

**MELIOIDOSIS (*Burkholderia pseudomallei*)****IMMEDIATE NOTIFICATION****EPIDEMIOLOGY PROGRAM**

Event Name:	BURK
Event Time Period:	Lifelong immunity
Clinical criteria (CSTE 2023)	<p>In the absence of a more likely diagnosis, a person with <b>at least one of the following</b> signs or symptoms*:</p> <ul style="list-style-type: none"><li>• Fever (temperature &gt; 100.4 °F)</li><li>• Muscle aches</li><li>• Ulcer</li><li>• Nodule</li><li>• Skin abscess</li><li>• Pneumonia</li><li>• Headache</li><li>• Chest pain</li><li>• Anorexia</li><li>• Respiratory distress</li><li>• Abdominal discomfort</li><li>• Joint pain</li><li>• Disorientation</li><li>• Weight loss</li><li>• Seizure</li><li>• Organ abscess (liver, lung, spleen, prostate, or brain)</li><li>• Encephalomyelitis/meningitis/extra-meningeal disease</li></ul> <p><i>*Clinical criteria must be paired with EITHER serologic evidence of a single <i>B. pseudomallei</i> total antibody titer <math>\geq 1:40</math> from one or more serum specimens OR epidemiologic linkage criteria to trigger a report to public health.</i></p>
Epidemiologic linkage criteria (CSTE 2023)	<ul style="list-style-type: none"><li>• History of travel to or residence in a region endemic for melioidosis, <b>OR</b></li><li>• Known exposure to <i>B. pseudomallei</i> as a result of intentional release or known product/source exposure (outside of laboratory), <b>OR</b></li><li>• Known exposure to <i>B. pseudomallei</i> as a result of an occupational risk (i.e., laboratory exposure)</li></ul>
Vital records criteria (CSTE 2023)	<ul style="list-style-type: none"><li>• A person whose death certificate lists melioidosis as a cause of death or a significant condition contributing to death</li></ul>
Other criteria (CSTE 2023)	<ul style="list-style-type: none"><li>• A person whose healthcare record contains a recent diagnosis of melioidosis</li></ul>

CSTE Event Classification (2023)	<i>Confirmed:</i>	Isolation of <i>B. pseudomallei</i> from a clinical specimen
	<i>Probable:</i>	<ol style="list-style-type: none"> <li>Meets clinical and epidemiologic linkage criteria with at least one of the following labs: <ul style="list-style-type: none"> <li>Evidence of a fourfold or greater rise in <i>B. pseudomallei</i> antibody titer by indirect hemagglutination assay (IHA) between acute- and convalescent-phase serum specimens obtained at least two weeks apart, <b>OR</b></li> <li>Evidence of <i>B. pseudomallei</i> DNA (for example, by LRN-validated nucleic acid amplification test) in a clinical specimen</li> </ul> <p><b>OR</b></p> </li> <li>Meets vital records and epidemiologic linkage criteria with at least one of the labs above.</li> </ol> <p><b>OR</b></p> <ol style="list-style-type: none"> <li>Meets other and epidemiologic linkage criteria with at least one of the labs above.</li> </ol>
	<i>Suspect:</i>	<ol style="list-style-type: none"> <li>Meets clinical and epidemiologic linkage criteria with the following lab: <ul style="list-style-type: none"> <li>Single <i>B. pseudomallei</i> total antibody titer of greater than or equal to 1:40 by serology in one or more serum specimens</li> </ul> <p><b>OR</b></p> </li> <li>Meets vital records and epidemiologic linkage criteria with the lab noted above.</li> </ol> <p><b>OR</b></p> <ol style="list-style-type: none"> <li>Meets other and epidemiologic linkage criteria with the lab noted above.</li> </ol>
Massachusetts Event Classification (2023)	Follows CSTE Event Classification	

Report Type	Test	Source	Result	New event or beyond report period?	Data Entry
Laboratory report	Culture	Clinical specimen	<i>Burkholderia pseudomallei</i>	Yes	New event CONFIRMED
				No	Same event
Select:	Microorganism: PrId: Pt: xxx: Nom: Culture				
Laboratory report	PCR	Clinical specimen	Positive or <i>Burkholderia pseudomallei</i>	Yes	New event SUSPECT
				No	Same event
Select (PCR specific for <i>B. pseudomallei</i> ):	B pseudomal DNA: ACnc: Pt: xxx: Ord: Probe				
Select (PCR specific for <i>Burkholderia</i> sp.):	Burkholderia DNA XXX PCR				
Laboratory report	Hemagglutination	Clinical specimen	Positive	Yes	New event SUSPECT
				No	Same event
Select:	B pseudomal Ab Ser HA-aCnc				
Laboratory report	IFA	Clinical specimen	Positive	Yes	New event SUSPECT
				No	Same event
Select (IgG-specific):	B pseudomal <b>IgG</b> Titr XXX IF				
Select (IgM-specific):	B pseudomal <b>IgM</b> Titr XXX IF				