

Facility-wide Inpatient Methicillin-resistant Staphylococcus aureus (MRSA) Blood Laboratory-identified Events
NQF#: 1716
Developer: Centers for Disease Control and Prevention (CDC)
Data Source: Leapfrog Hospital Survey; CMS
Description: Standardized infection ratio (SIR) of hospital-onset unique blood source MRSA Laboratory-identified events (LabID events) among all inpatients in the facility.
Rationale: Multidrug-Resistant Organisms (MDROs), including MRSA, have been shown to be associated with increased mortality, length of stay, and cost. The proportion of <i>S. aureus</i> isolates for all healthcare-associated infections entered the National Nosocomial Infection Surveillance System that were MRSA increased from 35.9% to 64.4% from 1992-2003. Over 50% of all central line-associated bloodstream infections reported to NHSN in 2006-07 caused by <i>S. aureus</i> were MRSA.
<p>Citations for Rationale:</p> <ul style="list-style-type: none"> • Siegel, JD, et al., Guideline for Management of Multidrug-Resistant Organisms In Healthcare Settings, 2006. Available at http://www.cdc.gov/hicpac/pdf/guidelines/MDROGuideline2006.pdf. • Klevens, RM, et al., Changes in the Epidemiology of Methicillin-Resistant Staphylococcus aureus in Intensive Care Units in US Hospitals, 1992–2003. Clin Inf Dis, 2006. 42(3):389-391. • Hidron, AI et al., Antimicrobial-Resistant Pathogens Associated With Healthcare-Associated Infections: Annual Summary of Data Reported to the National Healthcare Safety Network at the Centers for Disease Control and Prevention, 2006-07. Infect Control Hosp Epidemiol, 2008. 29(11):996-1101.
<p>Impact:</p> <ul style="list-style-type: none"> • Affects many hospitalized patients • Leading cause of morbidity/mortality • Severity of illness
<p>Opportunity:</p> <ul style="list-style-type: none"> • Opportunity for improvement exists, as demonstrated by the coefficient of variation for the measure.
<p>Evidence:</p> <ul style="list-style-type: none"> • Clinical guideline based on expert opinion, systematic synthesis of research <p>Citations for Evidence:</p> <ul style="list-style-type: none"> • Siegel J., et al., and the Healthcare Infection Control Practices Advisory Committee. Management of Multidrug-Resistant Organisms in Healthcare Settings, 2006. Centers for Disease Control. Available from: http://www.cdc.gov/hicpac/pdf/guidelines/MDROGuideline2006.pdf