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## **Supplemental Material**

### **Cooking Coal Use and All-Cause and Cause-Specific Mortality in a Prospective Cohort Study of Women in Shanghai, China**

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**Table S1. Risk of all-cause and cause-specific mortality by ever usage of coal in Shanghai Women's Health Study, stratified by family annual income**

Cause of death (ICD-9)	Never used coal HR(95% CI) <sup>a</sup>	≥20,000 yuan		<20,000 yuan		Interaction <i>P</i>
		Ever used coal Deaths <sup>b</sup>	HR(95% CI) <sup>a</sup>	Ever used coal Deaths <sup>b</sup>	HR(95% CI) <sup>a</sup>	
All cause	1.00 (ref)	727	1.17 (1.04, 1.32)	1772	1.10 (1.01, 1.20)	0.46
Cancer (140-208)	1.00 (ref)	345	1.12 (0.95, 1.32)	699	1.17 (1.01, 1.34)	0.70
Lung cancer (162)	1.00 (ref)	73	1.18 (0.81, 1.70)	141	1.20 (0.88, 1.63)	0.52
Cardiovascular (390-459)	1.00 (ref)	153	1.40 (1.07, 1.85)	430	1.10 (0.92, 1.32)	0.19
Ischemic heart disease (410-414)	1.00 (ref)	42	2.31 (1.25, 4.29)	91	1.33 (0.88, 2.03)	0.24
Myocardial infarction (410)	1.00 (ref)	31	3.79 (1.67, 8.60)	60	1.25 (0.74, 2.10)	0.08
Stroke (430-438)	1.00 (ref)	88	1.24 (0.87, 1.77)	261	0.94 (0.75, 1.17)	0.19
Ischemic stroke (434)	1.00 (ref)	34	1.05 (0.60, 1.84)	111	1.11 (0.78, 1.57)	0.88
Hemorrhagic stroke (430-432)	1.00 (ref)	46	1.31 (0.81, 2.14)	119	0.77 (0.56, 1.06)	0.12
Gastrointestinal (520-579)	1.00 (ref)	18	1.35 (0.63, 2.88)	37	1.24 (0.64, 2.42)	0.81
Kidney disease (580-593)	1.00 (ref)	13	1.19 (0.49, 2.92)	33	1.07 (0.57, 2.00)	0.66
Diabetes (250)	1.00 (ref)	11	0.98 (0.38, 2.51)	55	1.50 (0.82, 2.73)	0.26

<sup>a</sup>Adjusted for age, smoking status, environmental tobacco smoke, occupation, education, shift work, BMI, hormone therapy, family income, parity, alcohol drinking, marital status, caloric intake, physical activity, stove ventilation.

<sup>b</sup>Women were excluded from analyses of specific causes of death if they reported a history of corresponding diseases at baseline.

**Table S2. Risk of all-cause and cause-specific mortality by ever usage of coal in Shanghai Women's Health Study, stratified by education**

Cause of death (ICD 9)	Never used coal HR(95% CI) <sup>a</sup>	Middle school and above		Elementary school and below		Interaction <i>P</i>
		Ever used coal Deaths <sup>b</sup>	HR(95% CI) <sup>a</sup>	Ever used coal Deaths <sup>b</sup>	HR(95% CI) <sup>a</sup>	
All cause	1.00 (ref)	1014	1.21 (1.09, 1.34)	1486	1.06 (0.96, 1.17)	0.10
Lung cancer (162)	1.00 (ref)	102	1.38 (1.00, 1.91)	113	1.03 (0.73, 1.46)	0.43
Cancer (140-208)	1.00 (ref)	530	1.25 (1.08, 1.44)	515	1.03 (0.87, 1.21)	0.13
Cardiovascular (390-459)	1.00 (ref)	188	1.42 (1.11, 1.81)	395	1.09 (0.90, 1.32)	0.24
Ischemic heart disease (410-414)	1.00 (ref)	36	1.86 (1.02, 3.40)	97	1.56 (1.02, 2.38)	0.76
Myocardial infarction (410)	1.00 (ref)	27	1.86 (0.93, 3.72)	64	1.88 (1.07, 3.32)	0.84
Stroke (430-438)	1.00 (ref)	118	1.23 (0.90, 1.66)	231	0.92 (0.72, 1.17)	0.15
Ischemic stroke (434)	1.00 (ref)	45	1.31 (0.80, 2.15)	100	0.99 (0.69, 1.43)	0.29
Hemorrhagic stroke (430-432)	1.00 (ref)	65	1.17 (0.78, 1.74)	100	0.77 (0.54, 1.09)	0.15
Gastrointestinal (520-579)	1.00 (ref)	23	1.80 (0.85, 3.83)	32	1.00 (0.52, 1.93)	0.24
Kidney disease (580-593)	1.00 (ref)	18	1.32 (0.62, 2.82)	28	0.91 (0.46, 1.81)	0.50
Diabetes (250)	1.00 (ref)	21	1.57 (0.66, 3.72)	45	1.34 (0.73, 2.47)	0.42

<sup>a</sup>Adjusted for age, smoking status, environmental tobacco smoke, occupation, shift work, BMI, hormone therapy, family income, parity, alcohol drinking, marital status, caloric intake, physical activity, stove ventilation.

<sup>b</sup>Women were excluded from analyses of specific causes of death if they reported a history of corresponding diseases at baseline.

**Table S3. Risk of all-cause and cause-specific mortality by ever usage of coal in Shanghai Women's Health Study, stratified by kitchen ventilation**

Coal Use Cause of death (ICD 9)	Never used coal HR(95% CI) <sup>a</sup>	Always good ventilation		Always fair/poor ventilation		Interaction <i>P</i>
		Ever used coal Deaths <sup>b</sup>	HR(95% CI) <sup>a</sup>	Ever used coal Deaths <sup>b</sup>	HR(95% CI) <sup>a</sup>	
All cause	1.00 (ref)	355	1.03 (0.90, 1.19)	505	1.16 (1.01, 1.33)	0.92
Cancer (140-208)	1.00 (ref)	169	1.20 (0.98, 1.47)	199	1.01 (0.82, 1.25)	0.75
Lung cancer (162)	1.00 (ref)	34	1.08 (0.70, 1.67)	35	1.13 (0.67, 1.91)	0.16
Cardiovascular (390-459)	1.00 (ref)	81	1.00 (0.75, 1.33)	120	1.15 (0.86, 1.54)	0.71
Ischemic heart disease (410-414)	1.00 (ref)	23	1.79 (0.97, 3.30)	30	2.04 (1.01, 4.12)	0.29
Myocardial infarction (410)	1.00 (ref)	16	2.39 (1.09, 5.26)	21	2.71 (1.06, 6.89)	0.60
Stroke (430-438)	1.00 (ref)	35	0.70 (0.46, 1.04)	68	0.90 (0.63, 1.30)	0.59
Ischemic stroke (434)	1.00 (ref)	11	0.47 (0.24, 0.93)	32	1.09 (0.63, 1.91)	0.53
Hemorrhagic stroke (430-432)	1.00 (ref)	21	0.89 (0.52, 1.53)	30	0.72 (0.43, 1.19)	0.53
Gastrointestinal (520-579)	1.00 (ref)	6	0.86 (0.31, 2.35)	9	1.71 (0.49, 6.00)	0.32
Kidney disease (580-593)	1.00 (ref)	8	0.84 (0.34, 2.07)	6	0.95 (0.25, 3.60)	0.99
Diabetes (250)	1.00 (ref)	7	1.74 (0.56, 5.37)	16	2.17 (0.84, 5.62)	0.066

<sup>a</sup>Adjusted for age, smoking status, environmental tobacco smoke, occupation, education, shift work, BMI, hormone therapy, family income, parity, alcohol drinking, marital status, caloric intake, physical activity, stove ventilation.

<sup>b</sup>Women were excluded from analyses of specific causes of death if they reported a history of corresponding diseases at baseline.