

Table 2. Clinical characteristics of PCOS with and without MetS according to NCEP-ATP III, IDF, and JIS criteria

Analyses	NCEP-ATP III				IDF			JIS		
	Controls (N=42)	PCOS with MetS (N=36)	PCOS without MetS (N=186)	P	PCOS with MetS (N=41)	PCOS without MetS (N=181)	P	PCOS with MetS-JIS (N=43)	PCOS without MetS-JIS (N=179)	p
Age (years)	28.1±4.4	27.4±6.7 ^a	24.5±4.2 ^b	<0.001	27.7±6.6 ^a	24.3±4.1 ^b	<0.001	27.7±6.5 ^c	24.3±4.13 ^b	<0.001
BMI (kg/m ²)	21.1±3	30.3±3.8 ^{c,d}	21.5±3.1	<0.001	30.1±3.3 ^{c,d}	21.3±3	<0.001	29.7±3.9 ^{c,d}	21.3±3	<0.001
WC (cm)	74.0±8.4	97.1±10 ^{c,d}	74.4±9.6	<0.001	96.2±9.4 ^{c,d}	73.9±9.4	<0.001	95.1±10.4 ^{c,d}	73.9±9.4	<0.001
SBP (mmHg)	116.1±8.6	128.1±15 ^{c,d}	116.7±10.3	<0.001	128.6±14.8 ^{c,d}	116.3±10	<0.001	128.9±14.9 ^{c,d}	116.1±9.7	<0.001
DBP (mmHg)	74.8±7.5	85.0±9.9 ^{c,d}	76.2±8.5	<0.001	84.8±9.5 ^{c,d}	76.1±8.5	<0.001	85.0±9.3 ^{c,d}	75.9±8.4	<0.001
Glucose (mmol/l)	4.5±0.4	4.8±0.5	4.6±0.5	0.080	4.9±0.5 ^{a,e}	4.6±0.4	0.003	4.8±0.5 ^{a,e}	4.6±0.4	0.004
Insulin (mU/L)	12.1±4.8	20.5±6.7 ^{a,d}	17.1±18.3 ^f	<0.001	19.4±7.2 ^{a,d}	17.3±18.5 ^f	0.001	19.1±7.1 ^{a,d}	17.3±18.6 ^f	0.001
HOMA-IR	2.5±1	4.3±1.4 ^{a,d}	3.6±4.4 ^f	<0.001	4.1±1.5 ^{a,d}	3.6±4.5 ^f	<0.001	4.1±1.4 ^{a,d}	3.6±4.5 ^f	<0.001
TC (mmol/L)	4.8±0.7	5.9±1.5 ^{c,d}	4.9±0.9	<0.001	5.9±1.1 ^{c,d}	4.9±1	<0.001	6.0±1.4 ^{c,d}	4.9±0.9	<0.001
HDL (mmol/L)	1.5±0.3	1.0±0.1 ^{c,d}	1.4±0.3	<0.001	1.0±0.1 ^{c,d}	1.4±0.3	<0.001	1.0±0.1 ^{c,d}	1.4±0.2	<0.001
LDL (mmol/L)	2.9±0.6	3.9±1.6 ^{c,d}	3.0±0.8	<0.001	3.8±1.3 ^{c,d}	3.0±0.9	<0.001	3.9±1.4 ^{c,d}	3.0±0.7	<0.001
TG (mmol/L)	0.8±0.3	2.2±1 ^{c,d}	0.9±0.4	<0.001	2.1±1 ^{c,d}	0.9±0.3	<0.001	2.1±1 ^{c,d}	0.9±0.3	<0.001
Testosterone (nmol/L)	1.8±0.8	2.9±1.5 ^d	2.5±1 ^b	<0.001	2.9±1.4 ^d	2.5±1 ^b	<0.001	2.9±1.4 ^d	2.5±1 ^b	<0.001
SHBG (nmol/L)	64.4±27.6	26.8±25.1 ^{c,d}	43.7±21.9 ^b	<0.001	27.8±24.1 ^{c,d}	43.9±22 ^b	<0.001	28.1±23.6 ^{c,d}	44.0±22.1 ^f	<0.001
FAI (%)	3.1±1.3	15.6±12.6 ^{c,d}	7.3±4.7 ^b	<0.001	15.1±12 ^{c,d}	7.2±4.6 ^b	<0.001	14.7±11.8 ^{c,d}	7.2±4.6 ^b	<0.001
LAP	13.4±8.5	91.8±56.7 ^{c,d}	16.7±15.4	<0.001	87.1±55.1 ^{c,d}	15.7±14	<0.001	84.4±55.1 ^{c,d}	15.6±14.1	<0.001

BMI: body mass index, LAP: lipid accumulation product, WC: waist circumference, SBP: systolic blood pressure, DBP: diastolic blood pressure, HOMA-IR: homeostatic model of insulin resistance, TC: total cholesterol, HDL: high density lipoprotein, LDL: low density lipoprotein, TG: triglycerides, SHBG: sex hormone binding protein, FAI: free androgen index.

a = PCOS with MetS vs PCOS without MetS p<0.05; b = PCOS without MetS vs Controls p<0.001; c = PCOS with MetS vs PCOS without MetS p<0.001; d = PCOS with MetS vs Controls p<0.001; e = PCOS with MetS vs Controls p<0.05; f = PCOS without MetS vs Controls p<0.05.