

Supplementary Materials

Supplementary Table 1. Prevalence of hypertension, history of heart attack, angina and coronary heart disease in study sample.

Characteristic	n	(%)
Hypertension		
Systolic hypertension (systolic BP \geq 140 mmHg)	133	(15.8)
Diastolic hypertension (diastolic BP \geq 90 mmHg)	102	(12.1)
Regular medication for high blood pressure	198	(23.5)
Hypertension (any of the above)	297	(35.3)
Angina	227	(27.0)
History of heart attack	54	(6.4)
Definite or probable CHD on ECG^a	159	(18.9)

^aBased on 841 women. ECGs for 9 women were missing or could not be coded due to poor quality.

Supplementary Table 2. Classification of ECGs for definite or probable CHD by two observers.

Observer 1	Observer 2	
	Negative	Positive
Negative	591	30
Positive	94	122

Kappa = 0.57

Supplementary Table 3. Prevalence of definite or probable CHD changes on ECG according to history of heart attack and angina.

Other measure of CHD	Definite or probable CHD changes on ECG ^a			
	Yes		No	
	n	(%)	N	(%)
No history of heart attack or angina	105	(18.2)	471	(81.8)
History of angina	45	(19.8)	182	(80.2)
History of heart attack	14	(25.9)	40	(74.1)
History of angina or heart attack	54	(20.4)	211	(79.6)
History of angina and heart attack	5	(31.3)	11	(68.8)

^aECGs for 9 women were missing or could not be coded due to poor quality.

Supplementary Table 4. Association of hypertension with risk factors.

Risk factor	Adjusted only for age (n=850)		Fully adjusted ^a (n=850)		Fully adjusted and limited to long- term users and non-users of biomass ^b (n=693)	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
Age (per 10 year increase)	1.4	(1.2-1.6)	1.4	(1.2-1.7)	1.5	(1.2-1.7)
Educational status						
Illiterate	1.0		-		-	
Any literacy	0.6	(0.3-1.2)				
Household income/month						
<3000-10000PKR	1.0		-		-	
>10000PKR	1.0	(0.7-1.4)				
Household ownership						
Rented	1.0		-		-	
Own	0.8	(0.5-1.3)				
Construction of house						
Katcha/semi-pucca	1.0		-		-	
Pucca	0.9	(0.6-1.2)				
Number of household assets						
0-1	1.0		1.0		1.0	
2-3	1.7	(1.2-2.4)	1.6	(1.2-2.3)	1.8	(1.2-2.6)
≥4	2.4	(1.6-3.6)	2.3	(1.5-3.4)	2.7	(1.7-4.3)
Father's occupation in woman's childhood						
Non-manual	1.0		-		-	
Manual	1.2	(0.6-2.5)				
Birthweight						
Lower than normal	1.0				-	
Normal	1.0	(0.7-1.4)	-			
Higher than normal	1.0	(0.6-1.5)				
Ever hungry during all the time during childhood because there was not enough food						
No	1.0		-		-	
Yes	0.9	(0.7-1.3)				
Lost weight during childhood						
No	1.0		-		-	
Yes	1.2	(0.9-1.6)				
Ever smoked regularly (any of cigarettes, bidi, huqqa)						
Never	1.0		-		-	
Ever	0.8	(0.5-1.3)				
Environmental tobacco smoke (at least one other household member smokes cigarettes, bidi or huqqa in the home)						
No	1.0		-		-	
Yes	0.8	(0.6-1.1)				
Consumption of meat or eggs						

Do not eat either meat or eggs as much as once per week	1.0		1.0		1.0	
Eat one of meat or eggs as much as once per week	1.4	(1.0-1.9)	1.2	(0.9-1.7)	1.2	(0.8-1.7)
Eat both meat and eggs at least once per week	1.4	(1.0-2.1)	1.2	(0.8-1.8)	1.2	(0.8-1.9)
Current nutrition^c						
Neither BMI nor WHR high	1.0		1.0		1.0	
One of BMI or WHR high	1.2	(0.9-1.7)	1.2	(0.8-1.6)	1.2	(0.8-1.8)
Both BMI and WHR high	2.0	(1.4-2.9)	1.9	(1.3-2.8)	1.8	(1.2-2.7)
Non-user of biomass	1.0		1.0			
User of biomass	1.2	(0.9-1.5)	1.0	(0.8-1.4)		
Long-term non-user of biomass	1.0				1.0	
Long-term user of biomass	1.2	(0.9-1.7)			1.1	(0.8-1.6)

^aMutually adjusted risk estimates derived from a single regression model that included use of biomass and all of the variables that were significant ($p < 0.1$) in analyses adjusted only for age

^bMutually adjusted risk estimates derived from a single regression model that included use of biomass and all of the variables that were significant ($p < 0.1$) in analyses adjusted only for age, but was restricted to women who were long-term users or non-users of biomass

^cBody mass index (BMI) (kg/m^2) $\geq 25 = \text{high}$; *Waist-to-hip ratio (WHR)* $\geq 0.85 = \text{high}$.

Supplementary Table 5. Associations of angina with risk factors.

Risk factor	Adjusted only for age (n=850)		Fully adjusted ^a (n=850)		Fully adjusted and limited to long- term users and non-users of biomass ^b (n=693)	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
Age (per 10 year increase)	1.3	(1.1-1.6)	1.3	(1.1-1.5)	1.3	(1.1-1.5)
Educational status						
Illiterate	1.0		-		-	
Any literacy	0.6	(0.3-1.3)				
Household income/month						
<3000-10000PKR	1.0		-		-	
>10000PKR	1.1	(0.8-1.6)				
Household ownership						
Rented	1.0		-		-	
Own	0.8	(0.5-1.3)				
Construction of house						
Katcha/semi-pucca	1.0		-		-	
Pucca	1.2	(0.8-1.7)				
Number of household assets						
0-1	1.0		-		-	
2-3	0.9	(0.6-1.3)				
≥4	1.0	(0.6-1.5)				
Father's occupation in woman's childhood						
Non-manual	1.0		-		-	
Manual	0.7	(0.3-1.4)				
Birthweight						
Lower than normal	1.0				-	
Normal	1.2	(0.8-1.8)	-			
Higher than normal	1.1	(0.7-1.8)				
Ever hungry during all the time during childhood because there was not enough food						
No	1.0		-		-	
Yes	0.8	(0.6-1.1)				
Lost weight during childhood						
No	1.0		-		-	
Yes	1.0	(0.8-1.4)				
Ever smoked regularly (any of cigarettes, bidi, huqqa)						
Never	1.0		1.0		1.0	
Ever	2.1	(1.3-3.3)	2.0	(1.2-3.2)	2.1	(1.3-3.6)
Environmental tobacco smoke (at least one other household member smokes cigarettes, bidi or huqqa in the home)						
No	1.0		-		-	
Yes	1.2	(0.9-1.6)				
Consumption of meat or eggs						

Do not eat either meat or eggs as much as once per week	1.0		1.0		1.0	
Eat one of meat or eggs as much as once per week	0.6	(0.4-0.8)	0.6	(0.4-0.8)	0.7	(0.5-1.0)
Eat both meat and eggs at least once per week	0.4	(0.3-0.7)	0.5	(0.3-0.7)	0.5	(0.3-0.8)
Current nutrition^c						
Neither BMI nor WHR high	1.0					
One of BMI or WHR high	0.8	(0.5-1.1)	-			
Both BMI and WHR high	0.8	(0.5-1.2)				
Non-user of biomass	1.0					
User of biomass user	1.0	(0.7-1.3)	1.0	(0.8-1.4)		
Long-term non-user of biomass	1.0				1.0	
Long-term non-user of biomass	1.2	(0.9-1.7)			1.3	(0.9-1.9)

^aMutually adjusted risk estimates derived from a single regression model that included use of biomass and all of the variables that were significant ($p < 0.1$) in analyses adjusted only for age

^bMutually adjusted risk estimates derived from a single regression model that included use of biomass and all of the variables that were significant ($p < 0.1$) in analyses adjusted only for age, but was restricted to women who were long-term users or non-users of biomass

^cBody mass index (BMI) (kg/m^2) $\geq 25 = \text{high}$; Waist-to-hip ratio (WHR) $\geq 0.85 = \text{high}$.

Supplementary Table 6. Associations of previous history of heart attack (diagnosed by a physician) with risk factors.

Risk factor	Adjusted only for age (n=850) ^a		Fully adjusted ^b (n=850)		Fully adjusted and limited to long-term users and non-users of biomass ^c (n=693)	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
Age (per 10 year increase)	1.5	(1.2-2.0)	1.5	(1.2-2.0)	1.5	(1.2-2.0)
Educational status						
Illiterate	1.0		-		-	
Any literacy	1.5	(0.5-4.5)				
Household income/month						
<3000-10000PKR	1.0		1.0		1.0	
>10000PKR	1.6	(0.9-2.9)	1.4	(0.8-2.5)	1.6	(0.8-3.1)
Household ownership						
Rented	1.0		-		-	
Own	1.2	(0.4-3.4)				
Construction of house						
Katcha/semi-pucca			-		-	
Pucca	1.3	(0.7-2.3)				
Number of household assets						
0-1	1.0		1.0		1.0	
2-3	1.4	(0.7-2.7)	1.3	(0.7-2.5)	1.8	(0.8-3.8)
≥4	2.1	(1.0-4.3)	1.8	(0.8-3.8)	2.1	(0.9-5.1)
Father's occupation in woman's childhood						
Non-manual	1.0		-		-	
Manual	1.0	(0.2-4.5)				
Birthweight						
Lower than normal	1.0				-	
Normal	1.0	(0.5-1.9)	-			
Higher than normal	0.7	(0.3-1.7)				
Ever hungry during all the time during childhood because there was not enough food						
No	1.0		-		-	
Yes	1.0	(0.6-1.7)				
Lost weight during childhood						
No	1.0		-		-	
Yes	1.1	(0.6-1.9)				
Ever smoked regularly (any of cigarettes, bidi, huqqa)						
Never	1.0		-		-	
Ever	0.9	(0.4-2.1)				
Environmental tobacco smoke (at least one other household member smokes cigarettes, bidi or huqqa in the home)						
No	1.0		-		-	
Yes	0.9	(0.5-1.6)				
Consumption of meat or eggs						

Do not eat either meat or eggs as much as once per week	1.0		-		
Eat one of meat or eggs as much as once per week	1.2	(0.6-2.3)			
Eat both meat and eggs at least once per week	1.8	(0.9-3.5)			
Current nutrition^d					
Neither BMI nor WHR high	1.0		1.0	1.0	
One of BMI or WHR high	1.3	(0.6-2.5)	1.2	(0.6-2.5)	1.6 (0.7-3.4)
Both BMI and WHR high	2.0	(1.0-4.0)	1.9	(0.9-3.7)	1.7 (0.8-3.6)
Non-user of biomass	1.0		1.0		-
Use of biomass	1.4	(0.8-2.4)	1.2	(0.7-2.2)	
Long-term non-user of biomass	1.0				1.0
Long-term user of biomass	1.5	(0.8-2.7)			1.3 (0.7-2.4)

^aMutually adjusted risk estimates derived from a single regression model that included use of biomass and all of the variables that were significant ($p < 0.1$) in analyses adjusted only for age

^bMutually adjusted risk estimates derived from a single regression model that included use of biomass and all of the variables that were significant ($p < 0.1$) in analyses adjusted only for age, but was restricted to women who were long-term users or non-users of biomass

^aBody mass index (BMI) (kg/m^2) ≥ 25 = high; Waist-to-hip ratio (WHR) ≥ 0.85 = high.

Supplementary Table 7. Associations of definite or probable CHD on ECG with risk factors.

Risk factor	Adjusted only for age (n=841)		Fully adjusted ^a (n=841)		Fully adjusted and limited to long-term users and non-users of biomass ^b (n=686)	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
Age (per 10 year increase)	1.1	(0.9-1.3)	1.1	(0.9-1.3)	1.0	(0.8-1.3)
Educational status						
Illiterate	1.0		-		-	
Any literacy	0.8	(0.4-1.7)				
Household income/month						
<3000-10000PKR	1.0		1.0		1.0	
>10000PKR	1.6	(1.1-2.3)	1.6	(1.1-2.4)	1.3	(0.8-2.0)
Household ownership						
Rented	1.0		-		-	
Own	1.4	(0.7-2.9)				
Construction of house						
Katcha/semi-pucca	1.0		-		-	
Pucca	1.0	(0.7-1.5)				
Number of household assets						
0-1	1.0		-		-	
2-3	1.0	(0.7-1.5)				
≥4	1.3	(0.8-2.1)				
Father's occupation in woman's childhood						
Non-manual	1.0		-		-	
Manual	1.0	(0.4-2.3)				
Birthweight						
Lower than normal	1.0				-	
Normal	1.1	(0.7-1.7)	-			
Higher than normal	1.1	(0.7-1.9)				
Ever hungry during all the time during childhood because there was not enough food						
No	1.0		-		-	
Yes	1.1	(0.8-1.6)				
Lost weight during childhood						
No	1.0		-		-	
Yes	0.8	(0.6-1.2)				
Ever smoked regularly (any of cigarettes, bidi, huqqa)						
Never	1.0		-		-	
Ever	1.0	(0.6-1.8)				
Environmental tobacco smoke (at least one other household member smokes cigarettes, bidi or huqqa in the home)						
No	1.0				-	
Yes	0.9	(0.6-1.3)	-			
Consumption of meat or eggs						

Do not eat either meat or eggs as much as once per week	1.0			
Eat one of meat or eggs as much as once per week	0.9	(0.6-1.4)		
Eat both meat and eggs at least once per week	1.2	(0.7-1.8)		
Current nutrition^c				
Neither BMI nor WHR high	1.0			
One of BMI or WHR high	0.8	(0.5-1.2)	-	
Both BMI and WHR high	1.1	(0.7-1.6)		
Non-user of biomass user	1.0		1.0	
User of biomass	0.8	(0.6-1.2)	0.8	(0.6-1.2)
Longterm non-user of biomass	1.0			1.0
Longterm user of biomass	0.9	(0.6-1.3)		0.9 (0.6-1.3)

^aECGs were missing for 9 women or not codable due to poor quality.

^bMutually adjusted risk estimates derived from a single regression model that included use of biomass and all of the variables that were significant ($p < 0.1$) in analyses adjusted only for age

^cMutually adjusted risk estimates derived from a single regression model that included use of biomass and all of the variables that were significant ($p < 0.1$) in analyses adjusted only for age, but was restricted to women who were long-term users or non-users of biomass

^dBody mass index (BMI) (kg/m^2) $\geq 25 = \text{high}$; Waist-to-hip ratio (WHR) $\geq 0.85 = \text{high}$.