

Table 3. Comparison of patients' characteristics and blood test results

	OB N=30	AN N=58	CON N=56
M/F	0.5	0.7	0.5
Age (year)	25.9±8.3	26.6±9.5	24.4±7.6
Height (cm)	164.7±6.4	166.4±8.2	162.1±5.3
Neck circumference (cm)	38.8±3.5 ^b	38.3±5.3 ^b	31.1±2.6
Waist circumference (cm)	101.2±6.6 ^b	104.7±16.4 ^b	71.2±6.0
Hip circumference (cm)	105.0±5.9 ^b	111.1±16.4 ^b	92.1±3.0
Waist/Hip ratio	0.94±0.07 ^b	0.97±0.06 ^b	0.77±0.05
Percentage of body fat (%)	36.4±4.5 ^b	36.2±4.2 ^b	25.1±4.5
Visceral fat fraction	16.2±5.4 ^b	15.8±6.9 ^b	3.6±3.6
Basal metabolic rate (kcal)	1725.6±188.5 ^b	1769.4±323.3 ^b	1249.0±160.2
Body age (year)	59.1±10.0 ^b	55.0±11.9 ^b	25.0±5.1
BMI	32.86±4.14 ^b	34.92±6.57 ^b	21.14±1.97
FFA (mmol/l)	0.58±0.18	0.71±0.21 ^{a,c}	0.540±0.21
CRP (mg/l)	4.33±2.97 ^b	10.71±30.4 ^b	0.394±0.35
UA (umol/l)	377.59±71.19 ^b	445.00±112.3 ^{b,c}	268±67.70
TC (mmol/l)	5.19±1.87 ^b	5.02±1.13 ^b	4.19±0.80
TG (mmol/l)	2.34±1.69 ^b	1.94±1.28 ^b	0.90±0.80
TSH (mIU/l)	1.96±1.19 ^b	2.68±1.25	3.08±1.62
Blood glucose (mmol/l)			
(OGTT:0 min)	5.95±1.71 ^b	5.82±1.56 ^b	4.70±0.22
(OGTT:30min)	10.18±3.76 ^b	9.41±2.36 ^a	7.69±1.02
(OGTT:60min)	11.74±4.74 ^b	10.20±3.75 ^b	6.14±1.37
(OGTT:120min)	10.06±6.07 ^b	8.62±4.23 ^b	4.81±0.81
(OGTT:180min)	7.18±5.26 ^b	6.46±3.89 ^a	3.83±0.83
Plasma insulin (mU/l)			
(OGTT:0 min)	23.84±11.84 ^b	30.88±15.12 ^b	9.68±3.33
(OGTT:30min)	78.52±47.43	191.35±128.16 ^{b,c}	107.29±46.16
(OGTT:60min)	113.56±68.52	206.39±121.43 ^{b,c}	84.92±61.67
(OGTT:120min)	131.50±103.06	160.16±145.39 ^b	57.93±35.21
(OGTT:180min)	65.01±46.05 ^b	71.57±56.60 ^b	17.68±21.99
HOMA-IR	6.23±3.28 ^b	8.24±5.43 ^b	2.03±0.74

OB: obese without acanthosis nigricans; AN: obese group with acanthosis nigricans; CON: control; BMI: Body Mass Index; M/F: Male/Female; FFA: Free fatty acid; CRP: C reactive protein; UA: Uric Acid; TC: total cholesterol; TG: triglyceride; FPG: fast plasma glucose; TSH: Thyroid stimulating hormone; HOMA-IR: homeostasis model of assessment for insulin resistance. vs CON, ^aP<0.05, ^bP<0.01; vs OB, ^cP<0.05, ^dP<0.01. Student's t test or Mann-Whitney U test were used to identify the difference.