Cayuga MEDICAL CENTER
A Member of Cayuga Health System

Laboratory Technical Bulletin

Date: April 24, 2020 **Effective Date:** April 28, 2020

Title: New Identification and Antimicrobial Susceptibility Testing Capability Directly From Positive Blood Culture Bottles

Test: Accelerate PhenoTest™ BC

Explanation of change:

Rapid identification and antimicrobial susceptibility testing direct from positive blood culture samples is now available to support Cayuga Health System physicians in the selection of optimal antibiotic therapy for patients presenting with bacteremia. From a positive blood culture sample, the starting point for the test, identification results are available in about 2 hours with antimicrobial susceptibility results following 5 hours later.

Accelerate PhenoTest™ BC will automatically reflex on positive blood cultures that qualify for testing.

The test can identify 14 different species of bacteria and two species of yeast most prevalent in bloodstream infections, while also providing antibiotic sensitivity information for 18 antibiotics, including minimum inhibitory concentrations (MIC), and two indicators of resistant phenotypes.

As a result of the fully automated sample preparation and testing process, physicians can anticipate antimicrobial susceptibility results much earlier. All clinicians are encouraged to use the antimicrobial stewardship team and take advantage of earlier opportunities to escalate or de-escalate antibiotic therapy for patients.

All positive blood culture results on inpatients will be called directly to Pharmacy, instead of the provider. Pharmacy will coordinate treatment with the provider.

Organism	Old Method	New Method
Staph	Cepheid MRSA BC direct from positive blood culture bottle	same, no change
Gram Positive Bacilli **Gram Negative Cocci**	MALDI identification and MIC susceptibility testing from colony growth	same, no change
90% of Clinically Encountered Gram Negative Bacilli **Strep** **Yeast**	MALDI identification and MIC susceptibility testing from colony growth	Accelerate PhenoTest™ BC identification and susceptibility testing direct from positive blood culture bottle

Please contact the Laboratory at (607)274-4474 with any questions.

Date 04/24/20

Dr. Elizabeth Plocharczyk, Laboratory Associate Medical Director

Toni Burger Date 4-24-20

Toni Burger, Laboratory Administrative Director