Lab Dept:	Chemistry
Test Name:	CANCER ANTIGEN 125 (CA 125)
	CARCEN ANTICEN 120 (CA 120)
General Information	
Lab Order Codes:	C125
Synonyms:	CA 125; Carbohydrate Antigen 125; Ovarian Cancer-Related Antibodies
CPT Codes:	86304 – CA 125
Test Includes:	CA 125 level measured in U/mL.
Logistics	
Test Indications:	Useful for evaluating patients' response to cancer therapy, especially for ovarian carcinoma. Predicting recurrent ovarian cancer.
Lab Testing Sections:	Chemistry – Sendouts
Referred to:	Mayo Clinic Laboratories (MML Test: CA25)
Phone Numbers:	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	1-3 days, test performed Monday - Friday
Special Instructions:	See Patient Preparation
Specimen	
Specimen Type:	Blood
Container:	SST (Gold, marble or red)
Draw Volume:	3.0 mL (Minimum: 2.25 mL) blood
Processed Volume:	1.0 mL (Minimum: 0.75 mL) serum
Collection:	Routine venipuncture

Special Processing:	Lab Staff: Centrifuge specimen, remove serum aliquot into a screw-capped, round bottom plastic vial. Store and ship at refrigerated temperatures.
	Specimen stable refrigerated for 5 days, frozen for 168 days
Patient Preparation:	Patient should refrain from taking or being given multivitamins or dietary supplements containing biotin (vitamin B7) that are commonly found in hair, skin and nail supplements and multivitamins.
Sample Rejection:	Mislabeled or unlabeled specimens
Interpretive	
Reference Range:	Females: <46 U/mL Males: Not applicable
	Interpretation: In monitoring studies, elevated levels of cancer antigen 125 (CA 125 above the reference interval after debulking surgery or chemotherapy indicate that residual disease is likely (>95% accuracy). However, normal levels do not rule-out recurrence.
	A persistently rising CA 125 value suggests progressive malignant disease and poor therapeutic response.
	Physiologic half-life of CA 125 is approximately 5 days.
	In patients with advanced disease who have undergone cytoreductive surgery and are on chemotherapy, a prolonged half-life (>20 days) may be associated with a shortened disease-free survival.
Critical Values:	N/A
Limitations:	Twelve hours before this blood test do not take multivitamins or dietary supplements containing biotin or vitamin B7, which are commonly found in hair, skin, and nail supplements and multivitamins.
	Not useful as a screening assay for cancer detection in the normal population.
	Results cannot be interpreted as absolute evidence of the presence or absence of disease.
	Serum markers are not specific for malignancy and values vary by method. Values obtained with different assay methods cannot be used interchangeably.
	Some individuals have antibodies to mouse protein (HAMA) which can cause interference in immunoassays that employ mouse antibodies. In particular, it has been reported that serum samples from patients who have undergone therapeutic or diagnostic procedures that include infusion of mouse monoclonal antibodies may produce erroneous results in such assays. Rerunning the specimen in question after additional blocking

	treatment may resolve the issue.
	No interference was observed from rheumatoid factors up to a concentration of 1,200 IU/mL.
	There is no high-dose hook effect at cancer antigen 125 (CA 125) concentrations of up to 50,000 U/mL
Methodology:	Electrochemiluminescent Immunoassay
References:	Mayo Clinic Laboratory December 2024
Updates:	 5/11/2010: Volume update. 6/16/2010: Shipping temp changed from frozen to refrigerated. Frozen will still be accepted, refrigerated is preferred. 5/2/2017: Reference range and method update. 12/27/2024: Edited specimen volumes, added specimen stability.