

Supplemental Table 3. Percent change in liver enzyme levels with an interquartile range increase in the concentrations of PM_{2.5}, NO₂, and O₃, stratified by physical activity and alcohol drinking¹

Pollutant	n	AST			ALT			γ-GTP			
		Estimate	95% CI	p for interaction	Estimate	95% CI	p for interaction	Estimate	95% CI	p for interaction	
Physical activity											
≥1/wk	PM _{2.5}	330	0.6	-2.1, 3.4	0.04	3	-0.1, 6.6	0.50	5.8	1.1, 10.5	0.48
	NO ₂	327	3.1	-0.1, 6.3	0.86	3.9	0.1, 7.7	0.49	-0.3	-5.7, 5.1	0.20
	O ₃	339	-0.4	-4.7, 4.0	0.07	0.04	-4.4, 4.5	0.08	4.2	-2.0, 10.5	0.53
<1/wk	PM _{2.5}	197	5.4	2.3, 8.5		2.6	-2.2, 7.4		3.6	-1.5, 8.7	
	NO ₂	197	4.1	-0.02, 8.2		4.1	-1.3, 9.4		-4.7	-10.9, 1.5	
	O ₃	199	5.3	0.2, 10.4		6	-0.2, 12.2		6.4	-1.3, 14.1	
Alcohol drinking											
No	PM _{2.5}	405	2.5	0.1, 4.8	0.53	3.7	0.5, 6.9	0.50	2.8	-0.1, 6.4	0.008
	NO ₂	402	5	2.1, 7.8	0.51	5.6	2.2, 9.1	0.22	-1.6	-5.9, 2.7	0.78
	O ₃	415	1.8	-1.9, 5.6	0.20	-0.3	-4.3, 3.7	0.77	1.5	-3.7, 6.6	0.69
<1/wk	PM _{2.5}	54	4.8	-0.1, 10.6		2.8	-5.4, 11.0		7.6	-4.0, 19.1	
	NO ₂	54	-0.3	-7.2, 6.7		-3.3	-11.6, 5.0		-2.2	-16.5, 12.1	
	O ₃	55	4.1	-5.9, 14.2		10.4	-3.1, 23.9		10.1	-6.3, 26.3	
≥1/wk	PM _{2.5}	64	4.2	-2.0, 10.4		1	-11.5, 13.4		20	6.3, 33.8	
	NO ₂	64	-0.9	-8.4, 6.5		4.8	-6.4, 16.1		-10.5	-26.5, 5.5	
	O ₃	65	-7.3	-17.9, 3.2		17.6	4.9, 30.2		18.8	0.6, 37.0	

AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GTP, γ-glutamyltranspeptidase; CI, confidence interval; PM_{2.5}, particulate matter ≤2.5 μm; NO₂, nitrogen dioxide; O₃, ozone.

¹Changes in liver enzyme levels by an interquartile range increase in the concentrations of air pollutants were estimated using a linear mixed model after adjusting for age, sex, smoking status, mean temperature, dew point, season, body mass index, alcohol consumption, and amount of exercise.