

# Supplementary Materials

## Ambient PM<sub>2.5</sub> and Daily Hospital Admissions for Acute Respiratory Infections: Effect Modification by Weight Status of Child

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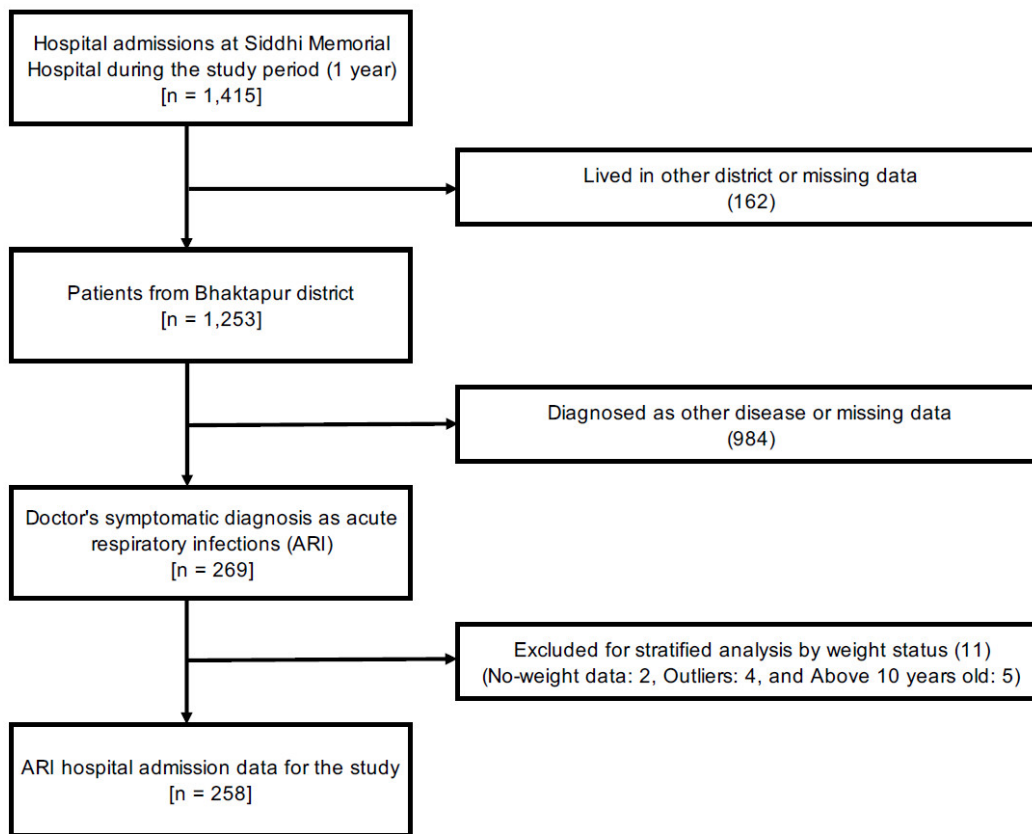


Figure S1: Inclusion and exclusion criteria of ARI admissions for the study

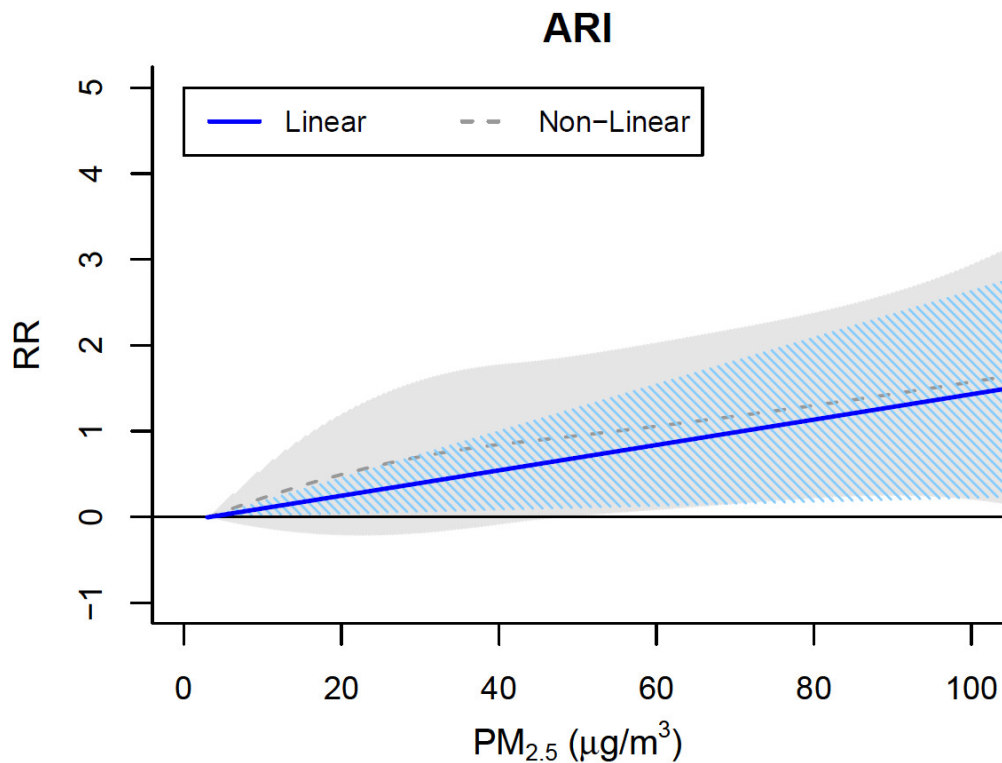


Figure S2: Linier and non-linear forms of concentration-response functions (CRFs) (difference of Akaike Information Criterion between the linear and non-linear model = 0.6)

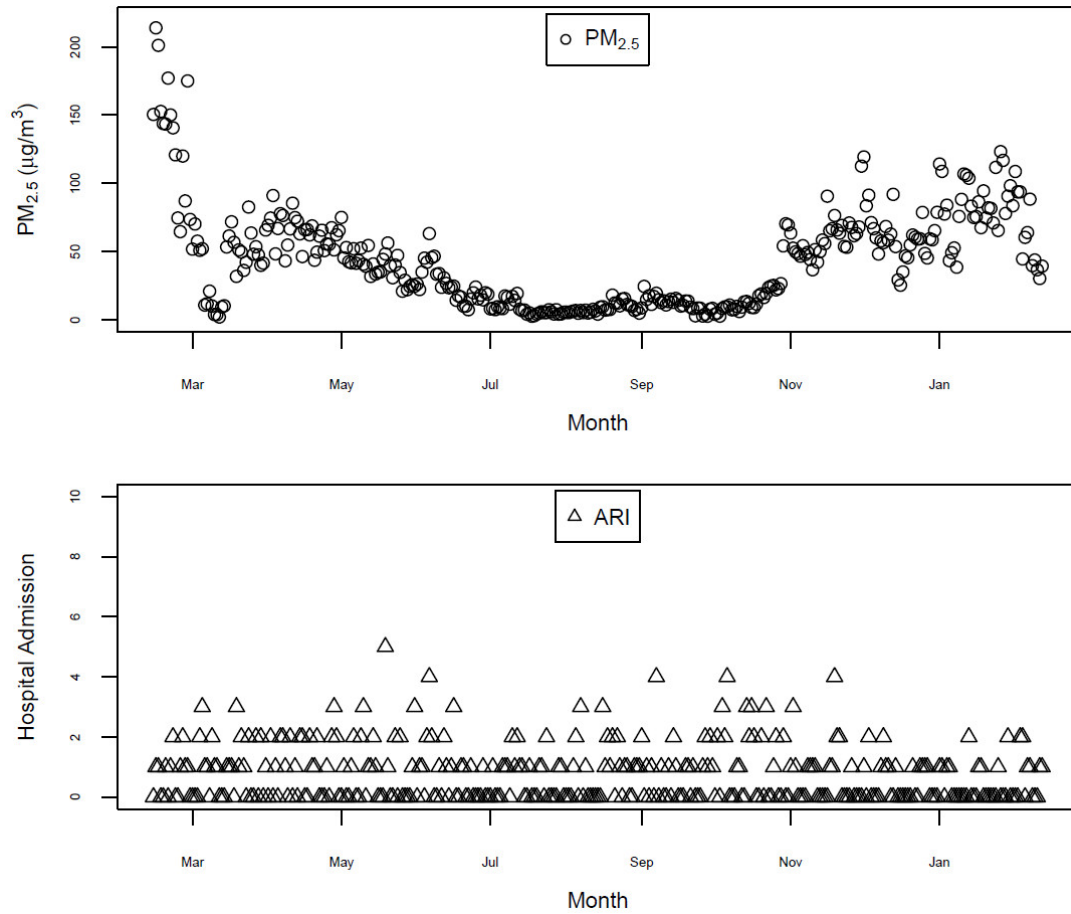


Figure S3: Time-series plot of PM<sub>2.5</sub> and ARI hospital admissions

Table S1: The relative risks (RR) and 95% Confidence Intervals (CI) for all ARI admissions and each weight group (Underweight, Normal weight, Overweight)

Lag day / Lag period	all ARI		Underweight		Normal weight		Overweight	
	RR	(95% CI)	RR	(95% CI)	RR	(95% CI)	RR	(95% CI)
Single lag	lag0	<b>1.1 (1.01-3 1.26)</b>	1.1 (0.92-1 1.34)	1.1 (1.00-1 1.24)	<b>1.5 (1.05-2.22)</b>			
	lag1	<b>1.1 (1.00-2 1.25)</b>	1.0 (0.89-8 1.32)	1.1 (0.99-1 1.24)	<b>1.7 (1.14-2.64)</b>			
	lag2	1.0 (0.97-7 1.17)	1.0 (0.92-5 1.19)	1.0 (0.97-6 1.17)	<b>1.8 (1.32-2.47)</b>			
	lag3	1.0 (0.96-5 1.15)	1.0 (0.94-7 1.22)	1.0 (0.95-4 1.15)	<b>1.8 (1.31-2.66)</b>			
	lag4	1.0 (0.91-0 1.10)	0.9 (0.84-7 1.11)	1.0 (0.91-0 1.11)	<b>2.1 (1.50-3.09)</b>			
	lag5	1.0 (0.94-3 1.13)	1.0 (0.93-8 1.26)	1.0 (0.93-3 1.13)	<b>5.1 (2.47-10.88)</b>			
	lag6	0.9 (0.91-9 1.08)	0.9 (0.80-5 1.12)	0.9 (0.91-9 1.08)	<b>3.6 (2.09-6.37)</b>			

Average lag	lag0	<b>1.1 (1.02-</b>	1.1 (0.90-	<b>1.1 (1.01-</b>	<b>1.7</b>
	1	<b>6 1.31)</b>	3 1.41)	<b>4 1.30)</b>	<b>7 (1.17-2.69)</b>
	lag0	<b>1.1 (1.01-</b>	1.1 (0.91-	<b>1.1 (1.00-</b>	<b>1.9</b>
	2	<b>5 1.31)</b>	1 1.36)	<b>4 1.30)</b>	<b>8 (1.34-2.93)</b>
	lag0	<b>1.1 (1.01-</b>	1.1 (0.92-	1.1 (0.99-	<b>2.3</b>
	3	<b>5 1.30)</b>	2 1.36)	3 1.30)	<b>8 (1.50-3.78)</b>
	lag0	1.1 (0.98-	1.0 (0.88-	1.1 (0.97-	<b>2.6</b>
	4	3 1.29)	8 1.33)	2 1.29)	<b>2 (1.63-4.22)</b>
	lag0	1.1 (0.98-	1.1 (0.89-	1.1 (0.97-	<b>3.0</b>
	5	3 1.30)	0 1.35)	2 1.30)	<b>7 (1.81-5.21)</b>
	lag0	1.1 (0.96-	1.0 (0.87-	1.1 (0.95-	<b>3.9</b>
	6	1 1.28)	8 1.34)	0 1.27)	<b>1 (2.08-7.34)</b>