

ONLINE DATA SUPPLEMENT

Association of indoor nitrogen dioxide exposure with respiratory symptoms in asthmatic children

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Table E1. Unadjusted associations between respiratory symptoms in the month prior to sampling, personal factors, housing characteristics, maintenance medication use and season of nitrogen dioxide sampling.* (Southern New England, 1998 - 2000)

Factors	N (%)	Wheeze (%)	Persistent cough (%)	Shortness of breath (%)	Chest tightness (%)
All subjects	728	28.5	34.1	20.6	16.8
Personal factors					
Gender					
Male	458 (62.9)	30.6	35.2	21.6	17.2
Female	270 (37.1)	25.0	32.2	19.0	15.9
Age (yrs)					
< 6	471 (64.7)	27.1	34.3	19.4	13.6
≥ 6	257 (35.3)	31.1	33.8	23.0	22.6
Ethnicity					
White, Asian, other	490 (67.3)	28.7	34.8	19.8	15.7
Black	74 (10.2)	29.7	37.8	25.7	23.0
Hispanic	164 (22.5)	27.4	30.5	20.7	17.1
Housing characteristics					
Housing type					
Multifamily	242 (33.2)	27.0	32.6	21.6	17.4
Single family	486 (66.7)	29.3	34.8	20.2	16.5
Number of rooms in home					
< 6	288 (39.7)	29.3	34.0	20.9	18.8
≥ 6	438 (60.3)	27.9	34.1	20.6	15.5
Mold/mildew					
Yes	310 (42.7)	28.4	32.9	23.6	17.4
No	416 (57.3)	28.7	34.9	18.6	16.4
Water leaks					
Yes	239 (32.9)	32.6	40.6	24.7	19.7
No	488 (67.1)	26.5	30.8	18.7	15.4
Maintenance medication use					
Yes	370 (50.8)	37.0	42.0	27.3	22.7
No	358 (49.2)	19.7	26.0	13.7	10.6
Season of NO ₂ sampling					
Nov - Mar	274 (37.6)	35.5	44.2	27.4	23.4
Apr - Oct	454 (62.4)	24.3	28.0	16.6	12.8

*Significant ($p < 0.05$, χ^2 test) differences between children with and without symptoms are shown in boldface type.

Table E2. Unadjusted associations between household source of NO₂ (gas stoves) and measured NO₂ ≥ 20 ppb (parts per billion), personal factors, housing characteristics, maintenance medication use and season of nitrogen dioxide sampling.* (Southern New England, 1998 - 2000)

Factors	N (%)	Gas stove (%)	NO ₂ ≥ 20 ppb (%)
All subjects	728	33.8	21.4
Personal factors			
Gender			
Male	458 (62.9)	32.2	20.5
Female	270 (37.1)	31.5	23.0
Age (yrs)			
< 6	471 (64.7)	34.2	21.9
≥ 6	257 (35.3)	33.1	20.6
Ethnicity			
White, Asian, other	490 (67.3)	25.9	11.8
Black	74 (10.2)	33.2	29.7
Hispanic	164 (22.5)	54.9	46.3
Housing characteristics			
Housing type			
Multifamily	242 (33.2)	54.6	45.9
Single family	486 (66.7)	23.5	9.3
Number of rooms in home			
< 6	288 (39.7)	47.2	37.8
≥ 6	438 (60.3)	25.1	10.7
Mold/mildew			
Yes	310 (42.7)	30.3	19.7
No	416 (57.3)	36.3	22.8
Water leaks			
Yes	239 (32.9)	30.1	20.9
No	488 (67.1)	35.4	21.7
Maintenance medication use			
Yes	370 (50.8)	32.7	16.2
No	358 (49.2)	34.9	26.8
Season of NO ₂ sampling			
Nov - Mar	274 (37.6)	33.9	23.0
Apr - Oct	454 (62.4)	33.7	20.5

*Significant ($p < 0.05$, χ^2 tests) differences between factor categories for gas stove use and NO₂ ≥ 20 ppb shown in boldface type.