

Table S1. Factors associated with pollen allergy among allergy rhinitis of children in mainland China

Predictors	Frequency	Bivariate		Multivariable	
	N (%)	OR (95% CI)	<i>P</i> -value	aOR (95% CI)	<i>P</i> -value
Region					
East	193 (26.22)	1			
West	367 (49.86)	6.51 (4.39,9.82)	<0.001	4.44 (2.55,7.83)	<0.001
North	71 (9.65)	9.55 (5.19,18.21)	<0.001	5.95 (2.95,12.32)	<0.001
South	105 (14.27)	0.25 (0.10,0.54)	0.001	0.30 (0.11,0.70)	0.009
Age					
0-5	222 (30.16)	1			
6-17	514 (69.84)	1.78 (1.29,2.47)	<0.001	1.95 (1.31,2.90)	0.001
Sex					
Female	248 (33.70)	1			
Male	488 (66.30)	1.13 (0.83,1.53)	0.443		
Ethnic					
Han	677 (91.98)	1			
other	59 (8.01)	4.14 (2.29,7.95)	<0.001	2.23 (1.14,4.62)	0.023
Birth mode					
Vaginal	412 (55.99)				
Caesarean section	324 (44.02)	0.98 (0.73,1.31)	0.868		
Smoker					
Nonsmoker at home	374 (50.82)				
Smoker at home	362 (49.18)	1.34 (1.00,1.79)	0.050	1.13 (0.79,1.61)	0.501
Paternal allergy					
No	448 (60.87)	1			
Yes	288 (39.13)	0.88 (0.66,1.19)	0.300		
Maternal allergy					
No	467 (63.45)	1			
Yes	269 (36.55)	1.08 (0.80,1.46)	0.605		
History of pollen exposure					
No	529 (71.88)	1			
Yes	207 (28.13)	2.54 (1.83,3.55)	<0.001	2.10 (1.41,3.16)	<0.001
House age					
~2010	408 (55.43)				
2011~2015	217 (29.48)	1.14 (0.82,1.59)	0.424	1.14 (0.76,1.73)	0.521
2016~2021	111 (15.08)	1.39 (0.91,2.11)	0.128	1.16 (0.70,1.95)	0.563
Floor					
<9	477 (64.81)	1			
≥9	259 (35.19)	0.91 (0.67,1.23)	0.540		
Living area					
Rural area	198 (26.90)	1			
Urban area	538 (73.10)	1.51 (1.09,2.12)	0.014	1.31 (0.86, 2.01)	0.212

cockroach					
No	527 (71.60)	1			
Yes	209 (28.40)	0.28 (0.20,0.40)	<0.001	0.67 (0.42,1.06)	0.088
Air conditioner					
No	272 (36.96)	1			
Yes	464 (63.04)	0.27 (0.20,0.37)	<0.001	0.88 (0.56,1.39)	0.575
Material of living room floor					
Tile or cement	524 (71.20)	1			
Wood material	113 (15.35)	1.05 (0.70,1.58)	0.803	1.14 (0.69,1.88)	0.603
Composite material	44 (5.98)	0.83 (0.44,1.53)	0.548	0.79 (0.37,1.67)	0.533
Carpet	55 (7.47)	1.54 (0.88,2.72)	0.131	2.21 (1.12,4.42)	0.023
Material of pillow					
Synthetic materials	275 (37.36)	1			
Cotton	124 (16.85)	1.13 (0.73, 1.73)	0.588	1.58 (0.92,2.73)	0.101
Sponge	101 (13.72)	0.52 (0.31, 0.84)	0.010	0.63 (0.34,1.16)	0.141
Plant	187 (25.41)	3.39 (2.29, 5.06)	<0.001	1.74 (1.06,2.85)	0.028
Feather	49 (6.66)	0.51 (0.25, 0.98)	0.052	0.60 (0.26,1.36)	0.229
Material of quilt					
Synthetic materials	161 (21.88)	1			
Cotton	420 (57.07)	1.09 (0.76, 1.58)	0.625	1.43 (0.88,2.33)	0.150
Blanket	24 (3.26)	0.53 (0.21, 1.28)	0.171	1.67 (0.52,5.17)	0.380
Other material	131 (17.80)	0.50 (0.31, 0.81)	0.005	1.31 (0.70,2.47)	0.403

Notes: significant difference of Bivariate regression analysis: $P < 0.15$

significant difference of multiple regression analysis: $P < 0.05$.

OR: odds ratio

aOR: adjusted odds ratio