

Vibrio Infection

The incidence of *Vibrio* infections decreased in 2016 for the first time in a decade to 0.76/100,000. The decrease is attributable to *Vibrio parahaemolyticus* (Vp) which decreased from a high of 76 cases in 2015 to only 29 cases in 2016. Other *Vibrio* sp. rates remain low. Only 17.9% of cases were due to international travel. The reason for this decrease is unclear; it may be due to environmental changes (e.g. cooler ocean temperatures) or to improved awareness and industry practices following a large Vp outbreak in 2015.

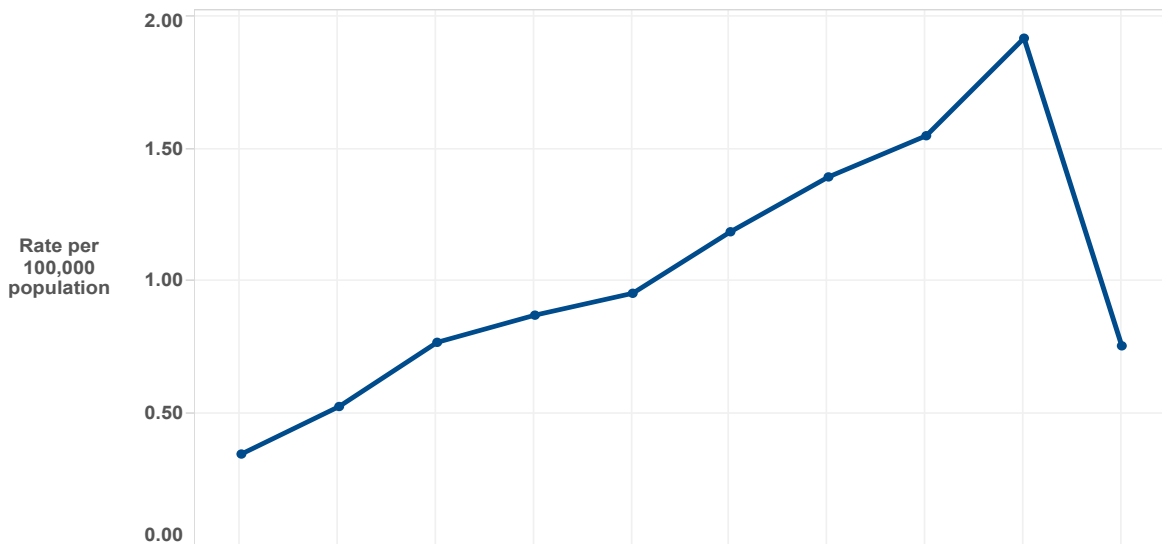
In 2016, the highest number of cases was reported from Vancouver (8) and the highest incidence rates, from East Kootenay and North Shore/Coast Garibaldi.

Unlike previous years, the number of cases and rates reported from Island Health were very low; reasons for this are unknown. The majority of cases occurred in adults, with the highest incidence in males aged >40 years, consistent with demographic groups more likely to eat raw oysters.

The majority of *V. parahaemolyticus* infections are caused by eating raw bivalve shellfish. Cases in children are rare and are often due to wound or ear infection following contact with ocean water.

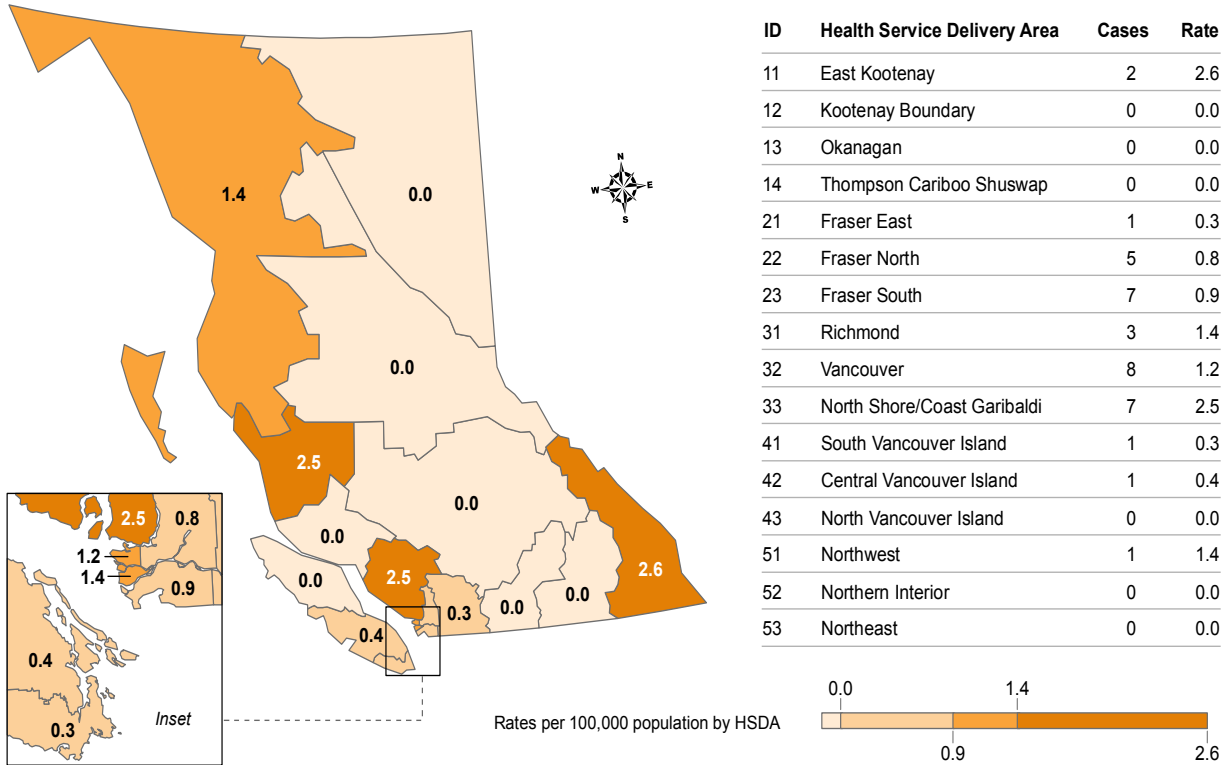


13.1 Vibrio Infection Rates by Year, 2007-2016

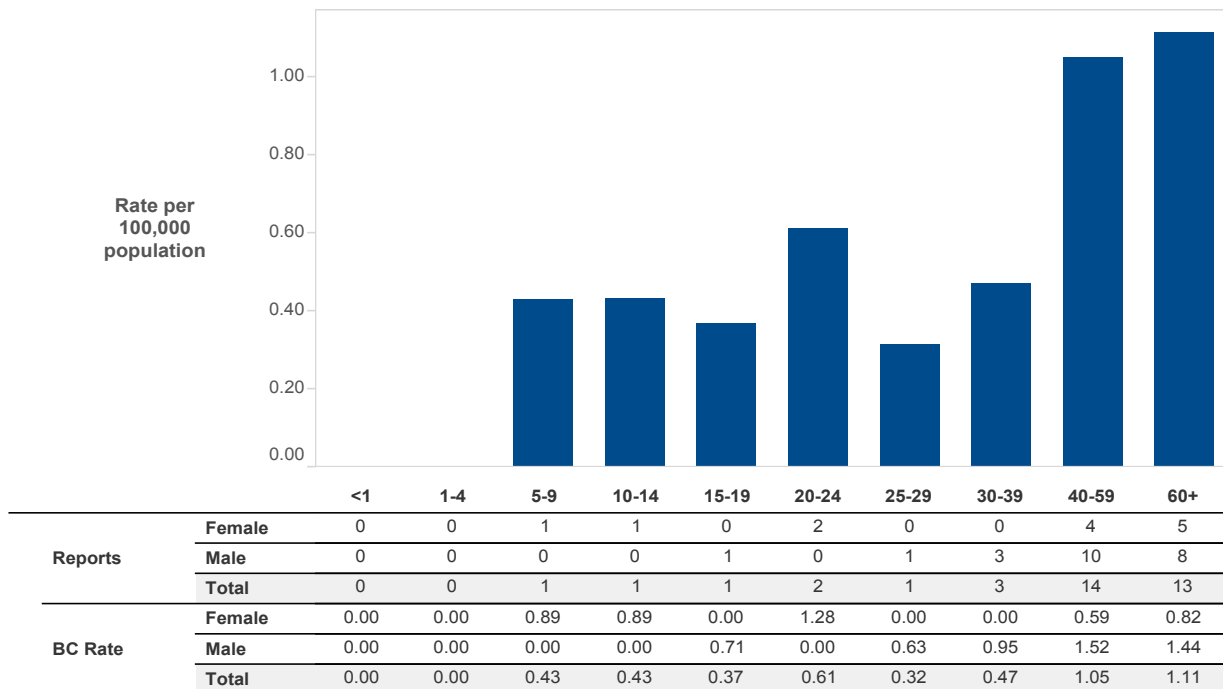


	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Reports	15	23	34	39	43	54	64	72	90	36
BC Rate	0.35	0.53	0.77	0.87	0.96	1.19	1.39	1.55	1.92	0.76

13.2 Vibrio Infection Rates by HSDA, 2016



13.3 Vibrio Infection Rates by Age Group, 2016



13.4 *Vibrio Species Distribution, 2016**

Rank	Species	Number of Cases	Proportion
1	<i>Parahaemolyticus</i>	29	80.6%
2	<i>Fluvialis</i>	4	11.1%
3	<i>Other/Unknown</i>	3	8.3%
	<i>Total</i>	36	100.0%

*Species distribution is based on Panorama data.

13.5 2016 *Vibrio* Infection by Week

