Xpert® vanA

45-minutes. No compromises.

The first rapid & accurate test to assist with VRE surveillance.
Xpert® vanA empowers clinicians to make critical decisions at the time it is needed most, thereby improving the quality of patient care while reducing cost.

THE NEED

According to the Centers for Disease Control and Prevention (CDC), *Enterococci* cause about 1 of every 8 hospital infections with 30% of those infections, caused by Vancomycin-Resistant Enterococci (VRE). However, VRE can be even more prevalent in high risk groups, such as immunocompromized and ICU patients.

The human and financial impact of VRE is high:

- Attributable mortality: 10%
- Extended length of stay: 6.2 days
- Incremental cost: $12,800

THE SOLUTION

The CDC and SHEA have both published guidelines on how to reduce or eliminate healthcare associated infections. As a part of a quality infection control program, Cepheid’s Xpert® vanA provides:

- Immediate and accurate detection of the vanA gene most closely associated with VRE colonization
- Superior NPV required in a surveillance test
- Easy-to-use test with less than 1 minute hands-on-time
**PERFORMANCE**

Performance characteristics of Xpert® vanA were determined in a multi-site prospective investigation study by comparing Xpert vanA run on the GeneXpert® System with direct culture with bi-directional sequencing.

Xpert vanA Performance vs. Direct Culture with Bi-directional Sequencing

<table>
<thead>
<tr>
<th></th>
<th>POSITIVE</th>
<th>NEGATIVE</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xpert vanA POSITIVE</td>
<td>126</td>
<td>85</td>
<td>210</td>
</tr>
<tr>
<td>Xpert vanA NEGATIVE</td>
<td>2</td>
<td>1019</td>
<td>1021</td>
</tr>
<tr>
<td>Xpert vanA TOTAL</td>
<td>128</td>
<td>1103</td>
<td>1231</td>
</tr>
</tbody>
</table>

* Positive predictive value; Negative predictive value

**PREVALENCE**

A panel of four specimens with varying concentrations of vanA were tested on 10 different days by two different operators at each of three sites (4 specimens x 2 operators/day x 10 days x 3 sites).

Summary of Reproducibility Results (% Agreement)

<table>
<thead>
<tr>
<th>SPECIMEN ID</th>
<th>SITE 1</th>
<th>SITE 2</th>
<th>SITE 3</th>
<th>% TOTAL AGREEMENT BY SAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative</td>
<td>100% (20/20)</td>
<td>90% (18/20)</td>
<td>100% (20/20)</td>
<td>96.7% (58/60)</td>
</tr>
<tr>
<td>vanA High Negative</td>
<td>100% (20/20)</td>
<td>100% (20/20)</td>
<td>95% (19/20)</td>
<td>98.3% (59/60)</td>
</tr>
<tr>
<td>vanA Low Positive</td>
<td>100% (20/20)</td>
<td>100% (20/20)</td>
<td>100% (20/20)</td>
<td>100% (60/60)</td>
</tr>
<tr>
<td>vanA Moderate Positive</td>
<td>100% (20/20)</td>
<td>95% (19/20)</td>
<td>100% (20/20)</td>
<td>98.3% (59/60)</td>
</tr>
<tr>
<td>% Total Agreement by Site</td>
<td>100% (80/80)</td>
<td>96.3% (77/80)</td>
<td>98.8% (79/80)</td>
<td>98.3% (236/240)</td>
</tr>
</tbody>
</table>

**REPRODUCIBILITY**

Xpert vanA provides useful and timely information to clinicians for improved patient management.

**ANSWER YOU NEED IN 90 MINUTES OR LESS**

Xpert vanA provides useful and timely information to clinicians for improved patient management.
WORKFLOW:
3 EASY STEPS
Total hands-on time: <1 Minute

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 vanA (10 tests) ................................................................. Catalog No. GXVANA-10

References:

For In Vitro Diagnostic Use.

CORPORATE HEADQUARTERS
904 Caribbean Drive
Sunnyvale, CA 94089 USA
TOLL FREE 1.888.336.2743
PHONE 1.408.541.4191
FAX 1.408.541.4192

EUROPEAN HEADQUARTERS
Vira Solelh
81470 Maurens-Scopont France
PHONE 33.563.82.53.00
FAX 33.563.82.53.01

www.Cepheid.com