

## MEASLES, MUMPS, RUBELLA

Disease Name	
Disease	Tick whether the disease under investigation in this case is measles, mumps or rubella. Cases of congenital rubella should be reported using the generic form.
Basis of Diagnosis	
CLINICAL CRITERIA	
Fits clinical description	<p>Tick "Yes" if the case fits the clinical description as follows:</p> <p><b>Measles</b> Cases must meet all the following criteria:</p> <ul style="list-style-type: none"> <li>• generalised maculopapular rash starting on the head and neck</li> <li>• fever (at least 38°C if measured) present at time of rash onset</li> <li>• cough or coryza or conjunctivitis or Koplik's spots present at the time of rash onset.</li> </ul> <p><b>Mumps</b> An illness with acute onset of fever (at least 38°C if measured) and unilateral or bilateral tenderness and swelling of the parotid or other salivary gland/s, lasting more than two days, and without other apparent cause.</p> <p><b>Rubella</b> An illness with a generalised maculopapular rash, and fever AND one or more of the following:</p> <ul style="list-style-type: none"> <li>• arthralgia/arthritis</li> <li>• lymphadenopathy</li> <li>• conjunctivitis.</li> </ul> <p>Rubella often presents atypically and is difficult to diagnose clinically with certainty. Up to 50 percent of infections are subclinical. If accurate diagnosis is important it must be laboratory confirmed.</p>
Clinical features	Ideally, obtain information on all of the clinical features listed. If the feature was present, record by ticking the "Yes" box. If not, tick the "No" box. If not known or unavailable then tick the "Unknown" box. Where maculopapular rash is present for measles or rubella cases, specify the date of onset of the rash.

<b>LABORATORY CRITERIA</b>	
Laboratory confirmation	<p>Indicate the status of laboratory confirmation. If 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". Specify the method(s) of confirmation - tick all that apply. If genetic characterisation was done please tick box and provide the typing result in the specify box.</p> <p><u>Laboratory confirmation:</u></p> <p><i>If case received a vaccine containing the virus (measles, mumps, or rubella, as appropriate) in the 6 weeks prior to symptom onset:</i></p> <p style="padding-left: 40px;">Evidence of infection with a wild-type virus strain obtained through genetic characterisation<sup>1</sup>.</p> <p><i>If case did <u>not</u> receive a vaccine containing the virus (measles, mumps or rubella, as appropriate) in the 6 weeks prior to symptom onset, at least one of the following:</i></p> <p style="padding-left: 40px;">Detection of IgM antibody specific to the virus</p> <p style="padding-left: 40px;">IgG seroconversion or a significant rise (four-fold or greater) in antibody level for the virus between paired sera tested in parallel where the convalescent serum was collected 10 to 14 days after the acute serum</p> <p style="padding-left: 40px;">Isolation of the virus by culture</p> <p style="padding-left: 40px;">Detection of nucleic acid specific to the virus</p> <p><sup>1</sup><i>In New Zealand, genetic characterisation is generally only performed for measles virus.</i></p>
<b>EPIDEMIOLOGICAL CRITERIA</b>	
Contact with a laboratory confirmed case	Indicate whether the person has had any contact with a laboratory confirmed case of the disease. If not known or unavailable then tick the “Unknown” box.
<b>STATUS</b>	
STATUS	<p>Under investigation - A case which has been notified but information is not yet available to classify it as probable or confirmed.</p> <p>Probable – a clinically compatible illness.</p>

	<p>Confirmed – a clinically compatible illness that is laboratory confirmed or epidemiologically linked to a confirmed case.</p> <p>Not a case – a case that has been investigated, and subsequently found not to meet the case definition.</p>
<b>Risk Factors</b>	
Contact with a confirmed case	Indicate whether the case has been in contact with a confirmed case of the same disease in the 3 weeks prior to illness. If not known or unavailable then tick the “Unknown” box.
Attendance at school, pre-school or childcare	Indicate whether the case attends school, pre-school or childcare. If not known or unavailable then tick the “Unknown” box.
Overseas travel	Indicate whether the case was overseas during the incubation period for the disease (measles = 7-18 days; mumps = 12-25 days; rubella = 14-23 days). If not known or unavailable then tick the “Unknown” box.
Other risk factor for disease	Specify any other risk factors under surveillance for the disease if they were present.
<b>Protective Factors</b>	
Immunisation	Indicate whether the patient had been immunised with MMR or the appropriate monovalent vaccine <b>at any time before</b> becoming ill.
Vaccine details	If the case has been immunised record the details of each dose they received. Record the date of each dose or the age when it was given. Specify the age units (weeks, months, years) by selecting one of the boxes. If the case has not received both doses, record the details for those received and tick the “Not given” box for the subsequent dose to indicate no further doses had been received. If vaccination dose information is not known or unavailable, then tick the “Unknown” box. Indicate whether the source of immunisation information was patient/caregiver recall or documented for each dose.

<b>Management</b>	
<b>CASE MANAGEMENT</b>	
Exclusion from work or school / pre-school/childcare	Indicate whether the case was excluded from work or school/pre-school/childcare for the appropriate period (refer to the Communicable Disease Control Manual). If the case does not attend work or school/pre-school/childcare tick "NA". If not known or unavailable then tick the "Unknown" box.
Pregnant case (Rubella only)	For cases of rubella, indicate whether they were pregnant. If "Yes", record gestation in weeks at time of onset. If not known or unavailable then tick the "Unknown" box.
<b>CONTACT MANAGEMENT</b>	
Contacts - measles only	Indicate whether the case had any contacts at risk of infection. If not known or unavailable then tick the "Unknown" box. Record the number of contacts identified who were less than 15 months old and 15 months or over. Indicate how many of the contacts identified were susceptible, given MMR, given immunoglobulin and the number that declined - each of these should be a subset of the number identified.
Unimmunised susceptible contacts excluded	Indicate if unimmunised susceptible contacts were advised not to attend school/pre-school/childcare for the appropriate period from onset of rash in last child (refer to the Communicable Disease Control Manual).