

**Table 2.** Comparative data between PCOS and control group

	Control group	PCOS group	p-value *	Reference range
Women (N)	78	314	-	-
IFG [N (%)]	9 (11.5)	45 (14.3)	0.522	-
T2DM [N (%)]	1 (1.3)	6 (1.9)	0.707	-
MetS [N (%)] <sup>#</sup>	10 (12.8)	77 (24.5)	0.026	-
Age (years)	33.0 ± 0.5	26.1 ± 0.4	<0.001	-
BMI (kg/m <sup>2</sup> )	28.8 ± 0.7	31.7 ± 0.4	0.001	20-25
WC (cm)	87.8 ± 1.6	93.9 ± 0.9	0.002	<80
HC (cm)	108.9 ± 1.3	114.9 ± 0.2	<0.001	na
WHR	0.803 ± 0.008	0.815 ± 0.004	0.201	na
Testosterone (nmol/L)	1.21 ± 0.05	2.54 ± 0.06	<0.001	0.5-2.1
DHEAS (μmol/L)	5.40 ± 0.24	7.86 ± 0.20	<0.001	4.1-10.3
Δ4-androstenedione (nmol/L)	6.49 ± 0.28	9.81 ± 0.24	<0.001	3.5-13.3
SHBG (nmol/L)	60.6 ± 3.6	36.4 ± 1.3	<0.001	30-135
FAI	2.4 ± 0.1	9.7 ± 0.4	<0.001	<5
Prolactin (pmol/L)	517 ± 30	570 ± 17	0.077	130-1260
LH (U/L)	5.9 ± 0.5	7.7 ± 0.3	0.001	2-12.5
FSH (U/L)	6.3 ± 0.2	5.8 ± 0.1	0.040	2.5-10
LH to FSH ratio	1.00 ± 0.09	1.38 ± 0.05	<0.001	na
AST (U/L)	18.7 ± 0.8	20 ± 0.5	0.197	10-31
ALT (U/L)	25.8 ± 1.3	26.9 ± 0.9	0.768	10-34
AST to ALT ratio	0.820 ± 0.035	0.893 ± 0.026	0.180	na
GGT (U/L)	21.5 ± 1.7 (N=52)	20.6 ± 0.8 (N=144)	0.756	0-38
ALP (U/L)	71.3 ± 2.8	76.9 ± 1.2	0.046	30-120
Total cholesterol (mmol/L)	5.26 ± 0.13	4.97 ± 0.05	0.038	<5.2 <sup>§</sup>
HDL-C (mmol/L)	1.37 ± 0.05	1.29 ± 0.03	0.027	>1.3
LDL-C (mmol/L)	3.37 ± 0.10	3.16 ± 0.05	0.089	<4.1 <sup>§</sup>
Triglycerides (mmol/L)	1.07 ± 0.06	1.11 ± 0.03	0.867	<1.7
Uric acid (μmol/L)	250 ± 6	286 ± 6	<0.001	155-393
Platelets (N x 10 <sup>3</sup> /μL)	278 ± 9	282 ± 4	0.655	140-400
Glucose (mmol/L)	5.44 ± 0.06	5.49 ± 0.06	0.603	3.3-5.6
Insulin (pmol/L)	82.7 ± 5.6	115.3 ± 4.2	<0.001	42-188
HOMA-IR	2.92 ± 0.21	4.15 ± 0.17	<0.001	na
HOMA-β	125 ± 8	179 ± 8	<0.001	na
QUICKI	0.335 ± 0.003	0.322 ± 0.002	0.001	na
NAFLD liver fat score	-0.976 ± 0.159	-0.139 ± 0.117	<0.001	< -1.413: no steatosis >1.257: steatosis
LAP	34.7 ± 3.1	43.3 ± 1.9	0.036	na
HIS	42.1 ± 0.8	44.6 ± 0.5	0.016	<30: no steatosis >36: steatosis
FIB-4	0.400 ± 0.013	0.480 ± 0.020	<0.001	>1.3: advanced fibrosis
APRI	0.234 ± 0.012	0.241 ± 0.007	0.951	>0.85: advanced fibrosis

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). <sup>#</sup>According to International Diabetes Federation (IDF) definition. <sup>§</sup>For patients without other cardiovascular risk factors.

ALP: alkaline phosphatase; ALT: alanine transaminase; APRI: AST to Platelet Ratio Index; 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; na: not applicable; NAFLD: non-alcoholic fatty liver disease; PCOS: polycystic ovary syndrome; QUICKI: quantitative insulin sensitivity check index; SHBG: sex hormone-binding protein; T2DM: type 2 diabetes mellitus; WC: waist circumference; WHR: waist to hip ratio.