

Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: Gauderman WJ, Avol E, Gilliland F, et al. The effect of air pollution on lung development from 10 to 18 years of age. *N Engl J Med* 2004;351:1057-67.

TABLE A (ONLINE): BASELINE CHARACTERISTICS FOR ALL STUDY SUBJECTS, AND FOR SUBGROUPS DEFINED BY LENGTH OF FOLLOW-UP

BASELINE CHARACTERISTIC	ALL COHORT MEMBERS (N=1,759)	LENGTH OF FOLLOW-UP		P-VALUE [*]
		< 8 YEARS (N=1,013)	8 YEARS (N=746)	
	%	%	%	
Female sex	49.8	51.1	48.9	0.36
Race [†]				
Asian	4.4	3.4	5.8	
African-American	4.8	5.4	3.9	
Caucasian	65.9	64.6	67.6	
Other	17.5	19.4	15.0	
Mixed	7.4	7.2	7.8	<0.001
Hispanic ethnicity	26.7	27.3	25.9	<0.001
History of Asthma	13.4	12.7	15.0	0.18
Pets in the home	74.5	71.5	78.7	<0.001
Gasstove in the home	77.1	78.0	75.8	0.28
In-utero exposure to maternal smoking	19.1	23.0	13.9	<0.001
ETS exposure at home	21.8	26.9	15.0	<0.001
Parental Education				
Less than high school	14.1	17.4	9.7	
High school	19.5	20.5	18.1	
Some college	44.0	43.9	44.1	
Bachelor's degree	10.4	9.3	11.9	
Post-graduate	12.1	8.9	16.3	<0.001
	Mean (SD)	Mean (SD)	Mean (SD)	
Baseline Pulmonary Function [‡]				
FVC (ml)	2,328 (389)	2,339 (398)	2,313 (376)	0.17
FEV ₁ (ml)	2,018 (326)	2,025 (334)	2,007 (314)	0.27
MMEF (ml/sec)	2,288 (594)	2,294 (608)	2,281 (575)	0.66
Baseline Air Pollution				
O ₃ , 1 hr max (ppb)	66.9 (19.2)	67.2 (19.4)	66.4 (19.0)	0.41
O ₃ , 10am-6pm (ppb)	52.0 (14.6)	52.3 (14.8)	51.6 (14.4)	0.38
NO ₂ (ppb)	22.3 (11.7)	22.2 (11.5)	22.4 (12.0)	0.79
Acid Vapor (ppb)	7.2 (3.2)	7.2 (3.2)	7.2 (3.2)	0.77
PM ₁₀ (ug/m ³)	34.0 (14.2)	34.2 (14.2)	33.8 (14.1)	0.65
PM _{2.5} (ug/m ³)	15.5 (8.3)	15.6 (8.3)	15.4 (8.2)	0.52
Elemental Carbon (ug/m ³)	0.7 (0.4)	0.7 (0.4)	0.7 (0.4)	0.90
Organic Carbon (ug/m ³)	5.1 (2.6)	5.1 (2.6)	5.1 (2.6)	0.88

* p-value for a difference in distribution between the two length-of-follow-up groups, based on chi-squared tests for percentages and t-tests for means

† Race was reported by parents on a baseline questionnaire that offered a list of choices. 'Other' was one of the possible responses to this question; 'Mixed' includes subjects that provided two or more responses

‡ Values are the geometric mean and standard deviation for pulmonary function measures