

Table SI. Spearman's correlation matrix.

Variable	AMH, ng/ml	DHEA-S, μmol/l	SHBG, nmol/l	Testosterone, nmol/l	FAI	TG, mmol/l	TC, mmol/l	HDL, mmol/l	LDL, mmol/l	GLU, mmol/l	INS, μIU/ml	IR	FSH, IU/l	LH, IU/l	miR-151a-5p	miR-223-3p	miR-4488
AMH, ng/ml	1.00	0.49 ^b	-0.22 ^b	0.24 ^b	0.27 ^b	0.47 ^b	0.17 ^a	0.18 ^b	0.41 ^b	0.03	0.15 ^a	0.14 ^a	0.62 ^b	0.71 ^b	0.50 ^b	-0.17 ^a	0.55 ^b
DHEA-S, μmol/l	0.49 ^b	1.00	-0.15 ^a	0.53 ^b	0.31 ^b	0.31 ^b	0.12	0.00	0.27 ^b	0.05	0.17 ^a	0.16 ^a	0.47 ^b	0.47 ^b	0.37 ^b	-0.20 ^b	0.38 ^b
SHBG, nmol/l	-0.22 ^b	-0.15 ^a	1.00	0.05	-0.92 ^b	-0.25 ^b	-0.17 ^a	0.19 ^b	-0.28 ^b	-0.31 ^b	-0.34 ^b	-0.36 ^b	-0.40 ^b	-0.31 ^b	-0.33 ^b	0.08	-0.29 ^b
Testosterone, nmol/l	0.24 ^b	0.53 ^b	0.05	1.00	0.29 ^b	0.09	0.01	0.04	0.06	-0.11	0.00	-0.02	0.03	0.16 ^a	0.05	-0.02	0.05
FAI	0.27 ^b	0.31 ^b	-0.92 ^b	0.29 ^b	1.00	0.26 ^b	0.16 ^a	-0.15 ^a	0.27 ^b	0.27 ^b	0.32 ^b	0.34 ^b	0.39 ^b	0.32 ^b	0.33 ^b	-0.07	0.28 ^b
TG, mmol/l	0.47 ^b	0.31 ^b	-0.25 ^b	0.09	0.26 ^b	1.00	0.39 ^b	0.34 ^b	0.90 ^b	0.16 ^a	0.25 ^b	0.25 ^b	0.56 ^b	0.58 ^b	0.36 ^b	-0.14 ^a	0.37 ^b
TC, mmol/l	0.17 ^a	0.12	-0.17 ^a	0.01	0.16 ^a	0.39 ^b	1.00	-0.35 ^b	0.56 ^b	0.27 ^b	0.48 ^b	0.49 ^b	0.22 ^b	0.29 ^b	0.16 ^a	-0.03	0.16 ^a
HDL, mmol/l	0.18 ^b	0.00	0.19 ^b	0.04	-0.15 ^a	0.34 ^b	-0.35 ^b	1.00	0.00	-0.11	-0.22 ^b	-0.21 ^b	0.06	0.14 ^a	0.10	-0.03	0.09
LDL, mmol/l	0.41 ^b	0.27 ^b	-0.28 ^b	0.06	0.27 ^b	0.90 ^b	0.56 ^b	0.00	1.00	0.17 ^a	0.33 ^b	0.33 ^b	0.52 ^b	0.51 ^b	0.30 ^b	-0.13	0.30 ^b
FBG, mmol/l	0.03	0.05	-0.31 ^b	-0.11	0.27 ^b	0.16 ^a	0.27 ^b	-0.11	0.17 ^a	1.00	0.47 ^b	0.58 ^b	0.18 ^b	0.08	0.14 ^a	-0.12	0.08
FINS, μIU/ml	0.15 ^a	0.17 ^a	-0.34 ^b	0.00	0.32 ^b	0.25 ^b	0.48 ^b	-0.22 ^b	0.33 ^b	0.47 ^b	1.00	0.99 ^b	0.23 ^b	0.20 ^b	0.14 ^a	-0.07	0.21 ^b
HOMA-IR	0.14 ^a	0.16 ^a	-0.36 ^b	-0.02	0.34 ^b	0.25 ^b	0.49 ^b	-0.21 ^b	0.33 ^b	0.58 ^b	0.99 ^b	1.00	0.24 ^b	0.19 ^b	0.16 ^a	-0.08	0.21 ^b
FSH, IU/l	0.62 ^b	0.47 ^b	-0.40 ^b	0.03	0.39 ^b	0.56 ^b	0.22 ^b	0.06	0.52 ^b	0.18 ^b	0.23 ^b	0.24 ^b	1.00	0.79 ^b	0.54 ^b	-0.30 ^b	0.56 ^b

LH, IU/l	0.71 ^b	0.47 ^b	-0.31 ^b	0.16 ^a	0.32 ^b	0.58 ^b	0.29 ^b	0.14 ^a	0.51 ^b	0.08	0.20 ^b	0.19 ^b	0.79 ^b	1.00	0.52 ^b	-0.24 ^b	0.58 ^b
miR-151a-5p	0.50 ^b	0.37 ^b	-0.33 ^b	0.05	0.33 ^b	0.36 ^b	0.16 ^a	0.10	0.30 ^b	0.14 ^a	0.14 ^a	0.16 ^a	0.54 ^b	0.52 ^b	1.00	0.26 ^b	0.75 ^b
miR-223-3p	-0.17 ^a	-0.20 ^b	0.08	-0.02	-0.07	-0.14 ^a	-0.03	-0.03	-0.13	-0.12	-0.07	-0.08	-0.30 ^b	-0.24 ^b	0.26 ^b	1.00	0.19 ^b
miR-4488	0.55 ^b	0.38 ^b	-0.29 ^b	0.05	0.28 ^b	0.37 ^b	0.16 ^a	0.09	0.30 ^b	0.08	0.21 ^b	0.21 ^b	0.56 ^b	0.58 ^b	0.75 ^b	0.19 ^b	1.00

^aP<0.05 and ^bP<0.01. AMH, anti-Müllerian hormone; DHEA-S, dehydroepiandrosterone sulphate; SHBG, sex hormone-binding globulin; FAI, free androgen index; TG, triglycerides; TC, total cholesterol; HDL, high-density lipoprotein; LDL, low-density lipoprotein; FBG, fasting blood glucose; FINS, fasting serum insulin; HOMA-IR, homeostatic model assessment-insulin resistance; LH luteinizing hormone; FSH, follicle-stimulating hormone; miR, microRNA.

Table SII. Results of receiver operating curve analysis for clinical measurement discrimination between the control and polycystic ovarian syndrome groups.

Statistic	Hormone			miRNA				miR151a + miR223 + miR4488 + AMH
	AMH	DHEA-S	SHBG	miR-151a	miR-223	miR-4488	miR151a + miR223 + miR-4488	
AUC	0.926	0.794	0.776	0.871	0.664	0.889	0.943	0.967
95% CI for AUC	0.891-0.961	0.737-0.850	0.710-0.842	0.820-0.922	0.589-0.739	0.841-0.938	0.909-0.976	0.942-0.992
P-value	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Optimal cut-off point	>5.98	>6.47	<47.30	>0.97	<76.89	>1.40	-	-
Sensitivity	85.25%	75.40%	63.10%	88.80%	86.90%	81.30%	89.70%	91.60%
Specificity	89.29%	72.30%	95.50%	78.20%	45.50%	91.10%	93.10%	93.10%

AUC, area under the curve; CI, confidence interval; AMH, anti-Müllerian hormone; miRNA/miR, microRNA; DHEA-S, dehydroepiandrosterone sulphate; SHBG, sex hormone-binding globulin.