

Supplementary Table 1. The concentrations of each ambient air pollutant and the prevalence of each ENT disease for 16 administrative areas in South Korea

Area	Mean concentration					Prevalence (%)				
	SO ₂ (ppm)	NO ₂ (ppm)	O ₃ (ppm)	CO (ppm)	PM ₁₀ (µg/m ³)	Chronic otitis media	Chronic rhinosinusitis	Allergic rhinitis	Septum deviation	Benign laryngeal disease
Seoul	0.002±0.00	0.035±0.00	0.021±0.00	0.6±0.08	54±1.97	3	6.85	27.33	50.59	2.14
Busan	0.005±0.00	0.021±0.00	0.027±0.00	0.4±0.11	49±7.51	2.91	6.63	18	43.74	1.44
Daegu	0.005±0.00	0.024±0.00	0.023±0.00	0.5±0.07	48±6.71	1.76	9.56	24.94	39.82	1.34
Incheon	0.007±0.00	0.03±0.00	0.024±0.00	0.6±0.10	60±6.08	2.86	6.86	20.37	47.32	1.91
Gwangju	0.004±0.00	0.021±0.00	0.026±0.00	0.5±0.17	46±9.28	1.18	1.49	21.56	17.6	1.6
Daejeon	0.005±0.00	0.022±0.00	0.023±0.00	0.5±0.07	43±9.28	3.98	7.12	36.42	35.47	0.57
Ulsan	0.008±0.00	0.022±0.00	0.024±0.00	0.5±0.08	49±5.24	3.1	2.17	23.57	33.48	1.42
Gyeonggi	0.006±0.00	0.03±0.00	0.022±0.00	0.6±0.11	60±7.09	2.76	6.6	30.08	49.9	4.57
Gangwon	0.005±0.00	0.019±0.00	0.027±0.00	0.6±0.11	53±8.98	2.51	8.89	25.53	57.42	0.26
Chungbuk	0.006±0.00	0.021±0.00	0.024±0.00	0.7±0.11	61±6.27	3.19	2.85	17.83	52.91	0
Chungnam	0.004±0.00	0.017±0.00	0.027±0.00	0.6±0.15	47±2.74	3.89	2.93	26.79	47.6	3.9
Jeonbuk	0.005±0.00	0.016±0.00	0.025±0.00	0.5±0.07	53±4.73	4.34	4.89	19.33	50.09	2.99
Jeonnam	0.007±0.00	0.018±0.00	0.031±0.00	0.5±0.10	46±7.06	2.86	1.76	18.65	20.9	0.68
Gyeongbuk	0.005±0.00	0.018±0.00	0.026±0.00	0.5±0.20	49±7.52	5.05	7.06	25.53	44.49	0.68
Gyeongnam	0.004±0.00	0.021±0.00	0.028±0.00	0.4±0.09	46±6.01	4.7	4.52	23.46	22.02	3.07
Jeju	0.002±0.00	0.011±0.00	0.04±0.00	0.3±0.10	42±2.36	4.58	8.15	28.87	54.96	1.17

Values are presented as mean±standard deviation.

SO₂, sulfur dioxide; NO₂, nitrogen dioxide; O₃, ozone; CO, carbon monoxide; PM₁₀, particulate matter ≤10 µm in aerodynamic diameter.