

**Table S1** ESRD death notification codes used for CVD mortality outcomes.

<b>Outcome</b>	<b>Causes of Death</b>	<b>Code</b>
<b>Coronary heart disease (CHD)</b>	Myocardial infarction, acute	#23
	Atherosclerotic heart disease	#26
<b>Congestive heart failure (CHF)</b>	Congestive heart disease	#32
<b>Stroke</b>	Cerebrovascular accident including intracranial haemorrhage	#36
	Ischemic brain damage /Anoxic encephalopathy	#37
<b>Sudden cardiac arrest</b>	Cardiac arrhythmia	#28
	Cardiac arrest, cause unknown	#29

**Table S2** Smoking status and prevalent CVS cases according to quartiles of annual average of PM<sub>2.5</sub> (ug/m<sup>3</sup>).

Characteristic	Q1 Median ( Min – Max) 7.7 (2.1 – 9.0)	Q2 Median ( Min – Max) 9.9 (>9.0– 10.6)	Q3 Median ( Min – Max) 11.3(>10.6 – 12.0)	Q4 Median ( Min – Max) 12.7 (>12.0 – 18.4)	Standardized Difference
Current smoking <sup>¥*</sup> <sup>β</sup>					0.014
No	29,191(96.9)	28,431 (96.3)	26,685 (96.4)	26,685 (96.6)	
Yes	927 (03.1)	1,093 (03.7)	1,007 (03.6)	1,007 (03.4)	
Peripheral vascular disease <sup>¥*</sup>					0.008
No	30,087 (99.9)	29,491 (99.9)	27,665 (99.9)	16,693 (99.9)	
Yes	31 (0.10)	33 (0.10)	27 (0.10)	6 (0.01)	
Atherosclerotic heart disease <sup>¥*</sup> <sup>β</sup>					0.023
No	28,917 (96.0)	28,341 (96.0)	26,682 (96.4)	16,231 (97.2)	
Yes	1,201 (04.0)	1,183 (04.0)	1,010 (03.7)	468 (02.8)	
Congestive heart failure <sup>¥*</sup>					0.005
No	30,056 (99.8)	29,452 (99.8)	27,635 (99.8)	16,670 (99.8)	
Yes	62 (0.20)	72 (0.20)	57 (0.20)	29 (0.20)	
Cerebrovascular disease <sup>¥*</sup> <sup>β</sup>					0.010
No	29,423 (97.7)	28,744 (97.4)	27,024 (97.6)	16,320 (97.7)	
Yes	695 (02.3)	780 (02.6)	668 (02.4)	379 (02.3)	
Other cardiac disease <sup>¥*</sup> <sup>β</sup>					0.019
No	29,115 (96.7)	28,397 (96.2)	26,788 (96.7)	16,238 (97.2)	
Yes	1,003 (03.3)	1,127 (03.8)	904 (03.3)	461 (02.8)	

<sup>¥</sup> n (%); <sup>\*</sup> Chi-square; <sup>β</sup> p-value <0.005