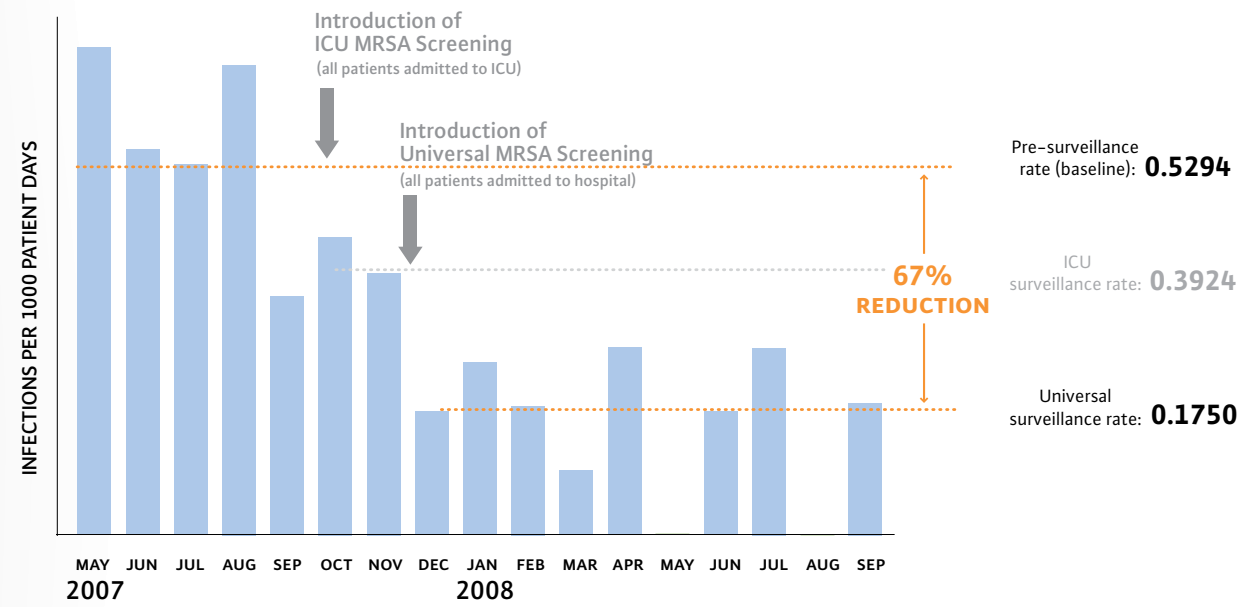


The Impact

Loyola University Medical Center is an example of how active MRSA surveillance testing (first with the ICU patient population and then expanded to all patients), coupled with appropriate infection control practices, can successfully reduce MRSA infection rates by 67%.

LOYOLA UNIVERSITY MEDICAL CENTER NOSOCOMIAL MRSA INFECTION RATES*



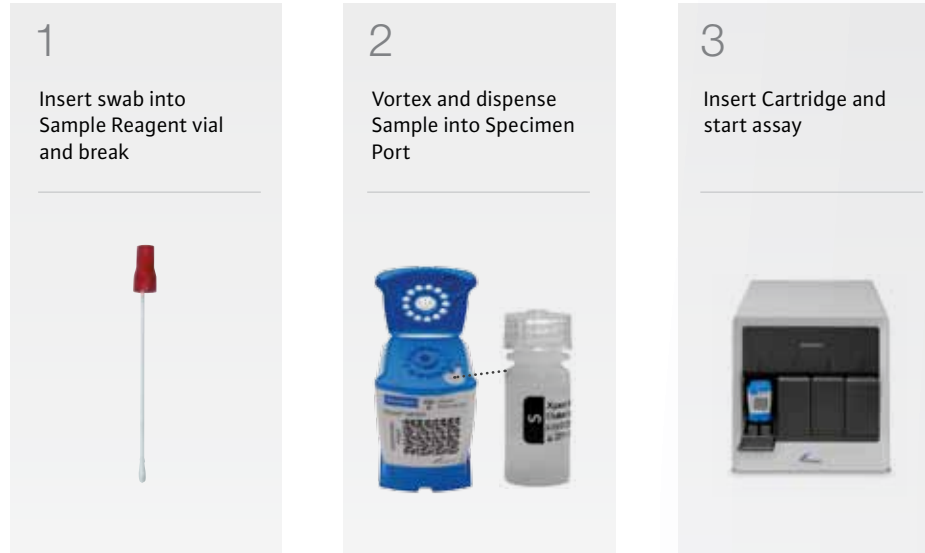
A study done at Centennial Medical Center in Nashville, TN compared the performance and turn-around times of samples of their ICU patients collected on admission. Samples were tested with BD CHROMAgar™ MRSA and Xpert® MRSA in the lab and results reported. Centennial was able to provide test results over 28 hours sooner using Xpert MRSA.

TURN-AROUND TIMES OF POSITIVE RESULTS CALLED TO ICU⁵

Test	Number	Mean Turn Around Time (Hours)
Xpert MRSA Test – Positive Result	125	6.9
Cultures – Positive Results	79	35.8

"[Using culture] would equate to an additional 44 HAI transmissions... which would indicate that the use of Xpert MRSA could save up to 11 MRSA infections..."⁵

WORKFLOW: 2 Easy Steps Total hands-on time: <1 Minute



References:

1. Annual epidemiological report on communicable diseases in Europe 2010.
2. Klein, E., Smith, D., Laxminarayan, R., "Hospitalizations and deaths caused by Methicillin-resistant *Staphylococcus aureus*, United States, 1999-2005," Emerging Infectious Diseases, 2007; 13: 1840-1846
3. Kuenhart, M.J. et al., "Methicillin-resistant *Staphylococcus aureus*-related hospitalizations, United States," Emerging Infectious Disease 2005; 11:868-872
4. Parada, JP et al. Universal Inpatient Screening with Rapid PCR-Based Technology Reduces Nosocomial Methicillin Resistant *Staphylococcus aureus* (MRSA) Rates: May 2007 to September 2008. Poster presented at APIC, June 2009.
5. Lassiter, S et al. Rapid Detection of Methicillin-Resistant *Staphylococcus aureus* using the Cepheid GeneXpert® Dx System and the Xpert® MRSA Test. Poster presented at ASM 2008.
6. Nahimana I, et al. Evaluation of three chromogenic media (MRSA-ID, MRSA-Select and CHROMagar MRSA) and ORSAB for surveillance cultures of methicillin-resistant *Staphylococcus aureus*. Clin Microbiol Infect 2006; 12: 1168-1174.



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0002-06



Redefining Active MRSA Management

Xpert® MRSA

Healthcare's #1 choice for on-demand MRSA testing.

CE IVD In Vitro Diagnostic Medical Device



“The GeneXpert® System has taken the TAT of results from 2-3 days down to a few hours. Now we do not have to presumptively isolate patients. This has helped to reduce nursing labor, improve bed management and reduce isolation costs in the ICU.”

Mary Jane Larmon, RN, BSN, MBA
ICU Nurse Manager, Sharon Regional Health System



The Need

MRSA infections are costly.

The human and financial impact of MRSA is high:

- Nine European countries reported MRSA proportions of greater than 25% in 2010¹
- In Europe, over 200,000 hospitalized people are infected by MRSA annually

The Solution

Rapid Active MRSA Surveillance Testing and Infection Control

- Reduction of healthcare-associated MRSA infections starts with active surveillance — Xpert® MRSA provides on-demand results in approximately one hour and has been proven to optimize effectiveness of infection control programs
- Xpert MRSA provides on-demand results — rapid identification of colonized patients allows for immediate actions for improved patient outcomes and reduced length of stay
- In the US, over 17,000 MRSA-related hospitalizations end in death²
- In the US, over \$2.5 billion excess health care costs are attributable to MRSA infections³

Performance

Performance characteristics of Xpert® MRSA were determined in a multi-site prospective investigation study at seven institutions by comparing Xpert MRSA with enriched culture, the most sensitive culture method.

XPRT MRSA VS. REFERENCE CULTURE METHOD

		Culture		
		+	-	Totals
Xpert MRSA	+	182	44	226
	-	29	819	848
		211	863	1074*

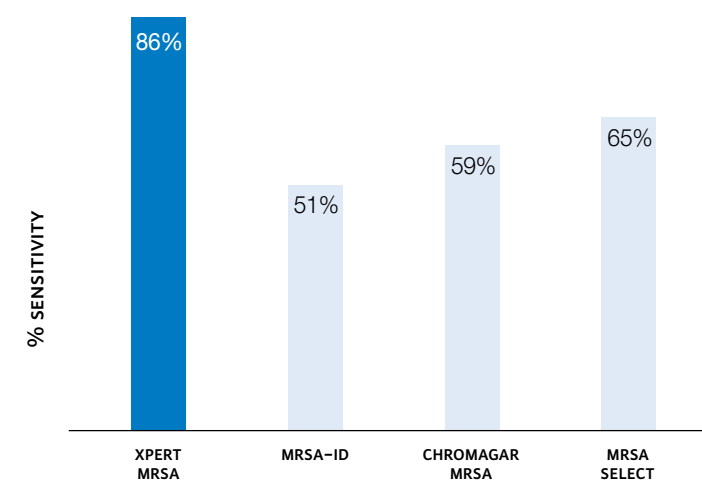
*Three specimens did not give Xpert MRSA results on 2 attempts
^Positive predictive value
^Negative predictive value

POSITIVE AGREEMENT: **86.3%**
NEGATIVE AGREEMENT: **94.9%**
PPV[^]: **80.5%**
NPV[^]: **96.6%**

Accuracy

Prevention of MRSA requires **rapid** and **accurate** identification of colonized patients. Xpert MRSA demonstrates superior sensitivity compared to chromogenic culture methods.

XPRT MRSA VS. CHROMOGENIC CULTURE MEDIA⁴



Comprehensive

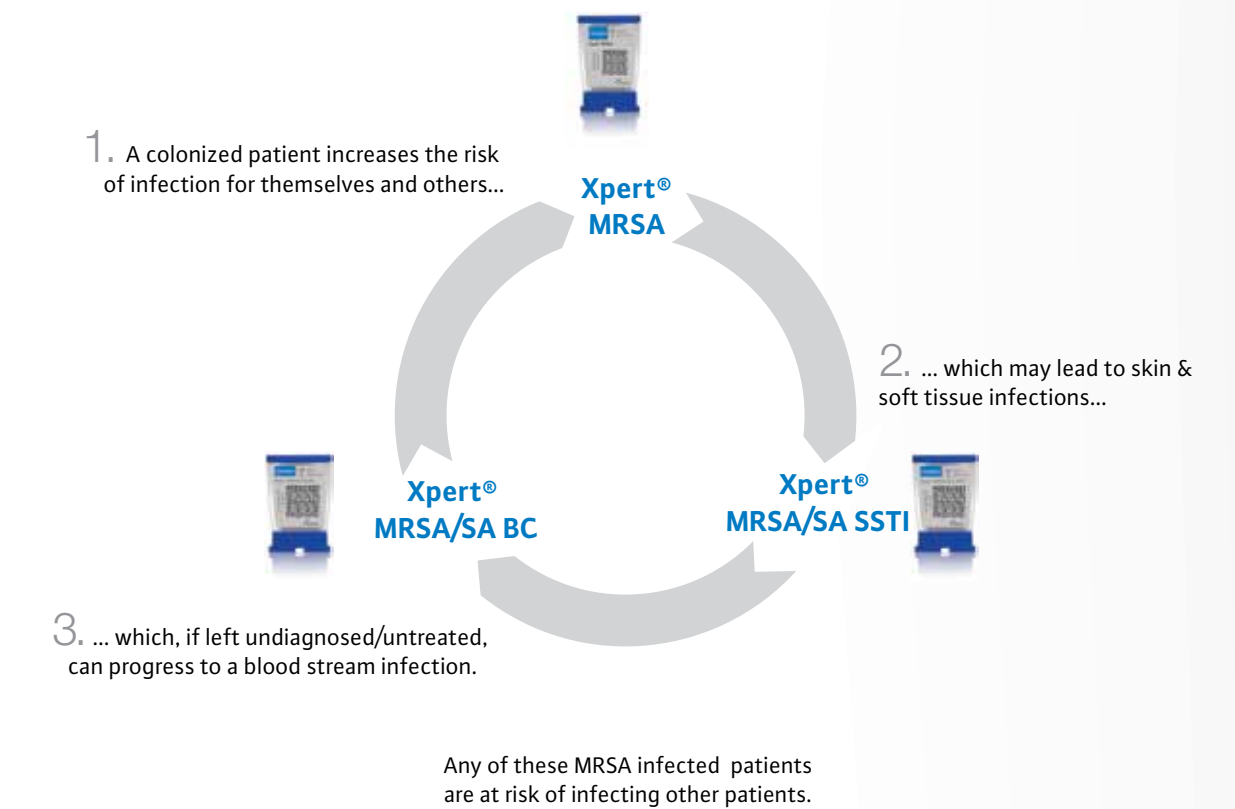
Xpert MRSA is capable of detecting strains with all SCCmec types found in both healthcare-acquired and community-acquired MRSA. The recent inauguration of the HAI Consortium will allow Cepheid to keep abreast of new variants in real time assuring our customers of the best coverage now and in the future.

	Type
Samples	Nasal swabs
SCCmec	I, II, III, IVa, V, VI

The Xpert® MRSA advantage: Actionable information sooner

- CLIA moderately complex test can be run by most lab personnel
- Random access for flexibility and workflow optimization
- Rapid results in about an hour to improve patient management
- Early assay termination feature reports most positive results in under an hour
- Fully integrated reagent and instrument system for accuracy and reproducibility

Comprehensive Approach to MRSA Infection Control



ORDERING INFORMATION

Xpert® MRSA Catalog No. GXMRSA-100N-10
(10 cartridges with reagents)

Xpert® MRSA Catalog No. GXMRSA-120
(120 cartridges with reagents)