

Supplementary table 1. Baseline Characteristics of Participants Completely Investigated

According to the Presence or Absence of the Mets (n=459)

| Variables | Total | Metabolic syndrome absent | Metabolic syndrome | P for trend |
|-------------------------|---------------------|------------------------------|----------------------|-------------|
| n (case/control) | 459 | 399 | 60 | |
| Fractalkine(ng/ml) | 0.43 (0.28-0.64) | 0.40 (0.25-0.60) | 0.65 (0.45-0.71) | <0.001 |
| Age (years) | 57.25±6.60 | 57.07±6.55 | 58.30±6.78 | 0.161 |
| Male, n(%) | 168 (36.6) | 131 (32.8) | 37 (61.7) | <0.001 |
| Education level, n(%) | | | | 0.803 |
| Less than high school | 47 (10.2) | 41 (10.3) | 6 (10.0) | |
| High school | 348 (75.8) | 303 (75.9) | 45 (75.0) | |
| More than high school | 64 (13.9) | 55 (13.8) | 9 (15.0) | |
| Current smoker,n(%) | 359 (78.2) | 322 (80.7) | 37 (61.7) | 0.001 |
| Alcohol drinker,n(%) | 365 (79.5) | 325 (81.5) | 40 (66.7) | 0.008 |
| BMI(kg/m ²) | 23.43±2.81 | 23.02±2.65 | 25.83±2.50 | <0.001 |
| WC (cm) | 78.18±9.02 | 76.51±8.27 | 88.00±6.69 | <0.001 |
| WHR | 0.87±0.07 | 0.85±0.07 | 0.94±0.05 | <0.001 |
| Fat% (%) | 29.29±6.80 | 28.83±6.69 | 31.99±6.84 | <0.001 |
| SBP (mm Hg) | 124.31±16.68 | 122.32±15.94 | 135.91±16.23 | <0.001 |
| DBP (mm Hg) | 81.45±9.92 | 80.39±9.71 | 87.61±8.88 | <0.001 |
| FPG (mmol/L) | 4.89 (4.50-5.22) | 4.83 (4.50-5.17) | 5.11 (4.83-5.94) | <0.001 |
| 2h PG (mmol/L) | 5.50 (4.50-6.67) | 5.33 (4.33-6.33) | 7.22 (5.28-10.17) | <0.001 |
| FINS (μU/ml) | 11.09 (8.23-14.09) | 10.61 (8.11-13.32) | 14.95 (11.98-18.54) | <0.001 |
| 2h INS (μU/ml) | 58.92 (37.91-97.05) | 55.68 (35.96-82.56) | 86.13 (52.29-136.56) | <0.001 |

| | | | | |
|--------------------------|------------------------|------------------------|------------------------|--------|
| HOMA-IR | 2.38 (1.79-3.20) | 2.25 (1.71-2.99) | 3.44 (2.60-5.28) | <0.001 |
| HbA1 _c (%) | 5.67±0.65 | 5.62±0.60 | 5.91±0.84 | 0.001 |
| TC (mmol/L) | 5.57 (4.90-6.22) | 5.52 (4.87-6.19) | 5.36 (4.25-8.00) | 0.070 |
| LDL-c (mmol/L) | 2.40±0.57 | 2.40±0.56 | 2.41±0.62 | 0.971 |
| HDL-c (mmol/L) | 1.46±0.37 | 1.52±0.35 | 1.11±0.23 | <0.001 |
| TG (mmol/L) | 1.30 (0.95-1.84) | 1.23 (0.88-1.58) | 2.51 (2.29-2.84) | <0.001 |
| CRP (mg/dL) | 0.62 (0.30-1.67) | 0.58 (0.30-1.65) | 1.19 (0.72-3.49) | 0.021 |
| SFA (cm ²) | 156.50 (119.05-205.03) | 155.25 (116.38-205.00) | 163.40 (126.73-207.58) | 0.027 |
| VFA (cm ²) | 68.96 (46.07-109.25) | 63.92 (41.40-97.49) | 117.45 (85.79-167.38) | <0.001 |
| Central obesity (%) | 55 (11.98) | 26 (6.5) | 29 (48.3) | <0.001 |
| Elevated BP (%) | 242 (52.7) | 186 (46.6) | 56 (93.3) | <0.001 |
| Hyperglycemia (%) | 75 (16.3) | 44 (11.0) | 31 (51.7) | <0.001 |
| Hypertriglyceridemia (%) | 137 (29.8) | 80 (20.1) | 57 (95.0) | <0.001 |
| Low HDL-c (%) | 41 (8.9) | 11 (2.8) | 30 (50.0) | <0.001 |

Variables with normal distributions are presented as mean ± SD; skewed variables are presented as the median value (inter-quartile range) [M (IQR)]. The Chi-squared test was used for categorical values and t-test for continuous. P for trend depicts the significance in the difference of the mean values between participants with and without metabolic syndrome.

Abbreviations as in Table 1.