

Supplementary Table S1. Statistical transformed data of variables showed in table S1, that not presented a normal distribution.

| Variables | Cluster 1 (n=100) | Cluster 2 (n=294) | Cluster 3 (n=73) | P(ANCOVA) |
|--|----------------------------|-----------------------------|-----------------------------|------------------|
| <i>Characteristics of sample and anthropometric measurements</i> | | | | |
| Age (years) | 3.37± 0.34 ^(a) | 3.13 ± 0.19 ^(b) | 3.31 ± 0.39 ^(a) | 0.027 |
| Height (cm) | 0.41± 0.08 | 0.34 ± 0.1 | 0.39 ± 0.1 | 0.355 |
| Weight (kg) | 7.70± 1.22 ^(a) | 6.74 ± 1.28 ^(b) | 7.25 ± 1.34 ^(ab) | 0.074 |
| DBP (mmHg) | 4.19 ± 0.15 ^(a) | 4.17 ± 0.13 ^(ab) | 4.15 ± 0.15 ^(b) | 0.113 |
| WC (cm) | 4.43 ± 0.19 ^(a) | 4.32 ± 0.21 ^(b) | 4.37± 0.21 ^(ab) | 0.393 |
| <i>Time physical activity intensity and sedentary behavior (minutes/day)</i> | | | | |
| Moderate PA | 3.34 ± 0.37 ^(a) | 3.53 ± 0.38 ^(b) | 3.90 ± 0.34 ^(c) | <0.001 |
| Vigorous PA | 2.06 ± 0.75 ^(a) | 2.34 ± 0.65 ^(b) | 3.37 ± 0.54 ^(c) | <0.001 |
| MVPA | 3.61 ± 0.42 ^(a) | 3.82 ± 0.40 ^(b) | 4.41 ± 0.29 ^(c) | <0.001 |
| <i>Metabolic markers</i> | | | | |
| Glucose (mg/dL) | 4.45 ± 0.09 | 4.45 ± 0.09 | 4.45 ± 0.09 | 0.983 |
| Insulin (mU/L) | 3.73 ± 1.12 ^(a) | 3.02 ± 1.06 ^(b) | 3.14 ± 1.19 ^(b) | 0.016 |
| HOMA-IR | 1.73 ± 0.53 ^(a) | 1.40 ± 0.51 ^(b) | 1.45 ± 0.52 ^(b) | 0.020 |
| TAG (mg/dL) | 4.28 ± 0.42 ^(a) | 4.12 ± 0.45 ^(b) | 4.06 ± 0.48 ^(b) | 0.001 |
| HDL-c (mg/dL) | 3.87 ± 0.26 | 3.93 ± 0.30 | 3.94 ± 0.26 | 0.103 |
| LDL-c (mg/dL) | 9.75 ± 1.50 | 9.64 ± 1.34 | 9.46 ± 1.12 | 0.263 |
| Urea (mg/dL) | 3.32 ± 0.28 | 3.38 ± 0.25 | 3.39 ± 0.24 | 0.313 |
| Ferritin (ng) | 7.02 ± 1.72 | 7.12 ± 2.29 | 6.63 ± 1.72 | 0.171 |

Variables transformed by means of natural log: Height; Glucose; Urea; DBP: diastolic blood pressure; HDL: high-density lipoprotein; TAG: triacylglycerides; WC: waist circumference; MVPA: moderate and vigorous physical activity; PA: physical activity (moderate, vigorous, and moderate-vigorous). Variables transformed by means of square root: Age; weight; Insulin; HOMA-IR; Ferritin; LDL: low-density lipoprotein. Mean ± standard deviation. ANCOVA adjusted by age or, age and BMI as indicated. No matching superscript letters (a, b, c) indicate significant differences by Dunn post-hoc test ($P < 0.05$).