

VARIABLES	Global (N=873)	FEMALE (N=461)	MALE (N=412)	P-VALUE
Age (years)	13.9 (13.8-13.9)	13.9 (13.7-14.0)	13.9 (13.7-14.0)	0.873
BMI (kg/m ²)	21.5 (21.3-21.8)	21.5 (21.1-21.8)	21.6 (21.2-21.9)	0.720
NW % (n)	71.8 (625)	75.7 (349)	67.3 (276)	0.006
OW+Obesity % (n)	28.2 (246)	24.3 (112)	32.7 (134)	0.006
SBP (mmHg)	113.9 (113.0-114.7)	111.5 (110.3-112.6)	116.6 (115.3-117.8)	<0.001
DBP (mmHg)	64.7 (64.0-65.4)	64.2 (63.2-65.2)	65.4 (64.4-66.3)	0.099
Glucose mg/dl	90.5 (10.6)	89.0 (10.2)	92.3 (10.4)	<0.001
Insulin (μU/ml)	7.44 (4.4)	7.54 (4.28)	7.32 (4.67)	0.249
HOMA-IR	1.65 (1.06)	1.64 (0.98)	1.99 (1.14)	0.867
TC (mg/dL)	163.9 (162.0-165.8)	168.1 (165.6-170.7)	159.2 (156.6-161.9)	<0.001
TG (mg/dl)	72.3 (70.5-74.0)	71.7 (69.4-74.0)	73.0 (70.2-75.8)	0.477
LDL-C (mg/dL)	94.9 (93.2-96.6)	97.3 (94.9-99.7)	92.3 (89.9-94.7)	0.004
HDL-C (mg/dL)	52.5 (51.5-53.5)	54.6 (53.2-55.9)	50.2 (48.8-51.7)	<0.001
TG/HDL-C ratio	1.43 (1.38-1.48)	1.36 (1.30-1.43)	1.51 (1.43-1.60)	0.004

Table 1.

ACE2 SNPs	FEMALE			MALE	
	GENOTYPES FREQUENCIES % (n)	n	ALLELE (%)	n	ALLELE (%)
rs4646188 A/G	AA: 80.7 (359)	445	A: 89.9	391	A: 91.6
	AG: 18.4 (82)		G: 10.1		G: 8.4
	GG: 0.9 (4)				
rs879922 G/C	GG: 33.2 (144)	434	G: 57.6	374	G: 60.7
	GC: 48.8 (212)		C: 42.4		C: 39.3
	CC: 18.0 (78)				
rs233575 A/G	AA: 36.8 (164)	446	A: 60.8	389	A: 62.7
	AG: 48.0 (214)		G: 39.2		G: 37.3
	GG: 15.2 (68)				
rs2074192 C/T	CC: 37.0 (164)	443	C: 59.9	390	C: 58.5
	CT: 45.8 (203)		T: 40.10		T: 41.5
	TT: 17.2 (76)				
rs2158083 T/C	TT: 38.4 (171)	445	T: 61.55	391	T: 63.7
	TC: 46.3 (206)		C: 38.45		C: 36.3
	CC: 15.3 (68)				

Table 2.

ACE2 SNPs	NW % (n)	OW+Obesity % (n)	Pearson Chi-Square	OR (95%IC)
rs4646188 A/G				
AA	76.6 (275)	23.4 (84)	0.841	-
AG + GG	75.6 (65)	24.4.0 (21)		
rs879922 C/G				
GG	81.9 (118)	18.1 (26)	0.042	1.67 (1.02-2.75)
GC + CC	73.1 (212)	26.9 (78)		
rs233575 A/G				
AA	83.5 (137)	16.5 (27)	0.006	1.98 (1.21-3.22)
AG + GG	72 (203)	28.0 (79)		
rs2074192 C/T				
CC	72.6 (119)	27.4 (45)	0.131	-
CT + TT	78.9 (220)	21.1 (59)		
rs2158083 C/T				
TT	81.9 (140)	18.1 (31)	0.032	1.67 (1.04-2.68)
TC + CC	73.0 (200)	27.0 (74)		

Table 3.

<i>ACE2</i> SNPs (n)	TC (mg/dL)	TG (mg/dl)	LDL-C (mg/dL)	HDL-C (mg/dL)	TG/HDL-C ratio
rs879922 C/G					
GG (143)	166.4 (162.4-170.4)	66.9 (63.2-70.7)	95.4 (91.6-99.2)	55.72 (53.3-57.9)	1.2 (1.2-1.3)
GC (209)	171.5 (167.3-175.7)	74.0 (70.7-77.6)*	100.0 (96.3-103.9)	54.6 (52.6-56.6)	1.4 (1.3-1.5)*
CC (78)	163.2 (157.4-169.1)	71.4 (66.7-76.4)	93.0 (87.8-98.5)	53.96 (50.3-57.6)	1.4 (1.3-1.6)
rs233575 A/G					
AA (163)	166.3 (162.6-170.0)	67.6 (64.1-71.3)	95.4 (91.7-98.8)	55.6 (53.5-57.7)	1.3 (1.2-1.3)
AG (211)	171.0 (166.3-175.2)	74.7 (71.3-78.2)*	100.4 (96.5-104.2)	53.99 (52.0-55.9)	1.4 (1.4-1.5)*
GG (68)	163.8 (157.4-170.5)	71.8 (66.7-77.2)	93.5 (87.8-99.6)	53.94 (50.0-57.9)	1.4 (1.2-1.6)
rs2074192 C/T					
CC (164)	164.4 (159.9-168.9)	72.7 (69.2-76.2)	94.4 (90.4-98.6)	53.5 (51.2-55.8)	1.4 (1.3-1.5)
CT (200)	173.4 (169.6-177.3)*	72.2 (68.8-75.7)	101.1 (97.6-104.8)*	55.8 (53.7-57.8)	1.3 (1.3-1.4)
TT (75)	164.4 (159.4-169.6)#	66.9 (61.6-72.6)	95.3 (90.7-100.2)	54.0 (51.5-56.6)	1.3 (1.1-1.4)
rs2158083 C/T					
TT (170)	165.2 (161.4-169.0)	67.9 (64.7-71.4)	95.2 (91.9-98.7)	54.7 (52.7-56.6)	1.3 (1.2-1.4)
TC (203)	172.6 (168.6-176.8)*	74.3 (70.8-78.0)*	101.0 (97.3-104.9)	54.7 (52.6-56.8)	1.4 (1.3-1.5)
CC (68)	163.0 (156.7-169.6)#	72.0 (67.1-77.5)	92.6 (86.7-98.7)#	53.8 (50.2-57.4)	1.4 (1.2-1.6)

Table 4.

	rs879922	rs233575	rs2158083	Frequency
1	G	A	T	57%
2	C	G	C	34%
Rare	*	*	*	9%

Variable	ACE2 Haplotype	Non-adjusted		Adjusted by BMI	
		Coef. (95%CI)	P-value	Coef. (95%CI)	P-value
BMI	G-A-T	Reference			
	C-G-C	0.010 (0.001, 0.019)	0.038		
	Other	-0.007 (-0.021, 0.008)	0.390		
OW/ Obesity	G-A-T	Reference			
	C-G-C	1.414 (1.010, 1.979)	0.044		
	Other	0.721 (0.381, 1.361)	0.312		
TG	G-A-T	Reference		Reference	
	C-G-C	0.023 (0.002, 0.044)	0.031	0.023 (0.002, 0.044)	0.034
	Other	0.007 (-0.027, 0.041)	0.672	0.008 (-0.027, 0.042)	0.666
TG/HDL ratio	G-A-T	Reference		Reference	
	C-G-C	0.031 (0.001, 0.061)	0.045	0.028 (-0.002, 0.058)	0.071
	Other	0.024 (-0.024, 0.072)	0.328	0.026 (-0.022, 0.074)	0.289

Table 5.