

Supplemental Material

Implementation of Evidence-based Asthma Interventions in Post-Katrina New Orleans: The Head-off Environmental Asthma in Louisiana (HEAL) Study

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Supplemental Table 1 – Baseline characteristics by timing of the first contact with an asthma counselor

	Contact with asthma counselor Before 6 Months		<i>p</i>
	Yes (N=80)	No (N=73)	
Symptoms	6.6 ± 5.0	6.0 ± 4.7	0.44
Parish			0.07
Orleans	48/80 (60%)	54/73 (74%)	
Jefferson	32/80 (40%)	19/73 (26%)	
Enrollment Season			<0.001
Spring 2007	5/80 (6%)	11/73 (15%)	
Summer 2007	13/80 (16%)	31/73 (42%)	
Fall 2007	26/80 (33%)	24/73 (33%)	
Winter 2007	29/80 (36%)	4/73 (6%)	
Spring 2008	7/80 (9%)	3/73 (4%)	
Race/ethnicity			0.33
African American	49/80 (61%)	51/73 (70%)	
Hispanic	5/80 (6%)	6/73 (8%)	
Other	26/80 (33%)	16/73 (22%)	
Income <\$15,000	18/74 (24%)	17/68 (25%)	0.93
Gender - Female	34/80 (43%)	36/73 (49%)	0.40
Lung function			
FEV1 % predicted	91.2 ± 86.0	90.2 ± 83.9	0.81
FEV1/FVC	78.0 ± 11.2	78.8 ± 8.7	0.74
Taking Inhaled Corticosteroids	46/80 (58%)	41/73 (56%)	0.87
Mold levels (spores/m ³)			
Outdoor total	2322 (378)	6475 (1235)	<0.001
Indoor total	388 (45)	618 (105)	0.03
IgE (serum)			
Total IgE (kU/L)	208 (37)	207 (36)	0.99
Positive Mold-specific IgE	34/77 (44%)	31/69 (45%)	0.93
Allergens in dust			
<i>Alternaria</i> >10 µg/g	52/80 (65%)	42/72 (58%)	0.40
Detectable roach	14/80 (18%)	17/72 (24%)	0.35
Detectable dust mite	29/80 (36%)	24/72 (33%)	0.71
Detectable mouse	45/80 (56%)	47/72 (65%)	0.26
Skin Test Result			
<i>Alternaria</i>	42/80 (53%)	39/71 (55%)	0.77
Roach	411/80 (51%)	33/71 (46%)	0.56
Dust Mite	50/80 (63%)	50/71 (70%)	0.30
Mouse	20/80 (25%)	19/71 (27%)	0.81

Values are counts (percentages), mean ± standard deviation, or geometric mean (geometric standard deviation).

Supplemental Table 2 –Symptoms at 6 months, exposures and allergic characteristics by timing of the first contact with an asthma counselor

	Contact with Asthma Counselor Before 6 Months				Difference	<i>p</i>
	N	Yes Mean (SE)	N	No Mean (SE)		
Maximum Symptom Days	80	2.25 (0.4)	73	4.56 (0.5)	-2.31	<0.001
Mold levels (spores/m ³)						
Outdoor total	86	2166 (365.2)	49	1818 (412.0)	-348	0.55
Indoor total	87	456 (97.4)	49	320 (97.4)	-136	
Allergens in dust						
<i>Alternaria</i> >10 µg/g	83	26.7% (22.2)	47	66.3% (30.8)	-39.6%	0.30
Detectable Roach	83	44.5% (5.5)	47	31.9% (6.8)	-12.6%	0.16
Detectable Dust Mite	83	39.7% (5.5)	47	28.1% (6.7)	-11.6%	0.20
Detectable Mouse	83	47.5% (5.8)	47	65.8% (7.3)	+18.3%	0.06

Values in each row are adjusted for baseline levels of the given outcome.

Supplemental Table 3 – Differences in Maximum Symptom Days (MSD) according to intervention status at 6 months and baseline characteristics

Baseline Status	Contact with Asthma Counselor Before 6 Months				Difference Mean	p	Interaction p
	N	No Mean	N	Yes Mean			
Parish							
Jefferson	19	2.26	32	2.05	-0.21 (-2.4, 1.9)	0.84	0.04
Orleans	54	5.38	48	2.38	-3.00 (-4.5, -1.5)	<0.0001	
Taking Inhaled Corticosteroids							
No	32	3.44	34	1.70	-1.74 (-3.6, 0.1)	0.06	0.41
Yes	41	5.43	46	2.66	-2.76 (-4.4, -1.2)	<0.001	
Outdoor Mold							
<1000 spores/m ³	4	7.90	26	2.61	-5.26 (-9.3, -1.2)	0.01	0.17
≥1000 spores/m ³	69	4.36	54	2.08	-2.28 (-3.7, -0.9)	0.001	
Bedroom Mold							
<1000 spores/m ³	51	4.29	66	2.26	-2.03 (-3.5, -0.6)	0.005	0.53
≥1000 spores/m ³	22	5.18	14	2.20	-2.98 (-5.6, -0.3)	0.03	
Total IgE							
<100 KU/L	18	4.64	24	2.49	-2.15 (-4.6, 0.3)	0.08	0.88
≥100 KU/L	51	4.53	51	2.16	-2.37 (-3.9, -0.8)	0.003	
Detectable Mold IgE							
No	38	5.27	43	2.22	-3.06 (-4.8, -1.4)	<0.001	0.19
Yes	31	3.66	34	2.32	-1.34 (-3.2, 0.6)	0.17	
<i>Alternaria</i>							
<10 µg/g	30	4.62	28	2.52	-2.11 (-4.1, -0.1)	0.04	0.85
≥10 µg/g	42	4.47	52	2.12	-2.35 (-3.9, -0.8)	0.004	
Detectable roach							
No	55	4.49	66	2.09	-2.40 (-3.8, -1.0)	<0.001	0.61
Yes	17	4.67	14	3.06	-1.61 (-4.4, 1.2)	0.25	
Detectable dust mite							
No	48	4.62	51	2.76	-1.86 (-3.4, -0.3)	0.02	0.39
Yes	24	4.36	29	1.37	-2.99 (-5.1, -0.9)	0.006	
Detectable mouse							
No	25	3.55	35	2.22	-1.34 (-3.3, 0.6)	0.19	0.27
Yes	47	5.05	45	2.29	-2.76 (-4.3, -1.2)	<0.001	