

## Supplemental Online Content

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This supplemental material has been provided by the authors to give readers additional information about their work.

**eTable 1. Clinical Characteristics Stratified by Sex**

<b>Clinical Parameter</b>	<b>Men (n=60)</b>	<b>Women (n=246)</b>	<b>P Value</b>
<b>Age, y</b>	48 (11)	41 (12)	<0.001
<b>Body Mass Index, kg/m<sup>2</sup></b>	46 (8)	46 (8)	0.786
<b>Waist circumference, cm</b>	135 (16)	123 (17)	<0.001
<b>Weight, kg</b>	144 (25)	122 (24)	<0.001
<b>Glucose, mg/dl</b>	114 (47)	111 (52)	0.649
<b>Insulin, <math>\mu</math>U/ml</b>	17 (8)	15 (8)	0.154
<b>HOMA-IR</b>	6 (8)	5 (6)	0.325
<b>Triglycerides, mg/dl</b>	130 (81)	119 (66)	0.341
<b>Total Cholesterol, mg/dl</b>	179 (43)	185 (40)	0.380
<b>HDL-C, mg/dl</b>	41 (8)	49 (13)	<0.001
<b>LDL-C, mg/dl</b>	112 (34)	112 (33)	0.922
<b>HbA1C, %</b>	6.2 (1.4)	6.2 (1.7)	0.785
<b>hs-C Reactive Protein, mg/dl</b>	9.2 (13.3)	9.9 (8.7)	0.725
<b>Flow mediated dilation, %</b>	5.8 (3.3)	10.1 (5.3)	<0.001
<b>Reactive Hyperemia, % change</b>	761 (344)	752 (413)	0.891

Descriptive statistics that are normally distributed are presented as mean with standard deviation (SD), and non-normally distributed data are presented as medians with interquartile ranges (IQRs). Abbreviations: HOMA-IR: Homeostatic Model Assessment of Insulin Resistance; HDL-C: High-density lipoprotein cholesterol; LDL-C: Low-density lipoprotein cholesterol; HbA1C: Hemoglobin A1C.

**eTable 2. Clinical Characteristics Stratified by Race**

Clinical Parameter	White (n=199)	Black or other race (n=108)	P value
Female, %	77	86	0.063
Age, y	44 (12)	40 (11)	0.006
Body Mass Index, kg/m <sup>2</sup>	46 (8)	45 (7)	0.356
Waist circumference, cm	127 (18)	121 (16)	0.009
Weight, kg	127 (27)	124 (23)	0.306
Glucose, mg/dl	111 (46)	112 (59)	0.857
Insulin, $\mu$ U/ml	16 (8)	15 (8)	0.724
HOMA-IR	5 (7)	6 (7)	0.857
Triglycerides, mg/dl	129 (65)	106 (75)	0.006
Total Cholesterol, mg/dl	187 (42)	176 (37)	0.022
HDL-C, mg/dl	47 (13)	47 (12)	0.851
LDL-C, mg/dl	115 (35)	106 (29)	0.010
HbA1C, %	6.1 (1.4)	6.3 (1.9)	0.265
hs-C Reactive Protein, mg/dl	9.6 (10.3)	10.5 (9.0)	0.485
Flow mediated dilation, %	8.7 (4.9)	10.3 (5.6)	0.014
Reactive Hyperemia, % change	739 (378)	789 (440)	0.368

Descriptive statistics that are normally distributed are presented as mean with standard deviation (SD), and non-normally distributed data are presented as medians with interquartile ranges (IQRs). Abbreviations: HOMA-IR: Homeostatic Model Assessment of Insulin Resistance; HDL-C: High-density lipoprotein cholesterol; LDL-C: Low-density lipoprotein cholesterol; HbA1C: Hemoglobin A1C.

**eTable 3. Clinical Characteristics of Participants With Metabolically Unhealthy Obesity (MUHO) vs Metabolically Healthy Obesity (MHO)**

Clinical Parameter	MUHO (n=222)	MHO (n=78)	P value
Female, %	77	88	0.023
Age, y	45 (12)	37 (11)	<0.001
Body Mass Index, kg/m <sup>2</sup>	46 (8)	45 (6)	0.629
Waist circumference, cm	127 (17)	119 (17)	0.001
Weight, kg	126 (26)	123 (22)	0.254
Glucose, mg/dl	120 (57)	89 (10)	<0.001
Insulin, $\mu$ IU/ml	16 (8)	13 (7)	<0.001
HOMA	6.4 (7.6)	2.8 (1.5)	<0.001
Triglycerides, mg/dl	131 (76)	91 (33)	<0.001
Total Cholesterol, mg/dl	182 (42)	186 (35)	0.488
HDL-C, mg/dl	46 (13)	51 (12)	0.003
LDL-C, mg/dl	110 (33)	117 (31)	0.134
HbA1C, %	6.5 (1.8)	5.3 (0.4)	<0.001
hs-C Reactive Protein, mg/dl	10 (10)	10 (9)	0.818
Flow mediated dilation, %	8.4 (5.1)	11.9 (4.9)	<0.001
Reactive Hyperemia, % change	695 (373)	927 (431)	<0.001

Descriptive statistics that are normally distributed are presented as mean with standard deviation (SD), and non-normally distributed data are presented as medians with interquartile ranges (IQRs). Abbreviations: MUHO: Metabolically unhealthy obese; MHO: Metabolically healthy obese; HOMA-IR: Homeostatic Model Assessment of Insulin Resistance; HDL-C: High-density lipoprotein cholesterol; LDL-C: Low-density lipoprotein cholesterol; HbA1C: Hemoglobin A1C.

**eTable 4. Clinical Characteristics of Participants With Metabolically Unhealthy Obesity (MUHO) vs Metabolically Healthy Obesity (MHO) and High-Sensitivity C-Reactive Protein (hs-CRP) Levels Greater Than 2 mg/dL**

Clinical Parameter	MUHO (n=222)	MHO with >2 mg/dl hs-CRP (n=53)	P value
Female, %	77	89	0.001
Age, y	45 (12)	36 (10)	<0.001
Body Mass Index, kg/m <sup>2</sup>	46 (8)	45 (6)	0.233
Waist circumference, cm	127 (17)	119 (16)	0.002
Weight, kg	126 (26)	121 (20)	0.123
Glucose, mg/dl	120 (57)	89 (7)	<0.001
Insulin, $\mu$ U/ml	16 (8)	13 (7)	0.003
HOMA	6.4 (7.6)	2.8 (1.5)	<0.001
Triglycerides, mg/dl	131 (76)	90 (31)	<0.001
Total Cholesterol, mg/dl	182 (42)	184 (34)	0.727
HDL-C, mg/dl	46 (13)	48 (12)	0.191
LDL-C, mg/dl	110 (33)	118 (31)	0.106
HbA1C, %	6.5 (1.8)	5.3 (0.4)	<0.001
hs-C Reactive Protein, mg/dl	10 (10)	11 (9)	0.619
Flow mediated dilation, %	8.4 (5.1)	12.6 (5.3)	<0.001
Reactive Hyperemia, % change	695 (373)	868 (409)	0.011

Descriptive statistics that are normally distributed are presented as mean with standard deviation (SD), and non-normally distributed data are presented as medians with interquartile ranges (IQRs). Abbreviations: MUHO: Metabolically unhealthy obese; MHO: Metabolically healthy obese; hs-CRP: High sensitivity C reactive protein; HOMA-IR: Homeostatic Model Assessment of Insulin Resistance; HDL-C: High-density lipoprotein cholesterol; LDL-C: Low-density lipoprotein cholesterol; HbA1C: Hemoglobin A1C.