Lab Dept:	Chemistry
Test Name:	AMITRIPTYLINE AND NORTRIPTYLINE
General Information	
Lab Order Codes:	AMNO
Synonyms:	Elavil®; Tricyclic Antidepressants; TCA
CPT Codes:	G0480 – Drug, test, definitive or 80335 – Antidepressants, serotonergic class; 1 or 2
Test Includes:	Nortriptyline and total Amitriptyline/Nortriptyline reported in ng/mL.
Logistics	
Test Indications:	Useful in therapeutic drug monitoring and relief of symptoms of endogenous depression. The test may also be useful to evaluate patient compliance and evaluating potential toxicity.
Lab Testing Sections:	Chemistry – Sendouts
Referred to:	Mayo Medical Laboratories (MML Test: AMTPR)
Phone Numbers:	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	2 – 4 days, test set-up Monday – Friday
Special Instructions:	Gel tubes are not acceptable. Draw specimen immediately before next scheduled dose (minimum 12 hours after last dose).
Specimen	
Specimen Type:	Blood
Container:	Red top NO GEL tube
Draw Volume:	3 mL (Minimum: 1 mL) blood
Processed Volume:	1 mL (Minimum: 0.25 mL) serum

Collection:	Routine venipuncture	
Special Processing:	Lab staff: Centrifuge specimen, remove serum aliquot into a screw- capped round bottom plastic vial. Serum must be separated from cells within 2 hours of collection. Store and ship at refrigerated temperatures. Forward promptly.	
Patient Preparation:	None	
Sample Rejection:	Mislabeled or unlabeled specimens; collected in gel tube; gross hemolysis; gross lipemia, grossly icteric	
Interpretive		
Reference Range:	Amitriptyline and Nortriptyline:	Reference Range: 80 - 200 ng/mL
	Nortriptyline:	Reference Range: 70 - 170 ng/mL
	Interpretation: Most individuals dis amitriptyline when combined serum nortriptyline are between 80 and 20 with combined levels > or =300 ng/ Most individuals display optimal res levels between 70 and 170 ng/mL. nortriptyline levels > or =300 ng/mL Some individuals may respond well display toxicity within the therapeut include clinical evaluation. Therapeutic ranges are based on s (immediately before the next dose). trough situations.	levels of amitriptyline and 0 ng/mL. Risk of toxicity is increased mL. sponse to Nortriptyline with serum Risk of toxicity is increased with outside of these ranges, or may ic range, thus interpretation should pecimens drawn at trough
Critical Values:	N/A, See Interpretation statement a	bove
Limitations:	within this time, tricyclic antidepress	of drawing; if serum is not removed sant levels may be falsed elevated epcimens that are obtained from gel ne drug can absorb on the gel and
Methodology:	Liquid Chromatography-Tandem M	ass Spectrophotometry (LC-MS/MS)
References:	Mayo Medical Laboratories Decem	ber 2017

Updates:	3/4/2004: Test moved from MedTox Laboratories to Mayo Medical Laboratories. 10/26/2009: Note change in reference ranges. Plasma specimens no longer accepted. 10/25/2012: Toxic level update from MML. 11/9/2015: Updated method and reference ranges. No longer lists toxic levels. 2/2/2016: CPT update
	2/2/2016: CPT update 11/16/2016: CPT update