Lab Dept:	Chemistry
Test Name:	CEA
General Information	
Lab Order Codes:	CEAS
Synonyms:	Carcinoembryonic antigen
CPT Codes:	82378 – Carcinoembryonic antigen (CEA)
Test Includes:	N/A
Logistics	
Test Indications:	Monitoring colorectal cancer and selected other cancers such as medullary thyroid carcinoma. May be useful in assessing the effectiveness of chemotherapy or radiation treatment. CEA levels are not useful in screening the general population for undetected cancers
Lab Testing Sections:	Chemistry - Sendouts
Referred to:	Mayo Medical Laboratories (Test: CEA)
Phone Numbers:	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	1 - 3 days; testing performed daily Monday - Saturday
Special Instructions:	N/A
Specimen	
Specimen Type:	Blood
Container:	SST (Marble, gold or red) tube
Draw Volume:	1.8 mL (Minimum: 1.5 mL) blood
Processed Volume:	0.6 mL (Minimum: 0.5 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 and at refrigerated temperatures. Forward promptly.
Patient Preparation:	None
Sample Rejection:	Specimens other than serum; gross hemolysis
Interpretive	
Reference Range:	≤3 ng/mL (Smoking may increase values)
	Serum markers are not specific for malignancy and values may vary by method.
Critical Values:	N/A
Limitations:	The concentration of CEA in serum should not be used to screen asymptomatic individuals for neoplastic disease, and the diagnostic efficacy of CEA measurements in high-risk groups has not been established.
	CEA values are method-dependent; therefore, the same method should be used to serially monitor patients.
	Do not interpret serum CEA levels as absolute evidence of the presence or the absence of malignant disease. Use serum CEA in conjunction with information from the clinical evaluation of the patient and other diagnostic procedures.
Methodology:	Immunoenzymatic Assay
References:	Mayo Medical Laboratories December 2017
Updates:	12/6/2017: Updated collection container.