Supplementary Data

Supplementary Table S1. Demographic, Anthropometric, and Laboratory Differences Between Metabolic Phenotypes by Degree of Obesity					
Total $N=362$	**Insulin sensitive overweight/ obese (HOMA-IR <2.6) $N=157$**		**Insulin resistant overweight/ obese (HOMA-IR ≥ 2.6) $N=205$**		
	Overweight $N=48$	**Obese** $N=109$	**Overweight** $N=41$	**Obese** $N=164$	***p* value**
Age, years	$8.9\pm1.7^{a,b}$	$8.4\pm1.5^{c,e}$	$10.5\pm1.4^{a,c,d}$	$9.7\pm1.6^{b,d,e}$	<0.001
Sex (% females)	31 (65)	41 (38)	23 (56)	92 (56)	0.004
Race/ethnicity, *n* (%)					0.07
Black	8 (17)	19 (17)	3 (7)	35 (21)	
Hispanic	36 (75)	86 (79)	33 (80)	114 (70)	
Other	4 (8)	4 (4)	5 (12)	15 (9)	
Pubertal staging*					0.001
Prepubertal (Tanner stage 1)	16 (70)	64 (82)	8 (30)	44 (47)	
Early pubertal (Tanner stage 2 and 3)	7 (30)	12 (15)	17 (63)	49 (53)	
Late pubertal (Tanner stage 4 and 5)	0	2 (3)	2 (7)	0	
Height, cm	$136.1\pm11.8^{a,b,c}$	$134.9\pm9.2^{b,d,e}$	$145.6\pm9.8^{a,d}$	$144.9\pm11.1^{c,e}$	<0.001
Weight, kg	$39.3\pm9.8^{a,b,c}$	$45.3\pm10.5^{b,e}$	$47.9\pm8.4^{a,d}$	$59.7\pm15.3^{c,d,e}$	<0.001
BMI, kg/m^2	$20.9\pm1.8^{a,b}$	$24.6\pm3.17^{a,c,e}$	$22.4\pm1.7^{c,d}$	$28\pm4.1^{b,d,e}$	<0.001
BMI z-score	$1.40\pm0.21^{a,b}$	$2.10\pm0.28^{a,c,e}$	$1.40\pm0.19^{c,d}$	$2.20\pm0.29^{b,d,e}$	<0.001
Waist circumference, cm	$72.3\pm7.5^{a,b,c}$	$78.4\pm8.2^{b,e}$	$78.1\pm6.1^{a,d}$	$89\pm10.7^{c,d,e}$	<0.001
SBP, mm Hg	101 ± 8^{a}	104 ± 9^{c}	105 ± 8^{b}	$110\pm12^{a,b,c}$	<0.001
DBP, mm Hg	57 ± 5^{a}	59 ± 5^{b}	57 ± 6	$60\pm6^{a,b}$	0.003
Light PA, min	448 ± 106	432 ± 93	432 ± 130	418 ± 107	0.48
MVPA, min	78 ± 46	$83\pm51^{a,b}$	50 ± 28^{a}	61 ± 40^{b}	<0.001
Sedentary activity, min	419 ± 114	443 ± 112	486 ± 132	465 ± 109	0.06
TGs, mg/dL**	60 (41, 78)	66 (48, 92)	76 (56, 98)	88 (60, 117)	<0.001
HDL-C, mg/dL	50 ± 10^{a}	47 ± 9^{b}	47 ± 8	44 ± 9^{ab}	<0.001
Fasting plasma glucose, mg/dL	$82\pm8^{a,b}$	$81\pm10^{c,d}$	$89\pm8^{a,c}$	$88\pm8^{b,d}$	<0.001
Fasting Insulin, u/L**	8.3 (5.6, 10.6)	9.3 (7.4, 11.3)	17.8 (15.3, 21.5)	20.6 (16.2, 28.5)	<0.001
hs-CRP, mg/dL**	0.9 (0.4, 1.5)	1.6 (0.7, 3.9)	0.7 (0.5, 2.1)	2.2 (1.1, 5.5)	<0.001
ALT, U/L	21 ± 9	26 ± 23	23 ± 7	28 ± 16	0.086
PNFI	2.08 (0.63, 4.61)	5.85 (3.55, 8.64)	3.5 (1.82, 4.95)	8.89 (6.95, 9.74)	<0.001
Albumin/creatinine ratio	24 ± 111	16 ± 35	8.4 ± 13.7	16.1 ± 50.1	0.423

All values are presented as mean±standard deviation, unless otherwise indicated.

*Pubertal staging was available for 221 (61%) participants.

**Median (interquartile range).

SBP, systolic blood pressure; DBP, diastolic blood pressure; PA, physical activity; MVPA, moderate-to-vigorous physical activity; TGs, triglycerides; HDL-C, high-density lipoprotein-cholesterol; hs-CRP, high-sensitivity C-reactive protein; ALT, alanine aminotransferase; PNFI, pediatric NAFLD fibrosis index; HOMA-IR, homeostatic model assessment for insulin resistance.

Same superscript letters indicate a significant difference between those subgroups.