

MEASLES, MUMPS, RUBELLA

Disease name

Disease	Select from measles, mumps or rubella. Cases of congenital rubella should be reported using the generic form.
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Basis of diagnosis

Clinical criteria	
Fits clinical description	<p>Select the 'Yes' option if the case fits the clinical description (for the disease) as follows:</p> <p>Measles: cases must meet all the following criteria:</p> <ul style="list-style-type: none"> • generalised maculopapular rash starting on the head and neck • fever (at least 38°C if measured) present at time of rash onset • cough or coryza or conjunctivitis or Koplik's spots present at the time of rash onset. <p>Mumps: an acute illness with unilateral or bilateral tenderness and swelling of the parotid or other salivary gland/s, lasting more than two days, with or without fever and without other apparent cause.</p> <p>Rubella: an illness with a generalised maculopapular rash, and fever, and one or more of the following:</p> <ul style="list-style-type: none"> • arthralgia / arthritis • lymphadenopathy • conjunctivitis. <p>Rubella often presents atypically and is difficult to diagnose clinically with certainty. Up to 50% 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 (for the disease) listed. If the feature was present, record by selecting the 'Yes' option. If not, select the 'No' option. If not known or unavailable, then select the 'Unknown' box. Where maculopapular rash is present for measles or rubella cases, specify the date of onset of the rash.
Laboratory criteria	
Laboratory confirmation of disease	If the laboratory test results were positive select the 'Yes' option, if negative select the 'No' option. If the results of the laboratory test are not yet available, select 'Awaiting results'. If laboratory tests were not carried out, select 'Not Done'.
Confirmation method	Specify the method(s) of confirmation - select all that apply. If genetic characterisation was done please select the 'Genetic characterisation' checkbox and provide the typing result.

Epidemiological criteria

Contact with a confirmed case	Indicate whether the person has had any contact with a confirmed case of the disease. If 'Yes', specify the EpiSurv number of the confirmed case. If not known or unavailable then select the 'Unknown' option.
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Classification

Classification	<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>Laboratory confirmation:</p> <p>If the case <i>received a vaccine</i> containing the virus (measles, mumps, or rubella, as appropriate) in the 6 weeks prior to symptom onset:</p> <ul style="list-style-type: none"> evidence of infection with a wild-type virus strain obtained through genetic characterisation is required for laboratory confirmation. <p>If the case <i>did not receive a vaccine</i> containing the virus (measles, mumps or rubella, as appropriate) in the 6 weeks prior to symptom onset, at least one of the following is required for laboratory confirmation:</p> <ul style="list-style-type: none"> detection of IgM antibody specific to the virus 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 isolation of the virus by culture detection of nucleic acid specific to the virus. <p>*In New Zealand, genetic characterisation is generally only performed for measles virus.</p> <p>Not a case – a case that has been investigated, and subsequently found not to meet the case definition.</p>
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Risk factors

Contact with a confirmed case	Indicate whether the case has been in contact with a confirmed case of the same disease during the incubation period for the disease. Consult the Communicable Disease Control Manual for details of the incubation periods for each disease. If not known or unavailable then select the 'Unknown' option.
Attendance at school, pre-school or childcare	Indicate whether the case attended school, pre-school or childcare during the incubation period for the disease. Consult the Communicable Disease Control Manual for details of the incubation periods for each disease. If not known or unavailable then select the 'Unknown' option.

Overseas travel	Indicate whether the case was overseas during the incubation period for the disease. 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 for each country/region.
Other risk factor for disease	Specify any other risk factors under surveillance for the disease if they were present.

Source

Source of the virus (measles and rubella only)	<p>For cases of measles and rubella, indicate whether the infection was imported, import related or endemic. If not known or unavailable, then select the 'Unknown' option.</p> <p>Imported: is an infection resulting from exposure outside the country during the incubation period (7-21 days prior to rash onset for measles and 14-23 days for rubella) as supported by epidemiological and/or virological evidence.</p> <p>Import-related: is a locally-acquired infection due to transmission from an imported or other import-related case as supported by epidemiologic and/or virological evidence.</p> <p>Endemic: is a locally acquired infection due to transmission of an indigenous virus or an imported measles virus that has persisted in the country for ≥ 12 months.</p> <p>If the case was imported, specify the country and region/city they visited at the likely time of exposure. If the case was import-related, provide the EpiSurv number of the source case. If the case was infected in New Zealand, specify the DHB where contact occurred.</p>
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Protective factors

Was case immunised	Indicate whether the patient had been immunised with MMR or the appropriate monovalent vaccine at any time before becoming ill .
Vaccine details	If the case has been immunised (prior to becoming ill), 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 only received one dose, record the details for the dose received and select the 'Not given' option for the second dose to indicate no further doses had been received. If vaccination dose information is not known or unavailable, then select the 'Unknown' option. Indicate whether the source of immunisation information was patient/caregiver recall or documented for each dose.

Management

Case management	
Investigation dates (measles and rubella only)	For cases of measles and rubella, indicate the dates the case investigation was started and completed.
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 select the 'NA' option. If not known or unavailable, then select the 'Unknown' option.
Pregnant (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 select the 'Unknown' option.
Contact management	
Contacts (measles and rubella only)	For cases of measles and rubella, indicate whether the case had any contacts at risk of infection. If not known or unavailable, then select the 'Unknown' option. Record the number of contacts identified that were <15 months old, 15 months or over and not pregnant, and the number of pregnant contacts. Indicate how many of the contacts identified were susceptible. For measles cases, specify the number of contacts that were given MMR, the number that declined MMR and the number that were given immunoglobulin- each of these should be a subset of the number identified.
Flight number/s (measles only)	For cases of measles, record the flight numbers if the case was infectious while on board any international flights. List flight numbers (up to four) from the most recent to least recent flight. Record the date of departure for each flight.
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).