## Supplemental Materials: Efficiency of Emission Control Measures on Particulate Matter Related Health Impacts and Economic Cost during the 2014 Asia-Pacific Economic Cooperation Meeting in Beijing

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**Table S1.** Characteristics (mean  $\pm$  SD) and comparison of particulate matter in various monitoring sites.

Air Pollutants, Various Periods	Urban Sites N = 8 a	Suburban Sites $N = 3^{a}$	Transportation Sites $N = 5^{a}$	Control Site  N = 1 a	F	p
PM <sub>2.5</sub> (µg/m <sup>3</sup> )						
Total	$113.11 \pm 83.83$	$95.84 \pm 70.69$	$136.88 \pm 96.15$	$99.19 \pm 85.32$	1.754	0.159
Pre-APEC	$123.77 \pm 83.66$	$113.27 \pm 76.17$	$157.36 \pm 99.33$	$123.09 \pm 93.60$	0.607	0.613
During-APEC	$50.56 \pm 33.08$	$43.74 \pm 28.76$	$75.73 \pm 26.41$	$36.08 \pm 25.24$	3.628	0.022 в
Post-APEC	$150.56 \pm 88.17$	$118.48 \pm 70.76$	$163.45 \pm 110.62$	$122.83 \pm 86.01$	0.756	0.524
PM <sub>10</sub> (μg/m <sup>3</sup> )						
Total	$162.28 \pm 96.89$	$139.48 \pm 81.42$	$161.42 \pm 112.85$	$113.67 \pm 87.48$	2.038	0.111
Pre-APEC	$170.04 \pm 85.13$	$152.02 \pm 76.91$	$142.10 \pm 77.84$	$124.36 \pm 84.83$	0.689	0.564
During-APEC	$79.78 \pm 37.14$	$71.80 \pm 33.27$	$94.04 \pm 40.69$	$49.56 \pm 24.37$	2.919	0.047 в
Post-APEC	$217.97 \pm 100.02$	$178.98 \pm 83.14$	$231.09 \pm 140.98$	$153.12 \pm 97.04$	1.440	0.243

<sup>&</sup>lt;sup>a</sup>: representing the total number of monitoring sites of each types; <sup>b</sup>: p < 0.05.

Table S2. Estimated proportion and numbers of deaths attributed to PM pollution pre, during and post APEC using by AirQ+ software.

Health Endpoints	Attributed Proportion (95% CI)			Attributed Cases (95% CI)		Attributed Cases per 100,000 Population at Risk (95% CI)			
	Pre-APEC	During-APEC	Post-APEC	Pre-APEC	During-APEC	Post-APEC	Pre-APEC	During-APEC	Post-APEC
PM <sub>2.5</sub>									
Non-accidental deaths	4.45% a	1.73%	5.01%	12.9	5.0	14.5	21.92	8.49	24.63
	(3.65%, 5.25%)	(1.41%, 2.04%)	(4.1%, 5.90%)	(10.6, 15.2)	(4.1, 5.9)	(11.9, 17.1)	(17.96, 25.84)	(6.94, 10.04)	(20.20, 29.02)
Cardiovascular disease	5.14%	2.00%	5.77%	4.7	1.8	5.3	8.05	3.12	9.04
deaths	(3.88%, 6.27%)	(1.50%, 2.44%)	(4.36%, 7.03%)	(3.6, 5.8)	(1.4, 2.3)	(4.0, 6.5)	(6.08, 9.81)	(2.35, 3.82)	(6.83, 11.01)
Respiratory disease deaths	5.93%	2.31%	6.66%	2.0	0.8	2.3	3.43	1.34	3.86
	(3.54%, 8.37%)	(1.37%, 3.28%)	(3.98%, 9.38%)	(1.2, 2.9)	(0.5, 1.1)	(1.4, 3.2)	(2.05, 4.85)	(0.79, 1.90)	(2.30, 5.43)
$PM_{10}$									
Non-accidental deaths	4.44%	1.90%	5.82%	12.9	5.5	16.9	21.85	9.35	28.64
	(3.90%, 4.85%)	(1.67%, 2.08%)	(5.11%, 6.35%)	(11.3, 14.1)	(4.8, 6.0)	(14.8, 18.4)	(19.17, 23.84)	(8.19, 10.22)	(25.15, 31.23)
Cardiovascular disease	5.92%	2.54%	7.74%	5.5	2.3	7.1	9.27	3.98	12.12
deaths	(5.11%, 6.71%)	(2.19%, 2.89%)	(6.70%, 8.77%)	(4.7, 6.2)	(2.0, 2.7)	(6.2, 8.1)	(8.01, 10.51)	(3.43, 4.53)	(10.49, 13.73)
Respiratory disease deaths	4.44%	1.90%	5.82%	1.5	0.6	2.0	2.57	1.10	3.37
	(3.21%, 5.52%)	(1.37%, 2.37%)	(4.22%, 7.22%)	(1.1, 1.9)	(0.5, 0.8)	(1.4, 2.5)	(1.86, 3.20)	(0.79, 1.37)	(2.44, 4.18)

<sup>&</sup>lt;sup>a</sup>: mean number and the 95% confidence interval were presented.



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