

## Supplemental Material

### Concentration-Response Function for Ozone and Daily Mortality: Results from Five Urban and Five Rural UK Populations

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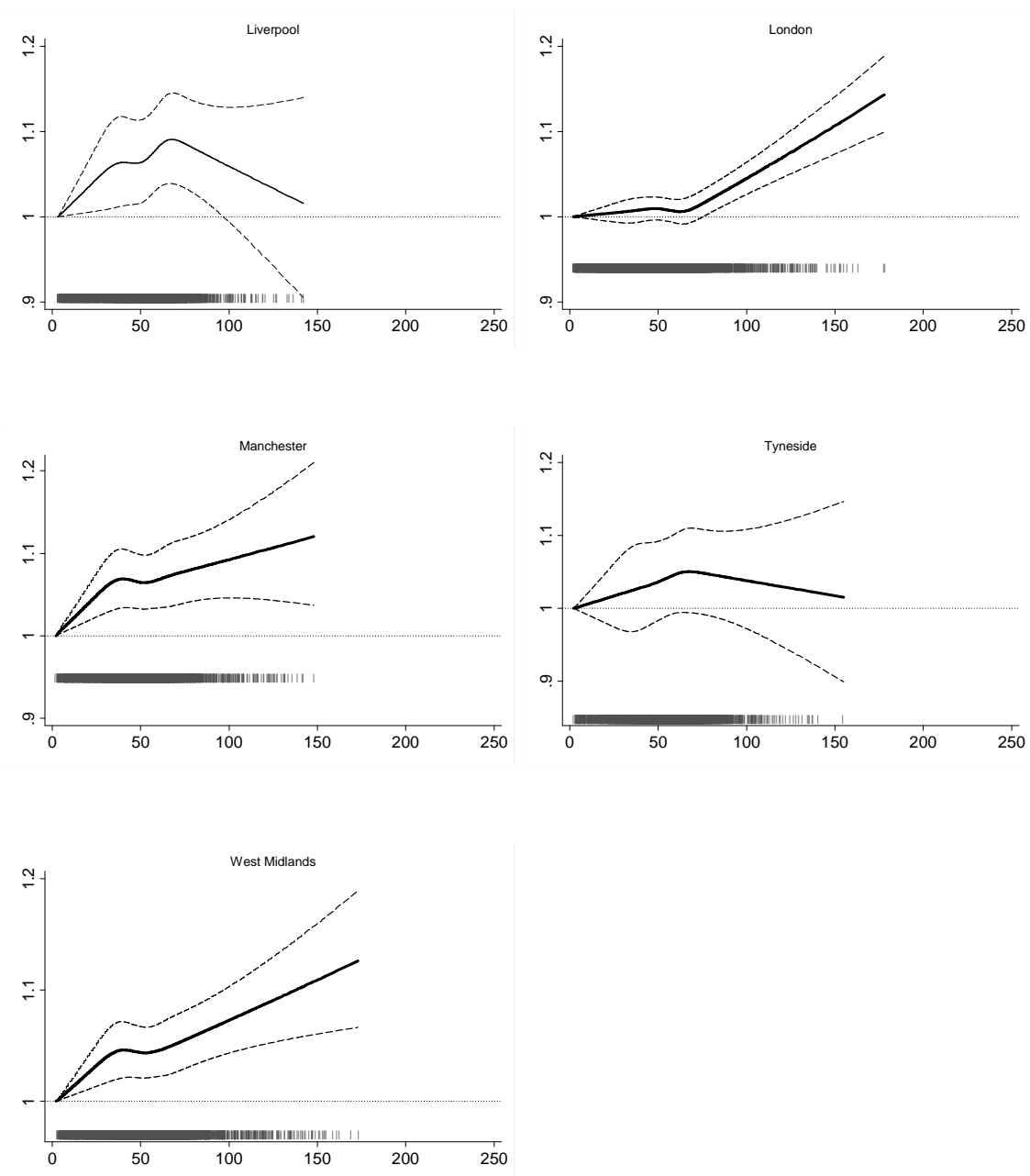
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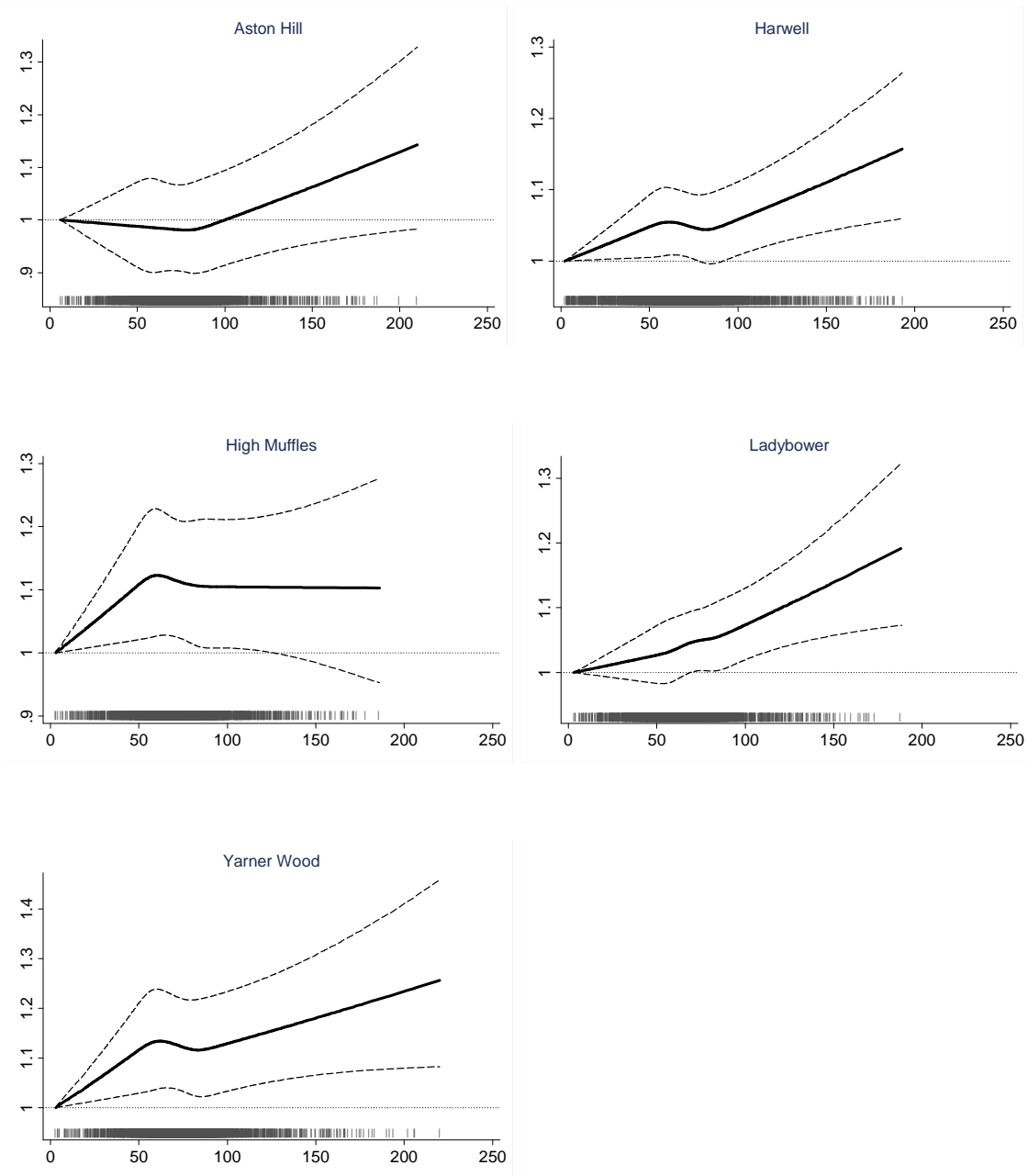
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Notes: x-axis- ozone concentration in  $\mu\text{g}/\text{m}^3$ ; y-axis relative risk of death (solid line) and 95% confidence limits (dotted line). Vertical bars indicate location of data points

**Supplemental Material, Figure S1a. Concentration-response curves for ozone and all-cause mortality, all-year analysis, urban areas**



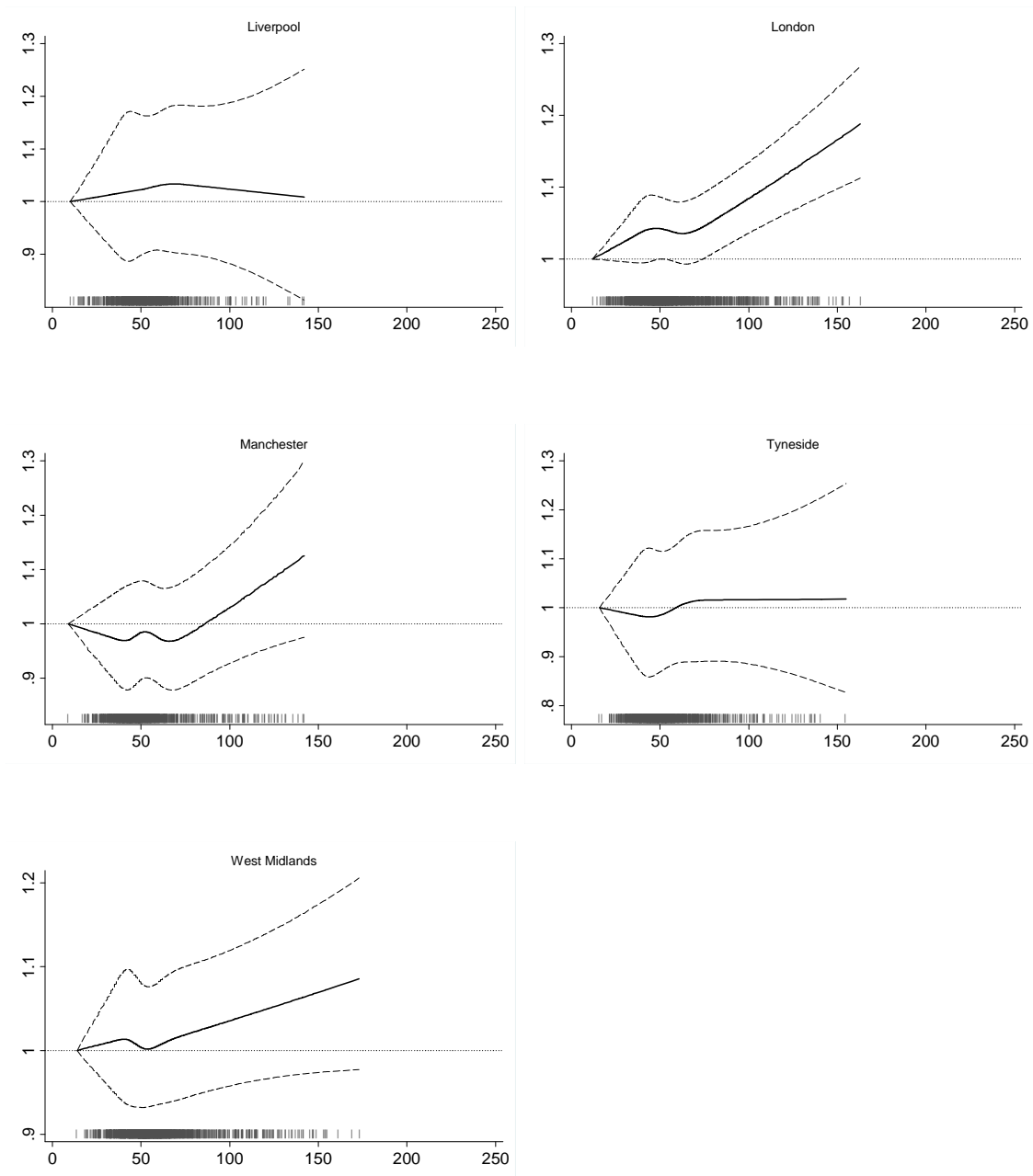
Notes: x-axis- ozone concentration in  $\mu\text{g}/\text{m}^3$ ; y-axis relative risk of death (solid line) and 95% confidence limits (dotted line). Vertical bars indicate location of data points

**Supplemental Material, Figure S1b. Concentration-response curves for ozone and all-cause mortality, all-year analysis, rural areas**

Area	Linear model		Threshold Model				Spline model	
	% (95% CI) <sup>a</sup>	AIC	Ozone Range (µg/m <sup>3</sup> )	Threshold Estimate (95% CI) (µg/m <sup>3</sup> )	% (95% CI) <sup>a</sup> (above threshold)	Δ AIC <sup>b</sup>	P-value <sup>c</sup>	Δ AIC <sup>b</sup>
<b>Urban</b>								
Liverpool	0.28 (-0.90, 1.47)	4413	(10,142)	116 (10, 142)	-10.26 (-20.34, 1.10)	-3.2	0.95	5.7
London	0.81 (0.44, 1.17)	9610	(12.9,163.1)	64 (56, 74)	1.35 (0.82, 1.88)	-6.4	0.02	-4.4
Manchester	0.66 (-0.18, 1.51)	6150	(8.7,141.8)	64 (8, 100)	1.71 (0.27, 3.16)	-3.0	0.21	1.4
Tyneside	0.53 (-0.60, 1.67)	5232	(15.5,154.5)	38 (15, 155)	1.71 (0.50, 2.93)	-0.3	0.86	5.3
West Midlands	0.44 (-0.07, 0.95)	8497	(13.6,173.2)	58 (13, 165)	0.71 (0.07, 1.35)	-1.9	0.51	3.7
<b>Rural</b>								
Aston Hill	0.71 (-0.29, 1.72)	5520	(24.5,209.5)	86 (24, 152)	1.58 (0.04, 3.14)	-2.1	0.33	2.6
Harwell	0.32 (-0.42, 1.07)	6546	(25.5,193)	87 (25, 192)	1.20 (0.11, 2.29)	-3.9	0.07	-0.9
High Muffles	-0.37 (-1.53, 0.81)	6032	(40,185.5)	166 (40, 186)	-25.01 (-46.48, 5.07)	-2.8	0.99	5.9
Ladybower	1.17 (0.31, 2.03)	5875	(22,187.5)	53 (22, 78)	1.38 (0.46, 2.32)	-1.5	0.29	2.3
Yarner Wood	0.20 (-0.72, 1.12)	6044	(32,220)	193 (32, 220)	-12.39 (-27.47, 5.82)	-1.9	0.99	5.9

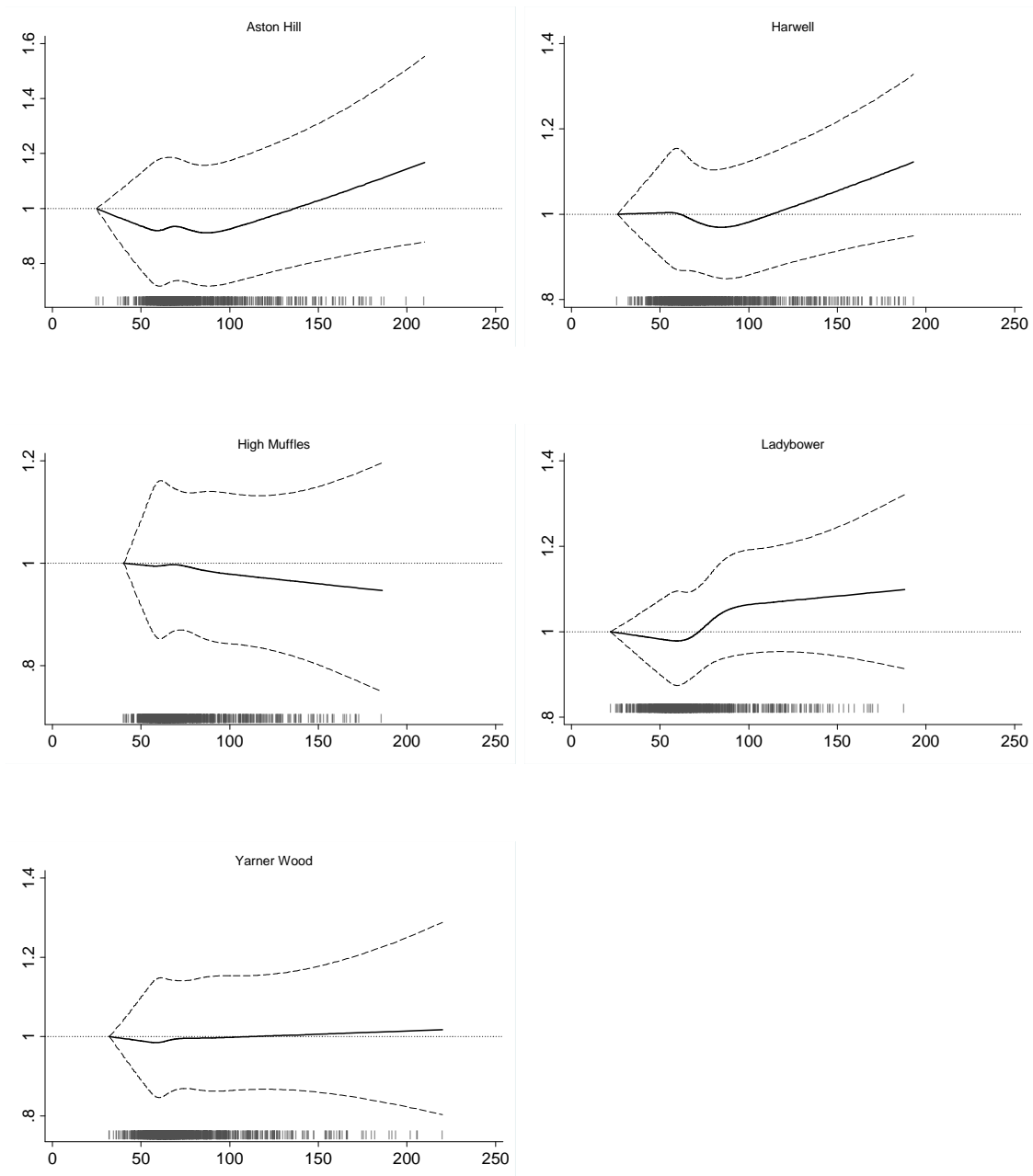
Notes: a – % per 10µg/m<sup>3</sup> increase in ozone concentration (95% confidence interval); b – Change in AIC from Linear model; c – P-value test for linearity

**Supplemental Material, Table S1. Results from analyses assuming linear, linear threshold and spline models for all-cause mortality for summer months**



Notes: x-axis- ozone concentration in  $\mu\text{g}/\text{m}^3$ ; y-axis relative risk of death (solid line) and 95% confidence limits (dotted line). Vertical bars indicate location of data points

**Supplemental Material, Figure S2a. Concentration-response curves for ozone and all-cause mortality during summer months, urban areas**



Notes: x- axis- ozone concentration in  $\mu\text{g}/\text{m}^3$ ; y-axis relative risk of death (solid line) and 95% confidence limits (dotted line). Vertical bars indicate location of data points

**Supplemental Material, Figure S2b. Concentration-response curves for ozone and all-cause mortality during summer months, rural areas**