

Supplementary

Outdoor air pollution and hormone-assessed pubertal development in children: Results from the GINIplus and LISA birth cohorts

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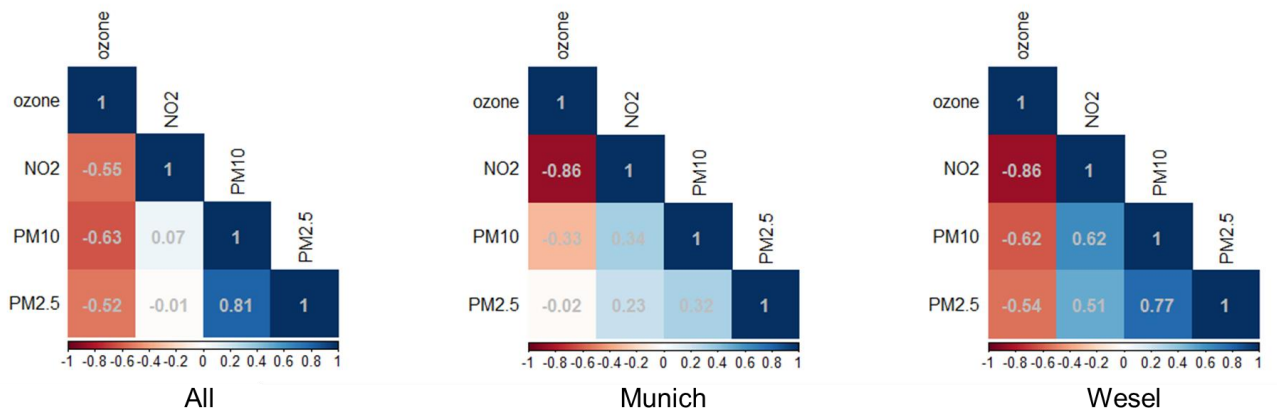


Figure S1. Heatmap with Spearman correlation coefficients on relationships between pollutants

Table S1. Associations between pollutants and sex hormones from two-pollutant models

Sex	Area	Pollutant	Pollutant 1 Adjusted OR (95% CI)	p-value	Pollutant 2 Adjusted OR (95% CI)	p-value
Female	All	PM ₁₀ + Ozone	0.792 (0.311, 2.016)	0.624	0.863 (0.560, 1.330)	0.505
		PM _{2.5} + Ozone	0.141 (0.019, 1.045)	0.055	0.844 (0.564, 1.263)	0.410
		PM ₁₀ + NO ₂	0.980 (0.382, 2.511)	0.966	0.895 (0.561, 1.429)	0.643
		PM _{2.5} + NO ₂	0.161 (0.020, 1.279)	0.084	1.009 (0.640, 1.590)	0.968
	Munich	PM ₁₀ + Ozone	0.681 (0.234, 1.977)	0.479	0.882 (0.547, 1.423)	0.607
		PM _{2.5} + Ozone	0.024 (0.002, 0.285)	0.003	0.886 (0.564, 1.389)	0.598
		PM ₁₀ + NO ₂	0.915 (0.314, 2.668)	0.871	0.734 (0.421, 1.282)	0.278
		PM _{2.5} + NO ₂	0.030 (0.002, 0.380)	0.007	0.863 (0.500, 1.490)	0.597
	Wesel	PM ₁₀ + Ozone	0.393 (0.029, 5.301)	0.481	0.487 (0.128, 1.857)	0.292
		PM _{2.5} + Ozone	0.477 (0.005, 4.622)	0.751	0.571 (0.157, 2.083)	0.396
		PM ₁₀ + NO ₂	0.603 (0.047, 7.778)	0.698	1.333 (0.449, 3.955)	0.605
		PM _{2.5} + NO ₂	0.900 (0.010, 8.164)	0.963	1.204 (0.417, 3.474)	0.731
Male	All	PM ₁₀ + Ozone	0.669 (0.292, 1.153)	0.341	0.771 (0.516, 1.149)	0.201
		PM _{2.5} + Ozone	0.930 (0.131, 6.615)	0.942	0.828 (0.569, 1.206)	0.325
		PM ₁₀ + NO ₂	0.708 (0.311, 1.615)	0.416	1.233 (0.798, 1.901)	0.344
		PM _{2.5} + NO ₂	0.875 (0.114, 6.701)	0.898	1.162 (0.759, 1.779)	0.489
	Munich	PM ₁₀ + Ozone	0.719 (0.301, 1.714)	0.456	0.778 (0.511, 1.182)	0.238
		PM _{2.5} + Ozone	0.647 (0.066, 6.390)	0.710	0.817 (0.550, 1.121)	0.318
		PM ₁₀ + NO ₂	0.751 (0.317, 1.776)	0.514	1.274 (0.781, 2.080)	0.332
		PM _{2.5} + NO ₂	0.554 (0.053, 5.746)	0.621	1.240 (0.770, 2.000)	0.376
	Wesel	PM ₁₀ + Ozone	0.448 (0.021, 9.724)	0.609	0.541 (0.119, 2.456)	0.426
		PM _{2.5} + Ozone	4.631 (0.030, 721.163)	0.552	0.920 (0.209, 4.054)	0.912
		PM ₁₀ + NO ₂	0.630 (0.026, 14.982)	0.775	0.364 (0.042, 3.191)	0.362
		PM _{2.5} + NO ₂	0.314 (0.037, 2.654)	0.286	2.525 (0.015, 4.124)	0.334

Note:

Abbreviation: CI, confidence interval; OR, odds ratio;

1. ORs and 95% CIs are scaled by an increase of 10 µg/m³ of pollutants.

2. All estimates were adjusted for the exact age, sex, body mass index, time spent outside and in front of a screen, physical activity level, season and time of the blood sampling, household income, and other variables listed in Table 1, as well as the co-pollutant.