

Mumps

There were 19 confirmed cases of mumps reported in BC in 2018 (0.38 cases per 100,000 population) and an additional 6 probable cases. This was a significant decline compared to the previous two years when 148 and 160 confirmed cases were reported in 2016 and 2017, respectively. Mumps remains endemic in BC, and cases were reported by each of the regional health authorities in 2018.

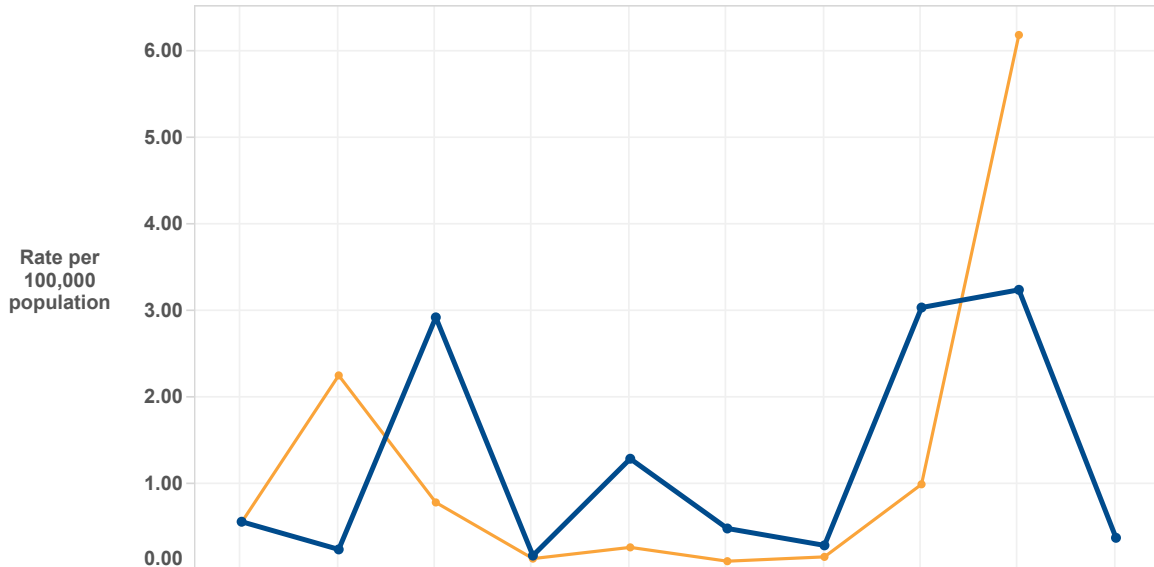
Sixty-eight percent of the 19 confirmed cases were male. The median age was 35 years (range 23-71). Thirteen cases (68%) were born in 1970 through 1994, a period of time when only one dose of mumps-containing vaccine was provided in the routine childhood immunization schedule. Only one case (5%) reported receipt of one documented dose of measles, mumps, and rubella (MMR) vaccine. Seven cases (34%) reported receiving MMR vaccine but were unable to provide documentation. Eleven cases (58%) reported

being unimmunized or had unknown immunization history of MMR vaccine receipt.

Fifteen cases were laboratory confirmed by PCR, and of these, 11 had genotype results provided by the National Microbiology Laboratory. Ten cases were genotype G, the predominant strain endemic in Canada. One case was genotype D, a strain not circulating in Canada at the time of the report. This individual had a travel history compatible with acquisition in Europe.

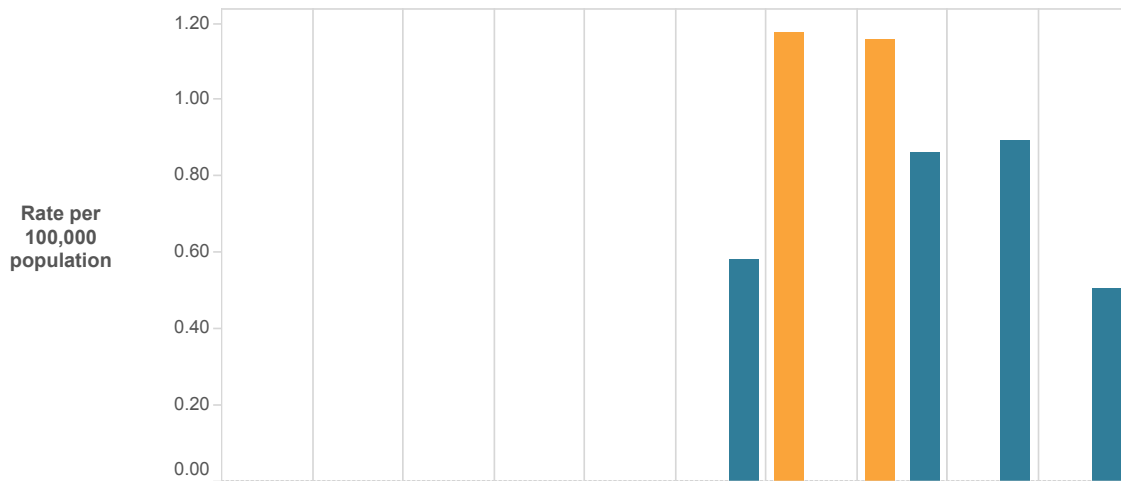


23.1 Mumps Rates by Year, 2009-2018



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Reports	25	11	132	8	60	23	14	148	160	19
BC Rate	0.57	0.25	2.93	0.18	1.30	0.49	0.29	3.05	3.25	0.38
Canada Rate	0.56	2.26	0.79	0.14	0.27	0.11	0.16	1.00	6.20	0.38

23.2 Mumps Rates by Age Group and Sex, 2018



		<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-59	60+
Reports	Female	0	0	0	0	0	0	2	4	0	0
	Male	0	0	0	0	0	1	0	3	6	3
	Total	0	0	0	0	0	1	2	7	6	3
BC Rate	Female	0.00	0.00	0.00	0.00	0.00	0.00	1.18	1.16	0.00	0.00
	Male	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.86	0.89	0.50
	Total	0.00	0.00	0.00	0.00	0.00	0.31	0.57	1.01	0.44	0.24