MRSA Bacteremia

- **Data source:** CDC’s National Healthcare Safety Network (NHSN), Multidrug-Resistant Organism (MDRO) and *Clostridium difficile* Infection (CDI) Module
- **Definition:** [http://www.cdc.gov/nhsn/PDFs/pscManual/12pscMDRO_CDADcurrent.pdf](http://www.cdc.gov/nhsn/PDFs/pscManual/12pscMDRO_CDADcurrent.pdf)
- **5-Year (2013) National Prevention Target:** 25% reduction in facility-wide healthcare facility-onset MRSA bacteremia LabID event

**Metric:** Standardized Infection Ratio (SIR)
- The SIR compares the observed number of healthcare-associated infections (HAIs) in the U.S. during a reporting period with the baseline U.S. experience
- Risk adjustment: This metric adjusts for a variety of predictors of MRSA bacteremia, including teaching type, facility bed size, and facility prevalence rate
- SIR < 1.0 means fewer HAIs observed during the reporting period than predicted from baseline data; SIR > 1.0 means more HAIs observed than predicted

**Metric Definitions:** Facility-wide MRSA bacteremia laboratory-identified (LabID) event specimens collected from patients while housed in any of the facility’s inpatient locations are eligible for inclusion in the metric. Healthcare facility-onset (HO) MRSA blood LabID events are defined as *S. aureus*-positive blood specimens collected > 3 days after admission to the facility (admission=day 1), testing oxacillin-resistant, cefoxitin-resistant, or methicillin-resistant by standard susceptibility testing methods, or by a laboratory test that is FDA-approved for MRSA detection from isolated colonies, or by any FDA-approved test for MRSA detection, from a patient with no previous MRSA-positive blood specimen in the prior 14 days.

**Baseline data (2010-2011):** MRSA bacteremia LabID event data reported at the facility-wide inpatient level (i.e., all inpatient locations) to NHSN during 2010-2011 from all acute care general hospitals
- 740 facilities reporting from all inpatient locations facility-wide; 44,791,753 facility-wide patient days reported; 10,154,351 facility-wide admissions reported
- 31 states reporting
- 6 states had legislative mandates to report MRSA bacteremia LabID event facility-wide inpatient data to NHSN at some point during 2010-2011

**2012 data:** MRSA bacteremia LabID event data reported at the facility-wide inpatient level to NHSN during first 6 months of 2012 from all acute care general hospitals
- 844 facilities reporting from all inpatient locations facility-wide; 18,423,662 facility-wide patient days reported; 4,272,367 facility-wide admissions reported
- 39 states reporting
- 6 states had legislative mandates to report MRSA bacteremia LabID event facility-wide inpatient data to NHSN during 2012

<table>
<thead>
<tr>
<th>Measure</th>
<th>Baseline (2010-2011)</th>
<th>1st Half 2012*</th>
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<tbody>
<tr>
<td>National SIR</td>
<td>N/A</td>
<td>0.952 = 1118 / 1174.46 MRSA Blood LabID Events</td>
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<tr>
<td>National % Reduction</td>
<td>N/A</td>
<td>5%</td>
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* These data from the first half of 2012 are incomplete and therefore only preliminary at this time.