

Supplementary Information

Exposure to tobacco smoke and childhood rhinitis: a population-based study

Tsung-Chieh Yao, MD, PhD^{1,2,3}; Su-Wei Chang, PhD⁴; Wei-Chiao Chang, PhD⁵; Ming-Han Tsai, MD, PhD^{3,6}; Sui-Ling Liao, MD^{3,6}; Man-Chin Hua, MD^{3,6}; Shen-Hao Lai, MD^{3,7}; Kuo-Wei Yeh, MD^{1,3}; Yu-Lun Tseng, BS^{1,3}; Wan-Chen Lin, MS^{1,3}; Hui-Ju Tsai, MPH, PhD^{8,9,10}; Jing-Long Huang, MD^{1,3}.

¹Division of Allergy, Asthma, and Rheumatology, Department of Pediatrics, Chang Gung Memorial Hospital and Chang Gung University College of Medicine, Taoyuan, Taiwan

²Chang Gung Immunology Consortium, Chang Gung Memorial Hospital and Chang Gung University College of Medicine, Taoyuan, Taiwan

³Community Medicine Research Center, Chang Gung Memorial Hospital at Keelung, Keelung, Taiwan

⁴Clinical Informatics and Medical Statistics Research Center, Chang Gung University College of Medicine, Taoyuan, Taiwan

⁵Department of Clinical Pharmacy, College of Pharmacy, Taipei Medical University, Taipei, Taiwan

⁶Department of Pediatrics, Chang Gung Memorial Hospital at Keelung, Keelung, Taiwan

⁷Division of Pediatric Pulmonology, Department of Pediatrics, Chang Gung Memorial Hospital, Taoyuan, Taiwan

⁸Division of Biostatistics and Bioinformatics, Institutes of Population Health Sciences, National Health Research Institutes, Miaoli, Taiwan

⁹Department of Pediatrics, Feinberg School of Medicine, Northwestern University, Chicago, IL, USA

¹⁰Department of Public Health, China Medical University, Taichung, Taiwan

Supplemental Table 1. Association of serum cotinine levels (in tertiles) with rhinitis in 1,315 study participants*.

	No. (%)	Crude OR (95% CI)	<i>P</i>	Adjusted OR (95% CI) [†]	<i>P</i> [†]
Rhinitis ever	566 (43.6)				
1st tertile	189 (33.4)	Ref		Ref	
2nd tertile	172 (30.4)	1.03 (0.78-1.35)	0.84	1.02 (0.78-1.34)	0.90
3rd tertile	205 (36.2)	1.18 (0.91-1.54)	0.21	1.26 (0.95-1.67)	0.10
Current rhinitis	524 (40.8)				
1st tertile	175 (33.4)	Ref		Ref	
2nd tertile	157 (30.0)	1.00 (0.76-1.32)	0.99	0.99 (0.75-1.31)	0.96
3rd tertile	192 (36.6)	1.23 (0.94-1.60)	0.13	1.33 (1.01-1.77)	0.04
Physician-diagnosed rhinitis	481 (37.6)				
1st tertile	154 (32.0)	Ref		Ref	
2nd tertile	150 (31.2)	1.14 (0.86-1.51)	0.35	1.14 (0.86-1.52)	0.37
3rd tertile	177 (36.8)	1.29 (0.98-1.70)	0.07	1.32 (0.99-1.76)	0.06

OR, odds ratio; CI, confidence interval.

*Serum cotinine levels were treated as a categorical variable (in tertiles). *P*-values less than 0.05 are in bold.

[†]Adjusted covariates included age, gender, and body mass index.