

Table 6. Comparative data between PCOS with and without MetS[#]

	Non-MetS group	MetS group	p-value*
Women [N (%)]	237 (75.5)	77 (24.5)	-
IFG [N (%)]	8 (3.4)	37 (48.1)	<0.001
T2DM [N (%)]	1 (0.4)	5 (6.5)	0.004
Age (years)	25.8 ± 0.4	26.8 ± 0.8	0.287
BMI (kg/m ²)	30.1 ± 0.4	36.8 ± 0.8	<0.001
WC (cm)	90.1 ± 0.9	104.1 ± 1.5	<0.001
HC (cm)	112.3 ± 0.8	122.7 ± 1.4	<0.001
WHR	0.804 ± 0.005	0.848 ± 0.007	<0.001
Testosterone (nmol/L)	2.48 ± 0.07	2.74 ± 0.12	0.016
DHEAS (µmol/L)	7.98 ± 0.24	7.49 ± 0.33	0.646
Δ4-androstenedione (nmol/L)	9.81 ± 0.28	9.81 ± 0.52	0.773
SHBG (nmol/L)	40 ± 1.5	25.6 ± 1.2	<0.001
FAI	8.6 ± 0.5	13 ± 1	<0.001
Prolactin (pmol/L)	587 ± 17	517 ± 26	0.079
LH (U/L)	7.8 ± 0.3	7.3 ± 0.6	0.428
FSH (U/L)	5.9 ± 0.1	5.5 ± 0.2	0.112
LH to FSH ratio	1.38 ± 0.06	1.37 ± 0.10	0.951
AST (U/L)	19.2 ± 0.5	22.2 ± 1.2	0.020
ALT (U/L)	25.8 ± 1	30.2 ± 2.4	0.046
AST to ALT ratio	0.903 ± 0.031	0.859 ± 0.041	0.461
GGT (U/L)	19.7 ± 0.8 (N=125)	26.5 ± 3 (N=19)	0.041
ALP (U/L)	76.8 ± 1.4	76.9 ± 2	0.981
Total cholesterol (mmol/L)	4.92 ± 0.06	5.19 ± 0.13	0.046
HDL-C (mmol/L)	1.38 ± 0.02	1 ± 0.02	<0.001
LDL-C (mmol/L)	3.08 ± 0.06	3.40 ± 0.11	0.012
Triglycerides (mmol/L)	0.94 ± 0.02	1.63 ± 0.08	<0.001
Uric acid (µmol/L)	268 ± 6	321 ± 6	<0.001
Platelets (N x 10 ³ /µL)	275 ± 4	304 ± 8	0.001
Glucose (mmol/L)	5.32 ± 0.03	5.98 ± 0.07	<0.001
Insulin (pmol/L)	100.7 ± 4.2	161.1 ± 11.8	<0.001
HOMA-IR	3.48 ± 0.14	6.22 ± 0.44	<0.001
HOMA-β	173 ± 10	196 ± 14	0.012
QUICKI	0.328 ± 0.002	0.302 ± 0.003	<0.001
NAFLD liver fat score	-0.793 ± 0.099	1.874 ± 0.258	<0.001
LAP	33.4 ± 1.4	76.8 ± 4.9	<0.001
HIS	43 ± 0.5	49.8 ± 1	<0.001
FIB-4	0.400 ± 0.015	0.401 ± 0.024	0.984
APRI	0.239 ± 0.008	0.252 ± 0.016	0.881

Data are presented as mean ± standard error of the mean (SEM) or frequency (percentage).

*Between-groups comparison (independent sample T-test or Mann-Whitney test).

[#]According to International Diabetes Federation (IDF) definition.

ALP: alkaline phosphatase; ALT: alanine transaminase; AST: aspartate transaminase; BMI: body mass index; DHEAS: dehydroepiandrosterone sulfate; FAI: free androgen index; FSH: follicle-stimulating hormone; GGT: gamma-glutamyl transferase; HC: hip circumference; HDL-C: high density lipoprotein cholesterol; HIS: hepatic steatosis index; HOMA-IR: homeostatic model of assessment insulin resistance; IFG: impaired fasting glucose; LAP: lipid accumulation product; LDL-C: low density lipoprotein cholesterol; LH: luteinizing hormone; MetS: metabolic syndrome; QUICKI: quantitative insulin sensitivity check index; NAFLD: non-alcoholic fatty liver disease; PCOS: polycystic ovary syndrome; SHBG: sex hormone-binding protein; T2DM: type 2 diabetes mellitus; WC: waist circumference; WHR: waist to hip ratio.