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.”

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.
• 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 method

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.

<table>
<thead>
<tr>
<th></th>
<th>Positive Percent Agreement</th>
<th>Negative Percent Agreement</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRSA+</td>
<td>93.8%</td>
<td>97.3%</td>
</tr>
<tr>
<td>SA+</td>
<td>95.7%</td>
<td>89.5%</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Culture</th>
<th>MRSA+</th>
<th>SA+/MRSA-</th>
<th>Neg/No Growth</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xpert</td>
<td>137*</td>
<td>2</td>
<td>6</td>
<td>145</td>
</tr>
<tr>
<td></td>
<td>3*</td>
<td>79</td>
<td>16</td>
<td>98</td>
</tr>
<tr>
<td>SA-</td>
<td>6</td>
<td>4</td>
<td>188</td>
<td>198</td>
</tr>
<tr>
<td>Total</td>
<td>146</td>
<td>85</td>
<td>210</td>
<td>441</td>
</tr>
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* 1 of the 137 were mixed infections of MRSA and SA.
* 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.
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

1. Insert swab into Sample Reagent vial and break
2. Vortex and dispense Sample into Port S
3. Insert Cartridge and start assay

ORDERING INFORMATION
Xpert® MRSA/SA SSTI (10 cartridges with reagents) .......................................... Catalog No. GXMRSA/SA-SSTI-10

References:
1. CDC Press release 09/08/2008 entitled “CDC Steps Up Efforts to Fight Drug-Resistant Germ”.