

# Mumps

## Case definitions

Suspected Case:	Probable Case:	Confirmed Case:
<p>Acute onset of unilateral or bilateral parotitis or other salivary gland swelling, lasting at least 2 days</p> <p style="text-align: center;"><b>OR</b></p> <p>orchitis or oophoritis, in the absence of another likely diagnosis.<sup>1</sup></p> <p style="text-align: center;"><b>OR</b></p> <p>a positive lab result in the absence of symptoms (with or without epidemiological-link to confirmed or probable case).<sup>1*</sup></p>	<p>Clinical case as previously defined</p> <p style="text-align: center;"><b>AND</b></p> <p>positive serum anti-mumps IgM antibody result**</p> <p style="text-align: center;"><b>OR</b></p> <p>epidemiological link to confirmed or probable case, or to a cluster that has been defined during a mumps outbreak.<sup>1</sup></p>	<p>Clinical case as previously defined</p> <p style="text-align: center;"><b>OR</b></p> <p>aseptic meningitis, encephalitis, hearing loss, mastitis or pancreatitis</p> <p style="text-align: center;"><b>AND</b></p> <p>positive detection of viral nucleic acid by reverse transcription polymerase chain reaction (RT-PCR)<sup>#</sup>, or positive detection of mumps virus using culture-based methods.<sup>1</sup></p>
<p><b>Additional Information:</b></p> <p>* Up to 30% of cases may be asymptomatic<sup>2,3</sup></p> <p>** There is potential for both false negative and false positive IgM results, therefore it is advised that serological testing of clinically suspected cases should be supplemented with either culture-based detection methods or PCR testing.<sup>4</sup> Mumps IgM testing should not be done in cases where an individual was vaccinated with a mumps-containing vaccine eight days to eight weeks prior to testing.<sup>5</sup></p> <p><sup>#</sup>Mumps virus is shed for 3-5 days after natural infection and after vaccination. A positive PCR for mumps virus in someone who was vaccinated within the past week is not indicative of mumps infection</p>		
<p><b>Sources:</b></p> <ol style="list-style-type: none"> <li><a href="https://ndc.services.cdc.gov/case-definitions/mumps-2012/">https://ndc.services.cdc.gov/case-definitions/mumps-2012/</a></li> <li><a href="https://www.cdc.gov/vaccines/pubs/surv-manual/chpt09-mumps.html">https://www.cdc.gov/vaccines/pubs/surv-manual/chpt09-mumps.html</a></li> <li><a href="https://www.canada.ca/en/public-health/services/immunization/vaccine-preventable-diseases/mumps/health-professionals/national-case-definition.html">https://www.canada.ca/en/public-health/services/immunization/vaccine-preventable-diseases/mumps/health-professionals/national-case-definition.html</a></li> <li><a href="https://www.mayocliniclabs.com/test-catalog/Overview/61854#Clinical-and-Interpretive">https://www.mayocliniclabs.com/test-catalog/Overview/61854#Clinical-and-Interpretive</a></li> <li><a href="https://www.health.gov.au/sites/default/files/documents/2022/06/mumps-surveillance-case-definition.pdf">https://www.health.gov.au/sites/default/files/documents/2022/06/mumps-surveillance-case-definition.pdf</a></li> </ol>		
<p><b>For more information</b></p> <p>Health care workers can call the 24-hour NICD Clinician Hotline for emergency medical advice and assistance: 0800 212 552.</p>		