

Xpert®
MRSA/SA
SSTI



Xpert® MRSA/SA SSTI

Detect MRSA & SA Skin and Soft Tissue Infections
In About One Hour

“MRSA is the most common identifiable cause of skin and soft-tissue infection among patients presenting to emergency departments. When antimicrobial therapy is indicated for the treatment of skin and soft-tissue infections, clinicians should consider obtaining cultures and modifying empirical therapy to provide MRSA coverage.”



Moran, et al.

New England Journal of Medicine, August 2006

The Need

SSTIs are a major health concern:

- The most common cause of skin and soft tissue infections is *Staph aureus*; MRSA represents over 50% of these infections in parts of the U.S.¹
- Current laboratory methods can take up to 72 hours to determine if a SSTI is SA or MRSA
- Empiric treatment, found to be incorrect in 57% of patients according to one study, is employed due to lack of a rapid identification method²

The Solution

The only rapid and comprehensive SSTI test available:

- Xpert® MRSA/SA SSTI is a rapid, on-demand test for detecting MRSA and SA from skin and soft tissue swabs in less than one hour
- Xpert MRSA/SA SSTI is the most comprehensive *Staph aureus* test available:
 - Includes targets for *Staph aureus*, MRSA, and *mecA*
 - Identifies presumptive positive “empty cassette” strains for correct classification as SA sensitive
 - Unparalleled automation with the GeneXpert® System provides reduced hands-on time and improved laboratory efficiency

Important healthcare benefits of rapid detection:

- Helps ensure the right therapy sooner for improved patient management
- Enables a targeted antimicrobial therapy approach for better antimicrobial stewardship
- Allows for immediate identification of patient infection for improved isolation and infection control measures

Performance

Performance characteristics of Xpert® MRSA/SA SSTI were determined in a multi-site prospective investigation study at three institutions by comparing the Xpert MRSA/SA SSTI test on the GeneXpert® System to enriched culture, the most sensitive culture method.

SUMMARY OF RESULTS

	Positive Percent Agreement	Negative Percent Agreement
MRSA	93.8%	97.3%
SA	95.7%	89.5%

MRSA/SA PERFORMANCE IN SUBJECTS WITH NO ANTIBIOTIC USE (WITHIN 3 WEEKS OF SAMPLE COLLECTION) VS. REFERENCE CULTURE

		Culture			
		MRSA+	SA+/MRSA-	Neg/No Growth	Totals
Xpert	MRSA+	137 ^a	2	6	145
	SA+/MRSA-	3 ^b	79	16	98
	SA-	6	4	188	198
	Total	146	85	210	441

^a 1 of the 137 were mixed infections of MRSA and SA.

^b 2 of the 3 were mixed infections of MRSA and SA.

Comprehensive

Capable of detecting strains with all SCCmec types found in both healthcare-acquired and community-acquired MRSA.

	Type
Samples	Swabs collected for routine care of SSTIs
SCCmec	I, II, III, IVa, V, VI

Simplicity.

Xpert[®] MRSA/SA SSTI

- Rapid results to improve patient management
- Fully integrated reagent and instrument system for accuracy and reproducibility
- Random access for flexibility and workflow optimization
- Fully automated process reduces handling time to just minutes

WORKFLOW:

3 Easy Steps

Total hands-on time: 2 Minutes

<p>1</p> <p>Insert swab into Sample Reagent vial and break</p> 	<p>2</p> <p>Vortex and dispense Sample into Port S</p> 	<p>3</p> <p>Insert Cartridge and start assay</p> 
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ORDERING INFORMATION

Xpert[®] MRSA/SA SSTI (10 cartridges with reagents).....Catalog No. GXM RSA/SA-SSTI-10

References:

1. CDC Press release 09/08/2008 entitled "CDC Steps Up Efforts to Fight Drug-Resistant Germ".
2. Moran et al. "Methicillin-Resistant *S. aureus* Infections among Patients in the Emergency Department", NEJM 355:664-674; 2006.



The molecular revolution is here.

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