (also including household member ever smoker, but not specific in utero exposure or specific discontinued exposure)
- 4) Results not by amount of exposure
- 5) Results complete enough for use in metaanalysis

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

- 6) WHOSMO : father only, household member (but not mother)
- 7) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 8) UNEXSO : not specified household member, none in household
- 9) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 10) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 11) RACE : all in study or nearest available, otherwise by race
- 12) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age Overall
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 Section -3
and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A
for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Adjusted

		<u>Overall</u>								
	N	4								
	NS	4								
	Wt	198.56								
Het	Chi	3.33								
Het	df	3								
Het	P	N.S.								
Fixed	RR	1.11								
	RRl	0.97								
	RRu	1.28								
	P	N.S.								
Random	RR	1.11								
	RRl	0.95								
	RRu	1.30								
	P	N.S.								
Asymm	P	N.S.								
<u>Sex</u>										
		both	male	female	Total					
	N	4			4					
Het	P	N.S.			N.S.					
Fixed	RR	1.11			1.11					
	RRl	0.97			0.97					
	RRu	1.28			1.28					
	P	N.S.			N.S.					
Between	P	N.S.			N.S.					
<u>Continent</u>										
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total		
	N	1		3				4		
Het	P	N.S.		N.S.				N.S.		
Fixed	RR	1.10		1.11				1.11		
	RRl	0.69		0.96				0.97		
	RRu	1.76		1.29				1.28		
	P	N.S.		N.S.				N.S.		
Between	P	N.S.		N.S.				N.S.		
<u>Country in Europe</u>										
		UK	Italy	Germany	Scand	othWest	East/Bal	Total		
	N			2		1		3		
Het	P	N.S.		N.S.				N.S.		
Fixed	RR	1.13		0.56				1.11		
	RRl	0.98		0.19				0.96		
	RRu	1.31		1.59				1.29		
	P	N.S.		N.S.				N.S.		
Between	P	N.S.		N.S.				N.S.		
<u>Country in Asia</u>										
		FarEast	Cent/SE	MidlEast	Total					
	N				1					
Het	P				N.S.					
Fixed	RR				N.S.					
	RRl				N.S.					
	RRu				N.S.					
	P				N.S.					
Between	P				N.S.					
<u>Start year of study</u>										
		<1970	1970-79	1980-89	1990+	unknown	Total			
	N			1	3		4			
Het	P			N.S.	N.S.		N.S.			
Fixed	RR			0.56	1.13		1.11			
	RRl			0.19	0.98		0.97			
	RRu			1.59	1.30		1.28			
	P			N.S.	(+)		N.S.			
Between	P			N.S.	(+)		N.S.			
<u>Publication year</u>										
		<1990	1990-94	1995-99	2000+	Total				
	N			1	2		1			
Het	P			N.S.	N.S.		N.S.			
Fixed	RR			0.56	1.13		1.10			
	RRl			0.19	0.98		0.69			
	RRu			1.59	1.31		1.76			
	P			N.S.	N.S.		N.S.			
Between	P			N.S.	N.S.		N.S.			

Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure							
Current Asthma							
Adjusted							
<u>Study type</u>							
		CC	Pr	CS	Total		
	N	3		1	4		
Het	P	N.S.		N.S.	N.S.		
Fixed	RR	1.11		1.10	1.11		
	RR1	0.96		0.69	0.97		
	RRu	1.29		1.76	1.28		
	P	N.S.		N.S.	N.S.		
Between	P				N.S.		
<u>Highest age in RR</u>							
		0-9	10-14	15+	unknown	Total	
	N	1	1	2		4	
Het	P	N.S.	N.S.	N.S.		N.S.	
Fixed	RR	1.26	1.04	0.98		1.11	
	RR1	1.01	0.86	0.64		0.97	
	RRu	1.58	1.26	1.51		1.28	
	P	+	N.S.	N.S.		N.S.	
Between	P					N.S.	
<u>Population setting</u>							
		general	school	medical	allergy	other	Total
	N		3	1			4
Het	P		N.S.	N.S.			N.S.
Fixed	RR		1.13	0.56			1.11
	RR1		0.98	0.19			0.97
	RRu		1.30	1.59			1.28
	P		(+)	N.S.			N.S.
Between	P						N.S.
<u>Respondent for smoking</u>							
		child	parent	med rec	mix/oth	Total	
	N		3		1	4	
Het	P		N.S.		N.S.	N.S.	
Fixed	RR		1.11		1.10	1.11	
	RR1		0.96		0.69	0.97	
	RRu		1.29		1.76	1.28	
	P		N.S.		N.S.	N.S.	
Between	P					N.S.	
<u>Child smokers</u>							
		exc/none	included	ignored	Total		
	N	2	1	1	4		
Het	P	N.S.	N.S.	N.S.	N.S.		
Fixed	RR	1.23	1.04	0.56	1.11		
	RR1	1.00	0.86	0.19	0.97		
	RRu	1.50	1.26	1.59	1.28		
	P	+	N.S.	N.S.	N.S.		
Between	P				N.S.		
<u>Physician diagnosis (current)</u>							
		yes	no/mix	Total			
	N	1	3	4			
Het	P	N.S.	N.S.	N.S.			
Fixed	RR	0.56	1.13	1.11			
	RR1	0.19	0.98	0.97			
	RRu	1.59	1.30	1.28			
	P	N.S.	(+)	N.S.			
Between	P			N.S.			
<u>Respondent for diagnosis (current)</u>							
		medrec	parent	child	mixed	Total	
	N	1	3			4	
Het	P	N.S.	N.S.			N.S.	
Fixed	RR	0.56	1.13			1.11	
	RR1	0.19	0.98			0.97	
	RRu	1.59	1.30			1.28	
	P	N.S.	(+)			N.S.	
Between	P					N.S.	

Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure						
Current Asthma						
Adjusted						
Questionnaire for symptoms						
		ISAAC	ATS	other	Total	
	N	2		2	4	
Het	P	N.S.		N.S.	N.S.	
Fixed	RR	1.13		0.98	1.11	
	RR1	0.98		0.64	0.97	
	RRu	1.31		1.51	1.28	
	P	N.S.		N.S.	N.S.	
Between	P				N.S.	
Number of cases (current asthma)						
		1-50	51-100	101-200	201+ unknown	Total
	N	1			3	4
Het	P	N.S.			N.S.	N.S.
Fixed	RR	0.56			1.13	1.11
	RR1	0.19			0.98	0.97
	RRu	1.59			1.30	1.28
	P	N.S.			(+)	N.S.
Between	P					N.S.
Study adjusts for or is matched on sex						
		Yes	No	Total		
	N	3	1	4		
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.13	0.56	1.11		
	RR1	0.98	0.19	0.97		
	RRu	1.30	1.59	1.28		
	P	(+)	N.S.	N.S.		
Between	P			N.S.		
Study adjusts for or is matched on age						
		3	1	4		
	N	3	1	4		
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.13	0.56	1.11		
	RR1	0.98	0.19	0.97		
	RRu	1.30	1.59	1.28		
	P	(+)	N.S.	N.S.		
Between	P			N.S.		
Study adjusts for or is matched on race						
		1	3	4		
	N	1	3	4		
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.10	1.11	1.11		
	RR1	0.69	0.96	0.97		
	RRu	1.76	1.29	1.28		
	P	N.S.	N.S.	N.S.		
Between	P			N.S.		
Study adjusts for or is matched on location						
		3	1	4		
	N	3	1	4		
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.13	0.56	1.11		
	RR1	0.98	0.19	0.97		
	RRu	1.30	1.59	1.28		
	P	(+)	N.S.	N.S.		
Between	P			N.S.		
Study adjusts for or is matched on SES						
		2	2	4		
	N	2	2	4		
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.13	0.98	1.11		
	RR1	0.98	0.64	0.97		
	RRu	1.31	1.51	1.28		
	P	N.S.	N.S.	N.S.		
Between	P			N.S.		
Study adjusts for family medical history						
		3	1	4		
	N	3	1	4		
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.13	0.56	1.11		
	RR1	0.98	0.19	0.97		
	RRu	1.30	1.59	1.28		
	P	(+)	N.S.	N.S.		
Between	P			N.S.		

Table A67 - 3

<u>IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure</u>				
<u>Current Asthma</u>				
<u>Adjusted</u>				
<u>Study adjusts for family composition</u>				
		<u>Yes</u>	<u>No</u>	<u>Total</u>
	N		4	4
Het	P		N.S.	N.S.
Fixed	RR		1.11	1.11
	RR1		0.97	0.97
	RRu		1.28	1.28
	P		N.S.	N.S.
Between	P			N.S.
<u>Study adjusts for cooking, heating, air conditioning</u>				
	N	2	2	4
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.13	0.98	1.11
	RR1	0.98	0.64	0.97
	RRu	1.31	1.51	1.28
	P	N.S.	N.S.	N.S.
Between	P			N.S.
<u>Study adjusts for housing quality, crowding, damp, mould</u>				
	N	2	2	4
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.13	0.98	1.11
	RR1	0.98	0.64	0.97
	RRu	1.31	1.51	1.28
	P	N.S.	N.S.	N.S.
Between	P			N.S.
<u>Study adjusts for pets, animal contact, farming</u>				
	N		4	4
Het	P		N.S.	N.S.
Fixed	RR		1.11	1.11
	RR1		0.97	0.97
	RRu		1.28	1.28
	P		N.S.	N.S.
Between	P			N.S.
<u>Study adjusts for child's medical history</u>				
	N	1	3	4
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.10	1.11	1.11
	RR1	0.69	0.96	0.97
	RRu	1.76	1.29	1.28
	P	N.S.	N.S.	N.S.
Between	P			N.S.
<u>Study adjusts for in utero exposure</u>				
	N	3	1	4
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.13	0.56	1.11
	RR1	0.98	0.19	0.97
	RRu	1.30	1.59	1.28
	P	(+)	N.S.	N.S.
Between	P			N.S.
<u>Study adjusts for in life exposure</u>				
	N	4		4
Het	P	N.S.		N.S.
Fixed	RR	1.11		1.11
	RR1	0.97		0.97
	RRu	1.28		1.28
	P	N.S.		N.S.
Between	P			N.S.
<u>Exposure source</u>				
		<u>FathOnly</u>	<u>HhNotMot</u>	<u>Total</u>
	N	4		4
Het	P	N.S.		N.S.
Fixed	RR	1.11		1.11
	RR1	0.97		0.97
	RRu	1.28		1.28
	P	N.S.		N.S.
Between	P			N.S.

Table A67 - 3

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure								
Current Asthma								
Adjusted								
Exposed Overall : when Exposed								
		lif/ev	age<7y	current	unspec	other	Total	
	N			4			4	
Het	P			N.S.			N.S.	
Fixed	RR			1.11			1.11	
	RR1			0.97			0.97	
	RRu			1.28			1.28	
	P			N.S.			N.S.	
Between	P						N.S.	
Unexposed Overall : who is smoker								
		NoHhMemb	NoParent	NotSpPar	Total			
	N	1	2	1	4			
Het	P	N.S.	N.S.	N.S.	N.S.			
Fixed	RR	1.10	1.13	0.56	1.11			
	RR1	0.69	0.98	0.19	0.97			
	RRu	1.76	1.31	1.59	1.28			
	P	N.S.	N.S.	N.S.	N.S.			
Between	P				N.S.			
Unexposed Overall : time								
		non	never	non+othr	Total			
	N	2	2		4			
Het	P	N.S.	N.S.		N.S.			
Fixed	RR	0.98	1.13		1.11			
	RR1	0.64	0.98		0.97			
	RRu	1.51	1.31		1.28			
	P	N.S.	N.S.		N.S.			
Between	P				N.S.			
Number of adjustment variables								
		0	1	2	3-5	6-9	10+	Total
	N	1				1	2	4
Het	P	N.S.				N.S.	N.S.	N.S.
Fixed	RR	0.56				1.10	1.13	1.11
	RR1	0.19				0.69	0.98	0.97
	RRu	1.59				1.76	1.31	1.28
	P	N.S.				N.S.	N.S.	N.S.
Between	P							N.S.
RR adjusted for sex								
		Yes	No	Total				
	N	3	1	4				
Het	P	N.S.	N.S.	N.S.				
Fixed	RR	1.13	0.56	1.11				
	RR1	0.98	0.19	0.97				
	RRu	1.30	1.59	1.28				
	P	(+)	N.S.	N.S.				
Between	P			N.S.				
RR adjusted for age								
		3	1	Total				
	N	3	1	4				
Het	P	N.S.	N.S.	N.S.				
Fixed	RR	1.13	0.56	1.11				
	RR1	0.98	0.19	0.97				
	RRu	1.30	1.59	1.28				
	P	(+)	N.S.	N.S.				
Between	P			N.S.				
RR adjusted for other ETS								
		2	2	Total				
	N	2	2	4				
Het	P	N.S.	N.S.	N.S.				
Fixed	RR	1.13	0.98	1.11				
	RR1	0.98	0.64	0.97				
	RRu	1.31	1.51	1.28				
	P	N.S.	N.S.	N.S.				
Between	P			N.S.				

Table A67 - 3

<u>IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure</u>						
<u>Current Asthma</u>						
<u>Adjusted</u>						
<u>RR adjusted for factor other than sex, age, other ETS</u>						
		<u>Yes</u>	<u>No</u>	<u>Total</u>		
	N	3	1	4		
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.13	0.56	1.11		
	RRl	0.98	0.19	0.97		
	RRu	1.30	1.59	1.28		
	P	(+)	N.S.	N.S.		
Between	P			N.S.		
<u>Derivation of RR/CI</u>						
		<u>Original</u>	<u>Numbers</u>	<u>SumNumbs</u>	<u>Other</u>	<u>Total</u>
	N	3		1		4
Het	P	N.S.		N.S.		N.S.
Fixed	RR	1.13		0.56		1.11
	RRl	0.98		0.19		0.97
	RRu	1.30		1.59		1.28
	P	(+)		N.S.		N.S.
Between	P					N.S.

Table A67 - 6

IESAST - Meta-analysis of Lifetime Exposure but without Maternal Exposure
 Current Asthma
 Unadjusted

		<u>Overall</u>							
	N	4							
	NS	4							
	Wt	208.23							
	Het Chi	2.64							
	Het df	3							
	Het P	N.S.							
Fixed	RR	1.15							
	RRl	1.01							
	RRu	1.32							
	P	+							
Random	RR	1.15							
	RRl	1.01							
	RRu	1.32							
	P	+							
Asymm	P	N.S.							
<u>Sex</u>									
		both	male	female	Total				
	N	4			4				
	Het P	N.S.			N.S.				
Fixed	RR	1.15			1.15				
	RRl	1.01			1.01				
	RRu	1.32			1.32				
	P	+			+				
Between	P				N.S.				
<u>Continent</u>									
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total	
	N	1		3				4	
	Het P	N.S.		N.S.				N.S.	
Fixed	RR	1.10		1.16				1.15	
	RRl	0.69		1.00				1.01	
	RRu	1.76		1.33				1.32	
	P	N.S.		+				+	
Between	P							N.S.	
<u>Start year of study</u>									
		<1970	1970-79	1980-89	1990+	unknown	Total		
	N			1	3		4		
	Het P			N.S.	N.S.		N.S.		
Fixed	RR			0.56	1.17		1.15		
	RRl			0.19	1.02		1.01		
	RRu			1.59	1.34		1.32		
	P			N.S.	+		+		
Between	P						N.S.		
<u>Study type</u>									
		CC	Pr	CS	Total				
	N	3		1	4				
	Het P	N.S.		N.S.	N.S.				
Fixed	RR	1.16		1.10	1.15				
	RRl	1.00		0.69	1.01				
	RRu	1.33		1.76	1.32				
	P	+		N.S.	+				
Between	P				N.S.				

Table A69 -

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma

This analysis is restricted to results for:

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

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

- 6) EXPOS : household, parent
 - 7) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
 - 8) WHESMO : during child's lifetime but not current, ex (i.e. during smoker's lifetime)
 - 9) UNEXSO : not specific parent, neither parent, none in household, none
 - 10) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time (GILLIL: not in utero or since birth, KUHR: not since birth)
 - 11) UNEXHI : not exposed defined as smoked none, or smoked none+low
 - 12) RACE : all in study or nearest available, otherwise by race
 - 13) ONSET : yes, no (prevalence)
 - 14) For overlapping studies: principal rather than subsidiary studies
- Finally by Age: whole study if available, otherwise by widest available age Overall
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 Section -3
and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A
for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Adjusted

		<u>Overall</u>			
N		7			
NS		6			
Wt		600.61			
Het Chi		3.61			
Het df		6			
Het P		N.S.			
Fixed RR		1.20			
RRl		1.11			
RRu		1.30			
P		+++			
Random RR		1.20			
RRl		1.11			
RRu		1.30			
P		+++			
Asymm P		N.S.			

		<u>Sex</u>			
		both	male	female	Total
N		5	1	1	7
Het P		N.S.	N.S.	N.S.	N.S.
Fixed RR		1.22	0.93	1.06	1.20
RRl		1.13	0.64	0.71	1.11
RRu		1.33	1.35	1.58	1.30
P		+++	N.S.	N.S.	+++
Between P					N.S.

		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
N		4		3				7
Het P		N.S.		N.S.				N.S.
Fixed RR		1.09		1.22				1.20
RRl		0.87		1.12				1.11
RRu		1.37		1.33				1.30
P		N.S.		+++				+++
Between P								N.S.

		<u>Country in Europe</u>						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
N		1		1			1	3
Het P		N.S.		N.S.			N.S.	N.S.
Fixed RR		1.22		1.61			0.97	1.22
RRl		1.12		0.64			0.49	1.12
RRu		1.33		4.06			1.92	1.33
P		+++		N.S.			N.S.	+++
Between P								N.S.

		<u>Country in Asia</u>			
		FarEast	Cent/SE	MidlEast	Total
N					
Het P					
Fixed RR					
RRl					
RRu					
P					
Between P					N.S.

		<u>Start year of study</u>					
		<1970	1970-79	1980-89	1990+	unknown	Total
N				2	3	2	7
Het P				N.S.	N.S.	N.S.	N.S.
Fixed RR				1.34	1.07	1.22	1.20
RRl				0.81	0.83	1.12	1.11
RRu				2.21	1.37	1.32	1.30
P				N.S.	N.S.	+++	+++
Between P							N.S.

		<u>Publication year</u>				
		<1990	1990-94	1995-99	2000+	Total
N			3	1	3	7
Het P			N.S.	N.S.	N.S.	N.S.
Fixed RR			1.20	1.49	1.20	1.20
RRl			0.80	0.84	1.10	1.11
RRu			1.79	2.64	1.30	1.30
P			N.S.	N.S.	+++	+++
Between P						N.S.

Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent							
Lifetime Asthma							
Adjusted							
Study type							
		CC	Pr	CS	Total		
	N	2	1	4	7		
Het	P	N.S.	N.S.	N.S.	N.S.		
Fixed	RR	1.12	1.22	1.10	1.20		
	RRl	0.72	1.12	0.86	1.11		
	RRu	1.75	1.33	1.39	1.30		
	P	N.S.	+++	N.S.	+++		
Between	P				N.S.		
Highest age in RR							
		0-9	10-14	15+	unknown	Total	
	N		2	4	1	7	
Het	P		N.S.	N.S.	N.S.	N.S.	
Fixed	RR		1.22	1.10	1.24	1.20	
	RRl		1.12	0.86	0.69	1.11	
	RRu		1.32	1.39	2.25	1.30	
	P		+++	N.S.	N.S.	+++	
Between	P					N.S.	
Population setting							
		general	school	medical	allergy	other	Total
	N	2	3	2			7
Het	P	N.S.	N.S.	N.S.			N.S.
Fixed	RR	1.52	0.99	1.22			1.20
	RRl	0.94	0.77	1.12			1.11
	RRu	2.47	1.27	1.33			1.30
	P	(+)	N.S.	+++			+++
Between	P						N.S.
Respondent for smoking							
		child	parent	med rec	mix/oth	Total	
	N		3	1	3	7	
Het	P		N.S.	N.S.	N.S.	N.S.	
Fixed	RR		1.20	1.22	1.07	1.20	
	RRl		0.80	1.12	0.83	1.11	
	RRu		1.79	1.33	1.37	1.30	
	P		N.S.	+++	N.S.	+++	
Between	P					N.S.	
Child smokers							
		exc/none	included	ignored	Total		
	N	3	1	3	7		
Het	P	N.S.	N.S.	N.S.	N.S.		
Fixed	RR	1.03	1.49	1.22	1.20		
	RRl	0.79	0.84	1.12	1.11		
	RRu	1.34	2.64	1.32	1.30		
	P	N.S.	N.S.	+++	+++		
Between	P				N.S.		
Physician diagnosis (lifetime)							
		yes	no/mixed	Total			
	N	6	1	7			
Het	P	N.S.	N.S.	N.S.			
Fixed	RR	1.21	0.97	1.20			
	RRl	1.11	0.49	1.11			
	RRu	1.31	1.92	1.30			
	P	+++	N.S.	+++			
Between	P			N.S.			
Respondent for diagnosis (lifetime)							
		medrec	parent	child	mixed	Total	
	N	2	4		1	7	
Het	P	N.S.	N.S.		N.S.	N.S.	
Fixed	RR	1.22	1.10		0.97	1.20	
	RRl	1.12	0.86		0.49	1.11	
	RRu	1.33	1.39		1.92	1.30	
	P	+++	N.S.		N.S.	+++	
Between	P					N.S.	

Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent						
Lifetime Asthma						
Adjusted						
Questionnaire for symptoms						
		ISAAC	ATS	other	Total	
	N			7	7	
Het	P			N.S.	N.S.	
Fixed	RR			1.20	1.20	
	RR1			1.11	1.11	
	RRu			1.30	1.30	
	P			+++	+++	
Between	P				N.S.	
Analysis type						
		prevlnce	onset	Total		
	N	6	1	7		
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.10	1.22	1.20		
	RR1	0.89	1.12	1.11		
	RRu	1.36	1.33	1.30		
	P	N.S.	+++	+++		
Between	P			N.S.		
Number of cases (lifetime asthma)						
		1-50	51-100	101-200	201+ unknown	Total
	N	1	1	2	3	7
Het	P	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.61	1.49	1.12	1.20	1.20
	RR1	0.64	0.84	0.72	1.10	1.11
	RRu	4.06	2.64	1.75	1.30	1.30
	P	N.S.	N.S.	N.S.	+++	+++
Between	P					N.S.
Study adjusts for or is matched on sex						
		Yes	No	Total		
	N	4	3	7		
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.10	1.22	1.20		
	RR1	0.86	1.12	1.11		
	RRu	1.39	1.32	1.30		
	P	N.S.	+++	+++		
Between	P			N.S.		
Study adjusts for or is matched on age						
		3	4	7		
	N					
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.07	1.22	1.20		
	RR1	0.83	1.12	1.11		
	RRu	1.37	1.33	1.30		
	P	N.S.	+++	+++		
Between	P			N.S.		
Study adjusts for or is matched on race						
		2	5	7		
	N					
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	0.99	1.22	1.20		
	RR1	0.75	1.13	1.11		
	RRu	1.30	1.33	1.30		
	P	N.S.	+++	+++		
Between	P			N.S.		
Study adjusts for or is matched on location						
		3	4	7		
	N					
Het	P	N.S.	N.S.	N.S.		
Fixed	RR	1.03	1.22	1.20		
	RR1	0.79	1.12	1.11		
	RRu	1.34	1.33	1.30		
	P	N.S.	+++	+++		
Between	P			N.S.		

Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent				
Lifetime Asthma				
Adjusted				
<u>Study adjusts for or is matched on SES</u>				
		Yes	No	Total
	N	1	6	7
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.24	1.20	1.20
	RRl	0.69	1.11	1.11
	RRu	2.25	1.30	1.30
	P	N.S.	+++	+++
Between	P			N.S.
<u>Study adjusts for family medical history</u>				
	N	3	4	7
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.07	1.22	1.20
	RRl	0.83	1.12	1.11
	RRu	1.37	1.33	1.30
	P	N.S.	+++	+++
Between	P			N.S.
<u>Study adjusts for family composition</u>				
	N	1	6	7
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.49	1.20	1.20
	RRl	0.84	1.10	1.11
	RRu	2.64	1.30	1.30
	P	N.S.	+++	+++
Between	P			N.S.
<u>Study adjusts for cooking, heating, air conditioning</u>				
	N	1	6	7
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.61	1.20	1.20
	RRl	0.64	1.11	1.11
	RRu	4.06	1.30	1.30
	P	N.S.	+++	+++
Between	P			N.S.
<u>Study adjusts for housing quality, crowding, damp, mould</u>				
	N	2	5	7
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.52	1.19	1.20
	RRl	0.94	1.10	1.11
	RRu	2.47	1.29	1.30
	P	(+)	+++	+++
Between	P			N.S.
<u>Study adjusts for pets, animal contact, farming</u>				
	N		7	7
Het	P		N.S.	N.S.
Fixed	RR		1.20	1.20
	RRl		1.11	1.11
	RRu		1.30	1.30
	P		+++	+++
Between	P			N.S.
<u>Study adjusts for child's medical history</u>				
	N	4	3	7
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.10	1.22	1.20
	RRl	0.86	1.12	1.11
	RRu	1.39	1.32	1.30
	P	N.S.	+++	+++
Between	P			N.S.
<u>Study adjusts for in utero exposure</u>				
	N	2	5	7
Het	P	N.S.	N.S.	N.S.
Fixed	RR	0.99	1.22	1.20
	RRl	0.75	1.13	1.11
	RRu	1.30	1.33	1.30
	P	N.S.	+++	+++
Between	P			N.S.

Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
 Adjusted

		<u>Study adjusts for in life exposure</u>						
		Yes	No	Total				
	N	2	5	7				
Het	P	N.S.	N.S.	N.S.				
Fixed	RR	0.99	1.22	1.20				
	RRl	0.75	1.13	1.11				
	RRu	1.30	1.33	1.30				
	P	N.S.	+++	+++				
Between	P				N.S.			
 <u>Exposed Overall : Who is smoker</u>								
		AnyHh	AnyPar	Mother	Father	Total		
	N	2	3	2		7		
Het	P	N.S.	N.S.	N.S.		N.S.		
Fixed	RR	0.99	1.20	1.22		1.20		
	RRl	0.75	0.80	1.12		1.11		
	RRu	1.30	1.79	1.33		1.30		
	P	N.S.	N.S.	+++		+++		
Between	P					N.S.		
 <u>Exposed Overall : when Exposed</u>								
		Ex	LifeNotC	Total				
	N	4	3	7				
Het	P	N.S.	N.S.	N.S.				
Fixed	RR	1.22	1.03	1.20				
	RRl	1.12	0.79	1.11				
	RRu	1.33	1.34	1.30				
	P	+++	N.S.	+++				
Between	P				N.S.			
 <u>Unexposed Overall : who is smoker</u>								
		NoHhMemb	NoParent	NotSpPar	Total			
	N	2	2	3		7		
Het	P	N.S.	N.S.	N.S.		N.S.		
Fixed	RR	0.99	1.16	1.23		1.20		
	RRl	0.75	0.67	1.13		1.11		
	RRu	1.30	2.01	1.33		1.30		
	P	N.S.	N.S.	+++		+++		
Between	P					N.S.		
 <u>Unexposed Overall : time</u>								
		non	never	non+othr	NA	Total		
	N		4	3		7		
Het	P		N.S.	N.S.		N.S.		
Fixed	RR		1.22	1.03		1.20		
	RRl		1.12	0.79		1.11		
	RRu		1.33	1.34		1.30		
	P		+++	N.S.		+++		
Between	P					N.S.		
 <u>Number of adjustment variables</u>								
		0	1	2	3-5	6-9	10+	Total
	N	5				2		7
Het	P	N.S.				N.S.		N.S.
Fixed	RR	1.19				1.52		1.20
	RRl	1.10				0.94		1.11
	RRu	1.29				2.47		1.30
	P	+++				(+)		+++
Between	P							N.S.
 <u>RR adjusted for sex</u>								
		Yes	No	Total				
	N	2	5	7				
Het	P	N.S.	N.S.	N.S.				
Fixed	RR	1.52	1.19	1.20				
	RRl	0.94	1.10	1.11				
	RRu	2.47	1.29	1.30				
	P	(+)	+++	+++				
Between	P				N.S.			

Table A69 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Adjusted

		<u>RR adjusted for age</u>		
		Yes	No	Total
	N	1	6	7
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.49	1.20	1.20
	RRl	0.84	1.10	1.11
	RRu	2.64	1.30	1.30
	P	N.S.	+++	+++
Between	P			N.S.

		<u>RR adjusted for other ETS</u>		
	N		7	7
Het	P		N.S.	N.S.
Fixed	RR		1.20	1.20
	RRl		1.11	1.11
	RRu		1.30	1.30
	P		+++	+++
Between	P			N.S.

		<u>RR adjusted for factor other than sex, age, other ETS</u>		
	N	2	5	7
Het	P	N.S.	N.S.	N.S.
Fixed	RR	1.52	1.19	1.20
	RRl	0.94	1.10	1.11
	RRu	2.47	1.29	1.30
	P	(+)	+++	+++
Between	P			N.S.

		<u>Derivation of RR/CI</u>				
		Original	Numbers	SumNumbs	Other	Total
	N	1	3	1	2	7
Het	P	N.S.	N.S.	N.S.	N.S.	N.S.
Fixed	RR	1.22	1.03	0.97	1.52	1.20
	RRl	1.12	0.80	0.49	0.94	1.11
	RRu	1.33	1.32	1.92	2.47	1.30
	P	+++	N.S.	N.S.	(+)	+++
Between	P					N.S.

Table A69 - 6

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Lifetime Asthma
Unadjusted

		<u>Overall</u>						
	N	7						
	NS	6						
	Wt	604.09						
	Het Chi	3.28						
	Het df	6						
	Het P	N.S.						
	Fixed RR	1.20						
	RR1	1.11						
	RRu	1.30						
	P	+++						
	Random RR	1.20						
	RR1	1.11						
	RRu	1.30						
	P	+++						
	Asymm P	N.S.						
 <u>Sex</u>								
		both	male	female	Total			
	N	5	1	1	7			
	Het P	N.S.						
	Fixed RR	1.22	0.93	1.06	1.20			
	RR1	1.12	0.64	0.71	1.11			
	RRu	1.33	1.35	1.58	1.30			
	P	+++						
	Between P	N.S.						
 <u>Continent</u>								
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	4		3				7
	Het P	N.S.						
	Fixed RR	1.09		1.22				1.20
	RR1	0.87		1.12				1.11
	RRu	1.36		1.33				1.30
	P	+++						
	Between P	N.S.						
 <u>Start year of study</u>								
		<1970	1970-79	1980-89	1990+	unknown		Total
	N			2	3	2		7
	Het P	N.S.						
	Fixed RR			1.33	1.07	1.22		1.20
	RR1			0.81	0.84	1.12		1.11
	RRu			2.19	1.36	1.32		1.30
	P	+++						
	Between P	N.S.						
 <u>Study type</u>								
		CC	Pr	CS				Total
	N	2	1	4				7
	Het P	N.S.						
	Fixed RR	1.12	1.22	1.09				1.20
	RR1	0.72	1.12	0.87				1.11
	RRu	1.75	1.33	1.38				1.30
	P	+++						
	Between P	N.S.						

Table A70 -

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma

This analysis is restricted to results for:

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

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

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

Finally by Age: whole study if available, otherwise by widest available age Overall
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 Section -3
and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix A
for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma
Adjusted

		<u>Overall</u>								
	N	8								
	NS	8								
	Wt	482.67								
	Het Chi	12.76								
	Het df	7								
	Het P	(*)								
	Fixed RR	1.02								
	RR1	0.94								
	RRu	1.12								
	P	N.S.								
Random	RR	1.01								
	RR1	0.88								
	RRu	1.15								
	P	N.S.								
Asymm	P	N.S.								
<u>Sex</u>										
		both	male	female	Total					
	N	8			8					
	Het P	(*)			(*)					
Fixed	RR	1.02			1.02					
	RR1	0.94			0.94					
	RRu	1.12			1.12					
	P	N.S.			N.S.					
Between	P				N.S.					
<u>Continent</u>										
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total		
	N	4		4				8		
	Het P	N.S.		*				(*)		
Fixed	RR	0.97		1.06				1.02		
	RR1	0.84		0.94				0.94		
	RRu	1.12		1.18				1.12		
	P	N.S.		N.S.				N.S.		
Between	P							N.S.		
<u>Country in Europe</u>										
		UK	Italy	Germany	Scand	othWest	East/Bal	Total		
	N		2		2			4		
	Het P		*		N.S.			*		
Fixed	RR		1.10		0.81			1.06		
	RR1		0.98		0.60			0.94		
	RRu		1.25		1.10			1.18		
	P		N.S.		N.S.			N.S.		
Between	P							(*)		
<u>Country in Asia</u>										
		FarEast	Cent/SE	MidlEast	Total					
	N									
	Het P				N.S.					
Fixed	RR									
	RR1									
	RRu									
	P				N.S.					
Between	P				N.S.					
<u>Start year of study</u>										
		<1970	1970-79	1980-89	1990+	unknown	Total			
	N		1	1	6		8			
	Het P		N.S.	N.S.	(*)		(*)			
Fixed	RR		0.87	0.93	1.08		1.02			
	RR1		0.68	0.74	0.97		0.94			
	RRu		1.12	1.17	1.19		1.12			
	P		N.S.	N.S.	N.S.		N.S.			
Between	P						N.S.			
<u>Publication year</u>										
		<1990	1990-94	1995-99	2000+	Total				
	N		1	4	3	8				
	Het P		N.S.	N.S.	N.S.	(*)				
Fixed	RR		0.87	1.07	0.98	1.02				
	RR1		0.68	0.96	0.79	0.94				
	RRu		1.12	1.19	1.21	1.12				
	P		N.S.	N.S.	N.S.	N.S.				
Between	P					N.S.				

Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent							
Current Asthma							
Adjusted							
Study type							
		CC	Pr	CS	Total		
	N	2	1	5	8		
Het	P	*	N.S.	N.S.	(*)		
Fixed	RR	1.10	0.87	0.97	1.02		
	RRl	0.98	0.68	0.83	0.94		
	RRu	1.25	1.12	1.13	1.12		
	P	N.S.	N.S.	N.S.	N.S.		
Between	P				N.S.		
Highest age in RR							
		0-9	10-14	15+	unknown	Total	
	N	1	3	4		8	
Het	P	N.S.	N.S.	N.S.		(*)	
Fixed	RR	1.27	0.94	1.00		1.02	
	RRl	1.06	0.84	0.81		0.94	
	RRu	1.52	1.06	1.22		1.12	
	P	++	N.S.	N.S.		N.S.	
Between	P					*	
Population setting							
		general	school	medical	allergy	other	Total
	N	3		5			8
Het	P	N.S.		(*)			(*)
Fixed	RR	0.88		1.04			1.02
	RRl	0.67		0.95			0.94
	RRu	1.14		1.15			1.12
	P	N.S.		N.S.			N.S.
Between	P						N.S.
Respondent for smoking							
		child	parent	med rec	mix/oth	Total	
	N			5	3	8	
Het	P		*		N.S.	(*)	
Fixed	RR		1.03		1.00	1.02	
	RRl		0.93		0.83	0.94	
	RRu		1.14		1.20	1.12	
	P		N.S.		N.S.	N.S.	
Between	P					N.S.	
Child smokers							
		exc/none	included	ignored	Total		
	N	2	3	3	8		
Het	P	N.S.	N.S.	N.S.	(*)		
Fixed	RR	1.25	0.95	0.89	1.02		
	RRl	1.07	0.83	0.74	0.94		
	RRu	1.47	1.09	1.06	1.12		
	P	++	N.S.	N.S.	N.S.		
Between	P				**		
Physician diagnosis (current)							
		yes	no/mix	Total			
	N	3	5	8			
Het	P	N.S.	(*)	(*)			
Fixed	RR	0.88	1.04	1.02			
	RRl	0.67	0.95	0.94			
	RRu	1.14	1.15	1.12			
	P	N.S.	N.S.	N.S.			
Between	P			N.S.			
Respondent for diagnosis (current)							
		medrec	parent	child	mixed	Total	
	N		6	2		8	
Het	P		N.S.	N.S.		(*)	
Fixed	RR		1.05	0.81		1.02	
	RRl		0.95	0.60		0.94	
	RRu		1.15	1.10		1.12	
	P		N.S.	N.S.		N.S.	
Between	P					N.S.	

Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent						
Current Asthma						
Adjusted						
Questionnaire for symptoms						
		ISAAC	ATS	other	Total	
	N	2	1	5	8	
Het	P	*	N.S.	N.S.	(*)	
Fixed	RR	1.10	0.87	0.97	1.02	
	RRl	0.98	0.68	0.83	0.94	
	RRu	1.25	1.12	1.13	1.12	
	P	N.S.	N.S.	N.S.	N.S.	
Between	P				N.S.	
Number of cases (current asthma)						
		1-50	51-100	101-200	201+ unknown	Total
	N		2	1	5	8
Het	P		N.S.	N.S.	(*)	(*)
Fixed	RR		1.05	0.70	1.04	1.02
	RRl		0.74	0.47	0.95	0.94
	RRu		1.51	1.04	1.15	1.12
	P		N.S.	(-)	N.S.	N.S.
Between	P					N.S.
Study adjusts for or is matched on sex						
		Yes	No	Total		
	N	8		8		
Het	P	(*)		(*)		
Fixed	RR	1.02		1.02		
	RRl	0.94		0.94		
	RRu	1.12		1.12		
	P	N.S.		N.S.		
Between	P			N.S.		
Study adjusts for or is matched on age						
		7	1	8		
	N					
Het	P	(*)	N.S.	(*)		
Fixed	RR	1.04	0.93	1.02		
	RRl	0.95	0.74	0.94		
	RRu	1.15	1.17	1.12		
	P	N.S.	N.S.	N.S.		
Between	P			N.S.		
Study adjusts for or is matched on race						
		3	5	8		
	N					
Het	P	N.S.	(*)	(*)		
Fixed	RR	0.96	1.06	1.02		
	RRl	0.83	0.95	0.94		
	RRu	1.11	1.19	1.12		
	P	N.S.	N.S.	N.S.		
Between	P			N.S.		
Study adjusts for or is matched on location						
		7	1	8		
	N					
Het	P	*	N.S.	(*)		
Fixed	RR	1.02	1.15	1.02		
	RRl	0.93	0.64	0.94		
	RRu	1.12	2.06	1.12		
	P	N.S.	N.S.	N.S.		
Between	P			N.S.		
Study adjusts for or is matched on SES						
		6	2	8		
	N					
Het	P	*	N.S.	(*)		
Fixed	RR	1.01	1.19	1.02		
	RRl	0.92	0.90	0.94		
	RRu	1.11	1.57	1.12		
	P	N.S.	N.S.	N.S.		
Between	P			N.S.		
Study adjusts for family medical history						
		6	2	8		
	N					
Het	P	N.S.	N.S.	(*)		
Fixed	RR	1.05	0.81	1.02		
	RRl	0.95	0.60	0.94		
	RRu	1.15	1.10	1.12		
	P	N.S.	N.S.	N.S.		
Between	P			N.S.		

Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent						
Current Asthma						
Adjusted						
<u>Study adjusts for family composition</u>						
		Yes	No	Total		
	N	4	4	8		
Het	P	N.S.	(*)	(*)		
Fixed	RR	0.87	1.08	1.02		
	RRl	0.73	0.97	0.94		
	RRu	1.05	1.19	1.12		
Between	P	N.S.	N.S.	N.S.		
	P			*		
<u>Study adjusts for cooking, heating, air conditioning</u>						
	N	4	4	8		
Het	P	*	N.S.	(*)		
Fixed	RR	1.03	1.00	1.02		
	RRl	0.93	0.81	0.94		
	RRu	1.14	1.22	1.12		
Between	P	N.S.	N.S.	N.S.		
	P			N.S.		
<u>Study adjusts for housing quality, crowding, damp, mould</u>						
	N	4	4	8		
Het	P	N.S.	N.S.	(*)		
Fixed	RR	1.07	0.93	1.02		
	RRl	0.96	0.79	0.94		
	RRu	1.19	1.09	1.12		
Between	P	N.S.	N.S.	N.S.		
	P			N.S.		
<u>Study adjusts for pets, animal contact, farming</u>						
	N		8	8		
Het	P		(*)	(*)		
Fixed	RR		1.02	1.02		
	RRl		0.94	0.94		
	RRu		1.12	1.12		
Between	P		N.S.	N.S.		
	P			N.S.		
<u>Study adjusts for child's medical history</u>						
	N	2	6	8		
Het	P	N.S.	*	(*)		
Fixed	RR	1.19	1.01	1.02		
	RRl	0.90	0.92	0.94		
	RRu	1.57	1.11	1.12		
Between	P	N.S.	N.S.	N.S.		
	P			N.S.		
<u>Study adjusts for in utero exposure</u>						
	N	4	4	8		
Het	P	(*)	N.S.	(*)		
Fixed	RR	1.08	0.87	1.02		
	RRl	0.97	0.73	0.94		
	RRu	1.19	1.05	1.12		
Between	P	N.S.	N.S.	N.S.		
	P			*		
<u>Study adjusts for in life exposure</u>						
	N	4	4	8		
Het	P	(*)	N.S.	(*)		
Fixed	RR	1.08	0.87	1.02		
	RRl	0.97	0.73	0.94		
	RRu	1.19	1.05	1.12		
Between	P	N.S.	N.S.	N.S.		
	P			*		
<u>Exposed Overall : Who is smoker</u>						
		AnyHh	AnyPar	Mother	Father	Total
	N	2		5	1	8
Het	P	N.S.		*	N.S.	(*)
Fixed	RR	1.01		1.03	1.00	1.02
	RRl	0.84		0.93	0.63	0.94
	RRu	1.22		1.14	1.58	1.12
Between	P	N.S.		N.S.	N.S.	N.S.
	P					N.S.

Table A70 - 3

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma
Adjusted

		<u>Exposed Overall : when Exposed</u>						
		Ex	LifeNotC	Total				
	N	6	2	8				
Het	P	*	N.S.	(*)				
Fixed	RR	1.03	1.01	1.02				
	RR1	0.93	0.84	0.94				
	RRu	1.14	1.22	1.12				
	P	N.S.	N.S.	N.S.				
Between	P			N.S.				
		<u>Unexposed Overall : who is smoker</u>						
		NoHhMemb	NoParent	NotSpPar	Total			
	N	2		6	8			
Het	P	N.S.		*	(*)			
Fixed	RR	1.01		1.03	1.02			
	RR1	0.84		0.93	0.94			
	RRu	1.22		1.14	1.12			
	P	N.S.		N.S.	N.S.			
Between	P			N.S.	N.S.			
		<u>Unexposed Overall : time</u>						
		non	never	non+othr	NA	Total		
	N		6	2		8		
Het	P		*	N.S.		(*)		
Fixed	RR		1.03	1.01		1.02		
	RR1		0.93	0.84		0.94		
	RRu		1.14	1.22		1.12		
	P		N.S.	N.S.		N.S.		
Between	P					N.S.		
		<u>Number of adjustment variables</u>						
		0	1	2	3-5	6-9	10+	Total
	N		1			3	4	8
Het	P		N.S.			N.S.	*	(*)
Fixed	RR		1.15			0.98	1.03	1.02
	RR1		0.64			0.79	0.93	0.94
	RRu		2.06			1.21	1.14	1.12
	P		N.S.			N.S.	N.S.	N.S.
Between	P							N.S.
		<u>RR adjusted for sex</u>						
		Yes	No	Total				
	N	7	1	8				
Het	P	*	N.S.	(*)				
Fixed	RR	1.02	1.15	1.02				
	RR1	0.93	0.64	0.94				
	RRu	1.12	2.06	1.12				
	P	N.S.	N.S.	N.S.				
Between	P			N.S.				
		<u>RR adjusted for age</u>						
				Total				
	N	6	2	8				
Het	P	*	N.S.	(*)				
Fixed	RR	1.04	0.96	1.02				
	RR1	0.94	0.77	0.94				
	RRu	1.15	1.18	1.12				
	P	N.S.	N.S.	N.S.				
Between	P			N.S.				
		<u>RR adjusted for other ETS</u>						
				Total				
	N	3	5	8				
Het	P	(*)	N.S.	(*)				
Fixed	RR	1.06	0.94	1.02				
	RR1	0.95	0.81	0.94				
	RRu	1.18	1.11	1.12				
	P	N.S.	N.S.	N.S.				
Between	P			N.S.				

Table A70 - 3

<u>IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent</u>					
<u>Current Asthma</u>					
<u>Adjusted</u>					
<u>RR adjusted for factor other than sex, age, other ETS</u>					
		<u>Yes</u>	<u>No</u>	<u>Total</u>	
	N	8		8	
Het	P	(*)		(*)	
Fixed	RR	1.02		1.02	
	RR1	0.94		0.94	
	RRu	1.12		1.12	
	P	N.S.		N.S.	
Between	P			N.S.	
<u>Derivation of RR/CI</u>					
	<u>Original</u>	<u>Numbers</u>	<u>SumNumbs</u>	<u>Other</u>	<u>Total</u>
	N	6	1	1	8
Het	P	*	N.S.	N.S.	(*)
Fixed	RR	1.04	1.15	0.93	1.02
	RR1	0.94	0.64	0.74	0.94
	RRu	1.15	2.06	1.17	1.12
	P	N.S.	N.S.	N.S.	N.S.
Between	P				N.S.

Table A70 - 6

IESAST - Meta-analysis of Lifetime but Discontinued Exposure, Household or Parent
Current Asthma
Unadjusted

		<u>Overall</u>							
	N	8							
	NS	8							
	Wt	519.03							
	Het Chi	11.09							
	Het df	7							
	Het P	N.S.							
	Fixed RR	1.07							
	RRl	0.99							
	RRu	1.17							
	P	N.S.							
	Random RR	1.06							
	RRl	0.94							
	RRu	1.19							
	P	N.S.							
	Asymm P	N.S.							
<u>Sex</u>									
		both	male	female	Total				
	N	8			8				
	Het P	N.S.			N.S.				
	Fixed RR	1.07			1.07				
	RRl	0.99			0.99				
	RRu	1.17			1.17				
	P	N.S.			N.S.				
	Between P				N.S.				
<u>Continent</u>									
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total	
	N	4		4				8	
	Het P	N.S.		N.S.				N.S.	
	Fixed RR	0.97		1.16				1.07	
	RRl	0.85		1.03				0.99	
	RRu	1.11		1.29				1.17	
	P	N.S.		+				N.S.	
	Between P							*	
<u>Start year of study</u>									
		<1970	1970-79	1980-89	1990+	unknown	Total		
	N		1	1	6		8		
	Het P		N.S.	N.S.	N.S.		N.S.		
	Fixed RR		0.87	0.97	1.14		1.07		
	RRl		0.68	0.78	1.03		0.99		
	RRu		1.12	1.21	1.26		1.17		
	P		N.S.	N.S.	+		N.S.		
	Between P						(*)		
<u>Study type</u>									
		CC	Pr	CS	Total				
	N	2	1	5	8				
	Het P	N.S.	N.S.	N.S.	N.S.				
	Fixed RR	1.18	0.87	1.00	1.07				
	RRl	1.05	0.68	0.87	0.99				
	RRu	1.33	1.12	1.15	1.17				
	P	++	N.S.	N.S.	N.S.				
	Between P				*				

Table B1 -

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

This analysis is restricted to results for:

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

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

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

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

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 Section -3 and results adjusted for the least confounders in Section -6. ISee corresponding table in Appendix B for additional output including Random model and Sections -1, -2, -4, -5, -7, -8)

Table B1 - 3

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

<u>Overall</u>				
N		16		
NS		14		
Wt	440.55			
Het Chi	22.48			
Het df	15			
Het P	(*)			
Fixed RR	1.11			
RRl	1.01			
RRu	1.22			
P	+			
Random RR	1.12			
RRl	0.99			
RRu	1.27			
P	(+)			
Asymm P	N.S.			

<u>Sex</u>				
	both	male	female	Total
N	12	2	2	16
Het P	*	N.S.	N.S.	(*)
Fixed RR	1.10	1.09	1.21	1.11
RRl	1.00	0.79	0.87	1.01
RRu	1.22	1.51	1.67	1.22
P	(+)	N.S.	N.S.	+
Between P				N.S.

<u>Measure of exposure</u>				
	cigs	persn	other	Total
N	12	1	3	16
Het P	N.S.	N.S.	(*)	(*)
Fixed RR	1.13	0.89	1.43	1.11
RRl	1.01	0.70	1.05	1.01
RRu	1.25	1.13	1.95	1.22
P	+	N.S.	+	+
Between P				(*)

Table B1 - 6
Unadjusted

<u>Overall</u>				
N		16		
NS		14		
Wt	521.81			
Het Chi	23.65			
Het df	15			
Het P	(*)			
Fixed RR	1.08			
RRl	0.99			
RRu	1.17			
P	(+)			
Random RR	1.09			
RRl	0.97			
RRu	1.22			
P	N.S.			
Asymm P	N.S.			

<u>Sex</u>				
	both	male	female	Total
N	12	2	2	16
Het P	*	N.S.	N.S.	(*)
Fixed RR	1.07	1.09	1.21	1.08
RRl	0.97	0.79	0.87	0.99
RRu	1.17	1.51	1.67	1.17
P	N.S.	N.S.	N.S.	(+)
Between P				N.S.

<u>Measure of exposure</u>				
	cigs	persn	other	Total
N	12	1	3	16
Het P	N.S.	N.S.	**	(*)
Fixed RR	1.12	0.87	1.09	1.08
RRl	1.01	0.69	0.90	0.99
RRu	1.24	1.10	1.32	1.17
P	+	N.S.	N.S.	(+)
Between P				N.S.

Table B2 -

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

This analysis is restricted to results for:

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

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

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

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

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 Section -3 and results adjusted for the least confounders in Section -6. ISee corresponding table in Appendix B for additional output including Random model and Sections -1, -2, -4, -5, -7, -8)

Table B2 - 3

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

		<u>Overall</u>
N		16
NS		14
Wt		230.04
Het Chi		19.78
Het df		15
Het P		N.S.
Fixed RR		1.47
RRl		1.29
RRu		1.67
P		+++
Random RR		1.48
RRl		1.27
RRu		1.73
P		+++
Asymm P		N.S.

		<u>Sex</u>			Total
		both	male	female	
N		12	2	2	16
Het P		N.S.	N.S.	N.S.	N.S.
Fixed RR		1.39	1.97	2.01	1.47
RRl		1.21	1.27	1.22	1.29
RRu		1.60	3.05	3.33	1.67
P		+++	++	++	+++
Between P					N.S.

		<u>Measure of exposure</u>			Total
		cigs	persn	other	
N		12	1	3	16
Het P		(*)	N.S.	N.S.	N.S.
Fixed RR		1.46	1.49	1.51	1.47
RRl		1.27	0.81	1.04	1.29
RRu		1.69	2.73	2.20	1.67
P		+++	N.S.	+	+++
Between P					N.S.

Table B2 - 6
Unadjusted

		<u>Overall</u>
N		16
NS		14
Wt		320.54
Het Chi		21.47
Het df		15
Het P		N.S.
Fixed RR		1.38
RRl		1.24
RRu		1.54
P		+++
Random RR		1.43
RRl		1.23
RRu		1.65
P		+++
Asymm P		(*)

		<u>Sex</u>			Total
		both	male	female	
N		12	2	2	16
Het P		N.S.	N.S.	N.S.	N.S.
Fixed RR		1.32	1.97	2.01	1.38
RRl		1.18	1.27	1.22	1.24
RRu		1.48	3.05	3.33	1.54
P		+++	++	++	+++
Between P					(*)

		<u>Measure of exposure</u>			Total
		cigs	persn	other	
N		12	1	3	16
Het P		(*)	N.S.	N.S.	N.S.
Fixed RR		1.46	1.38	1.23	1.38
RRl		1.27	0.76	1.01	1.24
RRu		1.67	2.51	1.50	1.54
P		+++	N.S.	+	+++
Between P					N.S.

Table B3 -

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

This analysis is restricted to results for:

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

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

- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) MEASEX : number of cigarettes, number of persons, other
- 9) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 10) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 11) UNEXSO : not specific parent, neither parent, none in household, none
- 12) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 13) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 14) RACE : all in study or nearest available, otherwise by race
- 15) 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 Overall
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 Section -3
and results adjusted for the least confounders in Section -6. ISee corresponding table in Appendix B
for additional output including Random model and Sections -1, -2, -4, -5, -7, -8)

Table B3 - 3

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

		<u>Overall</u>			
N		18			
NS		18			
Wt		674.70			
Het Chi		36.30			
Het df		17			
Het P		**			
Fixed RR		1.12			
RRl		1.04			
RRu		1.21			
P		++			
Random RR		1.05			
RRl		0.93			
RRu		1.20			
P		N.S.			
Asymm P		N.S.			
		<u>Sex</u>			Total
		both	male	female	
N		18			18
Het P		**			**
Fixed RR		1.12			1.12
RRl		1.04			1.04
RRu		1.21			1.21
P		++			++
Between P					N.S.
		<u>Measure of exposure</u>			Total
		cigs	persn	other	
N		10	6	2	18
Het P		N.S.	**	*	**
Fixed RR		1.12	1.09	1.47	1.12
RRl		1.02	0.95	0.88	1.04
RRu		1.23	1.25	2.44	1.21
P		+	N.S.	N.S.	++
Between P					N.S.

Table B3 - 6
Unadjusted

		<u>Overall</u>			
N		18			
NS		18			
Wt		793.10			
Het Chi		38.35			
Het df		17			
Het P		**			
Fixed RR		1.11			
RRl		1.04			
RRu		1.19			
P		++			
Random RR		1.06			
RRl		0.94			
RRu		1.19			
P		N.S.			
Asymm P		N.S.			
		<u>Sex</u>			Total
		both	male	female	
N		18			18
Het P		**			**
Fixed RR		1.11			1.11
RRl		1.04			1.04
RRu		1.19			1.19
P		++			++
Between P					N.S.
		<u>Measure of exposure</u>			Total
		cigs	persn	other	
N		10	6	2	18
Het P		N.S.	**	**	**
Fixed RR		1.12	1.12	1.00	1.11
RRl		1.03	0.99	0.78	1.04
RRu		1.22	1.28	1.28	1.19
P		+	(+)	N.S.	++
Between P					N.S.

Table B4 -

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

This analysis is restricted to results for:

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

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

- 6) EXPOS : biochemical, total, household, parent
- 7) BIOMEA : saliva, blood, urine
- 8) MEASEX : number of cigarettes, number of persons, other
- 9) WHOPAR : any/unspecified parent, mother regardless of father, mother only, father regardless of mother, father only
- 10) WHESMO : during child's lifetime, ever (i.e. during smoker's lifetime), unspecified, at a specific age, current
- 11) UNEXSO : not specific parent, neither parent, none in household, none
- 12) UNEXTI : not at specified time, never (in smoker's lifetime), not at longer than specified time
- 13) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 14) RACE : all in study or nearest available, otherwise by race
- 15) 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 Overall

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 Section -3 and results adjusted for the least confounders in Section -6. ISee corresponding table in Appendix B for additional output including Random model and Sections -1, -2, -4, -5, -7, -8)

Table B4 - 3

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

		<u>Overall</u>	
	N	18	
	NS	18	
	Wt	528.20	
Het	Chi	33.76	
Het	df	17	
Het	P	**	
Fixed	RR	1.34	
	RRl	1.23	
	RRu	1.46	
	P	+++	
Random	RR	1.40	
	RRl	1.22	
	RRu	1.62	
	P	+++	
Asymm	P	N.S.	

		<u>Sex</u>			Total
		both	male	female	
	N	18			18
Het	P	**			**
Fixed	RR	1.34			1.34
	RRl	1.23			1.23
	RRu	1.46			1.46
	P	+++			+++
Between	P				N.S.

		<u>Measure of exposure</u>			Total
		cigs	persn	other	
	N	10	6	2	18
Het	P	N.S.	N.S.	N.S.	**
Fixed	RR	1.21	1.66	1.84	1.34
	RRl	1.10	1.42	1.06	1.23
	RRu	1.35	1.95	3.18	1.46
	P	+++	+++	+	+++
Between	P				**

Table B4 - 6
Unadjusted

		<u>Overall</u>	
	N	18	
	NS	18	
	Wt	642.50	
Het	Chi	31.52	
Het	df	17	
Het	P	*	
Fixed	RR	1.38	
	RRl	1.28	
	RRu	1.50	
	P	+++	
Random	RR	1.40	
	RRl	1.24	
	RRu	1.59	
	P	+++	
Asymm	P	N.S.	

		<u>Sex</u>			Total
		both	male	female	
	N	18			18
Het	P	*			*
Fixed	RR	1.38			1.38
	RRl	1.28			1.28
	RRu	1.50			1.50
	P	+++			+++
Between	P				N.S.

		<u>Measure of exposure</u>			Total
		cigs	persn	other	
	N	10	6	2	18
Het	P	N.S.	N.S.	(*)	*
Fixed	RR	1.26	1.73	1.37	1.38
	RRl	1.14	1.49	1.08	1.28
	RRu	1.39	2.02	1.73	1.50
	P	+++	+++	++	+++
Between	P				**

Table B5 -

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

This analysis is restricted to results for:

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

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

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

Finally by Age: whole study if available, otherwise by widest available age Overall
 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 Section -3
 (and those which actually differ from the adjusted results in Table B1 - 1 are marked 'x' in Section -1)
 and results adjusted for the least confounders in Section -6. ISee corresponding table in Appendix B
 for additional output including Random model and Sections -1, -2, -4, -5, -7, -8)

Table B5 - 3

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

<u>Overall</u>				
N	31			
NS	29			
Wt	1089.88			
Het Chi	52.40			
Het df	30			
Het P	**			
Fixed RR	1.12			
RR1	1.06			
RRu	1.19			
P	+++			
Random RR	1.10			
RR1	1.01			
RRu	1.20			
P	+			
Asymm P	N.S.			

<u>Sex</u>				
	both	male	female	Total
N	27	2	2	31
Het P	**	N.S.	N.S.	**
Fixed RR	1.12	1.09	1.21	1.12
RR1	1.06	0.79	0.87	1.06
RRu	1.19	1.51	1.67	1.19
P	+++	N.S.	N.S.	+++
Between P				N.S.

<u>Measure of exposure</u>				
	cigs	persn	other	Total
N	21	6	4	31
Het P	N.S.	**	*	**
Fixed RR	1.12	1.07	1.55	1.12
RR1	1.05	0.95	1.15	1.06
RRu	1.21	1.20	2.09	1.19
P	++	N.S.	++	+++
Between P				(*)

Table B5 - 6
Unadjusted

<u>Overall</u>				
N	31			
NS	29			
Wt	1238.69			
Het Chi	55.62			
Het df	30			
Het P	**			
Fixed RR	1.11			
RR1	1.05			
RRu	1.18			
P	+++			
Random RR	1.10			
RR1	1.01			
RRu	1.19			
P	+			
Asymm P	N.S.			

<u>Sex</u>				
	both	male	female	Total
N	27	2	2	31
Het P	***	N.S.	N.S.	**
Fixed RR	1.11	1.09	1.21	1.11
RR1	1.05	0.79	0.87	1.05
RRu	1.18	1.51	1.67	1.18
P	+++	N.S.	N.S.	+++
Between P				N.S.

<u>Measure of exposure</u>				
	cigs	persn	other	Total
N	21	6	4	31
Het P	N.S.	**	**	**
Fixed RR	1.12	1.08	1.13	1.11
RR1	1.05	0.96	0.94	1.05
RRu	1.20	1.21	1.37	1.18
P	+++	N.S.	N.S.	+++
Between P				N.S.

Table B6 -

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

This analysis is restricted to results for:

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

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

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

Finally by Age: whole study if available, otherwise by widest available age Overall
 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 Section -3
 (and those which actually differ from the adjusted results in Table B2 - 1 are marked 'x' in Section -1)
 and results adjusted for the least confounders in Section -6. ISee corresponding table in Appendix B
 for additional output including Random model and Sections -1, -2, -4, -5, -7, -8)

Table B6 - 3

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

		<u>Overall</u>			
N		31			
NS		29			
Wt		734.03			
Het Chi		52.31			
Het df		30			
Het P		**			
Fixed RR		1.37			
RR1		1.28			
RRu		1.48			
P		+++			
Random RR		1.43			
RR1		1.28			
RRu		1.60			
P		+++			
Asymm P		*			
		<u>Sex</u>			
		both	male	female	Total
N		27	2	2	31
Het P		**	N.S.	N.S.	**
Fixed RR		1.35	1.97	2.01	1.37
RR1		1.25	1.27	1.22	1.28
RRu		1.45	3.05	3.33	1.48
P		+++	++	++	+++
Between P					(*)
		<u>Measure of exposure</u>			
		cigs	persn	other	Total
N		21	6	4	31
Het P		*	N.S.	N.S.	**
Fixed RR		1.30	1.63	1.65	1.37
RR1		1.19	1.39	1.15	1.28
RRu		1.41	1.90	2.36	1.48
P		+++	+++	++	+++
Between P					*

Table B6 - 6
Unadjusted

		<u>Overall</u>			
N		31			
NS		29			
Wt		879.25			
Het Chi		49.67			
Het df		30			
Het P		*			
Fixed RR		1.39			
RR1		1.30			
RRu		1.48			
P		+++			
Random RR		1.42			
RR1		1.28			
RRu		1.56			
P		+++			
Asymm P		N.S.			
		<u>Sex</u>			
		both	male	female	Total
N		27	2	2	31
Het P		*	N.S.	N.S.	*
Fixed RR		1.37	1.97	2.01	1.39
RR1		1.28	1.27	1.22	1.30
RRu		1.46	3.05	3.33	1.48
P		+++	++	++	+++
Between P					(*)
		<u>Measure of exposure</u>			
		cigs	persn	other	Total
N		21	6	4	31
Het P		(*)	N.S.	N.S.	*
Fixed RR		1.33	1.69	1.27	1.39
RR1		1.23	1.46	1.04	1.30
RRu		1.44	1.96	1.54	1.48
P		+++	+++	+	+++
Between P					*

Table C1 -

IESAST - 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 pregnancy
- 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 Overall
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 Section -3
and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix C
for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table C1 - 3

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

		<u>Overall</u>						
N		27						
NS		26						
Wt		873.19						
Het Chi		60.12						
Het df		26						
Het P		***						
Fixed RR		1.25						
RR1		1.17						
RRu		1.33						
P		+++						
Random RR		1.30						
RR1		1.16						
RRu		1.45						
P		+++						
Asymm P		N.S.						
		<u>Sex</u>						
		both	male	female	Total			
N		25	1	1	27			
Het P		***	N.S.	N.S.	***			
Fixed RR		1.23	1.26	1.56	1.25			
RR1		1.15	0.96	1.16	1.17			
RRu		1.32	1.65	2.10	1.33			
P		+++	(+)	++	+++			
Between P					N.S.			
		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
N		10		13	1	2	1	27
Het P		N.S.		***	N.S.	N.S.	N.S.	***
Fixed RR		1.41		1.20	2.01	1.05	2.20	1.25
RR1		1.24		1.10	0.58	0.88	1.28	1.17
RRu		1.59		1.31	6.99	1.26	3.78	1.33
P		+++		+++	N.S.	N.S.	++	+++
Between P								*
		<u>Country in Europe</u>						
		UK	Italy	Germany	Scand	othWest	East/Bal	Total
N		3	3	2	5			13
Het P		N.S.	**	***	N.S.			***
Fixed RR		1.15	1.22	1.04	1.25			1.20
RR1		0.96	1.07	0.69	1.05			1.10
RRu		1.38	1.39	1.55	1.48			1.31
P		N.S.	++	N.S.	+			+++
Between P								N.S.
		<u>Start year of study</u>						
		<1970	1970-79	1980-89	1990+	unknown	Total	
N				8	17	2	27	
Het P				N.S.	***	N.S.	***	
Fixed RR				1.18	1.26	1.53	1.25	
RR1				1.05	1.16	1.17	1.17	
RRu				1.32	1.37	2.01	1.33	
P				++	+++	++	+++	
Between P							N.S.	
		<u>Publication year</u>						
		<1990	1990-94	1995-99	2000+	Total		
N			3	12	12	27		
Het P			*	**	*	***		
Fixed RR			1.04	1.24	1.29	1.25		
RR1			0.81	1.12	1.17	1.17		
RRu			1.33	1.37	1.42	1.33		
P			N.S.	+++	+++	+++		
Between P						N.S.		
		<u>Study type</u>						
		CC	Pr	CS	Total			
N		7	4	16	27			
Het P		***	N.S.	*	***			
Fixed RR		1.30	1.18	1.25	1.25			
RR1		1.15	1.02	1.14	1.17			
RRu		1.47	1.35	1.37	1.33			
P		+++	+	+++	+++			
Between P					N.S.			

Table C1 - 3

<u>IESAST - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)</u>							
<u>Lifetime Asthma (or Current if Lifetime not available)</u>							
<u>Adjusted</u>							
<u>Highest age in RR</u>							
		0-9	10-14	15+	unknown	Total	
	N	13	9	5		27	
Het	P	***	*	N.S.		***	
Fixed	RR	1.29	1.19	1.23		1.25	
	RR1	1.17	1.05	1.08		1.17	
	RRu	1.42	1.35	1.40		1.33	
	P	+++	++	++		+++	
Between	P					N.S.	
<u>Population setting</u>							
		general	school	medical	allergy	other	Total
	N	9	13	4		1	27
Het	P	N.S.	***	*		N.S.	***
Fixed	RR	1.22	1.26	1.83		1.08	1.25
	RR1	1.08	1.15	1.34		0.90	1.17
	RRu	1.38	1.39	2.50		1.30	1.33
	P	++	+++	+++		N.S.	+++
Between	P						*
<u>Respondent for smoking</u>							
		child	parent	med rec	mix/oth	Total	
	N		21	1	5	27	
Het	P		**	N.S.	N.S.	***	
Fixed	RR		1.20	2.82	1.43	1.25	
	RR1		1.12	1.53	1.21	1.17	
	RRu		1.29	5.20	1.68	1.33	
	P		+++	+++	+++	+++	
Between	P					**	
<u>Child smokers</u>							
		exc/none	included	ignored	Total		
	N	6	2	19	27		
Het	P	N.S.	*	**	***		
Fixed	RR	1.47	1.04	1.20	1.25		
	RR1	1.30	0.87	1.10	1.17		
	RRu	1.66	1.25	1.31	1.33		
	P	+++	N.S.	+++	+++		
Between	P				**		
<u>Physician diagnosis (lifetime/current)</u>							
		yes	no/mixed	Total			
	N	13	14	27			
Het	P	**	*	***			
Fixed	RR	1.38	1.19	1.25			
	RR1	1.23	1.10	1.17			
	RRu	1.55	1.29	1.33			
	P	+++	+++	+++			
Between	P			*			
<u>Respondent for diagnosis (lifetime/current)</u>							
		medrec	parent	child	mixed	Total	
	N	2	20	2	3	27	
Het	P	**	**	N.S.	(*)	***	
Fixed	RR	1.56	1.22	1.49	1.39	1.25	
	RR1	1.00	1.13	1.05	1.10	1.17	
	RRu	2.44	1.31	2.11	1.74	1.33	
	P	+	+++	+	++	+++	
Between	P					N.S.	
<u>Questionnaire for symptoms</u>							
		ISAAC	ATS	other	Total		
	N	10		17	27		
Het	P	**		**	***		
Fixed	RR	1.23		1.28	1.25		
	RR1	1.12		1.15	1.17		
	RRu	1.34		1.42	1.33		
	P	+++		+++	+++		
Between	P				N.S.		

Table C1 - 3

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

		<u>Analysis type</u>					
		<u>prevalence</u>	<u>onset</u>	<u>Total</u>			
	N	25	2	27			
Het	P	***	N.S.	***			
Fixed	RR	1.28	1.11	1.25			
	RRl	1.19	0.95	1.17			
	RRu	1.38	1.29	1.33			
	P	+++	N.S.	+++			
Between	P			(*)			
<u>Number of cases (lifetime/current asthma)</u>							
		<u>1-50</u>	<u>51-100</u>	<u>101-200</u>	<u>201+</u>	<u>unknown</u>	<u>Total</u>
	N	1	2	6	6	12	27
Het	P	N.S.	N.S.	*	N.S.	***	***
Fixed	RR	3.30	1.00	1.24	1.22	1.29	1.25
	RRl	1.01	0.68	1.01	1.10	1.16	1.17
	RRu	10.74	1.46	1.52	1.35	1.43	1.33
	P	+	N.S.	+	+++	+++	+++
Between	P						N.S.
<u>Study adjusts for or is matched on sex</u>							
		<u>Yes</u>	<u>No</u>	<u>Total</u>			
	N	20	7	27			
Het	P	**	**	***			
Fixed	RR	1.25	1.25	1.25			
	RRl	1.15	1.10	1.17			
	RRu	1.35	1.42	1.33			
	P	+++	+++	+++			
Between	P			N.S.			
<u>Study adjusts for or is matched on age</u>							
	N	11	16	27			
Het	P	***	*	***			
Fixed	RR	1.28	1.22	1.25			
	RRl	1.16	1.11	1.17			
	RRu	1.42	1.33	1.33			
	P	+++	+++	+++			
Between	P			N.S.			
<u>Study adjusts for or is matched on race</u>							
	N	9	18	27			
Het	P	N.S.	***	***			
Fixed	RR	1.43	1.19	1.25			
	RRl	1.26	1.10	1.17			
	RRu	1.64	1.28	1.33			
	P	+++	+++	+++			
Between	P			*			
<u>Study adjusts for or is matched on location</u>							
	N	10	17	27			
Het	P	**	*	***			
Fixed	RR	1.31	1.19	1.25			
	RRl	1.19	1.09	1.17			
	RRu	1.45	1.30	1.33			
	P	+++	+++	+++			
Between	P			N.S.			
<u>Study adjusts for or is matched on SES</u>							
	N	11	16	27			
Het	P	*	**	***			
Fixed	RR	1.22	1.28	1.25			
	RRl	1.12	1.16	1.17			
	RRu	1.33	1.41	1.33			
	P	+++	+++	+++			
Between	P			N.S.			
<u>Study adjusts for family medical history</u>							
	N	17	10	27			
Het	P	***	(*)	***			
Fixed	RR	1.28	1.17	1.25			
	RRl	1.19	1.03	1.17			
	RRu	1.39	1.32	1.33			
	P	+++	+	+++			
Between	P			N.S.			

Table C1 - 3

<u>IESAST - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)</u>				
<u>Lifetime Asthma (or Current if Lifetime not available)</u>				
<u>Adjusted</u>				
<u>Study adjusts for family composition</u>				
		<u>Yes</u>	<u>No</u>	<u>Total</u>
	N	6	21	27
Het	P	*	***	***
Fixed	RR	1.17	1.27	1.25
	RR1	1.02	1.18	1.17
	RRu	1.34	1.37	1.33
	P	+	+++	+++
Between	P			N.S.
<u>Study adjusts for cooking, heating, air conditioning</u>				
	N	4	23	27
Het	P	*	**	***
Fixed	RR	1.16	1.31	1.25
	RR1	1.05	1.20	1.17
	RRu	1.29	1.42	1.33
	P	++	+++	+++
Between	P			(*)
<u>Study adjusts for housing quality, crowding, damp, mould</u>				
	N	7	20	27
Het	P	**	**	***
Fixed	RR	1.25	1.24	1.25
	RR1	1.13	1.14	1.17
	RRu	1.40	1.35	1.33
	P	+++	+++	+++
Between	P			N.S.
<u>Study adjusts for pets, animal contact, farming</u>				
	N	3	24	27
Het	P	N.S.	***	***
Fixed	RR	1.48	1.23	1.25
	RR1	1.16	1.15	1.17
	RRu	1.90	1.32	1.33
	P	++	+++	+++
Between	P			N.S.
<u>Study adjusts for child's medical history</u>				
	N	17	10	27
Het	P	***	(*)	***
Fixed	RR	1.28	1.21	1.25
	RR1	1.17	1.10	1.17
	RRu	1.41	1.33	1.33
	P	+++	+++	+++
Between	P			N.S.
<u>Study adjusts for in utero exposure</u>				
	N	12	15	27
Het	P	**	**	***
Fixed	RR	1.30	1.20	1.25
	RR1	1.18	1.09	1.17
	RRu	1.43	1.32	1.33
	P	+++	+++	+++
Between	P			N.S.
<u>Study adjusts for in life exposure</u>				
	N	13	14	27
Het	P	**	**	***
Fixed	RR	1.32	1.17	1.25
	RR1	1.20	1.06	1.17
	RRu	1.44	1.29	1.33
	P	+++	++	+++
Between	P			(*)
<u>Asthma definition (lifetime/current)</u>				
		<u>lifetime</u>	<u>current</u>	<u>Total</u>
	N	16	11	27
Het	P	*	***	***
Fixed	RR	1.20	1.32	1.25
	RR1	1.11	1.18	1.17
	RRu	1.31	1.46	1.33
	P	+++	+++	+++
Between	P			N.S.

Table C1 - 3

<u>IESAST - Meta-analysis of Maternal In Utero Exposure (irrespective of in life exposure)</u>								
<u>Lifetime Asthma (or Current if Lifetime not available)</u>								
<u>Adjusted</u>								
<u>Number of adjustment variables</u>								
		0	1	2	3-5	6-9	10+	Total
	N	8	2	1	5	6	5	27
Het	P	(*)	*	N.S.	*	(*)	*	***
Fixed	RR	1.29	0.96	3.30	1.40	1.17	1.23	1.25
	RR1	1.13	0.68	1.01	1.18	1.02	1.10	1.17
	RRu	1.47	1.35	10.74	1.67	1.34	1.39	1.33
	P	+++	N.S.	+	+++	+	+++	+++
Between	P							N.S.
<u>RR adjusted for sex</u>								
		Yes	No	Total				
	N	13	14	27				
Het	P	*	**	***				
Fixed	RR	1.19	1.33	1.25				
	RR1	1.09	1.20	1.17				
	RRu	1.29	1.47	1.33				
	P	+++	+++	+++				
Between	P			(*)				
<u>RR adjusted for age</u>								
	N	7	20	27				
Het	P	**	**	***				
Fixed	RR	1.24	1.25	1.25				
	RR1	1.11	1.15	1.17				
	RRu	1.38	1.36	1.33				
	P	+++	+++	+++				
Between	P			N.S.				
<u>RR adjusted for other ETS</u>								
	N	12	15	27				
Het	P	**	**	***				
Fixed	RR	1.29	1.20	1.25				
	RR1	1.18	1.10	1.17				
	RRu	1.42	1.32	1.33				
	P	+++	+++	+++				
Between	P			N.S.				
<u>RR adjusted for factor other than sex, age, other ETS</u>								
	N	17	10	27				
Het	P	***	N.S.	***				
Fixed	RR	1.22	1.31	1.25				
	RR1	1.13	1.15	1.17				
	RRu	1.32	1.48	1.33				
	P	+++	+++	+++				
Between	P			N.S.				
<u>Derivation of RR/CI</u>								
		Original	Numbers	SumNumbs	Other	Total		
	N	13	5	1	8	27		
Het	P	**	N.S.	N.S.	**	***		
Fixed	RR	1.33	1.15	1.39	1.23	1.25		
	RR1	1.18	0.99	0.88	1.11	1.17		
	RRu	1.50	1.34	2.21	1.35	1.33		
	P	+++	(+)	N.S.	+++	+++		
Between	P					N.S.		

Table C1 - 6

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

		<u>Overall</u>			
	N	27			
	NS	26			
	Wt	1089.81			
	Het Chi	66.07			
	Het df	26			
	Het P	***			
Fixed	RR	1.34			
	RRl	1.26			
	RRu	1.42			
	P	+++			
Random	RR	1.37			
	RRl	1.23			
	RRu	1.52			
	P	+++			
Asymm	P	N.S.			

		<u>Sex</u>			
		both	male	female	Total
	N	25	1	1	27
	Het P	***	N.S.	N.S.	***
Fixed	RR	1.34	1.09	1.61	1.34
	RRl	1.26	0.83	1.21	1.26
	RRu	1.43	1.43	2.13	1.42
	P	+++	N.S.	++	+++
Between	P	N.S.			

		<u>Continent</u>						
		NAmer	SCAmer	Europe	Asia	Auslia	Africa	Total
	N	10		13	1	2	1	27
	Het P	**		*	N.S.	N.S.	N.S.	***
Fixed	RR	1.51		1.28	2.01	1.13	2.20	1.34
	RRl	1.36		1.18	0.58	0.95	1.28	1.26
	RRu	1.68		1.39	6.99	1.34	3.78	1.42
	P	+++		+++	N.S.	N.S.	++	+++
Between	P							**

		<u>Start year of study</u>					
		<1970	1970-79	1980-89	1990+	unknown	Total
	N			8	17	2	27
	Het P			**	***	N.S.	***
Fixed	RR			1.33	1.33	1.54	1.34
	RRl			1.20	1.23	1.21	1.26
	RRu			1.47	1.43	1.97	1.42
	P			+++	+++	+++	+++
Between	P						N.S.

		<u>Study type</u>			
		CC	Pr	CS	Total
	N	7	4	16	27
	Het P	**	N.S.	**	***
Fixed	RR	1.40	1.20	1.35	1.34
	RRl	1.26	1.04	1.25	1.26
	RRu	1.55	1.38	1.47	1.42
	P	+++	+	+++	+++
Between	P	N.S.			

Table D1 -

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

This analysis is restricted to results for:

- 1) Exposure during pregnancy
- 2) Exposure from mother smoking or ETS exposed
- 3) Results for low 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) MEASEX : number of cigarettes, number of persons, other
- 7) UNEXSO : not specific parent, neither parent, none in household, none
- 8) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 9) RACE : all in study or nearest available, otherwise by race
- 10) ONSET : yes, no (prevalence)
- 11) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age Overall
 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 Section -3
 and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix D
 for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table D1 - 3

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

		<u>Overall</u>					
	N	3					
	NS	3					
	Wt	73.90					
Het	Chi	1.10					
Het	df	2					
Het	P	N.S.					
Fixed	RR	0.98					
	RRl	0.78					
	RRu	1.24					
	P	N.S.					
Random	RR	0.98					
	RRl	0.78					
	RRu	1.24					
	P	N.S.					
Asymm	P	N.S.					
		<u>Sex</u>					
		both	male	female	Total		
	N	3			3		
Het	P	N.S.			N.S.		
Fixed	RR	0.98			0.98		
	RRl	0.78			0.78		
	RRu	1.24			1.24		
	P	N.S.			N.S.		
Between	P				N.S.		
		<u>Measure of exposure</u>					
		cigs	persn	other	Total		
	N	2	1		3		
Het	P	N.S.	N.S.		N.S.		
Fixed	RR	0.87	1.10		0.98		
	RRl	0.62	0.80		0.78		
	RRu	1.21	1.51		1.24		
	P	N.S.	N.S.		N.S.		
Between	P				N.S.		

Table D1 - 6
Unadjusted

		<u>Overall</u>					
	N	3					
	NS	3					
	Wt	78.99					
Het	Chi	1.40					
Het	df	2					
Het	P	N.S.					
Fixed	RR	1.01					
	RRl	0.81					
	RRu	1.25					
	P	N.S.					
Random	RR	1.01					
	RRl	0.81					
	RRu	1.25					
	P	N.S.					
Asymm	P	N.S.					
		<u>Sex</u>					
		both	male	female	Total		
	N	3			3		
Het	P	N.S.			N.S.		
Fixed	RR	1.01			1.01		
	RRl	0.81			0.81		
	RRu	1.25			1.25		
	P	N.S.			N.S.		
Between	P				N.S.		
		<u>Measure of exposure</u>					
		cigs	persn	other	Total		
	N	2	1		3		
Het	P	N.S.	N.S.		N.S.		
Fixed	RR	0.87	1.13		1.01		
	RRl	0.62	0.84		0.81		
	RRu	1.21	1.52		1.25		
	P	N.S.	N.S.		N.S.		
Between	P				N.S.		

Table D2 -

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

This analysis is restricted to results for:

- 1) Exposure during pregnancy
- 2) Exposure from mother smoking or ETS exposed
- 3) Results for high 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) MEASEX : number of cigarettes, number of persons, other
- 7) UNEXSO : not specific parent, neither parent, none in household, none
- 8) UNEXHI : not exposed defined as smoked none, or smoked none+low
- 9) RACE : all in study or nearest available, otherwise by race
- 10) ONSET : yes, no (prevalence)
- 11) For overlapping studies: principal rather than subsidiary studies, and for prospective studies, most recent follow-up

Finally by Age: whole study if available, otherwise by widest available age Overall
 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 Section -3
 and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix D
 for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

Table D2 - 3

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

		<u>Overall</u>			
	N	3			
	NS	3			
	Wt	27.39			
Het	Chi	4.51			
Het	df	2			
Het	P	N.S.			
Fixed	RR	3.30			
	RRl	2.27			
	RRu	4.80			
	P	+++			
Random	RR	3.71			
	RRl	2.00			
	RRu	6.86			
	P	+++			
Asymm	P	N.S.			

		<u>Sex</u>			Total
		both	male	female	
	N	3			3
Het	P	N.S.			N.S.
Fixed	RR	3.30			3.30
	RRl	2.27			2.27
	RRu	4.80			4.80
	P	+++			+++
Between	P				N.S.

		<u>Measure of exposure</u>			Total
		cigs	persn	other	
	N	2			3
Het	P	*			N.S.
Fixed	RR	3.30			3.30
	RRl	2.00			2.27
	RRu	5.43			4.80
	P	+++			+++
Between	P				N.S.

Table D2 - 6
Unadjusted

		<u>Overall</u>			
	N	3			
	NS	3			
	Wt	30.55			
Het	Chi	3.87			
Het	df	2			
Het	P	N.S.			
Fixed	RR	3.51			
	RRl	2.46			
	RRu	5.00			
	P	+++			
Random	RR	3.86			
	RRl	2.24			
	RRu	6.64			
	P	+++			
Asymm	P	**			

		<u>Sex</u>			Total
		both	male	female	
	N	3			3
Het	P	N.S.			N.S.
Fixed	RR	3.51			3.51
	RRl	2.46			2.46
	RRu	5.00			5.00
	P	+++			+++
Between	P				N.S.

		<u>Measure of exposure</u>			Total
		cigs	persn	other	
	N	2			3
Het	P	*			N.S.
Fixed	RR	3.55			3.51
	RRl	2.25			2.46
	RRu	5.58			5.00
	P	+++			+++
Between	P				N.S.

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 Overall

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 Section -3

and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix E for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

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

		<u>Overall</u>			
	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.			
			<u>Sex</u>		
		both	male	female	Total
	N	5	1	1	7
	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	(+)	+	+	++
Between	P				N.S.

Table E1 - 6
Unadjusted

		<u>Overall</u>			
	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.			
			<u>Sex</u>		
		both	male	female	Total
	N	5	1	1	7
	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	+	(+)	+	+++
Between	P				N.S.

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 Overall
 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 Section -3
 and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix E
 for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

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

		<u>Overall</u>					
	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.				
				<u>Sex</u>			
		both	male	female	Total		
	N	5	1	1	7		
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.	(+) (+)		
Between	P				N.S.		

Table E2 - 6
Unadjusted

		<u>Overall</u>					
	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.				
				<u>Sex</u>			
		both	male	female	Total		
	N	5	1	1	7		
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.	(+) (+)		
Between	P				N.S.		

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 Overall
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 Section -3
and results adjusted for the least confounders in Section -6. (See corresponding table in Appendix E
for additional output including Random model and Sections -1, -2, -4, -5, -7 and -8)

