

Supplementary Table S1. Comparison of baseline characteristics between included and excluded participants

	Included	Excluded	<i>p</i> value
<i>n</i>	10450	6780	
Demographic and lifestyle factors			
Mean age (years)	59.3 (9.4)	59.6 (10.5)	0.061
Gender, n (%)			
Male	4943 (47.3%)	3422 (50.5%)	<0.001*
Female	5507 (52.7%)	3356 (49.5%)	
Missing	0	2	
Smoking status, n (%)			
Never smoker	6238 (59.7%)	3952 (66.0%)	<0.001*
Ex-smoker	950 (9.1%)	479 (8.0%)	
Current smoker	3262 (31.2%)	1554 (26.0%)	
Missing	0	795	
Drinking status, n (%)			
Never drinker	6129 (58.7%)	3835 (58.0%)	0.526
Ex-drinker	859 (8.2%)	572 (8.6%)	
Current drinker	3462 (33.1%)	2209 (33.4%)	
Missing	0	164	
Area of residence, n (%)			
Rural	6492 (62.1%)	3751 (55.4%)	<0.001*
Urban	3958 (37.9%)	3027 (44.6%)	
Missing	0	2	
Current marriage status			
Not married	1328 (12.7%)	920 (13.6%)	0.083
Married or cohabitated	9122 (87.3%)	5828 (86.4%)	
Missing	0	32	
Clinical / biochemical measures			
BMI (kg/m ²)	23.5 (3.9)	23.1 (3.7)	<0.001*
Missing	0	3980	
Obesity, n (%)	1211 (11.6%)	273 (9.8%)	0.007*
Missing	0	3980	
Waist circumference (cm)			
Female	85.8 (10.2)	85.2 (10.5)	0.059
Male	85.2 (10.1)	84.0 (9.6)	
Missing	227	3817	

Central obesity, n (%)	4371 (42.8%)	1163 (39.3%)	<0.001*
Missing	227	3817	
Systolic BP (mmHg)	130.7 (21.5)	132.0 (22.4)	0.004*
Missing	0	3805	
Diastolic BP (mmHg)	76.1 (12.2)	75.8 (12.3)	0.242
Missing	0	3803	
History of chronic diseases			
Hypertension	4285 (41.0%)	2224 (33.3%)	<0.001*
Missing	0	102	
Diabetes mellitus	1338 (12.8%)	751 (11.2%)	0.002*
Missing	0	74	
Dyslipidemia	1002 (9.6%)	569 (9.0%)	0.241
Missing	0	479	
CVD	1467 (14.0%)	904 (13.7%)	0.498
Missing	0	161	
Indoor fuel use			
Solid fuel use for heating	7122 (68.2%)	2075 (56.8%)	<0.001*
Missing/reported “others”	0	3129	
Solid fuel use for cooking	5973 (57.2%)	3168 (49.2%)	<0.001*
Missing/reported “others”	0	348	

Abbreviation: BP: Blood Pressure; BMI: Body Mass Index; CVD: Cardiovascular Disease.

Continuous data were reported as mean (SD) and categorical data were reported as number (percentage).

Supplementary Table S2. Associations between indoor solid fuel use for heating and cooking with blood pressure and hypertension based on imputed data

	SBP β (95%CI)	DBP β (95%CI)	Hypertension aOR (95%CI)
Heating ^a			
Model 1	1.61 (0.87, 2.35) *	1.13 (0.68, 1.57) *	1.12 (1.04, 1.20) *
Model 2	1.91 (1.13, 2.69) *	1.15 (0.67, 1.63) *	1.13 (1.04, 1.23) *
Model 3	2.09 (1.21, 2.97) *	2.09 (1.21, 2.97) *	2.09 (1.21, 2.97) *
Cooking ^b			
Model 1	0.36 (-0.32, 1.05)	0.07 (-0.33, 0.46)	1.02 (0.95, 1.09)
Model 2	0.55 (-0.15, 1.25)	0.13 (-0.28, 0.54)	1.03 (0.95, 1.11)
Model 3	-0.37 (-1.16, 0.42)	-0.48 (-0.95, 0.02)	0.96 (0.88, 1.05)

^a Reference: No heating/clean fuel user for heating; ^b Reference: Clean fuel user for cooking.

Model 1: Adjusted for age, gender and BMI

Model 2: Additionally adjusted for smoking and drinking status, marriage, region, area of residence, CVD, DM, dyslipidemia and anti-hypertensive drug when the outcomes was systolic or diastolic BP.

Model 3: Additionally adjusted for indoor cooking when the exposure was indoor heating; or additionally adjust for indoor heating when the exposure was indoor cooking

* $p < 0.05$

Supplementary Table S3. Subgroup analysis on the association between solid indoor fuel use for heating and cooking with blood pressure and hypertension based on imputed data

	SBP β (95%CI)	DBP β (95%CI)	Hypertension aOR (95%CI)
Heating ^a			
Gender			
Male	1.94 (0.70, 3.18) *	1.51 (0.72, 2.31) *	1.16 (1.01, 1.33) *
Female	2.12 (0.90, 3.33) *	1.23 (0.54, 1.93) *	1.14 (1.00, 1.31) *
Area of residence			
Urban	2.86 (1.51, 4.21) *	1.87 (1.10, 2.64) *	1.24 (1.08, 1.43) *
Rural	1.17 (-0.03, 2.37)	0.86 (0.11, 1.62) *	1.03 (0.90, 1.19)
Geographic location			
North	2.20 (0.91, 3.49) *	1.01 (0.23, 1.79) *	1.16 (1.01, 1.34) *
South	1.58 (0.35, 2.82) *	1.11 (0.35, 1.88) *	1.13 (0.98, 1.29)
Hypertension			
Yes	1.72 (0.39, 3.04) *	1.00 (0.20, 1.80) *	NA
No	0.68 (-0.10, 1.45)	0.65 (0.11, 1.20) *	NA
Cooking ^b			
Gender			
Male	-0.76 (-1.87, 0.35)	-0.68 (-1.38, 0.01)	0.91 (0.80, 1.03)
Female	0.04 (-1.07, 1.16)	-0.27 (-0.91, 0.38)	1.02 (0.91, 1.16)
Area of residence			
Urban	0.02 (-1.31, 1.35)	-0.72 (-1.49, 0.05)	1.00 (0.86, 1.15)
Rural	-0.50 (-1.49, 0.49)	-0.37 (-0.96, 0.23)	0.94 (0.84, 1.05)
Geographic location			
North	-0.51 (-1.67, 0.65)	-0.55 (-1.25, 0.15)	0.98 (0.87, 1.12)
South	-0.38 (-1.45, 0.69)	-0.47 (-1.11, 0.17)	0.93 (0.82, 1.05)
Hypertension			
Yes	-0.14 (-1.35, 1.06)	-0.57 (-1.28, 0.15)	NA
No	-0.28 (-0.99, 0.42)	-0.42 (-0.90, 0.05)	NA

^a Reference: No heating/clean fuel user for heating; ^b Reference: Clean fuel user for cooking.

Model adjusted for age, gender, BMI, smoking and drinking status, marriage, region, area of residence, CVD, DM, dyslipidemia, anti-hypertensive drug when the outcomes was systolic or diastolic BP, and indoor cooking when the exposure was indoor heating, or indoor heating when the exposure was indoor cooking.

NA: Not applicable.

* $p < 0.05$