Supplementary materials

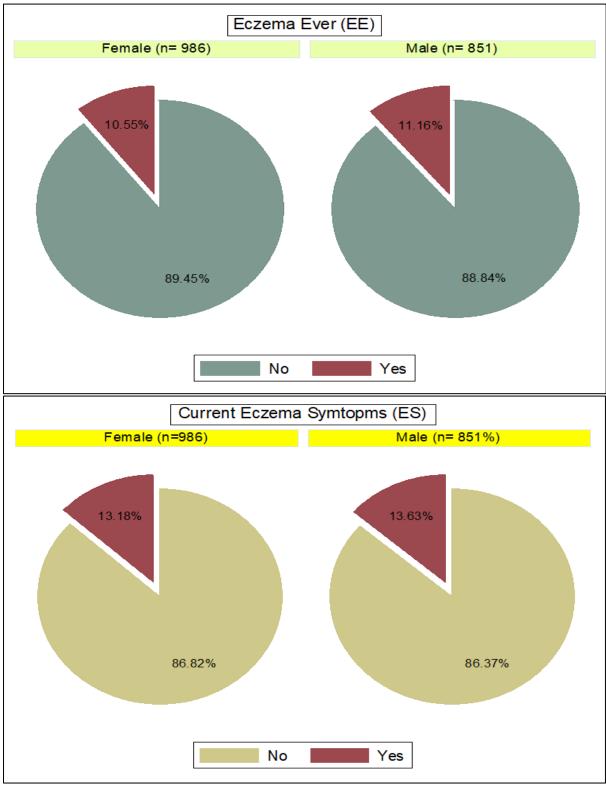


Figure S1: Prevalence of eczema ever (EE) and current eczema symptoms (ES) by children's sex (male and female), (n=1840).

Table S1: Overall prevalence of eczema ever (EE) and current eczema symptoms (ES), (n=1840).

	Total	Percentage
Ever had eczema (EE)		
Yes	199	11.9
No	1475	88.1
Current eczema symptoms	ES	
Yes	246	13.37
No	1594	86.63

Table S2: The prevalence of having current ES among the participants, along with crude and adjusted ORs.

Variable	Total* (%)	Crude OR (95% CI) †		Adjusted OR (95% CI) †	P-value	
Sex						
Female	120 (52.9)	1		1		
Male	130 (52.8)	1.04 (0.79–1.36)	0.779	0.99 (0.75–1.32)	0.962	
	116 (47.2)	1.04 (0.79–1.36)	0.779	0.99 (0.75–1.32)	0.962	
Hours spent watching						
television per week Less than 1 hour	E4 (22.0)	1		1		
1 hour to less than 3 hours	54 (22.0) 95 (38.6)	0.90 (0.62-1.29)	0.564	0.96 (0.65–1.42)	0.848	
	, ,	, ,		• • •		
3 hours or more	95 (38.6)	0.62 (0.43–0.89)	0.009	0.64 (0.43; 0.95)	0.029	
Residential cooking/heating						
fuel type	100 (00 0)	1		1		
Electricity	199 (80.9)	1 00 (1.25.2.10)	0.004	1 (2 (1 00 2 (5)	0.050	
Gas	25 (10.2)	1.99 (1.25-3.18)	0.004	1.63 (1.00-2.65)	0.052	
Open fire/Paraffin	19 (7.7)	3.25 (1.85–5.70)	<0.001	1.94 (1.00–3.74)	0.049	
Smoking exposure at home in						
the past 30 days	1 (0 (((0)					
No	163 (66.3)	1 (1.27.0.70)		1 (1 (1 (7 (7 (7 (7 (7 (7 (7 (7 (7 (7 (7 (7 (7		
Yes	60 (24.4)	1.87 (1.35-2.59)	<0.001	1.61 (1.07; 2.43)	0.022	
Smoking exposure at school in						
the past 30 days	101 (50.6)					
No	181 (73.6)	1		1		
Yes	5 (2.0)	1.84 (0.68–4.97)	0.227	0.81 (0.27–2.39)	0.701	
Mother/female guardian						
smoke cigarette						
no	226 (91.9)	1		1		
yes	20 (8.1)	1.44 (0.87–2.38)	0.156	1.23 (0.71–2.13)	0.451	
Father/male guardian smoke						
cigarette						
no	174 (70.7)	1		1		
yes	71 (28.9)	1.20 (0.89–1.61)	0.242	0.96 (0.67–1.38)	0.816	
Type of house						
brick	196 (79.7)	1		1		
combination	12 (4.9)	1.12 (0.60–2.10)	0.720	1.07 (0.56-2.05)	0.838	
corrugated iron	27 (11.0)	2.18 (1.38–3.44)	0.001	1.64 (0.99- 2.73)	0.054	
mud	1 (0.4)	0.78 (0.10-6.18)	0.813	0.78 (0.09-6.63)	0.820	
other	7 (2.8)	1.89 (0.81-4.41)	0.142	1.54 (0.60-3.98)	0.367	
Mode of transport to school						

combination	13 (5.3)	1		1	
motor car	motor car 50 (20.3)		0.005	2.27 (1.19-4.34)	0.013
taxi/bus	55 (22.4)	3.15 (1.68–5.92)	< 0.001	3.11 (1.63-5.95)	0.001
walk	119 (48.4)	2.82 (1.56-5.10)	0.001	2.68 (1.46-4.95)	0.002
other	9 (3.7)	6.01 (2.33–15.47)	< 0.001	4.57 (1.67–12.51)	0.003
Frequency of trucks passing					
near residence on weekdays					
Never	59 (24.0)	1		1	
Almost all day	34 (13.8)	2.53 (1.56-4.09)	< 0.001	2.08 (1.24-3.49)	0.005
Frequently through the day	32 (13.0)	0.57 (0.36-0.90)	0.016	0.52 (0.32-0.84)	0.007
Seldom	115 (46.7)	1.09 (0.78–1.53)	0.603	1.15 (0.81; 1.64)	0.429

^{*}Total for each risk factor is different due to differences in missing values.

Current eczema symptoms (current ES).

Instructions for completing the questionnaire.

Examples of instructions for completing the questionnaire and demographic questions are given below.

On this sheet are questions about your child's name, school, and birth dates. Please write your answers to these questions in the space provided.

All other questions require you to tick your answer in a box. If you make a mistake put a cross in the box and tick the correct answer. Tick only one option unless otherwise instructed.

Examples of how to mark questionnaires: Age	4	years
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To answer Yes/No, put a cross in the appropriate box as per the example below:

	YES NO	X	
SUBURB/ TOWNSHIP/SECTION WHERE YOUR CHILD LIVES:			
YOUR CHILD'S SCHOOL:			
TODAY'S DATE:			
YOUR CHILD'S NAME:			
YOUR CHILD'S AGE: ye	ears/month		

[†]Model adjusted for all the variables.

Values that are statistically significant at less than 0.02 for the crude OR and less than 0.05 for the adjusted OR are in bold font.

YOUR CHILD'S DATE OF BIRTH:
WEIGHT OF YOUR CHILD? kg
HEIGHT OF YOUR CHILD? Metres /centimeters (Please circle the measurement you used)
(Tick all your answers for the rest of the questionnaire)
Is your child a: MALE FEMALE
Core questionnaire for asthma 1. Has your child ever had wheezing or whistling in the chest at any time in the past? YES NO IF YOU HAVE ANSWERED "NO" PLEASE SKIP TO QUESTION 6 2. Has your child had wheezing or whistling in the chest in the past 12 months?
YES NO LIE VOLL HAVE ANSWEDED "NO" DI EASE SKID TO OLIESTION 6
3. How many attacks of wheezing has your child had in the past 12 months? NONE 1 TO 3 4-14 More than 12
4. In the past 12 months, how often, on average, has your child's sleep been disturbed due to wheezing? Never woken with wheezing Less than one night per week One or more nights per week
5. In the past 12 months, has wheezing ever been severe enough to limit your child's speech to only one or two words at a time between breaths? YES NO

NO		
NO		
Was the a	sthma diagnosed by	a medical doctor or nurse?
YES		
NO		
•	st 12 months, has y	our child's chest <u>ever</u> sounded wheezy during
playing?		
VEC		
YES NO		
	at 12 months has we	our shild had a dry sough at night apart from
		our child had a dry cough at night, apart from
associated	d with a cold or chest	intection?
YES		
NO		
e questioi	nnaire for rhiniti	15
10. Has vour	child ever had a pro	blem with sneezing, or a runny, or blocked no
	D NOT have a cold or	
5.15,110 01	2	
VES		
YES		
YES NO		
NO		
NO	SWERED "NO" PLE	ASE SKIP TO QUESTION 15
NO	SWERED "NO" PLE	ASE SKIP TO QUESTION 15
NO DU HAVE AN		·
NO DU HAVE AN 11. In the <u>pas</u>	<u>t 12 months</u> , has your	child had a problem with sneezing, or a runny, o
NO DU HAVE AN 11. In the <u>pas</u>		child had a problem with sneezing, or a runny, o
NO DU HAVE AN 11. In the <u>pas</u> nose whe	<u>t 12 months</u> , has your	child had a problem with sneezing, or a runny, o
NO DU HAVE AN 11. In the pas nose when	<u>t 12 months</u> , has your	child had a problem with sneezing, or a runny, o
NO DU HAVE AN 11. In the pas nose when	<u>t 12 months</u> , has your	child had a problem with sneezing, or a runny, o
NO OU HAVE AN 11. In the pas nose when YES NO	t 12 months, has your n she/he DID NOT ha	child had a problem with sneezing, or a runny, cave a cold or the flu?
NO OU HAVE AN 11. In the pas nose when YES NO	t 12 months, has your n she/he DID NOT ha	child had a problem with sneezing, or a runny, cave a cold or the flu?
NO OU HAVE AN 11. In the pas nose when YES NO	t 12 months, has your n she/he DID NOT ha	child had a problem with sneezing, or a runny, o
NO OU HAVE AN 11. In the pas nose when YES NO OU HAVE A	t 12 months, has your n she/he DID NOT ha	child had a problem with sneezing, or a runny, on a runny, on a cold or the flu? PLEASE SKIP TO QUESTION 15
NO OU HAVE AN 11. In the pas nose when YES NO OU HAVE A	t 12 months, has your n she/he DID NOT ha	child had a problem with sneezing, or a runny, cave a cold or the flu?
NO OU HAVE AN 11. In the pas nose when YES NO OU HAVE A 12. In the pas	t 12 months, has your n she/he DID NOT ha NSWERED "NO" P	child had a problem with sneezing, or a runny, on a runny, on a cold or the flu? PLEASE SKIP TO QUESTION 15
NO OU HAVE AN 11. In the pas nose when YES NO OU HAVE A 12. In the pas	t 12 months, has your n she/he DID NOT ha NSWERED "NO" P	child had a problem with sneezing, or a runny, on a runny, on a cold or the flu? PLEASE SKIP TO QUESTION 15
NO OU HAVE AN 11. In the pas nose when YES NO OU HAVE A 12. In the pas	t 12 months, has your n she/he DID NOT ha NSWERED "NO" P	child had a problem with sneezing, or a runny, on a runny, on a cold or the flu? PLEASE SKIP TO QUESTION 15
NO DU HAVE AN 11. In the pas nose when yes NO OU HAVE A 12. In the pas yes NO	t 12 months, has your n she/he DID NOT ha	child had a problem with sneezing, or a runny, on a runny, on a cold or the flu? PLEASE SKIP TO QUESTION 15 nose problem been accompanied by itchy-water
NO DU HAVE AN 11. In the pas nose when yes NO OU HAVE A 12. In the pas yes NO	t 12 months, has your n she/he DID NOT ha	child had a problem with sneezing, or a runny, on a runny, on a cold or the flu? PLEASE SKIP TO QUESTION 15 nose problem been accompanied by itchy-water
NO DU HAVE AN 11. In the pas nose when yes NO OU HAVE A 12. In the pas yes NO	t 12 months, has your n she/he DID NOT ha	child had a problem with sneezing, or a runny, on a runny, on a cold or the flu? PLEASE SKIP TO QUESTION 15
NO OU HAVE AN 11. In the pas nose when YES NO OU HAVE A 12. In the pas YES NO 13. In which o	n she/he DID NOT ha NSWERED "NO" P t 12 months, has this	child had a problem with sneezing, or a runny, on a runny, on a cold or the flu? PLEASE SKIP TO QUESTION 15 nose problem been accompanied by itchy-water additional this nose problem occur? (Please tick any when the cold in the cold
NO DU HAVE AN 11. In the pas nose when yes NO OU HAVE A 12. In the pas yes NO 13. In which o	t 12 months, has your n she/he DID NOT has she/he DID NOT has she/he DID NOT has she/he DID NO" Post 12 months, has this she the past 12 months of the past 12 months of Ji	child had a problem with sneezing, or a runny, on a runny, on a cold or the flu? PLEASE SKIP TO QUESTION 15 nose problem been accompanied by itchy-water add this nose problem occur? (Please tick any whole)
NO DU HAVE AN 11. In the pas nose when yes NO OU HAVE A 12. In the pas yes NO 13. In which our January February	t 12 months, has your in she/he DID NOT has she/he DID NOT has she/he DID NOT has she/he DID NO" Post 12 months, has this she past 12 months of the past 12 months of DID NOT has she/he DID	child had a problem with sneezing, or a runny, on a runny, on a cold or the flu? PLEASE SKIP TO QUESTION 15 nose problem been accompanied by itchy-water did this nose problem occur? (Please tick any what august
NO DU HAVE AN 11. In the pas nose when yes NO OU HAVE A 12. In the pas yes NO 13. In which our January February March	n she/he DID NOT has your in she/he DID NOT has not she/he DID NOT has not shew that the past 12 months of the	child had a problem with sneezing, or a runny, on a runny, on a cold or the flu? PLEASE SKIP TO QUESTION 15 nose problem been accompanied by itchy-water and this nose problem occur? (Please tick any who will be a cold or the flu?
NO DU HAVE AN 11. In the pas nose when YES NO OU HAVE A 12. In the pas YES NO 13. In which o January February March April	NSWERED "NO" P t 12 months, has this f the past 12 months of the	child had a problem with sneezing, or a runny, on a runny, on a cold or the flu? PLEASE SKIP TO QUESTION 15 nose problem been accompanied by itchy-water did this nose problem occur? (Please tick any what a long state of the cold state of the co
NO DU HAVE AN 11. In the pas nose when YES NO DU HAVE A 12. In the pas YES NO 13. In which o January February March	NSWERED "NO" P t 12 months, has this f the past 12 months of the	child had a problem with sneezing, or a runny, on a runny, on a cold or the flu? PLEASE SKIP TO QUESTION 15 nose problem been accompanied by itchy-water and this nose problem occur? (Please tick any who will be a cold or the flu?

6. Has your child ever had asthma?

14. In the pas	st 12 months, how much did this nose problem interfere with your child's daily
activities?	
Not at all	
A little A moderate ar	mount
A lot	Trout to the state of the state
15. Has your	child <u>ever</u> had hayfever?
YES	
NO	
16. Was the h	nayfever diagnosed by a doctor or nurse?
YES	
NO	
YES	
months?	
YES NO	
NO	
YOU HAVE AN	ISWERED "NO" PLEASE SKIP TO QUESTION 23
18. Has your	child had this itchy rash at any time in the past 12 months?
YES	
NO	
YOU HAVE AN	ISWERED "NO" PLEASE SKIP TO QUESTION 23
19. Has this i	tchy rash at any time affected your child on any of the following places:
	bows, behind the knees, in front of the ankles, under the buttocks, k, ears or eyes?
YES	
1 = 0	
NO	
	ge of the child did this itchy rash first occur?

21. Has this rash cleared completely at any time during the past 12 months?

Age 2-4 years
Age 5 or more
Can't remember

□	ÆS								
	10								
2	2. In the <u>past 12</u> by this itchy ra		often,	on ave	erage, l	nas your c	hild been	kept awake	e at night
N	Never in the past 12	2 months				1			
	ess than one night								
(One or more nights	per week							
Y	3. Has your child					0			
Y	4. Was the eczen	na diagnosed	i by a d	octor o	or nurse	9?			
	ral questionnair	<u> </u>							
l. Ho	ow long has your	child lived in	this SU	BURB/	TOWN	SHIP/SECT	ΓΙΟΝ?		
L	ess than 6 months.								

6 to 12 months 1 to 2 years 3 years or longer

Walk
Taxi/Bus
Motor car
Combination

Other

Brick Mud

Other

30 minute drive

Corrugated iron
Combination

2. How does your child usually get to school?

15 minutes' walk or 5 minute drive 1 hour walk or 15 minute drive

more than an hour's walk or more than

4. What type of house does your child live in?

3. How far is the nearest Clinic or Hospital from your home?

Do you have running water in YES NO	the house?		
140			
In the consett 40 meanths a beautiful			l. 41 f. II 0 /DI
In the past 12 months, how oft		your child eat or drin	k the following? (Pleas
leave blank if you do not know w	nat a lood is)		
Type of food	Never or	Once or twice	Three or more
Type of food	occasionally	per week	times per week
Meat (e.g. beef, lamb,	occusionally	per week	times per week
chicken, pork)			
Seafood (including fish)			
Fruit			
Vegetables (green and root)			
Pulses (peas, beans, lentils)			
Cereal (including bread)			
Pasta			
Rice			
Butter			
Margarine			
Nuts			
Potatoes			
Milk			
Eggs			
Fast food/burgers			
In the past 6 months, how often	en has your child be	een absent from sch	ool?
Never or occasionally			
Once or twice per week			
Three or more times a week			
During a normal week, how m	iany hours a <u>day (2</u>	4hours) does your c	hild watch television?
Less than 1 hour			
1 hour but less than 3 hours			
3 hours but less than 5 hours			
5 hours or more			
In your house, what fuel is	s usually used for c	ooking?	
	Т		
Electricity			
Gas			
Paraffin			

11.	In your house, what fuel is usually used for heating?
	Electricity
	Gas
	Paraffin
	Open fires (wood,coal)
	Other – Please specify
	· · · · · · · · · · · · · · · · · · ·
	In the past 12 months, how often, on average, have you given your child paracetamol (e.g. Panadol, Pamol)?
	Never
	At least once a year
	At least once per month
13.	How many older brothers and sisters does your child have? Brothers Sisters
14.	How many younger brothers and brothers sisters does your child have?
	Brothers
	Sisters
15.	Was your child born in this township/suburb? YES
	NO
16.	How often do trucks pass through the street where you live, on weekdays?
	Never
	Seldom
	Frequently through the day
	Almost all day
17.	Do you currently have a cat in your home?
	YES
	NO
18.	In the past 12 months, have you had a cat in your home?
	YES
	NO NO
19.	Do you currently have a dog in your home? YES NO

VEC.	uis, nave	you nad a do	g iii youi iioi	110:			
YES							
NO							
21. Does the child's me	other (or f	emale guardia	an) smoke ci	garettes	?		
YES	J (J	5	,	9	•		
NO							
22. Does the child's fat	ther (or m	ale guardian)	smoke cigar	rettes?			
YES							
NO							
23. How many people	living in th	ne same hous	e as your ch	ild smok	e cigarettes	s?	
Peopl	le						
O4 In the past 20 days	abaut ba		يرميد اماييميي		سن مميير امانطم		
24. In the past 30 days							
someone smoked close to	o him/her	(no complete	physical bar	rier i.e. s	moke got t	o him/her)?	
		` .			•	,	
	Never	1-6 days	7-10 days	16-20	dave Mo	re than 20 days	
At home	140701	1-0 days	7-10 days	10-20	days Ivio	To than 20 days	
At home							
At school							
In the car or transport							
Restaurant							
Air quality perceptions 25. How would you rate	the indoo	r air quality in	your home?	1			
Good							
Average							
Poor							
25. How would you ra	te the out	door air gualit	v in vour co	mmunity/)		
	te the out	door all qualit	ly iii your coi	initiality			
Good							
Average							
Poor							
26. Please express how	much do	vou agroo or	· dieaaroo o	n the fol	lowing eta	tomonte	
20. Flease expless flow	illucii uo	you agree or					T 0.
			Strongly	Agree	Undecide	d Disagree	Stron
			agree				disag
Improving environment is every citizen	the respo	nsibility of					
Recycling programs sho	uld be pu	t in place and					
promoted across the who		,					
I am actively involved		ning up the					1
environment	u III CIES	umig up uie					
The pollution is out of my	v control a	nd I cannot do					
anything to change it	,			1			
Larry timing to originate it			1	1	1		

20. In the past 12 months, have you had a dog in your home?

If I knew how to better contribute to a cleaner

environment, I would take action			
I do not see the pollution as a health problem			

THANK YOU!