

BRUCELLSIS

Basis Of Diagnosis	
CLINICAL CRITERIA	
Fits clinical description	Tick "Yes" if the case fits the clinical description (acute or insidious onset of fever, night sweats, undue fatigue, anorexia, weight loss, headache and arthralgia). If not, tick the "No" box. If not known or unavailable then tick the "Unknown" box.
LABORATORY CRITERIA	
Laboratory criteria	Indicate if the case meets the laboratory criteria. If not, tick the "No" box. If not known or unavailable then tick the "Unknown" box.
Laboratory confirmation	Indicate the status of laboratory confirmation. If the laboratory test results were positive tick the "Yes" option, if negative tick the "No" option. If the results of the laboratory test are not yet available, tick "Awaiting results". If any of the laboratory tests were not carried out, tick "Not Done".
EPIDEMIOLOGICAL CRITERIA	
Contact with a laboratory confirmed source	Indicate whether the person has had any contact with a laboratory confirmed source of brucellosis. If not known or unavailable then tick the "Unknown" box.
Status	<p>Under investigation - A case that has been notified but information is not yet available to classify it as probable or confirmed.</p> <p>Probable - A clinically compatible illness that is epidemiologically linked to a confirmed source.</p> <p>Confirmed - A clinically compatible illness that is laboratory confirmed.</p> <p>Laboratory test for diagnosis:</p> <p>One of the following:</p> <ul style="list-style-type: none"> • isolation of <i>Brucella</i> species from a clinical specimen • a fourfold or greater rise in <i>Brucella</i> antibody titre (by SAT, ELISA, Coombs, IFA), between acute and convalescent phase serum specimens obtained at least two weeks apart. The sera should be tested in parallel

	<ul style="list-style-type: none"> a single <i>Brucella</i> titre of ≥ 160 (by SAT or Coombs) confirmed either by a 2-mercaptoethanol test (2ME) <p>titre of ≥ 160 or by a diagnostic ratio of IgG to IgM titres using ELISA. The presence of <i>Brucella</i> IgG antibodies at a level of ≥ 160 is suggestive of ongoing infection.</p> <p>A possibility of cross reactivity in the <i>Brucella</i> SAT test with antibodies from people infected with <i>Yersinia enterocolitica</i>, <i>Vibrio cholerae</i> or <i>Francisella tularensis</i> should be considered.</p> <p>The 2-ME test is available at Wellington hospital laboratory.</p> <p>Not a case - A case that has been investigated and subsequently has been shown not to meet the case definition.</p>
ADDITIONAL LABORATORY DETAILS	
Species	Specify the species of <i>Brucella</i> if known.
Risk Factors	
Occupational exposure	<p>Indicate whether the case had any occupational contact with animals or animal products in the three months prior to illness. If "Yes", give details of the exposure. If not known or unavailable then tick the "Unknown" box.</p> <p>If "Yes" to occupational exposure, specify if exposure was within New Zealand by ticking the "Yes" box. If not, tick the "No" box, and if not known or unavailable then tick the "Unknown" box.</p>
Consumption of unpasteurised milk	<p>Indicate whether the case consumed unpasteurised milk or unpasteurised milk products in the three months prior to illness. If "Yes", specify what was consumed. If not known or unavailable then tick the "Unknown" box.</p> <p>If "Yes" consumption of unpasteurised milk, specify if exposure was within New Zealand by ticking the "Yes" box. If not, tick the "No" box, and if not known or unavailable then tick the "Unknown" box.</p>
Overseas travel	<p>Indicate whether the case was overseas during the incubation period for brucellosis (range = 5-60 days). If "Yes", record the date of arrival in New Zealand. List the countries/regions visited (up to three) from the most recent to the least recent. Record date of entry and departure in each country/region.</p>

Prior history of overseas travel	If the case has not been overseas during the incubation period (5-90 days) for brucellosis, indicate whether any prior history of overseas travel might account for the infection. If "Yes", record details of this travel. If not known or unavailable then tick the "Unknown" box.
Other risk factor for brucellosis	Specify any other risk factors under surveillance for brucellosis if they were present.
Management	
CASE MANAGEMENT	
Reported to Ministry of Health for coordination of notification and investigation with MAF	<i>Brucella melitensis</i> is a notifiable disease under the Biosecurity Act 1993. Indicate whether the case was reported to the Ministry of Health for follow-up with the Ministry of Agriculture and Forestry.