

Supplementary Table 4. % Excess relative risks (95% credible intervals) for a 10 ppb increase in sulphur dioxide concentrations, respiratory mortality, 0-4 year exposure window, adjusted for urban-rural status.

Carstairs decile	Mortality period 1 ^a			Mortality period 2 ^a			Mortality period 3 ^a			Mortality period 4 ^a		
	No. of wards	Excess relative risk (%)	(95% CI)	No. of wards	Excess relative risk (%)	(95% CI)	No. of wards	Excess relative risk (%)	(95% CI)	No. of wards	Excess relative risk (%)	(95% CI)
1	42	58.7	(29.9, 93.9)	18	33.1	(-11.5, 100.2)	13	-11.4	(-49.1, 54.2)	7	-6.1	(-46.5, 64.8)
2	39	6.3	(-27.7, 56.3)	14	2.5	(-49.5, 108.0)	10	5.6	(-53.7, 140.8)	6	-12.7	(-68.3, 140.2)
3	38	-2.1	(-31.4, 39.6)	16	3.8	(-48.8, 110.5)	15	7.3	(-54.2, 151.6)	9	24.3	(-50.8, 213.9)
4	40	11.9	(-22.6, 61.9)	17	40.2	(-36.4, 209.0)	16	9.6	(-58.3, 188.0)	14	-5.6	(-67.5, 174.5)
5	43	11.8	(-19.8, 55.8)	20	-12.0	(-56.2, 77.0)	16	29.2	(-47.0, 214.9)	9	45.0	(-44.0, 275.1)
6	37	-3.5	(-33.0, 39.0)	20	4.9	(-44.3, 97.7)	23	10.1	(-52.6, 156.0)	14	40.5	(-42.1, 241.3)
7	32	-5.3	(-32.4, 32.8)	23	7.9	(-42.3, 101.8)	31	25.9	(-43.6, 180.7)	23	18.8	(-48.1, 171.9)
8	43	14.6	(-17.8, 59.8)	27	12.1	(-40.0, 109.3)	19	16.6	(-49.2, 167.3)	11	39.1	(-43.1, 240.1)
9	36	21.5	(-12.2, 68.3)	20	7.1	(-44.1, 105.2)	21	5.9	(-53.6, 141.5)	13	12.7	(-53.4, 172.6)
10	43	25.1	(-10.0, 74.0)	31	-9.6	(-54.3, 79.0)	21	3.6	(-56.1, 144.4)	12	48.2	(-45.4, 302.1)
	N=393		P=0.02^b	N=206		P=0.91^b	N=185		P=0.93^b	N=118		P=0.87^b

^a Mortality period 1; 1982-86, period 2; 1986-90, period 3; 1990-94, period 4; 1994-98.

^b P-values correspond to test for interaction using likelihood based GLM.