

**Table S1.** Maximum Air Quality Limits for Mexico and WHO (2021) Guideline Values

Pollutant	WHO (2021) Guideline Value	Mexico Maximum Limits
NO <sub>2</sub> annual mean	10 µg/m <sup>3</sup>	
NO <sub>2</sub> 1 hour mean	25 µg/m <sup>3</sup> <i>a</i>	400 µg/m <sup>3</sup>
PM <sub>2.5</sub> annual mean	5 µg/m <sup>3</sup>	12 µg/m <sup>3</sup>
PM <sub>2.5</sub> 24 hour mean	15 µg/m <sup>3</sup> <i>a</i>	45 µg/m <sup>3</sup>
PM <sub>10</sub> annual mean	15 µg/m <sup>3</sup>	40 µg/m <sup>3</sup>
PM <sub>10</sub> 24 hour mean	45 µg/m <sup>3</sup> <i>a</i>	75 µg/m <sup>3</sup>
O <sub>3</sub> 8 hour mean	100 µg/m <sup>3</sup> <i>a</i>	137 µg/m <sup>3</sup>
SO <sub>2</sub> 24 hour mean	40 µg/m <sup>3</sup>	290 µg/m <sup>3</sup>
SO <sub>2</sub> annual mean		65 µg/m <sup>3</sup>
CO 24 hour mean	7 µg/m <sup>3</sup>	
CO 8 hour mean		12.5 mg/m <sup>3</sup>

*a* not to be exceeded more than 3-4 days per year

WHO 2021 Guidelines <https://apps.who.int/iris/bitstream/handle/10665/345329/9789240034228-eng.pdf?sequence=1&isAllowed=y>

Mexico Ambient Air Quality Standards – Secretaría de Salud <https://www.gob.mx/cofepris/acciones-y-programas/4-normas-oficiales-mexicanas-nom-de-calidad-del-aire-ambiente>

**Table S2.** Beta coefficients and standard errors for asthma related hospital admissions for an increase in pollutants, by age group and lag structure, adjusted for average daily temperature, average daily humidity, average daily wind speed, day of week, national holiday and season

	Lag Days	PM <sub>10</sub>			PM <sub>2.5</sub>			NO <sub>2</sub>		
		Beta	SE	AIC	Beta	SE	AIC	Beta	SE	AIC
<b>0-4yrs</b>	0	-0.0002	0.0016	5923.8	-0.0018	0.0024	5923.3	0.0018	0.0027	5923.4
	1	-0.0007	0.0014	5923.5	-0.0021	0.0020	5922.8	0.0003	0.0017	5923.8
	2	-0.0018	0.0013	5921.9	-0.0030	0.0019	5921.4	-0.0017	0.0016	5922.8
	3	-0.0017	0.0013	5922.0	-0.0023	0.0019	5922.3	-0.0029	0.0016	5920.5
	4	-0.0027	0.0012	5919.2	-0.0025	0.0019	5922.2	-0.0030	0.0016	5920.1
	5	-0.0039	0.0012	5913.6	-0.0036	0.0019	5920.2	-0.0058	0.0016	<b>5910.5</b>
	6	-0.0043	0.0012	<b>5912.0</b>	-0.0042	0.0019	<b>5919.0</b>	-0.0057	0.0016	5910.9
	7	-0.0028	0.0012	5918.8	-0.0018	0.0019	5923.0	-0.0025	0.0016	5921.4
<b>18+yrs</b>	0	0.0024	0.0009	8009.3	0.0028	0.0013	8012.5	0.0014	0.0014	8016.4
	1	0.0038	0.0007	<b>7989.5</b>	0.0051	0.0010	7993.5	0.0023	0.0009	8011.0
	2	0.0036	0.0007	7990.3	0.0051	0.0010	<b>7991.4</b>	0.0026	0.0009	8008.2
	3	0.0026	0.0007	8002.7	0.0042	0.0010	7999.3	0.0018	0.0009	8013.1
	4	0.0029	0.0007	7999.0	0.0040	0.0010	8001.7	0.0022	0.0009	8011.0
	5	0.0032	0.0007	7993.7	0.0045	0.0010	7997.1	0.0035	0.0009	8001.0
	6	0.0020	0.0007	8008.2	0.0027	0.0010	8010.5	0.0035	0.0009	<b>8000.8</b>
	7	0.0017	0.0007	8011.1	0.0022	0.0010	8012.7	0.0031	0.0009	8005.2

AIC=Akaike Information Criterion