Lab Dept:	Chemistry
Test Name:	MEXILETINE LEVEL
General Information	
Lab Order Codes:	MEX
Synonyms:	Mexitil®
CPT Codes:	80375 – Drug, definitive, qualitative or quantitative, nos; 1-3 OR G0480 – Drug, test, definitive (if appropriate)
Test Includes:	Mexiletine concentration measured in mcg/mL.
Logistics	
Test Indications:	Useful for assessing achievement of optimal therapeutic concentrations and assessing potential toxicity.
Lab Testing Sections:	Chemistry - Sendouts
Referred to:	Mayo Medical Laboratories (MML Test: MEX)
Phone Numbers:	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	1 – 3 days, performed Monday, Wednesday and Friday
Special Instructions:	See Patient Preparation.
Specimen	
Specimen Type:	Blood
Container:	Red top NO GEL
Draw Volume:	9 mL (Minimum: 3.3 mL) blood
Processed Volume:	3 mL (Minimum: 1.1 mL) serum
Collection:	Routine venipuncture

Special Processing:	Lab Staff: Centrifuge specimen, remove serum aliquot into a screw- capped round bottom vial. Note whether specimen is serum. Store and ship at refrigerated temperatures. Forward promptly.
Patient Preparation:	Draw blood after patient has been receiving mexiletine for at least 3 days and just before administration of the next dose.
Sample Rejection:	Gross hemolysis; gross lipemia; grossly icteric; mislabeled or unlabeled specimens; specimens collected in gel tubes
Interpretive	
Reference Range:	Therapeutic range: 0.80 – 2.0 mcg/mL (trough value)
Critical Values:	Toxic concentration: >2.0 mcg/mL (trough value)
Limitations:	N/A
Methodology:	High Performance Liquid Chromatography (HPLC)
References:	Mayo Medical Laboratory December 2017
Updates:	12/12/2011: Plasma is no longer an acceptable specimen type. Units update from ug/mL to mcg/mL. 2/4/2016: CPT update