

Table S3: Associations of asthma, allergic rhinitis, and aeroallergen IgE with FeNO using linear and multinomial logistic regression models

Exposure	Model 1			Model 2			Model 3		
	Linear regression	Logistic regression*		Linear regression	Logistic regression*		Linear regression	Logistic regression*	
	% difference in FeNO (95% CI)	OR (95% CI) 20-≤35 ppb >35 ppb		% difference in FeNO (95% CI)	OR (95% CI) 20-≤35 ppb >35 ppb		% difference in FeNO (95% CI)	OR (95% CI) 20-≤35 ppb >35 ppb	
Asthma vs no asthma**	97 (73, 124)	3 (2, 5)	8 (5, 13)	97 (70, 128)	3 (1, 5)	8 (5, 14)	99 (72, 130)	3 (1, 5)	8 (5, 14)
AR vs. no AR†	48 (32, 66)	2 (1, 3)	3 (2, 5)	45 (28, 65)	2 (1, 3)	3 (2, 5)	46 (28, 66)	2 (1, 3)	3 (2, 5)
Aeroallergen IgE vs. no aeroallergen IgE‡	99 (79, 121)	4 (3, 7)	26 (12, 59)	102 (80, 126)	4 (3, 7)	28 (12, 63)	102 (81, 126)	4 (3, 7)	28 (12, 64)

* <20 ppb as the reference group

** Current asthma defined as ever having an asthma diagnosis plus wheezing in the past year or taking asthma medications in the past month; “no asthma” defined as no asthma diagnosis, no wheezing and no use of asthma medications or wheezing in the past 12 months.

† AR defined as ever having a diagnosis of hay fever or AR; “no AR” with never diagnosis of hay fever or AR

‡ Aeroallergen IgE defined as having any aeroallergen IgE > 0.35 IU/mL; “no aeroallergen IgE” with IgE ≤ 0.35 IU/mL

Model 1. Adjusted for sex and current age and height.

Model 2. Model 1 additionally adjusted for race/ethnicity; maternal education and smoking during pregnancy; median value owner-occupied housing and percent ≥ bachelor’s degree (census tract, mid-childhood); and household income and any smokers at home at early teen visit.

Model 3. Model 2 additionally adjusted for BMI at early teen visit