British Columbia COVID-19 Situation Report, June 25, 2020*

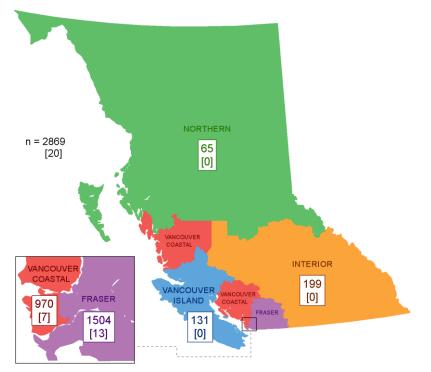
Produced twice weekly (Mondays and Thursdays) effective June 11, 2020

Key Findings

COVID-19 risk in BC is currently very low.

- New reported cases, hospital admissions and deaths have all increased recently but remain low (Table 1, Fig 3, Fig 5).
- Most recent cases continue to be reported from FHA and VCH; cumulative incidence in these two health authorities is approximately the same (Table 1).
- The proportion of people who test positive remains low (Fig 6).
- The number of reported cases among children remains low; few required hospitalization and none have died (Table 3, Fig 7).
- The highest proportion of hospitalized cases is observed in the 70-79 year age group, while mortality is greatest in the 80+ year age group (Table 3).
- No new outbreaks were declared since the last report (Fig 9, Table 4).
- The number of cases in hospital and in critical care continues to remain low (Fig 10, Fig 11).
- The BC outbreak trajectory remains favourable compared to other provinces and countries (Fig 12, Fig 13).

Figure 1: Map of total and new COVID-19 cases reported since yesterday by health authority, BC, January 1 – June 25, 2020 (**N=2,869**)[^]



^New cases reported since yesterday by health authority are denoted in parentheses.

*Findings are based on lab-confirmed, lab-probable, and epi-linked cases (case definition found here: <u>http://www.bccdc.ca/health-professionals/clinical-resources/case-definitions/covid-19-(novel-corona virus</u>) reported from Health Authorities to BCCDC as of 10am, except where otherwise noted. Data represent a subset of actual infections and are subject to change with changes in testing recommendations and practices, changes in case definitions, data reconciliation and/or as data become more complete.

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Table 1: Epidemiological profile of reported cases by health authority, BC, January 1 – June 25, 2020 (N=2,869)						
	Fraser	Interior	Vancouver Island	Northern	Vancouver Coastal	Total N (%) ^e
Total number of cases ^{a,b}	1,504	199	131	65	970	2,869
New cases since yesterday ^c	13	0	0	0	7	20
Number of lab-confirmed and lab-probable cases	1,502	199	128	65	968	2,862
Number of epi-linked probable cases ^{b,d}	2	0	3	0	2	7
Median age in years, cases [†]	49	48	50	44	55	51 years (range 0-103y)
Female sex, cases	747	92	70	38	527	1,474 (51%)
Cumulative incidence per 100,000 population ^g	78.4	24.8	15.4	21.7	78.2	56.1
Ever hospitalized ^h	273	30	25	14	179	521 (18%)
Median age in years, ever hospitalized ^f	69	62	72	44	69	69 years (range 0-98y)
Currently hospitalized ^h	9	0	0	0	6	15
Currently in critical care	2	0	0	0	5	7
Total number of deaths ^h	76	2	5	0	90	173 (6%)
New deaths since yesterday ^c	1	0	0	0	1	2
Median age in years, deaths ^f	83	73	85	NA	87	85 years (range 47- 103y)
Discontinued isolation ^j	1,329	196	125	65	802	2,517 (88%)

 Table 1: Epidemiological profile of reported cases by health authority, BC, January 1 – June 25, 2020 (N=2,869)

a. Total COVID-19 cases includes lab-confirmed, lab-probable and epi-linked cases. Case definitions can be found at: <u>http://www.bccdc.ca/health-professionals/clinical-resources/case-definitions/covid-19-(novel-coronavirus)</u>.

b. Epi-linked cases reported on or after May 19, 2020 are included.

c. "New" cases and deaths reflect the difference in counts reported to the BCCDC between one day and the next as of 10am. This may not be equal to the number of cases/deaths by date reported to HAs, as: (1) cases/deaths reported prior to 10am would be included as new cases/deaths in the current day's count and cases reported after 10am would be included in the next day's count; and (2) there may be some delays between cases/deaths being reported to HAs and then reported to BCCDC.

- d. Epi-linked case counts may decrease if cases are tested and meet a different case classification.
- e. Denominator for % derivation is total number of cases (N), except sex which is calculated based on those with known information on sex.
- f. Median age is calculated based on those with known information on age.
- g. PEOPLE2019-2020 population estimates.
- h. Serious outcome (e.g. hospitalization, death) tallies may be incomplete or out of date (i.e. under-estimates) owing to the timing and processes for case status update.
- i. Source: PHSA June 25 @10am. The number of COVID cases in critical care units is reported daily by each Health Authority and includes the number of COVID patients in all critical care beds (e.g., intensive care units; high acuity units; and other surge critical care spaces as they become available and/or required). Work is ongoing to improve the completeness and accuracy of the data reported.
- j. Self-isolation has been discontinued per the criteria outlined in the BC guidelines for public health management of COVID-19: (1) resolution of fever without use of fever-reducing medications; AND (2) improvement of symptoms (respiratory, gastrointestinal and systemic); AND (3) either two negative nasopharyngeal swabs collected at least 24 hours apart, or at least 10 days have passed since onset of symptoms. These are the same criteria that had been used in previous reports for "recovered" cases.

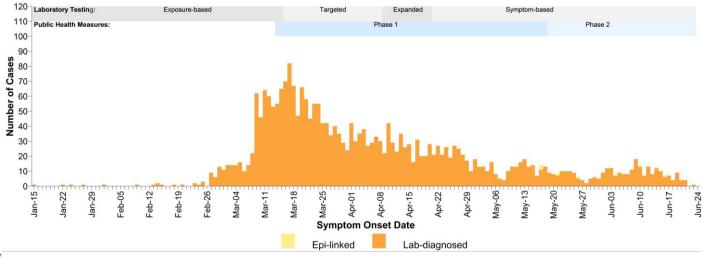
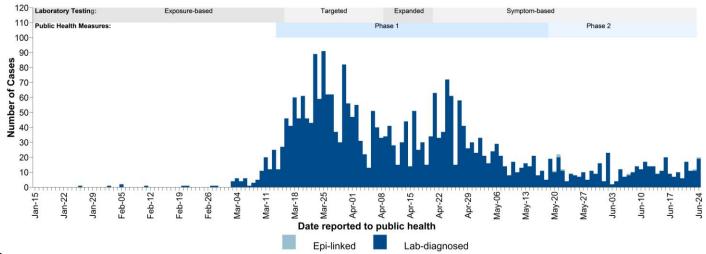


Figure 2: Epidemic curve, COVID-19 cases in BC by symptom onset date January 15 – June 24, 2020 (N=2,658[†])

[•]Only cases with symptom onset dates reported are included.





⁺ The number of cases reported by day differs from that in Table 1 in previous reports as this figure reflects the date the case was lab-confirmed and reported to the Health Authority.

^{*} On June 3, a change in the FHA reporting system led to changes in the reported date of some FHA cases and concurrent changes to the epidemic curve by reported date.

Phase 1 – Public health measures enacted: March 14: Spring break started for most schools; March 16: Mass gatherings public health order implemented (>50 people), entry of foreign nationals banned, symptomatic individuals banned from flights to Canada, international flights restricted to four national airports; March 17: BC public health emergency declared, traveller self-isolation public health order implemented; March 18: Provincial state of emergency declared, food and drink service restrictions public health order implemented; March 20: US/Canada border closed to non-essential travel; March 21: closure of personal service establishments.

Phase 2 – Start of reopening: May 19: Restoration of health services, retail, hair salons, in-person counselling, restaurants, cafes, pubs, museums, libraries, officebased worksites, sports, outdoor spaces, and child care.

Please refer to http://www.bccdc.ca/health-info/diseases-conditions/covid-19/testing/phases-of-covid-19-testing-in-bc_ for laboratory testing criteria changes.

How to interpret the epidemic curves: Figure 2 shows the date that a case's illness started. Figure 3 shows the date the illness was confirmed and reported by the laboratory. There is a delay between the beginning of a person's illness (symptom onset date) and the date the laboratory confirms and reports the illness (reported date). New cases only have a reported date available and appear on the right of the curve in Figure 3, but their symptom onset would have occurred prior. As information on symptom onset becomes available through public health investigation, cases are expected to appear on earlier dates in Figure 2.

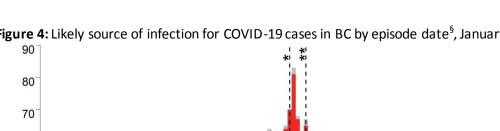
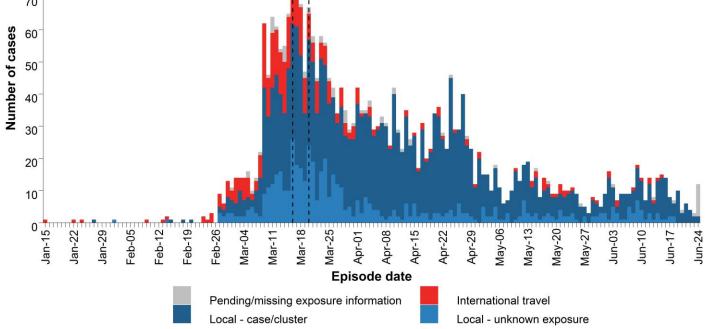


Figure 4: Likely source of infection for COVID-19 cases in BC by episode date[§], January 15 – June 24, 2020 (N=2,866)

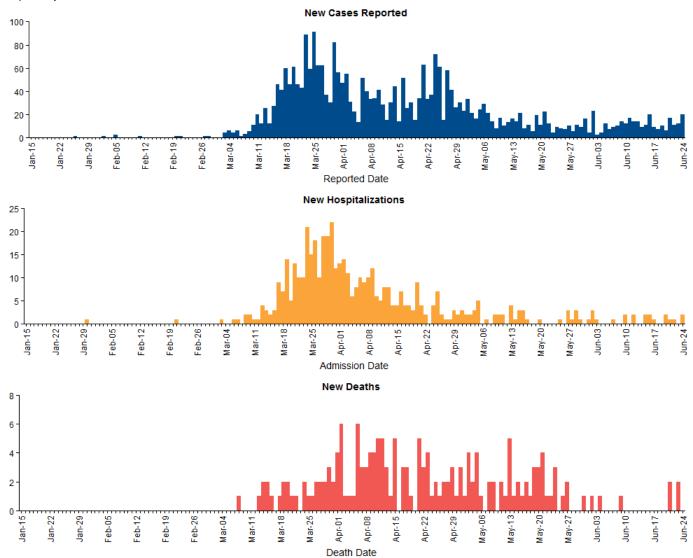


§ Episode date is based on symptom onset date (n=2,658), if not available then date COVID-19 was reported to health authority (n=208). * March 16: Entry of foreign nationals banned; symptomatic individuals banned from flights to Canada; international flights restricted to four national airports. ** March 20: US/Canada border closed to non-essential travel.

Table 2: Number and proportion of likely source of infection for COVID-19 cases in BC, January 15 – June 24	, 2020
(N=2,866)	

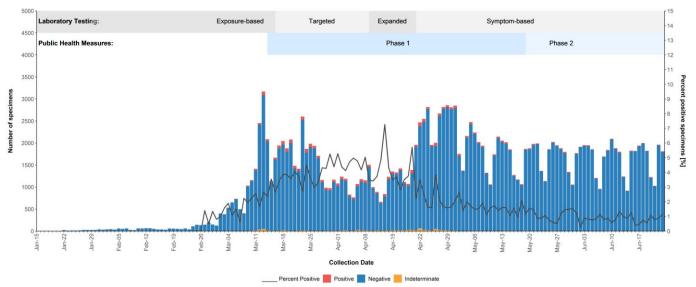
International travel	Local – case/cluster	Local – unknown source	Pending/missing info
n (%)	n (%)	n (%)	n (%)
350 (12)	1,892 (66)	546 (19)	78 (3)

Figure 5. Number of COVID-19 cases, hospital admissions, and deaths by event date, BC, January 15 – June 24, 2020 (**N=2,866***)



* On June 3, a change in the FHA reporting system led to changes in the reported date of some FHA cases and concurrent changes to the epidemic curve by reported date. New hospitalizations only include hospitalized cases with valid admission dates.

Figure 6: Number and proportion of SARS-CoV-2 positive respiratory specimens, BC, Jan 15– June 23, 2020 (N=185,449; Positive=2.1%)



Data source: PLOVER extract on June 25 2020. Methods and caveats: SARS-CoV-2 specimens are tallied at the specimen level by date the specimen was collected. The proportion positive on a given date may include new positive cases and retested positive cases; this may over-estimate proportionate positivity. Similarly, individuals may be tested repeatedly after becoming negative; this may under-estimate proportionate positivity. Refer to http://www.bccdc.ca/health-info/diseases-conditions/covid-19/testing/phases-of-covid-19-testing-in-bc for description of laboratory testing phases. Refer to footnotes on http://www.bccdc.ca/health-info/diseases-conditions/covid-19/testing/phases-of-covid-19-testing-in-bc for description of laboratory testing phases. Refer to footnotes on <a href="http://www.bccdc.ca/health-info/diseases-conditions/covid-19/testing-info/diseases-covid

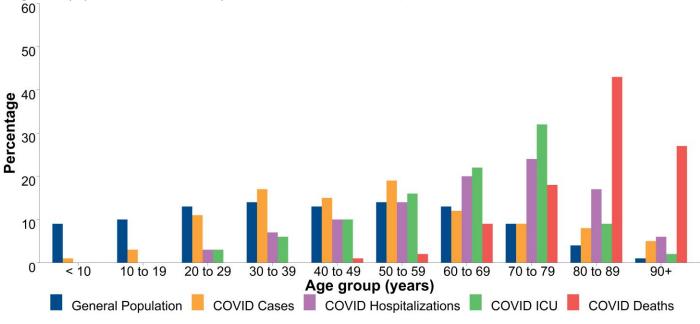


Figure 7: Percentage distribution of COVID-19 cases, hospitalization, ICU admissions and deaths by age, compared to the general population^{\dagger} of BC, January 1 – June 25, 2020 (**N=2,863***)

*Only cases with age information available are included.

+ PEOPLE2019-2020 population estimates

Note: COVID hospitalizations have been reported in the <10y and 10-19y age groups but represent <1% of hospitalizations and are therefore not visible.

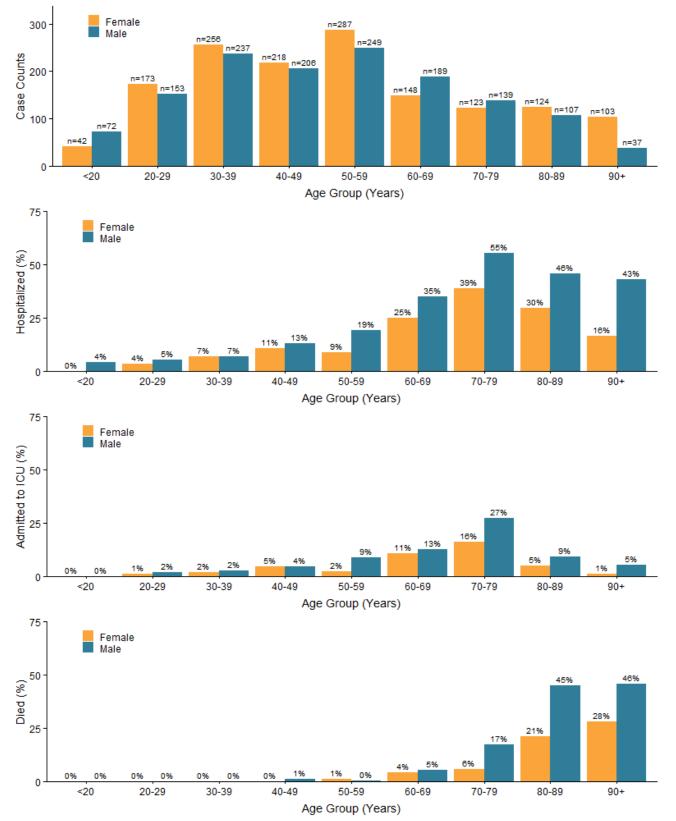
Table 3: Number and percentage distribution of COVID-19 cases, hospitalization, ICU admissions and deaths by age,compared to the general population of BC, January 1 – June 25, 2020 (N=2,863*)

Age groups	COVID cases n (%)	Cases ever hospitalized n (%)	Cases ever in ICU n (%)	COVID deaths n (%)	General population+ n (%)
<10 Years	42 (1)	2 (<1)	0 (0)	0 (0)	468,280 (9)
10-19 Years	72 (3)	1 (<1)	0 (0)	0 (0)	507,197 (10)
20-29 Years	326 (11)	14 (3)	5 (3)	0 (0)	684,681 (13)
30-39 Years	493 (17)	34 (7)	11 (6)	0 (0)	730,523 (14)
40-49 Years	424 (15)	50 (10)	19 (10)	2 (1)	647,790 (13)
50-59 Years	536 (19)	73 (14)	29 (16)	4 (2)	721,355 (14)
60-69 Years	337 (12)	103 (20)	40 (22)	16 (9)	675,632 (13)
70-79 Years	262 (9)	125 (24)	58 (32)	31 (18)	436,179 (9)
80-89 Years	231 (8)	86 (17)	16 (9)	74 (43)	188,010 (4)
90+ Years	140 (5)	33 (6)	3 (2)	46 (27)	50,876 (1)
Total	2,863	521	181	173	5,110,523

* Only cases with age information available are included.

+ PEOPLE2019-2020 population estimates

Figure 8: Counts of COVID-19 cases and proportions ever hospitalized, ever admitted to ICU, and with outcome of death by gender and age group, BC, January 1 – June 25, 2020 (N=2,863*)



* Includes cases with gender and age information available.

Note: Proportions calculated using the total number of cases in each gender and age group (displayed in top figure) as the denominator.

BC Centre for Disease Control

Provincial Health Services Authority

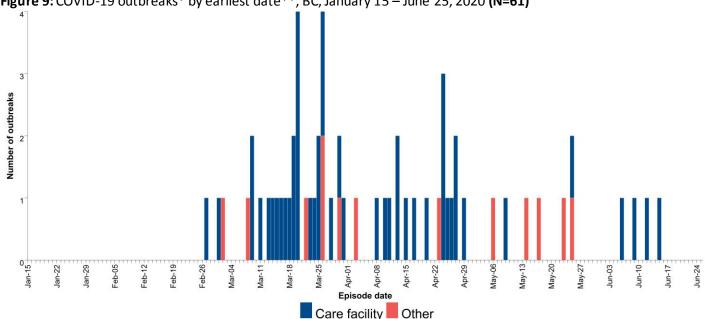


Figure 9: COVID-19 outbreaks* by earliest date**, BC, January 15 – June 25, 2020 (N=61)

* Care facility (acute/long term care/independent living) outbreaks have at least one lab-confirmed COVID-19 staff or resident. Other outbreaks have two or more lab-confirmed COVID-19 cases diagnosed within a 14-day period in closed or common settings (e.g. penitentiary, shared living or work setting). ** Based on the earliest date available for the first case in the outbreak (symptom onset date or, if not available, reported date). Earliest dates are subject to change as data are updated.

Table 4: Outbreak and case counts of reported COVID-19 reported outbreaks'	PC lanuar	15 - 1000 25	2020 /	1-61)
Table 4. Outbreak and case counts of reported COVID-19 reported outbreaks	, BC, Januar	y is — June zs	, ZUZU (F	N=DT)

	Care facility	Other settings	Total
·	Outbreaks		
Totaloutbreaks	48	13	61
New since last report on June 22	0	0	0
Active outbreaks	7	2	9
Outbreaks declared over	41	11	52
	Outbreak cas	es	
Total cases	608	394	1,002
Residents/patients	379	122	501
Staff/other	229	272	501
Total deaths	121	2	123
Residents/patients	121	1	122
Staff/other	0	1	1

* Care facility (acute/long term care/independent living) outbreaks have at least one lab-confirmed COVID-19 staff or resident. Other outbreaks have two or more lab-confirmed COVID-19 cases diagnosed within a 14-day period in closed or common settings (e.g. penitentiary, shared living or work setting).

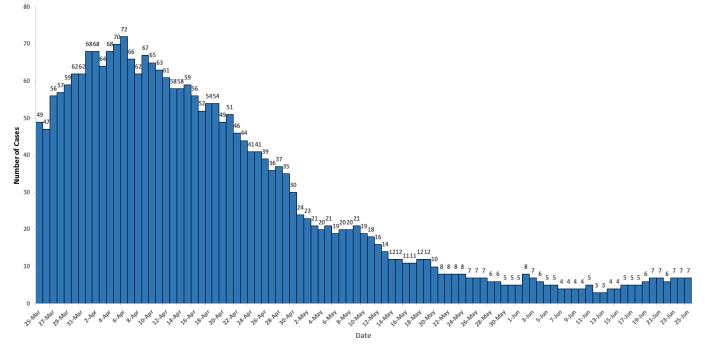
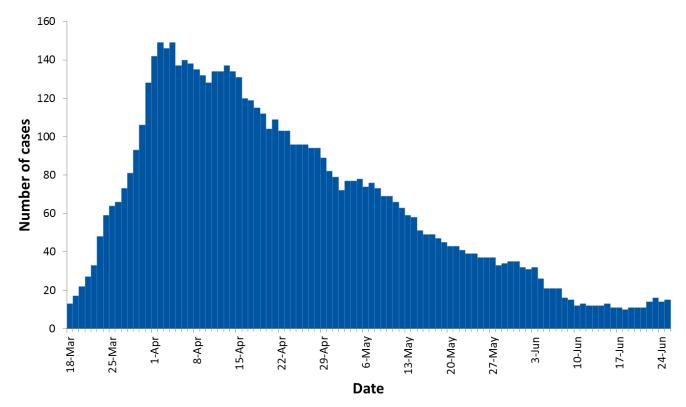


Figure 10: Total positive COVID-19 cases in critical care by day, BC, March 25 - June 25, 2020

Data source: PHSA June 25. Note: critical care data may change over time due to small adjustments and improvements in data quality.





Data available starting March 18. For dates with no data available (April 12; Sundays from May 10 onwards; and Saturdays from June 7 onwards), the previous day's value was used. Hospitalization data may be incomplete or out of date (i.e., under-estimates) owing to the timing and process for case status update.

International and National Epidemiological Comparisons

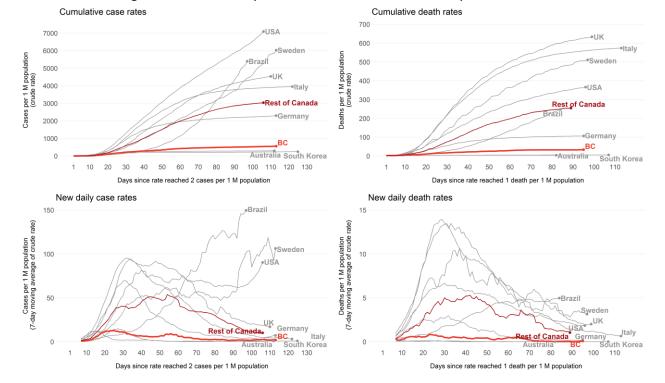
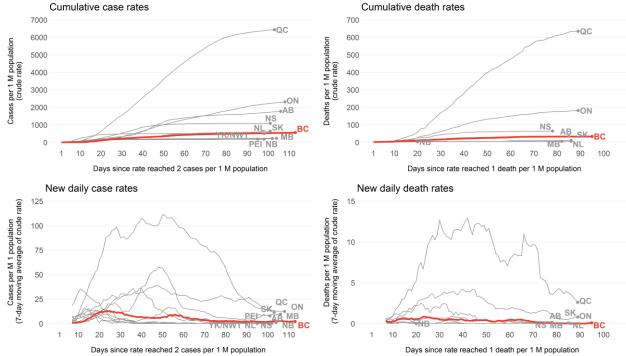


Figure 12: Cumulative diagnosed and new daily COVID-19 case and death rates by select countries vs BC and Canada

Figure 13: Cumulative diagnosed and new daily COVID-19 case and death rates in Canada



Data sources for international and national epidemiological comparison (all extracted June 24, 2020): JHU CSSE for global cases and deaths, and Canadian provincial deaths outside of BC s: https://github.com/CSSEGISandData/COVID-19 JHU CSSE for For Canadian provincial cases: Provincial data sources BC cases and deaths: BCCDC

Global population denominator from the United Nations Version: June 25, 2020 $% \left(\frac{1}{2}\right) =0$