Lab Dept:	Chemistry
Test Name:	VANCOMYCIN LEVEL, SERUM
General Information	
Lab Order Codes:	VANC
Synonyms:	Vancocin®
CPT Codes:	80202 - Vancomycin
Test Includes:	Vancomycin concentration in ug/mL
Logistics	
Test Indications:	Useful for therapeutic drug monitoring (TDM). Vancomycin is a glycopeptide that is a bactericidal agent against gram-positive bacteria and some gram-negative cocci. Vancomycin is important in the treatment of cephalosporin and methicillin-resistant organisms.
Lab Testing Sections:	Chemistry
Phone Numbers:	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	2 hours
Special Instructions:	Peak levels should be drawn 20-30 minutes after the end of a 60 minute infusion. Trough levels should be drawn within 30 minutes prior to giving a subsequent dose.
Specimen	
Specimen Type:	Blood
Container:	Green top (Li Heparin) tube, preferred Alternate: Red, marble or gold top tube
Draw Volume:	0.6 mL blood
Processed Volume:	0.2 mL serum/plasma

Routine blood collection. Mix tubes containing anticoagulant by gentle inversion. See Special Instructions regarding peak/trough information.	
Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into plastic sample cup. Store at refrigerated temperatures.	
None	
Mislabeled or unlabeled specimen	
Peak Values:	
Therapeutic concentration:	20 - 40 ug/mL
Trough Values:	
Therapeutic concentration:	<5 - 10 ug/mL
Toxic concentration:	>80 ug/mL
There is great disparity in Vancomycin ranges, especially with peak therapeutic ranges. Factors that might affect peak therapeutic ranges include dosage regimen and timing of sample collection. Vancomycin levels in renal dialysis, burn patients, and IV drug abusers should be closely monitored. The physician must determine the appropriate therapeutic range for each patient.	
Particle Enhanced Turbidimetric Inh	bition Immunoassay (PETINIA)
Particle Enhanced Turbidimetric Inh Abbott Alinity c Valproic Acid Reage Laboratories Diagnostics Division, A October 2018	nt Kit Instructions for Use, Abbott
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	 inversion. See Special Instructions replaction of the system of

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Clinical Significance, Dade Behring Inc., Glasgow Business Community, Mailbox 531, P.O. Box 6101, Newark, Delaware 19714

Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition

 Updates:
 2/9/2016: Update alt tube type

 11/25/2020: Updated for method Abbott Alinity, removed method

 Siemens Vista

 2/24/2021: Updated toxic concentration