Table SI. Comparison between single and multiple-allergen sensitization.

| Item | Single | Multiple-allergen[a] | | | | | | |
		2	3	4	5	6	7	≥8
Number of patients	241	104	43	33	28	18	15	42
Positive rate	22.1%	9.5%	3.9%	3.0%	2.6%	1.6%	1.4%	3.8%

[a]Patients with multiple-allergen sensitization accounted for 25.9% of the study population.

Table SII. Allergen sensitization in male and female participants.

Allergen	Male (N=474)	Female (N=617)	P-value	OR (95%CI)
Total patients	253 (53.4)	271 (43.9)	<0.01	1.462 (1.149-1.859)
D. pteronyssinus	163 (34.4)	166 (26.9)	<0.01	1.424 (1.098-1.847)
House dust	24 (5.1)	24 (3.9)	0.349	1.381 (0.739-2.351)
Mulberry	55 (11.6)	27 (4.4)	<0.01	2.868 (1.780-4.623)
Cat dander	12 (2.5)	8 (1.3)	0.172	1.977 (0.802-4.877)
Dog hair	35 (7.4)	28 (4.5)	0.046	1.677 (1.005-2.799)
Cockroach	71 (15.0)	64 (10.4)	0.022	1.522 (1.061-2.185)
Amaranth	62 (13.1)	35 (5.7)	<0.01	2.502 (1.623-3.859)
Mold mix	25 (5.3)	43 (7.0)	0.251	0.743 (0.447-1.235)
Grass mix	35 (7.4)	66 (10.7)	0.073	0.666 (0.434-1.022)
Tree pollen mix	72 (15.2)	48 (7.8)	<0.01	2.123 (1.442-3.126)
Egg	5 (1.1)	5 (0.8)	0.754	1.305 (0.376-4.534)
Cow's milk	31 (6.5)	22 (3.6)	0.032	1.893 (1.081-3.313)
Shrimp	36 (7.6)	36 (5.8)	0.269	1.326 (0.822-2.140)
Beef	4 (0.8)	6 (1.0)	1.000	0.867 (0.243-3.089)
Cowry	5 (1.1)	0 (0.0)	0.015	-
Crab	35 (7.4)	34 (5.5)	0.212	1.367 (0.839-2.227)
Mango	41 (8.7)	25 (4.1)	<0.01	2.242 (1.343-3.743)
Cashew nut	52 (11.0)	38 (6.2)	<0.01	1.878 (1.213-2.906)
Pineapple	13 (2.7)	11 (1.8)	0.304	1.554 (0.690-3.499)

Values are expressed as n (%). OR, odds ratio.

Table SIII. Allergen sensitization in different age groups.

| Allergen | sIgE-positive patients in age groups | | | | | | | χ^2 | P-value |
	0-3 (n=54)	4-12 (n=150)	13-18 (n=103)	19-25 (n=173)	26-40 (n=338)	41-60 (n=233)	>60 (n=40)		
D. pteronyssinus	3 (5.6)	34 (22.7)	37 (35.9)	71 (41.0)	115 (34.0)	61 (26.2)	8 (20.0)	36.976	<0.01
House dust	1 (1.9)	8 (5.3)	5 (4.9)	10 (5.8)	13 (3.9)	8 (3.4)	3 (7.5)	3.656	0.723
Mulberry	0 (0.0)	4 (2.7)	6 (5.8)	15 (8.7)	33 (9.8)	20 (8.6)	3 (7.5)	13.191	0.040
Cat dander	8 (14.8)	3 (2.0)	3 (2.9)	1 (0.6)	3 (0.9)	1 (0.4)	1 (2.5)	57.104	<0.01
Dog hair	10 (18.5)	13 (8.7)	7 (6.8)	10 (5.8)	12 (3.6)	10 (4.3)	1 (2.5)	23.425	<0.01
Cockroach	0 (0.0)	12 (8.0)	14 (13.6)	32 (18.5)	45 (13.3)	29 (12.5)	3 (7.5)	17.548	<0.01
Amaranth	0 (0.0)	5 (3.3)	7 (6.8)	20 (11.6)	35 (10.4)	27 (11.6)	3 (7.5)	16.152	<0.01
Mold mix	3 (5.6)	12 (8.0)	6 (5.8)	7 (4.1)	13 (3.9)	19 (8.2)	8 (20.0)	20.027	<0.01
Grass mix	0 (0.0)	5 (3.3)	9 (8.7)	22 (12.7)	40 (11.8)	21 (9.0)	3 (7.5)	17.251	<0.01
Tree pollen mix	1 (1.9)	9 (6.0)	13 (12.6)	21 (12.1)	46 (13.6)	25 (10.7)	5 (12.5)	11.413	0.076
Egg	4 (7.4)	3 (2.0)	1 (1.0)	1 (0.6)	1 (0.3)	0 (0.0)	0 (0.0)	31.170	<0.01
Cow's milk	17 (31.5)	11 (7.3)	5 (4.9)	12 (6.9)	6 (1.8)	1 (0.4)	1 (2.5)	103.738	<0.01
Shrimp	1 (1.9)	6 (4.0)	6 (5.8)	18 (10.4)	25 (7.4)	17 (7.3)	0 (0.0)	10.985	0.089
Beef	0 (0.0)	3 (2.0)	1 (1.0)	1 (0.6)	4 (1.2)	1 (0.4)	0 (0.0)	3.904	0.690
Cowry	1 (1.9)	1 (0.7)	1 (1.0)	0 (0.0)	2 (0.6)	0 (0.0)	0 (0.0)	5.220	0.516
Crab	1 (1.9)	4 (2.7)	6 (5.8)	17 (9.8)	24 (7.1)	16 (6.9)	1 (2.5)	13.660	0.034
Mango	0 (0.0)	4 (2.7)	6 (5.8)	14 (8.1)	25 (7.4)	14 (6.0)	3 (7.5)	9.005	0.173
Cashew nut	1 (1.9)	5 (3.3)	5 (4.9)	17 (9.8)	37 (11.0)	21 (9.0)	4 (10.0)	13.437	0.037
Pineapple	1 (1.9)	2 (1.3)	0 (0.0)	4 (2.3)	10 (3.0)	5 (2.2)	2 (5.0)	5.246	0.513

Values are expressed as n (%). sIgE, specific immunoglobulin E.