

Supplementary data Table SI Characteristics of women with PCOS and control subjects in the Boston and Greek cohorts.

Parameter	Boston			Greek				P-value Ctl NIH	P-value Ctl Rotterdam
	PCOS _{NIH}	Control	P-value	PCOS _{NIH}	PCOS _{Rotterdam}	Control	P-value Ctl NIH		
Age (years)	28.4 ± 7.0	28.9 ± 8.5	0.3	24.0 ± 5.6	26.0 ± 5.6	31.0 ± 5.8	5.9 × 10 ⁻²³	6.5 × 10 ⁻⁸	
BMI (kg/m ²)	30.8 ± 8.6	23.5 ± 3.8	1.7 × 10 ⁻⁵³	26.7 ± 7.2	25.8 ± 5.4	28.5 ± 7.6	0.03	0.01	
Waist circumference (cm)	96.1 ± 18.9	80.6 ± 10.6	2.5 × 10 ⁻³⁶	83.6 ± 15.5	80.3 ± 11.9	87.2 ± 15.8	0.049	0.002	
Hip Circumference (cm)	108.8 ± 16.9	98.4 ± 9.5	5.6 × 10 ⁻²²	106.1 ± 13.0	105.2 ± 10.1	109.8 ± 14.0	0.02	0.02	
WHR	0.88 ± 0.08	0.82 ± 0.06	7.2 × 10 ⁻²⁹	0.78 ± 0.08	0.76 ± 0.07	0.79 ± 0.07	0.5	0.01	
SBP (mmHg)	114.1 ± 15.8	109.5 ± 12.5	1.4 × 10 ⁻⁶						
DBP (mmHg)	71.6 ± 12.2	70.0 ± 9.4	0.03						
Pulse (beats per minute)	74.7 ± 10.4	68.3 ± 9.4	8.3 × 10 ⁻²⁰						
Testosterone (ng/dl)	64.0 ± 33.5	35.7 ± 17.2	3.8 × 10 ⁻³³	78.7 ± 29.2	77.8 ± 28.6	39.7 ± 11.2	1.0 × 10 ⁻³⁸	2.8 × 10 ⁻²⁵	
SHBG (nmol/l)	41.2 ± 22.1	65.8 ± 31.0	1.5 × 10 ⁻²⁴	42.2 ± 26.1	46.0 ± 25.5	54.6 ± 30.8	1.4 × 10 ⁻⁵	0.02	
Androstenedione (ng/ml)	3.6 ± 1.3	3.1 ± 1.5	0.0001	2.8 ± 1.1	2.9 ± 1.1	1.7 ± 0.5	5.8 × 10 ⁻²⁶	8.4 × 10 ⁻²⁰	
DHEAS (μg/dl)	197 ± 103	210 ± 107	0.2	312 ± 132	328 ± 139	200 ± 81	1.1 × 10 ⁻¹⁴	3.9 × 10 ⁻¹²	
LH (IU/l)	26.9 ± 16.7	14.9 ± 12.8	6.9 × 10 ⁻²¹	8.0 ± 5.2	6.5 ± 4.4	5.4 ± 2.5	7.7 × 10 ⁻⁶	0.07	
FSH (IU/l)	10.5 ± 2.9	10.6 ± 3.6	0.8	5.9 ± 1.7	6.6 ± 1.8	6.8 ± 2.4	0.8	0.8	
LH:FSH	2.6 ± 1.4	1.4 ± 0.9	1.1 × 10 ⁻²⁶	1.4 ± 0.9	1.0 ± 0.6	1.0 ± 1.6	0.0009	0.8	
FG score	12.6 ± 7.6	4.1 ± 2.3	3.3 × 10 ⁻⁷²						
HbA1C (%)	5.3 ± 0.3	5.2 ± 0.3	0.0006						
Fasting glucose (mg/dl)	84.9 ± 9.4	80.9 ± 7.3	5.1 × 10 ⁻¹⁰	98.0 ± 16.3	96.6 ± 11.0	100.5 ± 10.1	0.1	0.04	
Glucose 120 min (mg/dl)	99.9 ± 28.6	85.2 ± 21.9	4.3 × 10 ⁻¹³	112.8 ± 32.5	109.0 ± 26.8	107.7 ± 32.2	0.16	0.54	
Fasting insulin (μIU/ml)	10.6 ± 10.3	5.2 ± 3.7	2.5 × 10 ⁻¹⁸	12.4 ± 11.3	10.0 ± 6.4	12.3 ± 15.1	0.56	0.30	
Insulin 120 min (μIU/ml)	60.1 ± 62.4	25.4 ± 17.5	2.0 × 10 ⁻²⁰						
HOMA-IR	2.3 ± 2.4	1.0 ± 0.7	1.6 × 10 ⁻¹⁸						
Glucose/insulin	14.4 ± 10.5	20.0 ± 9.8	9.8 × 10 ⁻¹³	11.8 ± 7.5	12.9 ± 11.0	11.8 ± 7.5	0.36	0.50	
Cholesterol (mg/dl)	183.4 ± 35.3	173.9 ± 32.9	0.0004						
Triglycerides (mg/dl)	100.6 ± 63.5	67.1 ± 27.4	1.4 × 10 ⁻¹⁷						
HDL (mg/dl)	52.8 ± 16.3	61.5 ± 14.2	7.4 × 10 ⁻¹³						
LDL (mg/dl)	111.6 ± 32.3	96.1 ± 28.4	1.4 × 10 ⁻¹⁰						
Ovarian volume (ml)	15.0 ± 8.0	9.2 ± 4.0	1.7 × 10 ⁻²⁵	9.1 ± 4.3	10.0 ± 5.1	6.2 ± 1.9	8.5 × 10 ⁻⁹	2.6 × 10 ⁻¹¹	
Follicle number	13.5 ± 3.8	9.4 ± 3.3	5.4 × 10 ⁻⁴⁴	11.8 ± 5.5	13.0 ± 4.0	7.6 ± 2.0	7.0 × 10 ⁻¹³	2.7 × 10 ⁻²²	

The data for the Greek cohort are separated into PCOS by the NIH criteria ($n = 783$), PCOS by the Rotterdam criteria (hyperandrogenism and polycystic ovary morphology) ($n = 101$) and controls.