University of Virginia Health System

**Medical Laboratories**

***“Quality You Expect, Service You Deserve”***

***LABORATORY MEDICINE UPDATE***

April 25, 2014

**DNA Microarray for Identification of Gram Positive Cocci in Blood Cultures**

As of April 28, 2014, the Clinical Microbiology and Molecular Diagnostics laboratory will implement the use of DNA microarray testing for the identification of Gram Positive Cocci in blood cultures. The following organisms and antimicrobial resistance markers are identifiable with this microarray:

* *Staphylococcus aureus*
* Coagulase Negative Staphylococci
* Group A Streptococci
* Group B Streptococci
* *Streptococcus pneumoniae*
* *Streptococcus anginosus* group
* *Enterococcus faecium*
* *Enterococcus faecalis*
* *Streptococcus sp* (other than the above)
* mecA (for identification of MRSA)
* vanA (for identification of VRE)
* vanB (for identification of VRE)

Gram stain results will be called as always, with microarray results available within 3-4 hours of this call. Clinicians are responsible for checking the patient’s medical record for microarray results. **Microarray results will not be called to the ordering clinician**. If the microarray is unable to provide a genus or species level identification of the Gram Positive Cocci, the gram stain results will remain in the result field of the report. This testing will replace PNA-FISH for the identification of *S. aureus*, Coagulase Negative Staphylococci and *Enterococcus* *sp*. Questions may be directed to the Clinical Microbiology Director on Call at PIC 1221.