

Medication Oriented Laboratory Tests Draw Times

DRUG	ROUTE	DRAW TIMES	FACTORS TO CONSIDER
THEOPHYLLINE	PO	15-30 min pre-dose (trough) 1 hr post dose (elixir peak) 2 hr post dose (regular tab peak) 4 hr post dose (long acting prep peak)	smoking history macrolide antibiotics cimetidine
	IV Drip	Mean level anytime after steady state achieved	allopurinol
	IVPB (bolus over 30 min)	15-30 min pre-dose (trough) 30 min afer end of bolus (peak)	propranolol
LITHIUM	PO	Morning trough 10-14 hours after evening dose 3-8 days after beginning therapy or changing dose.	acute mania versus chronic
			tricyclic antidepressants
			thiazides sodium intake
DIOXIN	PO/IV	12 hrs post dose (mean level) 1 hr pre-dose (trough) Do Not obtain sample within 8 hrs of previous dose. 6-8 days after initiating or changing therapy.	quinidine
			verapamil
AMINOGLYCOSIDES	IV	Peak: 30 min after injection Trough: 0-30 min before injection	hydration burn patients
	IM	Peak: 60 min after injection Trough: 0-30 min before injection	fever
		Within the first 24 hr of therapy (2-3 estimated half-lives between samples)	
PHENYTOIN	PO	Immediately before the next dose To evaluate loading dose 6-8 hrs after dose.	chloramphenicol disulfiram
	IV	Immediately before the next dose To evaluate loading dose 2-3 hrs after dose. Although levels drawn 4-6 days after starting or changing a regimen may reflect steady state, a trough level after 1 month of therapy is recommended	isoniazid dicumarol other anti-seizure meds pregnancy phenylbutazone albumin