

Supplementary material

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Table S1. Anthropometric characteristics of subjects in the polycystic ovary syndrome-obese, polycystic ovary syndrome-normal and control group.

Variable	PCOS-obese (n=26)[1]	PCOS-normal (n=23) [2]	Control (n=11) [3]	P value*	P-value (comparison)*
Age, years	24.0 (21-25.8)	25.5 (21.0-29.0)	23 (22.7-26.5)	0.06	
BMI, kg/m ²	33.9 (27.6-45.7)	22.1 (16.9-26.2)	21.6 (19.4-41.5)	<0.001	1vs.2 <0.001; 1vs.3<0.001; 2vs.3 1.00
Height, m	1.7 (1.6-1.8)	1.7 (1.6-1.8)	1.7 (1.6-1.76)	0.08	
Weight, kg	96.7 (75.0-133.0)	61.9 (49.0-75.0)	65 (54.6-120.0)	<0.001	1vs.2 <0.001; 1vs.3<0.001; 2vs.3 1.00
WC, cm	101.8 (82.6-147.5)	72.4 (63.0-88.6)	68.6 (61.2-87.8)	<0.001	1vs.2 <0.001; 1vs.3 <0.001; 2vs.3 1.00
HC, cm	115.5 (105.2-144.2)	93.7 (76.0-102.0)	94.6 (86.0-109.7)	<0.001	1vs.2 <0.001; 1vs.3 <0.001; 2vs.3 1.00
WHR	0.9 (0.7-1.2)	0.8 (0.7-0.9)	0.8 (0.7-0.8)	<0.001	1vs.2 0.006; 1vs.3 <0.001; 2vs.3 0.21

Data are presented as median (interquartile range).

*Kruskal-Wallis test

Abbreviations: BMI, body mass index; HC, hip circumference; WC, waist circumference; WHR, waist-to-hip ratio

Table S2. Metabolic characteristics of subjects in the polycystic ovary syndrome-obese, polycystic ovary syndrome-normal and control group.

Variable	PCOS-obese (n=26) [1]	PCOS-normal (n=23) [2]	Control (n=11) [3]	P value*	P-value (comparison) *
Insulin, mg/dL	17.3 (6.4-66.3)	8.6 (3.9-24.9)	5.4 (3.4-6.8)	<0.001	
Glucose, mg/dL	92.7 (75.8-123.0)	91.7 (70.5-101.0)	81.2 (68.1-95.3)	<0.001	1vs.2 0.79; 1vs.3 0.006; 2vs.3 0.03
HbA1c, %	5.3 (4.3-7.5)	5.0 (4.5-5.5)	5.1 (4.6-5.2)	<0.001	1vs.2 0.03; 1vs.3 0.004; 2vs.3 1.00
TC, mg/dL	175.1 (120.0-249.2)	167.9 (128.2-251.4)	152.2 (131.0-176.8)	0.04	1vs.2 1.00; 1vs.3 0.04; 2vs.3 0.24
TG, mg/dL	130.2 (44.8-487.8)	72.4 (35.2-145.1)	55.4 (35.1-102.8)	<0.001	1vs.2 <0.001; 1vs.3 <0.001; 2vs.3 0.34
LDL, mg/dL	98.2 (66.8-159.9)	73.0 (32.0-147.0)	71.1 (57.6-88.1)	<0.001	1vs.2 0.02; 1vs.3 <0.001; 2vs.3 0.58
HDL, mg/dL	51.3 (26.6-77.9)	72.0 (58.7-118.9)	71.5 (56.6-84.9)	<0.001	1vs.2 <0.001; 1vs.3 0.002; 2vs.3 1.00
TG/HDL	2.58 (0.58-17.1)	0.9 (0.4-2.5)	0.8 (0.4-1.7)	<0.001	1vs.2 <0.001; 1vs.3 <0.001; 2vs.3 0.72
CRP, mg/l	1.7 (0.2-11.1)	0.4 (0.1-4.0)	0.5 (0.2-2.3)	<0.001	1vs.2 <0.001; 1vs.3 0.03; 2vs.3 1.00

Data are presented as median (interquartile range).

*Kruskal-Wallis test

Abbreviations: CRP, C-reactive protein; HbA1c, hemoglobin A1c; HDL, high-density lipoprotein cholesterol; LDL, low-density lipoprotein cholesterol; TC, total cholesterol; TG, triglycerides;

Table S3. Hormonal characteristics of subjects in the polycystic ovary syndrome-obese, polycystic ovary syndrome-normal groups.

Variable	PCOS-obese (n=26)	PCOS-normal (n=23)	P value*#
FSH, mIU/ml	5.9 (1.5)	6.5 (1.2)	0.1
LH, mIU/ml	10.6 (3.6)	16.2 (5.1)	<0.001
E2, pg/ml	52.9 (16.4)	67.8 (20.8)	<0.012
PRL, ng/mL	12.8 (6.6-26.2)	10.6 (5.2-27.2)	0.1
T, ng/mL	0.5 (0.3-1.2)	0.5 (0.3-0.9)	0.7
DHEA-S, umol/L	7.9 (2.6-14.0)	8.2 (4.7-20.6)	0.9
C, nmol/L	315.9 (126.2)	306.7 (132.7)	0.8

TSH, uIU/mL	2.0 (0.2-5.7)	1.8 (0.3-4.4)	0.7
FT4, ng/dL	1.3 (0.9-6.1)	1.3 (1.0-1.8)	0.2

Data are presented as mean (standard deviation) or median (interquartile range).

* t-Student test for independent samples (FSH, LH, E2, C)

Mann-Whitney test (PRL, T, DHEA-S, TSH, FT4)

Abbreviations: C, fasting cortisol; DHEA-S, dehydroepiandrosterone sulfate; E2, estradiol; FSH, follicle stimulating hormone; LH, luteinizing hormone; PRL, prolactin; T, testosterone; TSH, thyroid-stimulating hormone; FT4, thyroxine