

SUPPLEMENTARY DATA

Supplementary Table 1. Cardiometabolic Factors in HCHS/SOL Examinees According to the 2009 AHA/NHLBI Classification of the Metabolic Syndrome, by Age Group and Number of Factors, 2008-2011. Women (N=9789).

Age Group	Metabolic Syndrome	N of Risk Factors*	Sample Count	Waist > Cut Point ¹		Elevated TG ²		Low HDL-C ³		Elevated BP ⁴			Elevated Fast. Glucose ⁵		
				% (SE)	Median waist	%(SE)	Median TG	% (SE)	Median HDL-C	% (SE)	Median SBP	% on Trmnt.	% (SE)	Median FG	% on Trmnt.
18-44 yrs	Absent	0	752	0.0 (0.00)	79.1	0.0 (0.00)	61.9	0.0 (0.00)	59.9	0.0 (0.00)	102.9	0.0	0.0 (0.00)	86.7	0.0
		1	1080	62.0 (2.06)	89.8	2.6 (0.69)	75.6	32.1 (2.03)	53.5	2.0 (0.41)	105.0	0.7	2.1 (0.51)	87.9	0.6
		2	1097	91.3 (1.38)	97.7	8.6 (1.10)	94.8	79.4 (1.63)	43.8	9.3 (1.13)	106.6	5.5	11.5 (1.42)	90.4	1.8
	Present	3	592	96.8 (0.77)	103.5	57.1 (2.91)	159.6	90.8 (1.48)	41.7	25.8 (2.56)	109.6	17.5	30.8 (2.45)	93.3	12.0
		4	212	98.4 (1.06)	105.7	77.9 (3.31)	182.0	95.5 (1.63)	39.6	49.7 (4.15)	118.4	34.2	79.4 (3.17)	106.4	20.7
		5	46	100.0 (0.00)	107.1	100.0 (0.00)	183.7	100.0 (0.00)	38.2	100.0 (0.00)	119.8	82.5	100.0 (0.00)	114.9	49.7
45-64 yrs	Absent	0	335	0.0 (0.00)	80.5	0.0 (0.00)	81.7	0.0 (0.00)	62.9	0.0 (0.00)	110.9	0.0	0.0 (0.00)	88.6	0.0
		1	977	68.2 (2.06)	91.2	4.0 (0.85)	94.0	9.3 (1.24)	57.8	14.6 (1.48)	115.6	7.0	4.4 (0.77)	90.1	1.0
		2	1286	85.8 (1.40)	97.1	15.1 (1.28)	103.9	26.4 (1.75)	54.7	48.7 (2.13)	122.9	32.8	24.8 (1.96)	93.8	8.2
	Present	3	1281	93.2 (1.25)	100.2	39.2 (2.53)	131.6	54.3 (2.46)	47.8	62.4 (2.56)	124.5	45.9	51.5 (2.50)	98.3	22.7
		4	906	97.3 (0.72)	101.3	70.6 (2.16)	175.9	83.1 (1.65)	42.7	77.5 (2.15)	129.8	58.6	71.5 (2.02)	103.7	29.3
		5	403	100.0 (0.00)	104.7	100.0 (0.00)	221.1	100.0 (0.00)	39.9	100.0 (0.00)	131.8	81.1	100.0 (0.00)	117.4	55.5
65-74 yrs	Absent	0	9	0.0 (0.00)	78.6	0.0 (0.00)	58.0	0.0 (0.00)	72.1	0.0 (0.00)	118.2	0.0	0.0 (0.00)	90.5	0.0
		1	71	38.3 (8.98)	85.7	3.1 (2.65)	103.9	0.9 (0.67)	59.7	44.3 (9.04)	125.6	21.2	13.5 (8.81)	93.0	11.8

SUPPLEMENTARY DATA

Age Group	Metabolic Syndrome	N of Risk Factors*	Sample Count	Waist > Cut Point ¹		Elevated TG ²		Low HDL-C ³		Elevated BP ⁴			Elevated Fast. Glucose ⁵		
				% (SE)	Median waist	%(SE)	Median TG	% (SE)	Median HDL-C	% (SE)	Median SBP	% on Trmnt.	% (SE)	Median FG	% on Trmnt.
		2	196	81.6 (3.99)	97.2	10.5 (3.13)	108.9	15.0 (3.78)	57.4	75.8 (4.47)	132.7	52.2	18.1 (4.09)	93.7	8.4
	Present	3	266	92.5 (2.64)	99.6	20.9 (3.52)	116.0	25.0 (3.86)	55.4	91.3 (2.63)	143.2	73.8	72.3 (3.83)	104.0	37.9
		4	185	93.0 (2.77)	101.1	64.3 (4.99)	163.2	62.6 (5.09)	48.0	96.0 (1.52)	140.9	78.1	84.2 (3.57)	105.0	38.4
		5	95	100.0 (0.00)	106.3	100.0 (0.00)	202.7	100.0 (0.00)	42.5	100.0 (0.00)	138.1	91.1	100.0 (0.00)	121.6	55.9

Note: Weighted results for HCHS/SOL study population. SE, standard error; TG, triglycerides; HDL-C, high density cholesterol; BP, blood pressure. 1: ≥ 102 cm for men; ≥ 88 cm for women; 2: ≥ 150 mg/dL (1.7 mmol /L); 3: < 40 mg/dL (1.0 mmol /L) for men, < 50 mg/dL (1.3 mmol /L) for women; 4: ≥ 130 mm Hg systolic and/or ≥ 85 mm Hg diastolic, or on drug treatment; 5: ≥ 100 mg/dL or on drug treatment.

SUPPLEMENTARY DATA

Supplementary Table 2. Cardiometabolic Factors in HCHS/SOL Examinees According to the 2009 AHA/NHLBI Classification of the Metabolic Syndrome, by Age Group and Number of Factors, 2008-2011. Men (N=6530).

Age Group	Metabolic Syndrome	N of Risk Factors*	Sample Count	Waist > Cut Point ¹		Elevated TG ²		Low HDL-C ³		Elevated BP ⁴			Elevated FG ⁵		
				% (SE)	Median waist	%(SE)	Median TG	% (SE)	Median HDL-C	% (SE)	Median SBP	% on Trtmt.	% (SE)	Median FG	% on Trtmt.
18-44 yrs	Absent	0	801	0.0 (0.00)	86.7	0.0 (0.00)	73.5	0.0 (0.00)	49.3	0.0 (0.00)	114.8	0.0	0.0 (0.00)	90.8	0.0
		1	756	20.5 (1.90)	93.0	14.5 (1.56)	96.7	27.2 (2.03)	43.9	14.4 (1.71)	116.8	3.3	23.6 (2.25)	93.9	6.1
		2	654	45.2 (2.74)	99.4	43.1 (2.71)	133.1	46.1 (2.81)	39.7	29.7 (2.22)	119.5	14.2	36.1 (2.31)	95.4	5.4
		3	406	65.2 (3.13)	104.5	72.3 (2.68)	178.9	77.4 (2.58)	35.7	34.0 (3.10)	121.8	13.4	51.6 (3.46)	99.3	8.9
		4	207	88.2 (2.76)	108.7	88.9 (2.55)	218.1	80.6 (4.39)	34.9	61.4 (4.49)	127.1	25.8	80.9 (3.83)	104.0	15.9
45-64 yrs	Absent	0	369	0.0 (0.00)	89.2	0.0 (0.00)	83.1	0.0 (0.00)	51.2	0.0 (0.00)	114.6	0.0	0.0 (0.00)	92.1	0.0
		1	633	16.7 (3.91)	93.7	13.2 (1.81)	101.6	10.4 (1.82)	46.9	35.6 (2.73)	121.3	14.9	25.1 (2.38)	95.1	5.9
		2	840	32.0 (2.20)	97.5	36.5 (2.21)	127.2	26.1 (2.18)	43.6	58.4 (2.25)	127.4	37.9	47.9 (2.23)	98.3	14.7
		3	749	60.5 (2.52)	103.8	58.4 (2.43)	163.1	44.4 (2.86)	40.3	67.7 (2.57)	130.0	49.5	69.5 (2.26)	102.5	24.8
		4	406	73.7 (2.94)	105.9	84.4 (2.40)	196.0	69.8 (3.28)	35.6	83.5 (2.62)	131.8	55.3	88.8 (1.66)	109.3	33.2
65-74 yrs	Absent	0	25	0.0 (0.00)	91.0	0.0 (0.00)	74.8	0.0 (0.00)	50.3	0.0 (0.00)	119.0	0.0	0.0 (0.00)	91.2	0.0
		1													
		2													
		3													
		4													

SUPPLEMENTARY DATA

Age Group	Metabolic Syndrome	N of Risk Factors*	Sample Count	Waist > Cut Point ¹		Elevated TG ²		Low HDL-C ³		Elevated BP ⁴			Elevated FG ⁵		
				% (SE)	Median waist	%(SE)	Median TG	% (SE)	Median HDL-C	% (SE)	Median SBP	% on Trtm t.	% (SE)	Median FG	% on Trtm t.
		1	72	10.6 (4.44)	94.0	0.7 (0.53)	92.7	2.2 (1.70)	51.2	69.9 (7.40)	133.7	28.6	16.7 (6.39)	95.2	5.0
		2	131	17.2 (5.16)	96.3	10.4 (3.09)	110.6	12.6 (3.56)	47.2	83.7 (3.92)	135.7	64.3	76.6 (5.18)	104.7	31.4
	Present	3	147	62.8 (4.82)	103.6	38.8 (5.14)	128.7	24.2 (4.57)	45.4	96.7 (1.09)	134.2	79.1	77.6 (4.68)	106.9	44.8
		4	87	85.2 (4.46)	108.0	66.4 (6.82)	179.1	63.5 (6.70)	36.9	92.3 (5.46)	134.6	77.2	94.4 (2.81)	120.0	50.0
		5	33	100.0 (0.00)	111.0	100.0 (0.00)	257.6	100.0 (0.00)	34.5	100.0 (0.00)	138.9	92.8	100.0 (0.00)	119.2	70.2

Note: Weighted results for HCHS/SOL study population. SE, standard error; TG, triglycerides; HDL-C, high density cholesterol; BP, blood pressure.

1: ≥ 102 cm for men; ≥ 88 cm for women; 2: ≥ 150 mg/dL (1.7 mmol /L); 3: < 40 mg/dL (1.0 mmol /L) for men, < 50 mg/dL (1.3 mmol /L) for women; 4: ≥ 130 mm Hg systolic and/or ≥ 85 mm Hg diastolic, or on drug treatment; 5: ≥ 100 mg/dL or on drug treatment.

SUPPLEMENTARY DATA

Supplementary Table 3. Age-standardized* Prevalence (95% Confidence Interval) of the Metabolic Syndrome† by Hispanic/Latino Background, Sex, and Selected Characteristics of the HCHS/SOL Study Population. Waist Circumference Threshold Values † as Recommended for Ethnic South and Central Americans by Alberti KG et al. *Circulation*. 2009;120:1640-1645. HCHS/SOL Baseline Examination, 2008-2011.

	Men and Women		Women		Men	
	N	Prevalence (CI)	N	Prevalence (CI)	N	Prevalence (CI)
Overall	16319	41.4 (40.33, 42.47)	9789	38.5 (37.09, 39.97)	6530	44.5 (43.00, 45.94)
Hispanic Background	16238	41.3 (40.24, 42.38)	9740	38.4 (36.98, 39.87)	6498	44.4 (42.93, 45.87)
Dominican	1457	37.9 (35.25, 40.66)	953	34.1 (30.86, 37.42)	504	44.3 (39.87, 48.85)
Central American	1725	42.7 (40.05, 45.45)	1046	41.4 (38.43, 44.40)	679	43.9 (39.80, 48.01)
Cuban	2343	41.1 (39.06, 43.24)	1247	37.4 (34.45, 40.47)	1096	44.4 (41.64, 47.16)
Mexican	6451	41.7 (39.75, 43.61)	4014	38.3 (35.75, 40.85)	2437	45.7 (43.11, 48.32)
Puerto Rican	2702	42.2 (39.44, 45.03)	1575	42.9 (39.30, 46.65)	1127	41.3 (37.16, 45.55)
South American	1063	34.1 (30.98, 37.45)	631	29.3 (25.67, 33.20)	432	39.0 (33.93, 44.28)
Mixed/Other	497	44.0 (37.64, 50.60)	274	43.3 (34.53, 52.51)	223	46.0 (37.64, 54.52)
Age Group (yrs)	16319	41.4 (40.33, 42.47)	9789	38.5 (37.09, 39.97)	6530	44.5 (43.00, 45.94)
18-29	2644	16.1 (14.38, 17.98)	1417	13.9 (11.55, 16.72)	1227	18.2 (15.83, 20.92)
30-39	2375	31.6 (29.31, 33.96)	1375	25.6 (22.35, 29.11)	1000	37.9 (34.07, 41.79)
40-49	4194	43.0 (40.70, 45.26)	2567	39.1 (36.38, 41.89)	1627	47.1 (43.89, 50.37)
50-59	4323	56.4 (53.54, 59.17)	2723	54.5 (51.06, 57.87)	1600	58.7 (54.97, 62.43)

SUPPLEMENTARY DATA

	Men and Women		Women		Men	
	N	Prevalence (CI)	N	Prevalence (CI)	N	Prevalence (CI)
60-69	2283	65.1 (62.18, 67.98)	1394	64.0 (59.67, 68.18)	889	66.4 (62.13, 70.44)
70-74	500	75.0 (68.63, 80.48)	313	76.2 (68.05, 82.86)	187	73.1 (64.22, 80.44)
BMI	16319	41.4 (40.33, 42.47)	9789	38.5 (37.09, 39.97)	6530	44.5 (43.00, 45.94)
Under/Normal	3301	15.6 (14.13, 17.15)	1938	18.3 (16.32, 20.49)	1363	12.8 (10.80, 15.02)
Overweight	6081	39.4 (37.71, 41.03)	3360	34.4 (32.14, 36.79)	2721	43.9 (41.65, 46.11)
Obese	6877	56.2 (54.20, 58.09)	4459	51.4 (48.78, 53.93)	2418	62.2 (59.40, 64.93)
Missing	60	53.3 (37.49, 68.44)	32	51.1 (32.29, 69.67)	28	49.6 (36.71, 62.57)
Born in the U.S.	16319	41.4 (40.33, 42.47)	9789	38.5 (37.09, 39.97)	6530	44.5 (43.00, 45.94)
Yes	2834	40.7 (37.55, 43.92)	1593	39.9 (36.29, 43.56)	1241	40.3 (35.43, 45.45)
No	13418	41.2 (40.00, 42.32)	8156	38.0 (36.54, 39.51)	5262	44.7 (42.97, 46.37)
Missing	67	64.8 (48.58, 78.13)	40	66.9 (45.42, 83.12)	27	56.0 (43.40, 67.92)
Language preference	16319	41.4 (40.33, 42.47)	9789	38.5 (37.09, 39.97)	6530	44.5 (43.00, 45.94)
Spanish	13059	42.0 (40.86, 43.13)	7967	39.0 (37.48, 40.44)	5092	45.4 (43.81, 46.99)
English	3260	37.1 (34.14, 40.09)	1822	35.7 (31.57, 40.00)	1438	39.2 (35.33, 43.18)
Diabetes Status	16319	41.4 (40.33, 42.47)	9789	38.5 (37.09, 39.97)	6530	44.5 (43.00, 45.94)
Diabetic	3375	76.2 (72.19, 79.83)	2089	79.6 (74.63, 83.78)	1286	72.7 (66.62, 78.06)

SUPPLEMENTARY DATA

	Men and Women		Women		Men	
	N	Prevalence (CI)	N	Prevalence (CI)	N	Prevalence (CI)
Non-diabetic	12926	34.7 (33.49, 35.97)	7690	31.2 (29.55, 32.83)	5236	38.6 (36.81, 40.35)
Missing	18	45.0 (32.79, 57.74)	10	29.3 (17.18, 45.27)	8	40.7 (20.65, 64.32)

* Values weighted for survey design and nonresponse and age standardized to the Census 2010 U.S. population. CI: 95% Confidence Interval. †: Threshold values used in the definition of the metabolic syndrome are: Waist: ≥ 90 cm for men; ≥ 80 cm for women; Fasting triglycerides: ≥ 150 mg/dL (1.7 mmol /L); Low HDL-C: < 40 mg/dL (1.0 mmol /L) for men, < 50 mg/dL (1.3 mmol /L) for women; Elevated blood pressure: ≥ 130 mm Hg systolic and/or ≥ 85 mm Hg diastolic, or on drug treatment; Elevated fasting glucose: ≥ 100 mg/dL or on drug treatment.