

Supplementary Material

Table S1. ROC analysis of CA125, HE4, ROMA and CPH for diagnosis of EOC or MCO. *p*-values of the comparison between ROC curves.

<i>Total</i>				
	<i>CA125</i>	<i>HE4</i>	<i>ROMA</i>	<i>CPH</i>
<i>AUC</i>	0.873	0.909	0.939	0.936
<i>(95% CI)</i>	(0.842–0.904)	(0.881–0.938)	(0.916–0.962)	(0.913–0.958)
<i>CA125</i>	-	0.0294	0.0000	0.0000
<i>He4</i>	0.0294	-	0.0004	0.0053
<i>ROMA</i>	0.0000	0.0004	-	0.5994
<i>CPH</i>	0.0000	0.0053	0.5994	-
<i>Premenopausal</i>				
	<i>CA125</i>	<i>HE4</i>	<i>ROMA</i>	<i>CPH</i>
<i>AUC (95% CI)</i>	0.756 (0.675–0.842)	0.863 (0.791–0.934)	0.866 (0.796–0.937)	0.860 (0.793–0.928)
<i>CA125</i>	-	0.0125	0.0000	0.0000
<i>He4</i>	0.0125	-	0.0005	0.0057
<i>ROMA</i>	0.0000	0.0005	-	0.6118
<i>CPH</i>	0.0000	0.0057	0.6118	-
<i>Postmenopausal</i>				
	<i>CA125</i>	<i>HE4</i>	<i>ROMA</i>	<i>CPH</i>
<i>AUC (95% CI)</i>	0.933 (0.907–0.959)	0.905 (0.870–0.940)	0.956 (0.937–0.975)	0.955 (0.935–0.975)
<i>CA125</i>	-	0.1569	0.0075	0.0310
<i>HE4</i>	0.1569	-	0.0001	0.0001
<i>ROMA</i>	0.0075	0.0001	-	0.3882
<i>CPH</i>	0.0310	0.0001	0.3882	-
<i>Inconclusive ultrasound according to IOTA simple rules</i>				
	<i>CA125</i>	<i>HE4</i>	<i>ROMA</i>	<i>CPH</i>
<i>AUC (95% CI)</i>	0.810 (0.743–0.877)	0.844 (0.779–0.910)	0.893 (0.846–0.941)	0.876 (0.822–0.931)
<i>CA125</i>	-	0.3863	0.0005	0.0037
<i>HE4</i>	0.3863	-	0.0316	0.1399
<i>ROMA</i>	0.0005	0.0316	-	0.0344
<i>CPH</i>	0.0037	0.1399	0.0344	-
<i>Stage I EOC</i>				
	<i>CA125</i>	<i>HE4</i>	<i>ROMA</i>	<i>CPH</i>
<i>AUC (95% CI)</i>	0.810 (0.751–0.869))	0.856 (0.793–0.8869)	0.909 (0.863–0.955)	0.901 (0.855–0.947)
<i>CA125</i>	-	0.2410	0.0014	0.0001
<i>HE4</i>	0.2410	-	0.0099	0.0572
<i>ROMA</i>	0.0014	0.0099	-	0.6415
<i>CPH</i>	0.0001	0.0572	0.6415	-

Table S2. False negative results for tumor markers and probabilistic indexes.

	<i>CA125</i>	<i>HE4</i>	<i>ROMA</i>	<i>CPH</i>
<i>Total</i>	53 (100%)	38(100%)	8 (100%)	20 (100%)
<i>Serous carcinoma</i>	27 (50.94%)	16 (42.11%)	3 (37.50%)	6 (30.00%)
<i>Endometrioid carcinoma</i>	14 (26.42%)	8 (21.05%)	2 (25.00%)	7 (35.00%)
<i>Mucinous carcinoma</i>	2 (3.77%)	5 (13.06%)	3 (37.50%)	3 (15.00%)
<i>Clear cell carcinoma</i>	10 (18.87%)	9 (23.68%)	0 (0.00%)	4 (20.00%)
<i>Undifferentiated</i>	6 (11.32%)	6 (15.79%)	2 (25.00%)	4 (20.00%)
<i>Metastatic cancer in the ovary</i>	12 (22.64%)	15 (39.47%)	7 (87.50%)	10 (50.00%)