



ROMA Panel (CA 125 + HE 4)

What is ROMA?

- Risk of Ovarian Malignancy Algorithm.
- It derives a numerical score from the CA-125 (the most widely accepted biomarker for ovarian cancer) and HE4 blood tests.
- It analyses the patient's menopausal status which translates patient with adnexal mass are at high or low risk for having malignancy.
- Women with ROMA levels above the cut-off have an increased risk of epithelial ovarian cancer.

Clinical Utilities:

CA 125 (Cancer Antigen 125):

- It is present on the surface of most ovarian cancer cells, is an useful assay for monitoring the course of the disease in invasive epithelial ovarian cancer.
- Serial and periodic assessments are helpful in diagnosing recurrence.

HE 4 (Human Epididymis Protein 4):

- Useful in early detection of Ovarian Cancer.
- It discriminates benign from malignant ovarian mass.
- It helps in the monitoring response to therapy for patients with invasive epithelial ovarian cancer.
- It has increased sensitivity and specificity over CA125 alone.

Advantages of Combo Panel (HE4 + CA125):

- The combination has proven to be a more accurate predictor of malignant disease.

- The combination has a higher specificity and sensitivity than either marker alone.
- Accurately determines the risk of malignancy.
- The sensitivity for stratifying patients with epithelial ovarian cancer into high risk group is 94% and the specificity is 75%

Whom should we promote to?

- IVF Specialist
- Gynecologist
- Oncologist

Test Details:

S.No.	Test Name	Test Code	MRP	Technique	Specimen	Run days at Section	TAT / Reported on
1.	ROMA Value (HE4 + CA125)/Ovarian cancer Panel	RP10183	3200	Chemiluminescence Microparticle Immunoassay (CMIA)	2 ml. (1 ml. min) Serum from 1 SST (Gel Barrier Tube).	Every day if received before 1:00 p.m.	2nd Working Day by 7:00 p.m.
2.	CA125 (Ovarian Cancer)	RIM10158	1210	Chemiluminescence Microparticle Immunoassay (CMIA)	2 ml. (1 ml. min) Serum from 1 SST (Gel Barrier Tube).	Thursday if received before 1:00 p.m.	Same Day by 7:00 p.m.
3.	HE4 (Human Epididymis protein 4)	RIM10342	2750	Chemiluminescence Microparticle Immunoassay (CMIA)	2 ml. (1 ml. Minimum) Serum from 1 SST (Gel Barrier Tube).	Everyday	Same day