**Supplemental Table 1.** The basic information of included subjects

A The basic information of subjects in Han group

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Factors | Control (n=6) | T2D (n=6) | t | P |
| Age (ys) | 48.7±4.4 | 47.5±5.6 | 0.402 | 0.696 |
| Height (m) | 1.63±0.10 | 1.64±0.07 | -0.301 | 0.770 |
| Weight (kg) | 59.8±5.0 | 71.2±10.7 | -2.371 | 0.039 |
| BMI (kg/m2) | 22.6±0.9 | 26.5±4.3 | -2.175 | 0.055 |
| WC(cm) | 77.2±6.2 | 92.0±9.6 | -3.165 | 0.010 |
| FBG | 5.2±0.1 | 9.2±0.9 | -10.659 | <0.001 |
| TC | 4.41±0.41 | 4.65±1.07 | -0.516 | 0.623 |
| TG | 1.17±0.21 | 1.35±0.36 | -1.052 | 0.318 |
| LDLC | 2.20±0.21 | 1.99±0.73 | 0.675 | 0.515 |
| HDLC | 1.76±0.43 | 1.84±0.58 | -0.276 | 0.788 |

B The basic information of subjects in Kazak group

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Factors | Control (n=6) | T2D (n=6) | t | P |
| Age (ys) | 49.0±5.2 | 51.8±5.7 | -0.901 | 0.389 |
| Height (m) | 1.69±0.07 | 1.68±0.10 | 0.066 | 0.949 |
| Weight (kg) | 64.0±7.3 | 80.5±15.1 | -2.405 | 0.037 |
| BMI (kg/m2) | 22.4±0.8 | 28.2±2.5 | -5.380 | <0.001 |
| WC(cm) | 79.7±3.9 | 88.2±7.1 | -2.554 | 0.029 |
| FBG | 4.77±0.19 | 9.56±1.08 | -10.658 | <0.001 |
| TC | 4.42±0.45 | 5.35±0.79 | -2.491 | 0.032 |
| TG | 1.00±0.17 | 1.27±0.46 | -1.345 | 0.224 |
| LDLC | 1.95±0.34 | 2.90±0.72 | -2.923 | 0.015 |
| HDLC | 1.57±0.30 | 1.47±0.15 | 0.670 | 0.518 |

C Comparison of the basic information of diabetes between Han and Kazak group

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Factors | Kazak (n=6) | Han(n=6) | t | P |
| Age (ys) | 51.8±5.7 | 47.5±5.6 | 1.330 | 0.213 |
| Height (m) | 1.68±0.10 | 1.64±0.07 | 0.848 | 0.416 |
| Weight (kg) | 80.5±15.1 | 71.2±10.7 | 1.235 | 0.245 |
| BMI (kg/m2) | 28.2±2.5 | 26.5±4.3 | 0.825 | 0.429 |
| WC(cm) | 88.2±7.1 | 92.0±9.6 | -0.783 | 0.452 |
| FBG | 9.56±1.08 | 9.2±0.9 | 0.556 | 0.591 |
| TC | 5.35±0.79 | 4.65±1.07 | 1.295 | 0.224 |
| TG | 1.27±0.46 | 1.35±0.36 | -0.343 | 0.739 |
| LDLC | 2.90±0.72 | 1.99±0.73 | 2.166 | 0.056 |
| HDLC | 1.47±0.15 | 1.84±0.58 | -1.493 | 0.189 |

BMI, body mass index; WC, waist circumference; FBG, fasting blood-glucose; TC, total cholesterol; TG, triglyceride; LDLC, low density lipoprotein; HDLC, high-density lipoprotein. All the data were expressed as mean±SD. The difference between groups were analyzed by t test. P <0.05 was considered to be significant.