

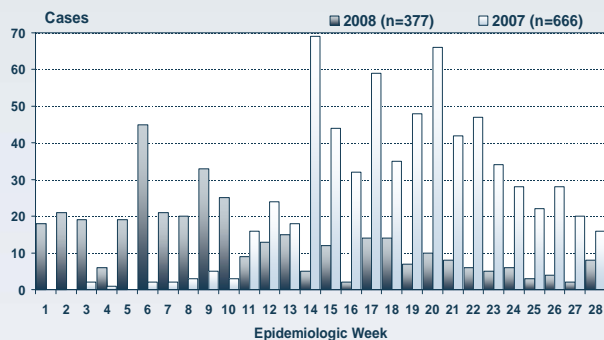
Mumps in Canada - 2008 Midyear Report (Dec 31, 2007-July 6, 2008)

In Canada, the reporting of notifiable diseases is mandated by provincial/territorial legislation and regulation. The list of reportable diseases varies slightly by province and territory. Reporting by the provinces and territories to the federal level is voluntary. Most jurisdictions rely on passive surveillance for the identification of cases. When an increase in the incidence of mumps is suspected in a particular area, enhanced surveillance of cases by collecting more detailed epidemiologic, clinical and laboratory information is encouraged. Detailed epidemiologic information helps identify susceptible groups and determine associations that permit targeted interventions.

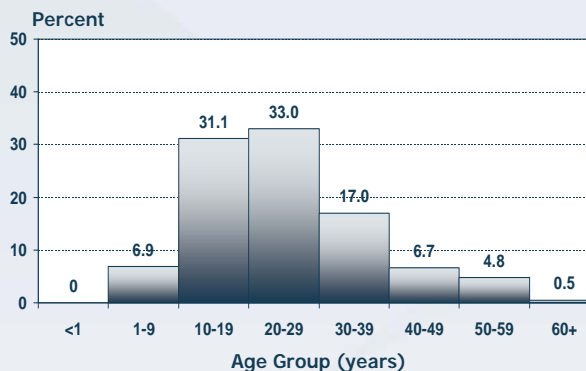
From 1996 to 2006, Canada experienced five mumps outbreaks, with the number of cases ranging from 13 to nearly 200. In 2007, 1,284 mumps cases were reported nationally. The vast majority (1,159, 90%) were associated with outbreaks in Nova Scotia, New Brunswick and Alberta. Over half (58%) of cases occurred in persons aged 20-29 years, many of whom were college or university students.

The Centre for Immunization and Respiratory Infectious Diseases (CIRID) initiated enhanced, national mumps surveillance during the outbreaks in 2007, which has continued into 2008.

Epidemiologic Curve
Onset in Weeks 01-28, 2007 and 2008



Age Distribution – Weeks 01-28, 2008



In the first half of 2008 there were 377 mumps cases compared with 666 for the same time period of 2007.

In the first half of 2008:

- 70.0% of reported cases were part of the ongoing outbreak in Alberta and another 19.4% from an ongoing outbreak in BC
- 52.3% of cases were male
- 33.0% of cases were aged 20-29 years
- Where immunization history was known (67.3% of cases), 39.0% were either unimmunized and 46.7% had received only one dose of mumps-containing vaccine
- 13 cases were hospitalized and complications were reported in 11.9% of cases (orchitis, oophoritis, hearing loss), however, data on hospitalizations and complications are incomplete

Immunization History

2008

Two* or more doses of mumps vaccine	9.5%
One dose of mumps vaccine	31.6%
Un-immunized	26.2%
Unknown	32.7%

*National Advisory Committee on Immunization has recommended two doses of mumps vaccine since August 2007

Reported Mumps Cases Weeks 01-28, 2008*

Alberta	264
British Columbia	73
Nova Scotia	30
Ontario	8
Quebec	2
Total	377

*Enhanced data reported to the Centre for Immunization and Respiratory Infectious Diseases as at 13 August 2008