

Policy #:	805 (PLH-805-07)	Effective Date:	9/30/2004	Reviewed Date:	8/1/2016
Subject:	BLOOD COLLECTION FOR AMINOGLYCOSIDES & VANCOMYCIN LEVELS (TROUGH/PEAK & RANDOM ORDERING PROCEDURE)				
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BLOOD COLLECTION FOR AMINOGLYCOSIDES & VANCOMYCIN LEVELS

TROUGH/PEAK & RANDOM ORDERING PROCEDURES

Aminoglycosides antibiotics (gentamicin, tobramycin, and amikacin): trough should be collected 30 minutes prior to do (IM or IVPB). Peak should be drawn 1 hour post IM injection and 30 minutes post 30-60 minute IV infusion. **Vancomycin: (tricyclic glycopeptides antibiotics):** trough levels should be collected 30 minutes prior to dose unless contraindicated by patient's condition. Peak levels should be collected 1 hour after end of infusion.

Call Pharmacy at 16232 if the dose is given more than one hour after time due.

Table 2: Serum Concentration Sampling Times for Traditional and Extended-Interval Dosing of Aminoglycosides

	Peak Sample Time	Trough Sample Time	Comments
For traditional Dosing ¹	1 hour post IM injection 30 Min post 30-60 Min IV infusion	≤ 30 Min before dose (IM and IVPB)	Obtain levels after 3-4 doses. Most patients should be at steady-state at this time.
For Extended Interval (Once-daily) Dosing ^{5,6}	Not indicated	Not indicated	Obtain random level before the second dose to ensure clearance.

Reference: Aminoglycoside Overview-Pharmacy 2010

Pharmacist/Nursing:

The pharmacist places the lab orders for the levels into Powerchart. They also place a communication order to nursing so the nurse knows when the levels ordered are to be drawn.