Supplementary Material

Additional tables – The frequency distribution and association (chi-square) between General obesity (BMI) versus overall central obesity (WC, WHtR, WHR), Pre-HTN, HTN, Pre-DM, DM), n = 381, Ethiopia.

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Table 01 Frequency distribution of central obesity defined by either WC, WHtR, WHR of the study population stratified by BMI category, North West Ethiopia (n = 381).

Central obesity defined by WC/WHtR/WHR versus BMI category									
	BMI category							Total	
				Norn	nal	Pre-obese	Obese		
Control obosity (MC WIII	4D WIID)	Non Obese	Count (% within BMI category)	121 (4	4%)	4 (4.4%)	3 (18.8%)	128 (33.6%)	
Central obesity (WC, WH	Central obesity (WC, WHtR, WHR)		Count (% within BMI category)	154 (5	6%)	86 (95.6%)	13(81.2%)	253 (66.4%)	
Total	Total			275 (10	00%)	90 (100%)	16(100%)	381 (100%)	
		Chi-Square T	'ests						
	Value	df	Asymp. Sig. (2-sided)						
Pearson Chi-Square	49.207 ^a	2	.000						
Likelihood Ratio	60.967	2	.000						
N of Valid Cases									
a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 5.38.									

Table 02 Frequency distribution of pre-hypertension based on measured systolic and/or diastolic blood pressure of the study population stratified by BMI category, North West Ethiopia (n = 381).

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Pro	e-hypertension	(raised	l systolic and/or dias	tolic BP)	ver	sus BMI categor	ry	
	BMI category							Total
				Norm	Normal Pre-obese Obese			
Pre-hypertensive	No	Count (% within BMI category)	179 (65.1	l%)	46 (51.1%)	6 (37.5%)	231 (60.6%)
1 re-my per tensive	Yes	Count (% within BMI category)		96 (34.99	%)	44 (48.9%)	10 (62.5%)	150 (39.4%)
Total		Count (% within BMI category)		275 (100	%)	90 (100%)	16 (100%)	381(100%)
	Chi-Square T	ests						
	Value	df	Asymp. Sig. (2-side	ed)				
Pearson Chi-Square	9.295a	2		.010				
Likelihood Ratio	9.148	2		.010				
Linear-by-Linear Association	9.270	1		.002				
N of Valid Cases	381							
a. 0 cells (0.0%) have expected cou	nt less than 5. The	minimu	m expected count is 6.30.					

Table 03 Frequency distribution of hypertension based on self-reported and/or measured systolic and/or diastolic blood pressure of the study population stratified by BMI category, North West Ethiopia (n = 381).

			Hyperte	nsion versus B	MI catego	rv			
			Try per cer				SMI category		Total
					Nor	mal	Pre-obese	Obese	
Hypertensive	No		Count (% within BMI category)		249 (90.5%)	64 (71.1%)	15 (93.8%)	328 (86.1%)
	Yes		Count (% within BMI category)		26 (9.5%)		26 (28.9%)	1 (6.2%)	53 (13.9%)
Total	Count (% within		nin BMI category)	275 (100.0%)		90 (100.0)	16(100%)	381 (100%)	
	Chi-Squ	iare Te	ests						
		Value	e df	Asymp. Sig. (2	-sided)				
Pearson Chi-Square		22.204	4 ^a	2	.000				
Likelihood Ratio	elihood Ratio 19.545 2		.000						
Linear-by-Linear Association		8.81	4	1	.003				
N of Valid Cases		38	31						
a. 1 cells (16.7%) have expected co	ount less that	n 5. The	e minimum ex	pected count is 2.2	3.				

Table 04 Frequency distribution of impaired fasting glucose based on measured fasting glucose of the study population stratified by BMI category, North West Ethiopia (n = 381).

Pre-diabetes (Impaired fasting glucose) versus BMI category									
]	BMI categor	ry	Total			
			Normal	Pre-obese	Obese				
B 11 1 4 1114	No	Count (% within BMI category	227 (82.5%	56(62.2%	9 (56.2%)	292 (76.6%)			
Pre-diabetes mellitus	Yes	Count (% within BMI category	48 (17.5%	34 (37.8%	7 (43.8%)	89 (23.4%)			
Total		275 (100%)	90 (100%)	16 (100.0%)	381 (100.0%)				

Chi-Square Tests								
	Value	Df	Asymp. Sig. (2-sided)					
Pearson Chi-Square	19.523 ^a	2	.000					
Likelihood Ratio	18.286	2	.000					
Linear-by-Linear Association	18.434	1	.000					
N of Valid Cases 381								
a. 1 cells (16.7%) have expected count less than 5. The minimum expected count is 3.74.								

Table 05 Frequency distribution of diabetes mellitus based on self-reported and/or measured fasting glucose of the study population stratified by BMI category, North West Ethiopia (n = 381).

Self-reported/fasting blood glucose based Diabetes mellitus versus BMI category								
				BMI category	y	Total		
			Normal	Pre-obese	Obese			
Diahataa mallitus	No	Count (% within BMI category	262 (95.3%)	88 (97.8%)	14 (87.5%)	364 (95.5%)		
Diabetes mellitus Yes		Count (% within BMI category	13 (4.7%)	2 (2.2%)	2 (12.5%)	17 (4.5%)		
Total	·	Count (% within BMI category	275 (100%)	90 (100%)	16 (100.0%	381 (100%)		

Chi-Square Tests								
	Value	df	Asymp. Sig. (2-sided)					
Pearson Chi-Square	3.530^{a}	2	.171					
Likelihood Ratio	2.994	2	.224					
Linear-by-Linear Association	.063	1	.802					
N of Valid Cases 381								
a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .71.								