



FIG E1. Predicted percentage of subjects with an acute care visit in 3 months across cockroach and mouse sensitization and exposure groups. Sensitization and exposure groups using exposure data from bed dust samples are plotted on the *x-axis*. The predicted percentage of subjects with an acute care visit over 3 months is plotted on the *y-axis*. Significant comparisons are marked with *dashed lines* and *P* values.

TABLE E1. Clinical features of asthma across mouse and cockroach sensitization/exposure groups

	Bedroom dust			Bed dust				
	Percent predicted (95% CI)	P value			Percent predicted (95% CI)	P value		
Acute health care visits in 3 mo		vs neither	vs cockroach	vs mouse		vs neither	vs cockroach	vs mouse
Sensitization/exposure group								
Neither	33 (26-40)	—	—	—	34 (28-40)	—	—	—
Cockroach	41 (31-52)	.17	—	—	28 (16-40)	.36	—	—
Mouse	45 (35-55)	.04	.66	—	52 (42-63)	<.01	.02	—
Both	53 (42-64)	<.01	.15	.2	66 (49-82)	<.01	<.01	.10
P value for trend across groups			<.01				<.01	
FENO								
	Predicted (95% CI)	P value			Predicted (95% CI)	P value		
Sensitization/exposure group		vs neither	vs cockroach	vs mouse		vs neither	vs cockroach	vs mouse
Neither	28.2 (24.5-32.4)	—	—	—	30.2 (26.3-33.9)	—	—	—
Cockroach	27.5 (22.9-33.1)	.76	—	—	27.5 (22.4-33.9)	.41	—	—
Mouse	34.7 (29.5-40.7)	.02	.08	—	32.4 (26.9-38.0)	.40	.09	—
Both	33.9 (28.2-40.7)	.07	.17	.74	33.9 (25.7-44.7)	.41	.15	.98
P value for trend across groups			.05				.39	
FEV ₁ /FVC (%)								
	Predicted (95% CI)	P value			Predicted (95% CI)	P value		
Sensitization/exposure group		vs neither	vs cockroach	vs mouse		vs neither	vs cockroach	vs mouse
Neither	80.1 (78.6-81.6)	—	—	—	81.2 (79.8-82.6)	—	—	—
Cockroach	81.8 (79.8-83.8)	.09	—	—	81.7 (79.4-84.1)	.62	—	—
Mouse	80.6 (78.8-82.5)	.58	.15	—	80.5 (78.6-82.4)	.46	.77	—
Both	80.5 (78.5-82.4)	.73	.03	.95	77.2 (74.2-80.3)	.01	.02	.73
P value for trend across groups			.57				.10	
Bronchodilator reversibility								
	Percent predicted (95% CI)	P value			Percent predicted (95% CI)	P value		
Sensitization/exposure group		vs neither	vs cockroach	vs mouse		vs neither	vs cockroach	vs mouse
Neither	22 (15-29)	—	—	—	21 (15-28)	—	—	—
Cockroach	23 (13-33)	.85	—	—	13 (3-23)	.17	—	—
Mouse	20 (12-29)	.75	.78	—	30 (19-41)	.11	.03	—
Both	37 (25-49)	.02	.07	.01	38 (20-56)	.05	.03	.69
P value for trend across groups			.06				.04	

The interaction between sensitization and exposure to mouse allergen and sensitization and exposure to cockroach allergen was evaluated by using a model incorporating a single categorical variable that captured the 4 different combinations related to cockroach and mouse sensitization and exposure: subjects were assigned a value of 0 if they were not sensitized and exposed to either mouse or cockroach, a value of 1 if they were sensitized and exposed to cockroach but not mouse, a value of 2 if they were sensitized and exposed to mouse but not cockroach, and a value of 3 if they were sensitized and exposed to both mouse and cockroach. Adjusted model includes age, sex, total IgE level, and type of insurance.