Supplementary Table 1. % Excess relative risks (95% credible intervals) by cause and exposure window for joint models containing black smoke and sulphur dioxide, adjusted for deprivation and urban/rural classification.

Exposure Window	All-cause		Cardio-respiratory		Cardiovascular		Respiratory		Lung cancer		Other	
	BS	SO_2	BS	SO_2	BS	SO_2	BS	SO_2	BS	SO_2	BS	SO_2
(years) ^a												
0-4	0.1	4.5	0.1	5.3	0.4	2.9	-0.7	13.9	1.1	-0.4	-0.1	4.2
	(-0.3 ,0.5)	(3.8,5.2)	(-0.4 ,0.7)	(4.4,6.2)	(-0.2,1)	(1.9,3.9)	(-1.7, 0.4)	(12,15.9)	(-0.4,2.6)	(-2.8, 2.3)	(-0.9,0.5)	(3.1,5.5)
5-8	0.2	4.5	0.5	4.3	0.5	2.6	0.4	10.2	0.9	3.0	-0.4	5.2
	(-0.1 ,0.5)	(4,5)	(0.1,0.9)	(3.6,5)	(0.1,0.9)	(1.9,3.4)	(-0.4,1.2)	(8.8,11.7)	(-0.2,2)	(1,4.9)	(-0.9,0.1)	(4.4 ,6.1)
9-12	0.7	2.6	1.1	2.3	1.2	1.0	0.7	6.7	1.7	1.7	-0.1	3.5
	(0.5,0.9)	(2.3,3.1)	(0.9,1.3)	(1.8, 2.8)	(1,1.5)	(0.5,1.6)	(0.2,1.2)	(5.7, 7.8)	(1.1,2.4)	(0.4,3.1)	(-0.4,0.2)	(2.8 ,4.1)
13-16	0.7	1.6	1.0	1.4	1.2	0.6	0.4	4.3	1.1	0.8	0.0	2.1
	(0.6,0.8)	(1.3 ,1. 9)	(0.9,1.2)	(1,1.8)	(1.1,1.4)	(0.1,1)	(0.1,0.7)	(3.5,5.1)	(0.7,1.5)	(-0.2 ,1.8)	(-0.2, 0.2)	(1.6, 2.6)
0-8	0.0	2.6	0.1	2.7	0.2	1.6	-0.2	6.7	0.5	1.0	-0.3	2.9
	(-0.2 ,0.2)	(2.3 ,2. 9)	(-0.1,0.4)	(2.3,3.1)	(0,0.5)	(1.1,2)	(-0.7, 0.3)	(5. 9 ,7.6)	(-0.2 ,1.3)	(-0.1,2)	(-0.6,0)	(2.4, 3.4)
0-12	0.2	1.5	0.3	1.4	0.4	0.7	0.1	3.9	0.7	0.6	-0.2	1.8
	(0.1,0.3)	(1.3,1.7)	(0.2,0.5)	(1.2, 1.7)	(0.3,0.6)	(0.4,1)	(-0.2,0.3)	(3.4,4.4)	(0.3,1)	(0,1.3)	(-0.3 ,0)	(1.5, 2.1)
0-16	0.2	0.9	0.4	0.8	0.4	0.3	0.1	2.4	0.5	0.4	-0.1	1.1
	(0.2,0.3)	(0.8,1)	(0.3,0.4)	(0.6,0.9)	(0.4,0.5)	(0.2,0.5)	(-0.1,0.2)	(2,2.7)	(0.3,0.7)	(-0.1,0.8)	(-0.2 ,0)	(0.9,1.3)
DC blook smoke		CO1	hur diovido	^a Coo Eigure 1			g rights are nor 10ug/m ³ PS and nor 10nnh SC					

BS black smoke SO₂ sulphur dioxide ^a See Figure 1. Excess risks are per 10µg/m³ BS and per 10ppb SO₂