

## Vaccine Preventable Diseases and Invasive Group A Streptococcal Disease 2020 Quarter 1: January 1 – March 31, 2020

The quarter 1 vaccine preventable diseases and invasive group A streptococcal disease report is abbreviated due to the COVID-19 response

### Summary Table of Select Reportable Diseases

\* The quarterly incidence count was extrapolated to an annual incidence rate for each disease (cases per 100,000 population per year), without adjusting for seasonality observed in historical years.

Disease		Quarter 1 (January 1-March 31, 2020)					
		FHA	IHA	NHA	VCHA	VIHA	BC
<i>Haemophilus influenzae</i> , type b	Count	-	1	-	-	-	1
	Incidence*	-	0.5	-	-	-	0.1
<i>Haemophilus influenzae</i> , type e	Count	-	-	-	-	1	1
	Incidence*	-	-	-	-	0.5	0.1
<i>Haemophilus influenzae</i> , type f	Count	1	1	-	-	1	3
	Incidence*	0.2	0.5	-	-	0.5	0.2
<i>Haemophilus influenzae</i> , non-typeable	Count	8	1	-	2	3	14
	Incidence*	1.7	0.5	-	0.6	1.4	1.1
Invasive group A streptococcal disease	Count	23	11	10	37	11	92
	Incidence*	4.8	5.5	13.3	11.9	5.2	7.2
Invasive pneumococcal disease	Count	33	23	11	42	38	147
	Incidence*	6.9	11.5	14.7	13.5	17.9	11.5
Invasive meningococcal disease	Count	2	-	-	2	3	7
	Incidence*	0.4	-	-	0.6	1.4	0.5
Mumps	Count	2	8	-	6	-	16
	Incidence*	0.4	4.0	-	1.9	-	1.3
Pertussis	Count	21	21	3	53	13	111
	Incidence*	4.4	10.5	4.0	17.1	6.1	8.7
Rubella	Count	-	-	-	-	-	-
	Incidence*	-	-	-	-	-	-

### Notes

No cases were reported for the following diseases: acute diphtheria, diphtheria carrier, measles, poliomyelitis, rubella, tetanus and *Haemophilus influenzae* types a, c and d. Influenza surveillance data are provided in the British Columbia [Influenza Surveillance Reports](#). Data sources for Fraser Health Authority differed from other health authorities for some diseases (see [Data Notes](#)).

## Data Notes

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Data for invasive meningococcal disease, invasive group A streptococcal disease (with the exception of Fraser Health Authority), measles, mumps, and rubella are sourced from reporting by BC health authorities using forms specifically designed for each disease, and reconciliation with laboratory data.

Data for all other diseases are sourced from the health authorities' investigation reports in the provincial public health information system (Panorama), with the exception of Fraser Health Authority (FHA), whose data were not available in Panorama at the time of this report. Pertussis and invasive group A streptococcal disease case counts for FHA were obtained from down-time file transfer reports provided by FHA to BCCDC. Diphtheria, *Haemophilus influenzae*, invasive pneumococcal disease, and tetanus case counts for FHA were obtained from laboratory information system data in the Public Health Reporting Data Warehouse.

Unless otherwise specified, only cases meeting the confirmed case definition were included in this report.

Case definitions are available at:

<http://www.bccdc.ca/health-professionals/clinical-resources/case-definitions>.

Population numbers used in incidence rate calculations were from the BC Stats P.E.O.P.L.E. (Population Extrapolation for Organizational Planning with Less Error) Projection (updated April 2020).

Cases were assigned to a year and quarter based on dates available in each data source. For the diseases reported using case report forms, disease-specific algorithms were used to identify the best approximation of the onset date from the various dates reported (e.g., symptom onset dates, specimen collection date, hospitalization date, date reported to public health). For data sourced from Panorama or health authority files, the date the case was reported to public health was used. When laboratory information system data were used, the earliest available laboratory date associated with the investigation was used (e.g., collection date, result date).

Numbers in this report were generated April 20-21, 2020 and are subject to change due to late reporting and/or data updates.

## Additional BCCDC Reports

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### Influenza Surveillance Reports:

<http://www.bccdc.ca/health-professionals/data-reports/communicable-diseases/influenza-surveillance-reports>

### Vaccine Preventable Diseases and Invasive Group A Streptococcal Disease Reports:

<http://www.bccdc.ca/health-professionals/data-reports/communicable-diseases>

### Measles and Mumps Epidemiological Summaries:

<http://www.bccdc.ca/health-professionals/data-reports/communicable-diseases> see Vaccine Preventable Diseases

### BC Reportable Diseases Data Dashboard:

<http://www.bccdc.ca/health-professionals/data-reports/reportable-diseases-data-dashboard>

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