

Supplemental Material

The Air Quality Health Index and Asthma Morbidity: A Population-Based Study

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Supplemental Material Table S1. Mean air pollutant measures by year, season and regions in Ontario

Covariates	NO ₂ (ppb)	O ₃ (ppb)	PM _{2.5} (µg/m ³)
Year			
2003	28.55 ± 13.51	40.03 ± 15.21	14.62 ± 9.78
2004	26.72 ± 12.16	37.12 ± 12.74	13.61 ± 9.74
2005	27.07 ± 13.49	40.93 ± 16.18	14.48 ± 11.19
2006	22.12 ± 11.87	38.20 ± 14.28	12.43 ± 8.50
2003 to 2006	26.05 ± 12.99	39.07 ± 14.73	13.78 ± 9.88
Correlation Coefficients^a			
NO ₂ and O ₃	-0.1146 (p=0.0004)		
NO ₂ and PM _{2.5}	0.0969 (p=0.0026)		
O ₃ and PM _{2.5}	0.6500 (p<0.0001)		
Season^b			
Spring (Mar-May)	28.97 ± 10.86	44.33 ± 9.86	12.49 ± 8.23
Summer (Jun-Aug)	21.71 ± 10.86	49.61 ± 16.26	18.55 ± 12.06
Fall (Sep-Nov)	23.69 ± 10.86	32.32 ± 13.24	13.21 ± 9.83
Winter (Dec-Feb)	29.88 ± 13.23	29.76 ± 7.68	10.86 ± 6.87
Region^b			
North	23.34 ± 13.60	38.29 ± 11.90	11.16 ± 8.13
South	24.37 ± 11.59	39.65 ± 14.98	14.85 ± 10.26
Central	30.64 ± 13.24	39.50 ± 15.84	14.94 ± 10.66
East	23.42 ± 12.56	38.17 ± 14.72	13.65 ± 9.81
West	25.58 ± 10.83	40.13 ± 15.87	14.49 ± 9.60

^a Correlation coefficients were based on Pearson Correlation analysis; p stands for p-value.

^b Data stratified by season and region are based on data averaged from 2003-2006.