

TEST CHANGE – CRITICAL VALUE

Notification Date: 12/20/2024

Effective Date: 1/8/2025

Test Name: Vancomycin, Random & Vancomycin, Peak

Test IDs: LAB40, LAB41

Explanation: On May 30th, 2024, the Vanderbilt University Hospital (VUH) pharmacy team transitioned to an enhanced area under the curve (AUC)-based dosing for Vancomycin, moving away from trough-based monitoring. This method uses random levels taken at least 2 hours post-infusion, leading to more frequent results above critical lab value thresholds.

To prevent inappropriate discontinuation of Vancomycin when a random level is obtained, we will update the critical lab values for Vancomycin, Random (LAB40) and Vancomycin, Peak (LAB41).

Critical values for Vancomycin, Trough (LAB39) will remain unchanged for trough-based dosing.

For Monroe Carrell Jr. Children's Hospital at Vanderbilt, AUC-based dosing will be implemented in early 2025. VUMC's regional hospital, AUC-based dosing will be implemented at a future date to be determined. The current workflow will remain the same even with the change in critical lab values for Vancomycin, Random (LAB40) and Vancomycin, Peak (LAB41).

Requirements:

Test Number	Test Name	Old Critical Value	New Critical Value
LAB40	Vancomycin, Random	N/A	≥ 60 µg/mL
LAB41	Vancomycin, Peak	≥ 30 µg/mL	≥ 60 µg/mL

Questions: Please get in touch with Vanderbilt Medical Laboratories Customer Service at 615-875-5227 (5-LABS) or 800-551-5227 or visit our website: [Home | Vanderbilt Medical Laboratories \(vumc.org\)](https://www.vumc.org)