

Measles

A single importation of measles in mid-March led to 11 confirmed measles cases in BC in 2015; 8 were in Vancouver Coastal and 3 in Fraser. Ten were among BC residents (0.21 per 100,000 population) and 1 was a visitor to BC.

This outbreak was associated with a high school trip to China. Two returning students developed onset of illness compatible with acquisition at the same time while in China, and were infectious on their return flight from Beijing to Vancouver. Of the remaining cases, 7 were exposed while abroad or during the flight, 1 was exposed at Vancouver airport (YVR) upon flight arrival, and 1 was a household contact of a case.

Of the 10 cases among BC residents, 8 cases were 10 to 19 years old and 2 were aged 30 to 39. Five were male.

Three cases had documented receipt of 2 doses and one case had 1 dose of measles containing vaccine, two cases gave a verbal history of childhood vaccinations, one case had unknown measles vaccination status and three cases were unvaccinated against measles. Half of the cases visited emergency rooms; none were hospitalized. All recovered fully.

All 11 cases were PCR confirmed genotype H1, which

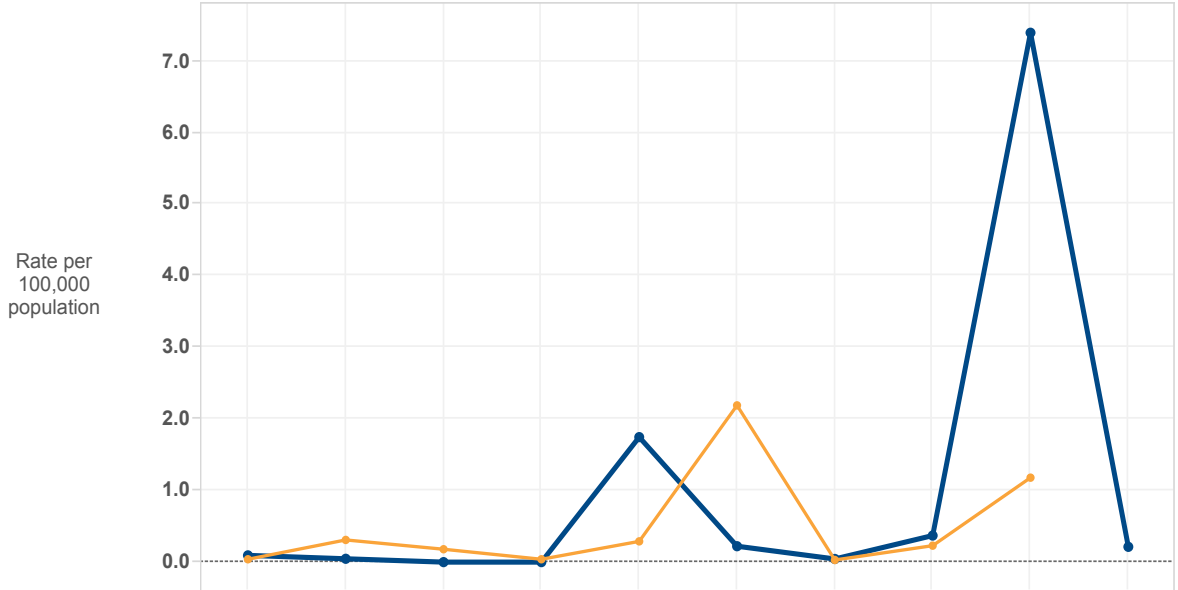
is endemic in China. The virus was the MVs/Hong Kong.CHN/49.12 reference sequence variant. Nine of 11 cases were identical to the reference sequence variant and the other 2 cases had a 1 nucleotide difference.

Global distribution of measles genotypes is available at http://www.who.int/immunization/monitoring_surveillance/burden/vpd/surveillance_type/active/measles_monthlydata/en/index1.html

Measles elimination status was achieved in Canada in 1998, however, importations and subsequent transmission arise periodically, largely driven by measles activity globally and travel patterns of British Columbians. BC guidelines recommend 2 doses of measles containing vaccine for health care workers born in 1957 and later and for other residents born in 1970 or later.

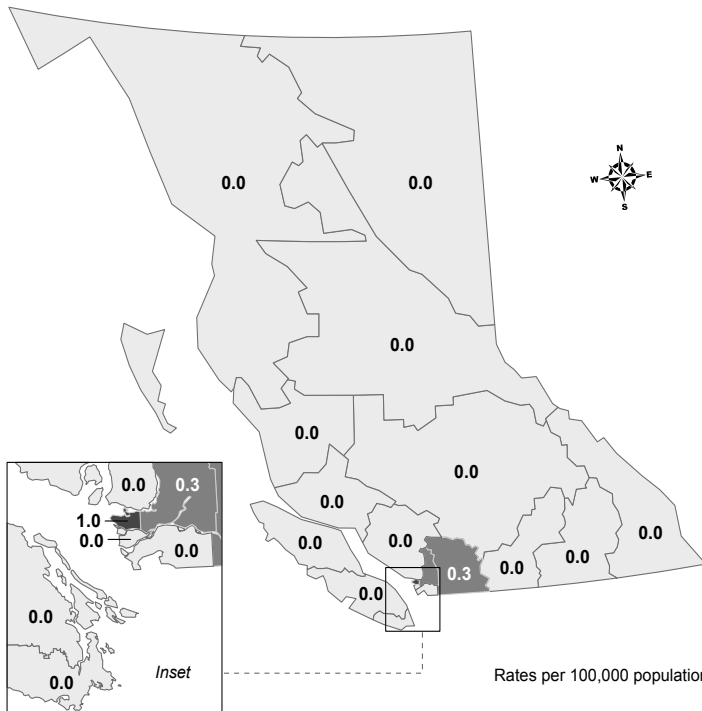


25.1 Measles Rates by Year, 2006-2015



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Reports	4	2	0	0	78	10	2	17	343	10
BC Rate	0.09	0.05	0.00	0.00	1.75	0.22	0.04	0.37	7.40	0.21
Canadian Rate	0.04	0.31	0.18	0.04	0.29	2.19	0.03	0.23	1.18	

25.2 Measles Rates by HSDA, 2015



ID	Health Service Delivery Area	Cases	Rate
11	East Kootenay	0	0.0
12	Kootenay Boundary	0	0.0
13	Okanagan	0	0.0
14	Thompson Cariboo Shuswap	0	0.0
21	Fraser East	1	0.3
22	Fraser North	2	0.3
23	Fraser South	0	0.0
31	Richmond	0	0.0
32	Vancouver	7	1.0
33	North Shore/Coast Garibaldi	0	0.0
41	South Vancouver Island	0	0.0
42	Central Vancouver Island	0	0.0
43	North Vancouver Island	0	0.0
51	Northwest	0	0.0
52	Northern Interior	0	0.0
53	Northeast	0	0.0