

Therapeutic Drug Monitoring

Drug Name	Therapeutic range	When to draw sample	When to check levels	Time to reach steady state	Other Considerations	Charge of test to patient	
C A R D I A C	Digoxin	0.8 - 2.0 ng/mL	At least 8 hours after maintenance dose	5-7 days after first dose for patients with normal renal and hepatic function; 3-5 days in anephric patients to assess trend	5-7 days	Levels should be drawn only if therapy is expected to last >72 hours and if there is a definite clinical indication. For acutely ill patients, earlier levels should be considered. After loading dose, levels maybe checked earlier to assess trend.	*\$50.65
	Lidocaine	1 - 5 mcg/mL	8 hours after IV infusion started or changed	After 24 hours from starting of infusion, especially if rate >2 mg/minute	6 - 12 hours	Causes seizures with toxic levels.	*\$43.20
	Procainamide NAPA (n-acetyl procainamide) a procainamide metabolite	4 - 10 mcg/mL Peak: 8mcg/mL Trough: 4mcg/mL 10 - 20 mcg/mL Total: 5 - 30 mcg/mL	Trough: Immediately prior to next dose or 12-18 hours after starting or changing an infusion Draw with procainamide sample	In 3 to 7 days after initiating therapy in stable patient.	12 - 24 hours after first dose or change in dose 24 - 48 hours after first dose or change in dose	For acutely ill hospitalized patients with ventricular arrhythmias earlier levels should be considered. Accumulates in renal failure.	*\$81.60