

STAPHYLOCOCCUS AUREUS (MRSA, TSS, VISA, VRSA)NOTIFICATION VARIESEPIDEMIOLOGY PROGRAM

Event Name:	SAUR
Event Time Period:	60 Days

**MRSA (Methicillin/Oxacillin-resistant *Staphylococcus aureus*): NON-IMMEDIATE NOTIFICATION**

Effective 3/22/2016, ISIS no longer needs to enter paper labs into MAVEN regardless of source for MRSA events. Please Shred!

Clinical Description:	N/A
CDC Event Classification:	N/A
Massachusetts Event Classification:	<i>Confirmed</i>   Positive laboratory confirmation (culture) <b>from a normally sterile site</b>

**Staphylococcal Toxic Shock Syndrome: NON-IMMEDIATE NOTIFICATION**

Clinical Description (CDC 2007):	<p>An illness with the following clinical manifestations:</p> <ul style="list-style-type: none"><li>• <i>Fever</i>: temperature greater than or equal to 102.0°F (greater than or equal to 38.9°C)</li><li>• <i>Rash</i>: diffuse macular erythroderma</li><li>• <i>Desquamation</i>: 1-2 weeks after onset of illness, particularly on the palms and soles</li><li>• <i>Hypotension</i>: systolic blood pressure less than or equal to 90 mm Hg for adults or less than fifth percentile by age for children aged less than 16 years; orthostatic drop in diastolic blood pressure greater than or equal to 15 mm Hg from lying to sitting, orthostatic syncope, or orthostatic dizziness</li><li>• <i>Multisystem involvement</i> (three or more of the following):<ul style="list-style-type: none"><li>○ <i>Gastrointestinal</i>: vomiting or diarrhea at onset of illness</li><li>○ <i>Muscular</i>: severe myalgia or creatine phosphokinase level at least twice the upper limit of normal</li><li>○ <i>Mucous membrane</i>: vaginal, oropharyngeal, or conjunctival hyperemia</li><li>○ <i>Renal</i>: blood urea nitrogen or creatinine at least twice the upper limit of normal for laboratory or urinary sediment with pyuria (greater than or equal to 5 leukocytes per high-power field) in the absence of urinary tract infection</li><li>○ <i>Hepatic</i>: total bilirubin, alanine aminotransferase enzyme, or aspartate aminotransferase enzyme levels at least twice the upper limit of normal for laboratory</li><li>○ <i>Hematologic</i>: platelets less than 100,000/mm<sup>3</sup></li><li>○ <i>Central nervous system</i>: disorientation or alterations in consciousness without focal neurologic signs when fever and hypotension are absent</li></ul></li></ul>
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### **Staphylococcus aureus (continued)**

#### **Staphylococcal Toxic Shock Syndrome: NON-IMMEDIATE NOTIFICATION (continued)**

CDC Event Classification (2007):	<i>Confirmed</i>	A case in which all five of the clinical findings described above are present, including desquamation, unless the patient dies before desquamation occurs AND Negative results on the following tests, if obtained: <ul style="list-style-type: none"><li>• Blood, throat, or cerebrospinal fluid cultures (blood culture may be positive for <i>Staphylococcus aureus</i>)</li><li>• Rise in titer to Rocky Mountain spotted fever, leptospirosis, or measles</li></ul>
	<i>Probable</i>	A case in which four of the five clinical findings described above are present AND Negative results on the following tests, if obtained: <ul style="list-style-type: none"><li>• Blood, throat, or cerebrospinal fluid cultures (blood culture may be positive for <i>Staphylococcus aureus</i>)</li><li>• Rise in titer to Rocky Mountain spotted fever, leptospirosis, or measles</li></ul>
Massachusetts Event Classification (2016)	<i>Follows CDC event classification</i>	

#### **Vancomycin-intermediate *Staphylococcus aureus*(VISA): IMMEDIATE NOTIFICATION**

Clinical Description (2007):	<i>Staphylococcus aureus</i> can produce a variety of syndromes with clinical manifestations including skin and soft tissue lesions, empyema, pyarthrosis, bloodstream infection, pneumonia, osteomyelitis, septic arthritis, endocarditis, sepsis, and meningitis.	
CDC Event Classification (2007):	A clinically compatible case of vancomycin-intermediate <i>Staphylococcus aureus</i> that is laboratory-confirmed MIC: 4-8 µg/ml	
Massachusetts Event Classification:	<i>Confirmed</i>	A clinically compatible case of vancomycin-intermediate <i>Staphylococcus aureus</i> that is CDC laboratory-confirmed MIC: 4-8 µg/ml
	<i>Suspect</i>	A clinically compatible case of vancomycin-intermediate <i>Staphylococcus aureus</i> that is laboratory-confirmed MIC: 4-8 µg/ml, but not confirmed by the CDC

#### **Vancomycin-resistant *Staphylococcus aureus* (VRSA): IMMEDIATE NOTIFICATION**

Clinical Description (CDC 2007):	<i>Staphylococcus aureus</i> can produce a variety of syndromes with clinical manifestations including skin and soft tissue lesions, empyema, pyarthrosis, bloodstream infection, pneumonia, osteomyelitis, septic arthritis, endocarditis, sepsis, and meningitis.	
CDC Event Classification (2007):	A clinically compatible case of vancomycin-intermediate <i>Staphylococcus aureus</i> that is laboratory-confirmed MIC: ≥ 16 µg/ml	
Massachusetts Event Classification:	<i>Confirmed</i>	A clinically compatible case of vancomycin-resistant <i>Staphylococcus aureus</i> that has been confirmed by CDC laboratories as having MIC: ≥ 16 µg/ml
	<i>Suspect</i>	A clinically compatible case of vancomycin-resistant <i>S. aureus</i> that is laboratory-confirmed MIC: ≥ 16 µg/ml, but was not confirmed by the CDC

**Staphylococcus aureus (continued)**

Report Type	Test Type	Source	Result	New event or beyond report period?	Data Entry
Laboratory report <b>OR</b> Boston Reporting Card	Culture and appropriate sensitivity testing	Clinical specimen	Vancomycin intermediate or resistant	Yes	New event SUSPECT
				No	Same event
Select:	Microorganism : PrId : Pt : xxx : Nom : Culture				
Laboratory report <b>OR</b> Boston Reporting Card	Culture and appropriate sensitivity testing	Sterile site	Methicillin/Oxacillin - resistant <i>Staphylococcus aureus</i>	Yes	New event CONFIRMED
				No	Same event
Select:	Microorganism : PrId : Pt : xxx : Nom : Culture				
Laboratory report <b>OR</b> Boston Reporting Card	PCR	Sterile site	Methicillin/Oxacillin - resistant <i>Staphylococcus aureus</i>	Yes	New event CONFIRMED
				No	Same event
Select:	MRSA DNA XXX QI PCR				

NOTE: ISIS will accept ALL sources with VISA or VRSA results.