

COVID-19 IN BC

COVID-19 Update: June Modelling

June 10, 2021



Stay Informed Via These Resources:

gov.bc.ca/Covid-19 | bccdc.ca | 1-888-COVID19

Symptom Self-Assessment:

covid19.thrive.health

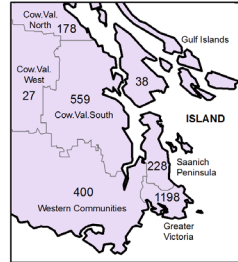


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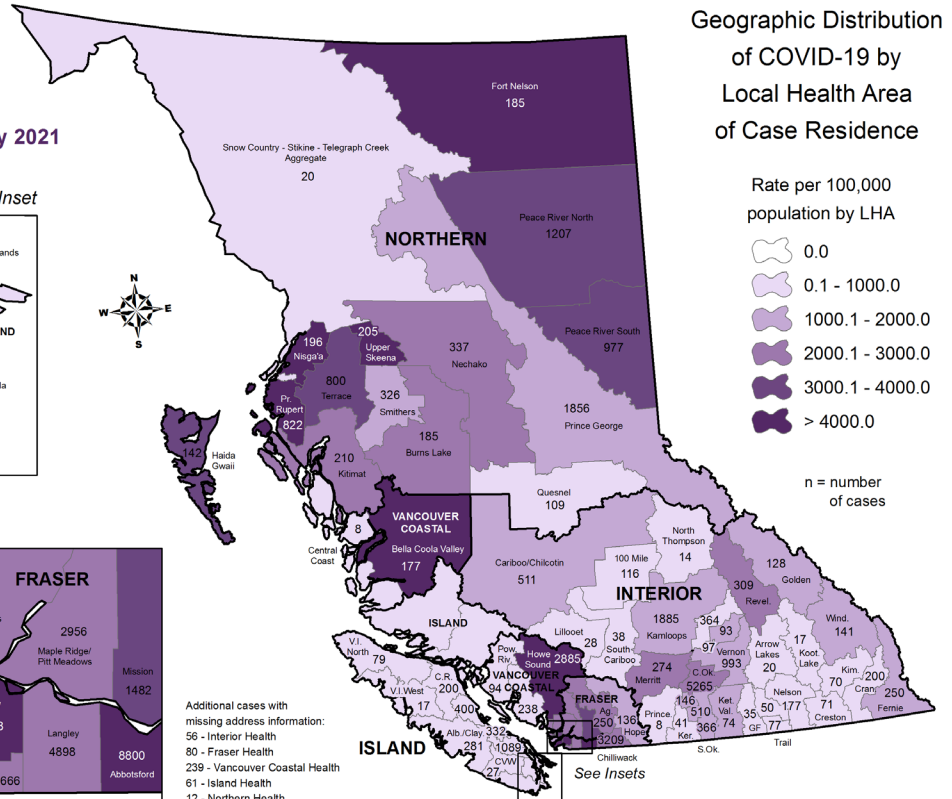
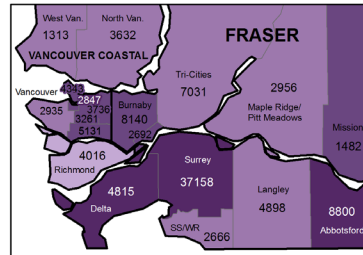
Geographic Distribution of COVID-19 by Local Health Area of Case Residence Jan 2020-May 2021

Cumulative Cases
January 2020 to May 2021

South Vancouver Island Inset



Greater Vancouver Inset

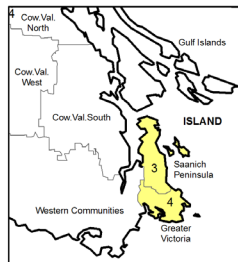


Notes: Cases are mapped by location of residence; cases with unknown residence and from out of province are not mapped. Data source: Public Health Reporting Data Warehouse (PHRDW) integrated COVID dataset; we operate in a live database environment and case information from the health authorities are updated as it becomes available. How to interpret the maps: The map illustrates the geographic distribution of reported cases from January 1, 2020 to May 31, 2021. Local Health Areas (LHA) with higher rates are illustrated in darker colour shading. The number of reported cases appears in each LHA. Note that the number of cases in the LHA may not represent the location of exposure (e.g. people who acquired disease while traveling or working elsewhere), and that not all COVID-19 infected individuals are tested and reported; the virus may be circulating undetected in the community, including in areas where no cases have been identified by public health. Map created June 7, 2021 by BCCDC for public release.

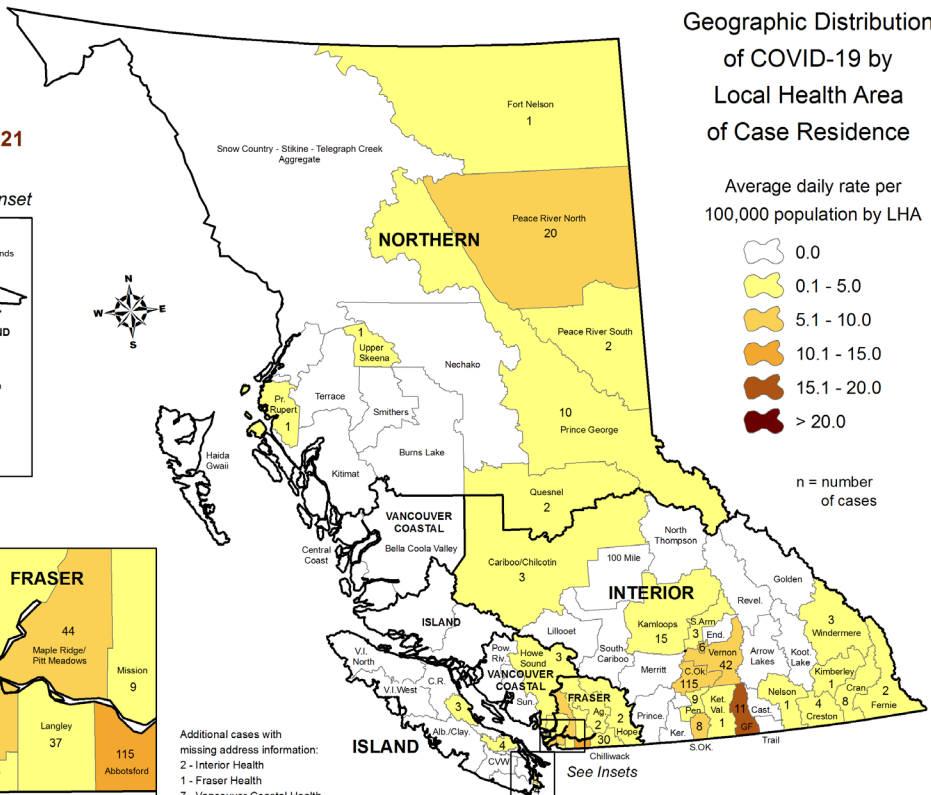
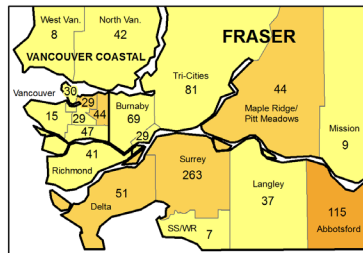
Geographic Distribution of COVID-19 by Local Health Area of Case Residence in past 7 days

Epi-Week 22 Cases
May 30 to June 5, 2021

South Vancouver Island Inset



Greater Vancouver Inset



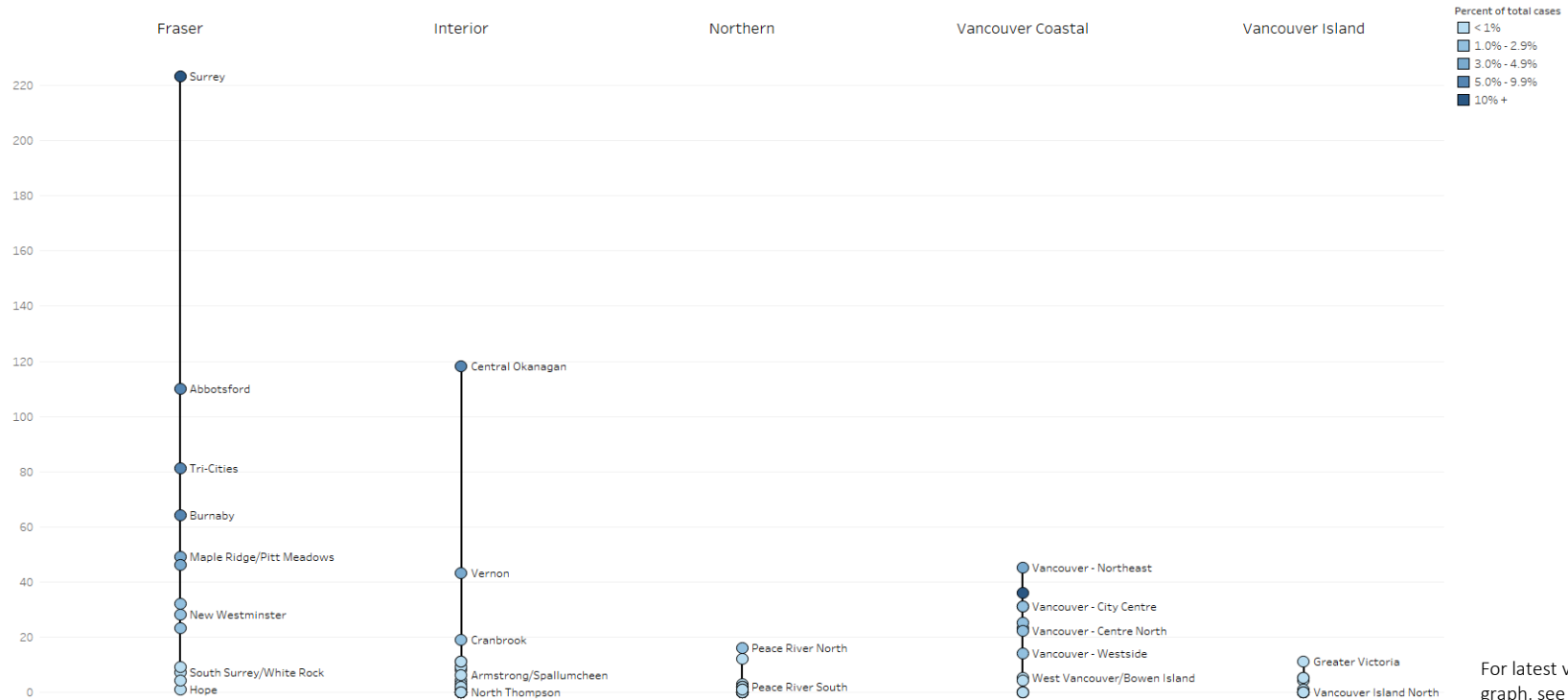
Additional cases with missing address information:
2 - Interior Health
1 - Fraser Health
7 - Vancouver Coastal Health

Notes: Cases are mapped by location of residence; cases with unknown residence and from out of province are not mapped. Data source: Public Health Reporting Data Warehouse (PHRDW) integrated COVID dataset; we operate in a live database environment and case information from the health authorities are updated as it becomes available. How to interpret the maps: The map illustrates the geographic distribution of reported cases for the most recent epidemiological week (from Sunday to Saturday). Local Health Areas (LHA) with higher rates are illustrated in darker colour shading. The number of reported cases appears in each LHA. Note that the number of cases in the LHA may not represent the location of exposure (e.g. people who acquired disease while traveling or working elsewhere), and that not all COVID-19 infected individuals are tested and reported; the virus may be circulating undetected in the community, including in areas where no cases have been identified by public health. Map created June 9, 2021 by BCDCD for public release.

For latest version of this map, see [COVID-19 Data page](#) as well as [COVID-19 Surveillance Dashboard](#)

Total case counts by local health area June 01-June 7, 2021

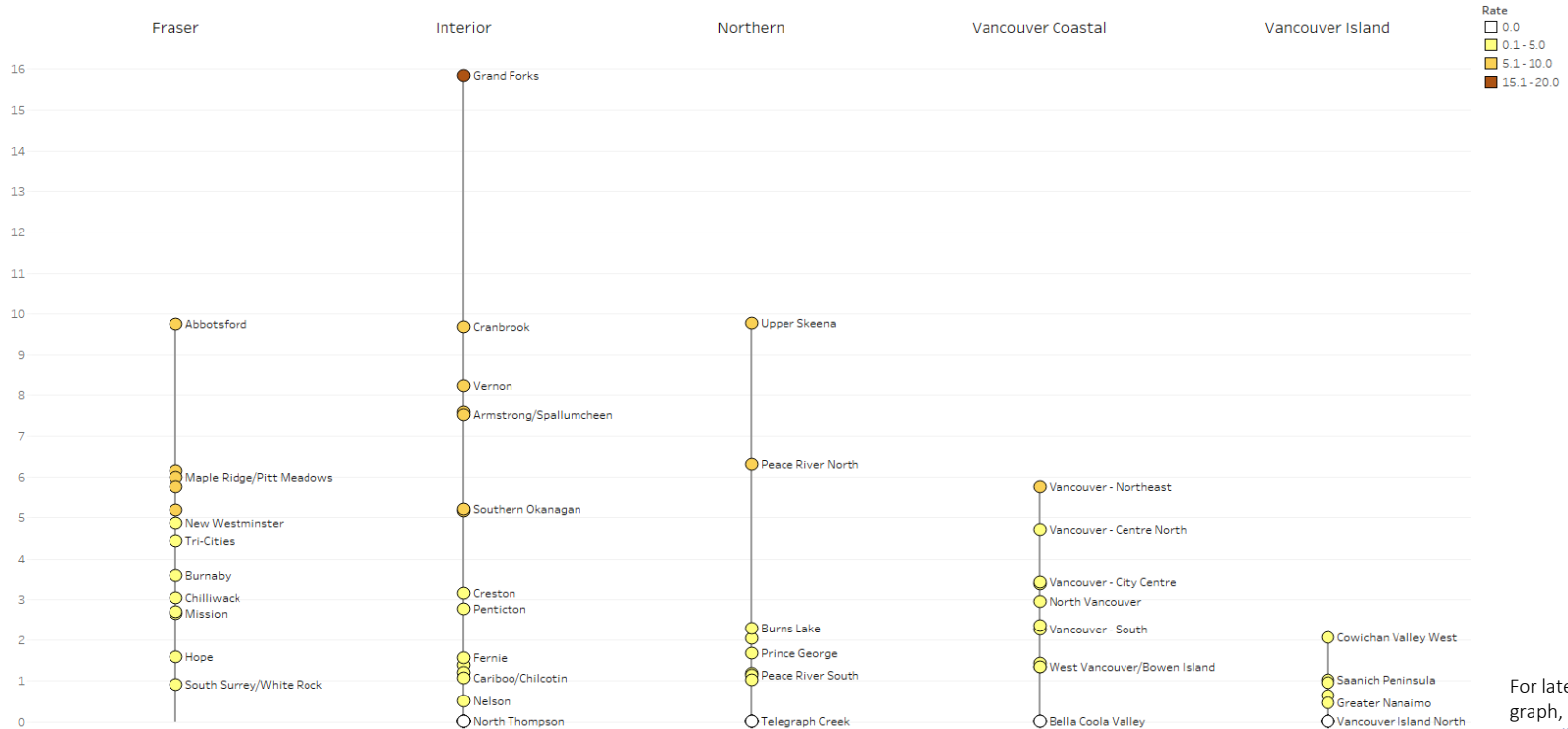
Total cases by local health area, Jun 01 - Jun 07, 2021



For latest version of this graph, see [COVID-19 Surveillance Dashboard](#)

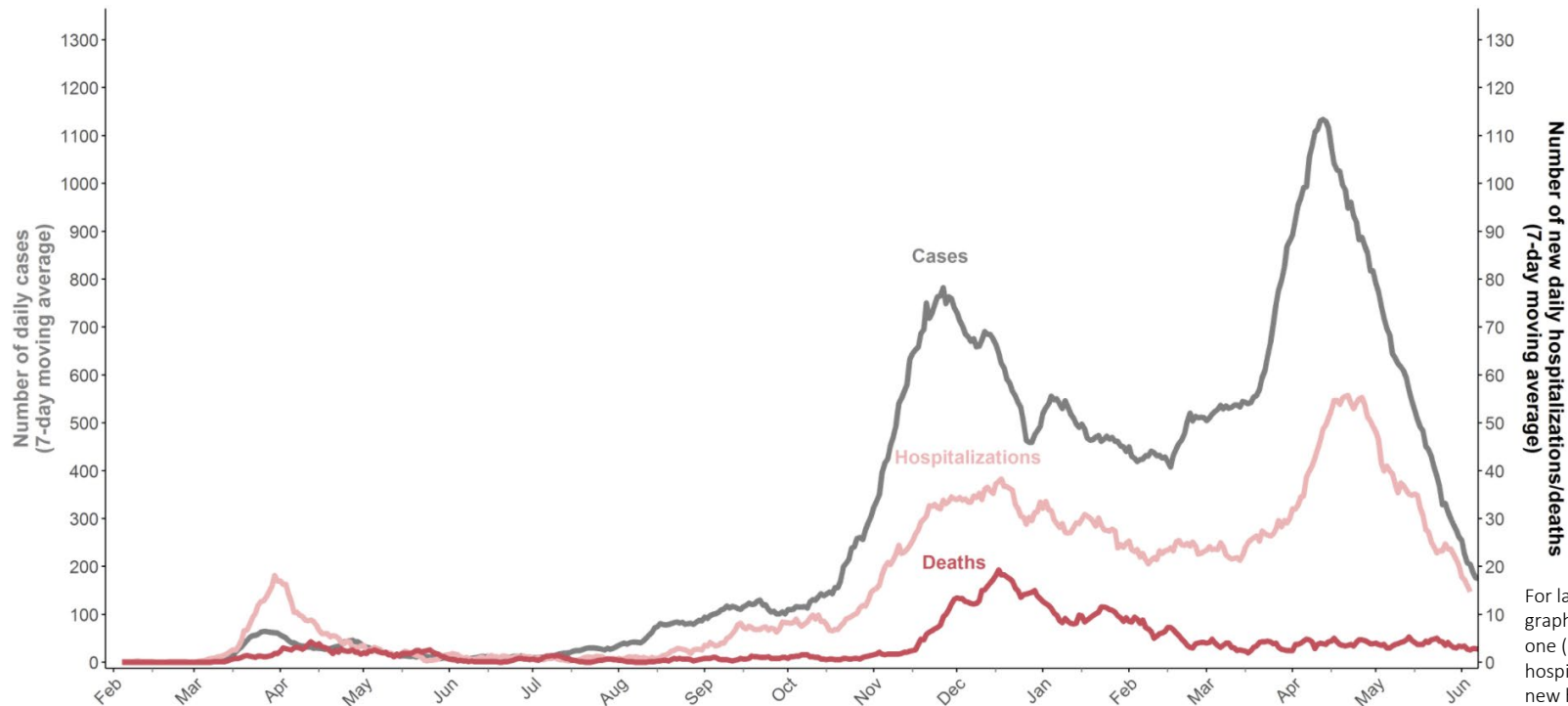
Average daily **rate** of new cases per 100,000 population by local health area June 1-7, 2021

Average daily **rate** of new cases per 100,000 population, by local health area, Jun 01 - Jun 07, 2021



For latest version of this graph, see [COVID-19 Surveillance Dashboard](#)

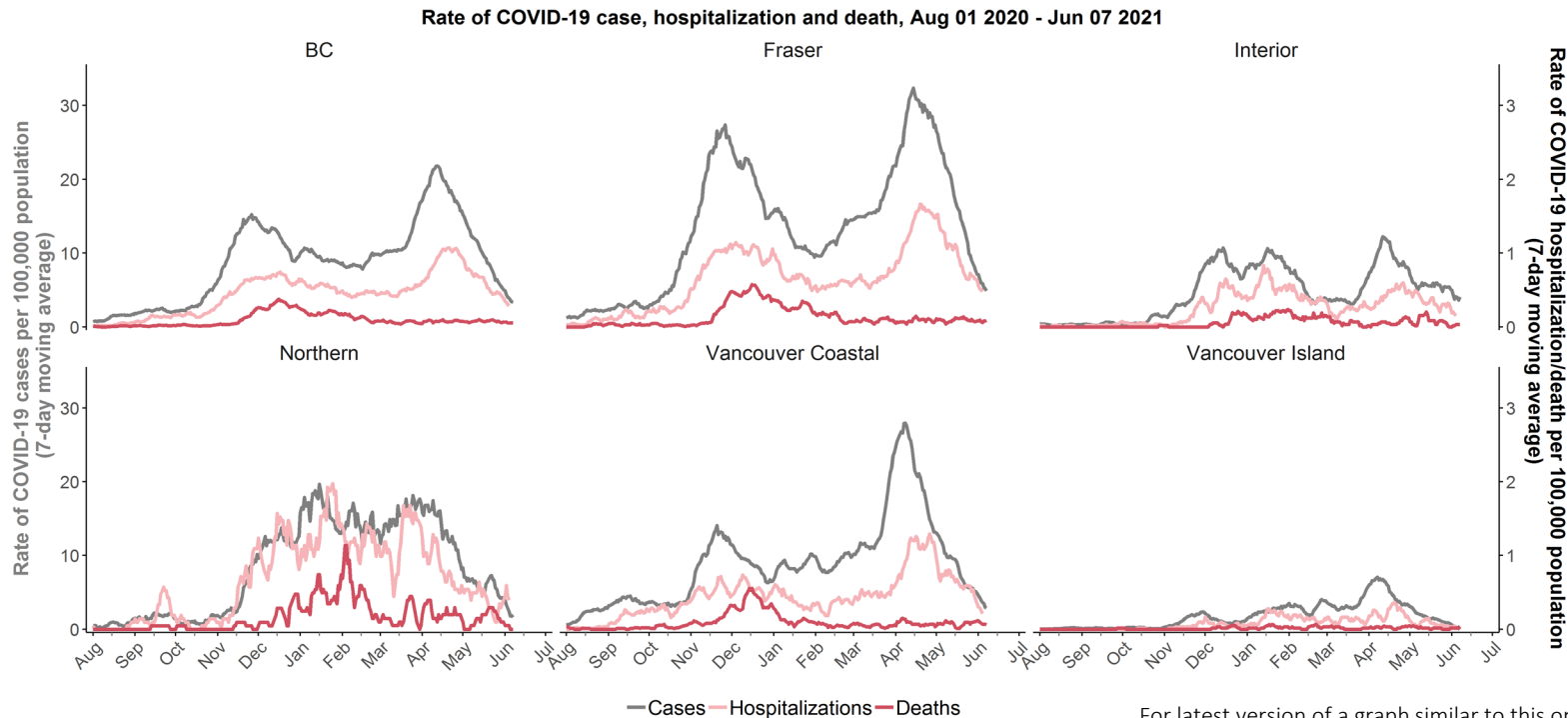
Daily cases, hospitalizations and deaths by surveillance date February 2020 to June 7, 2021



* Data are by surveillance date for cases and deaths, and admission date for hospitalizations
Data source: PHRDW Jun-08-2021

For latest version of a graph similar to this one (difference: hospital census, not new hospitalizations), see the [Epi App](#)

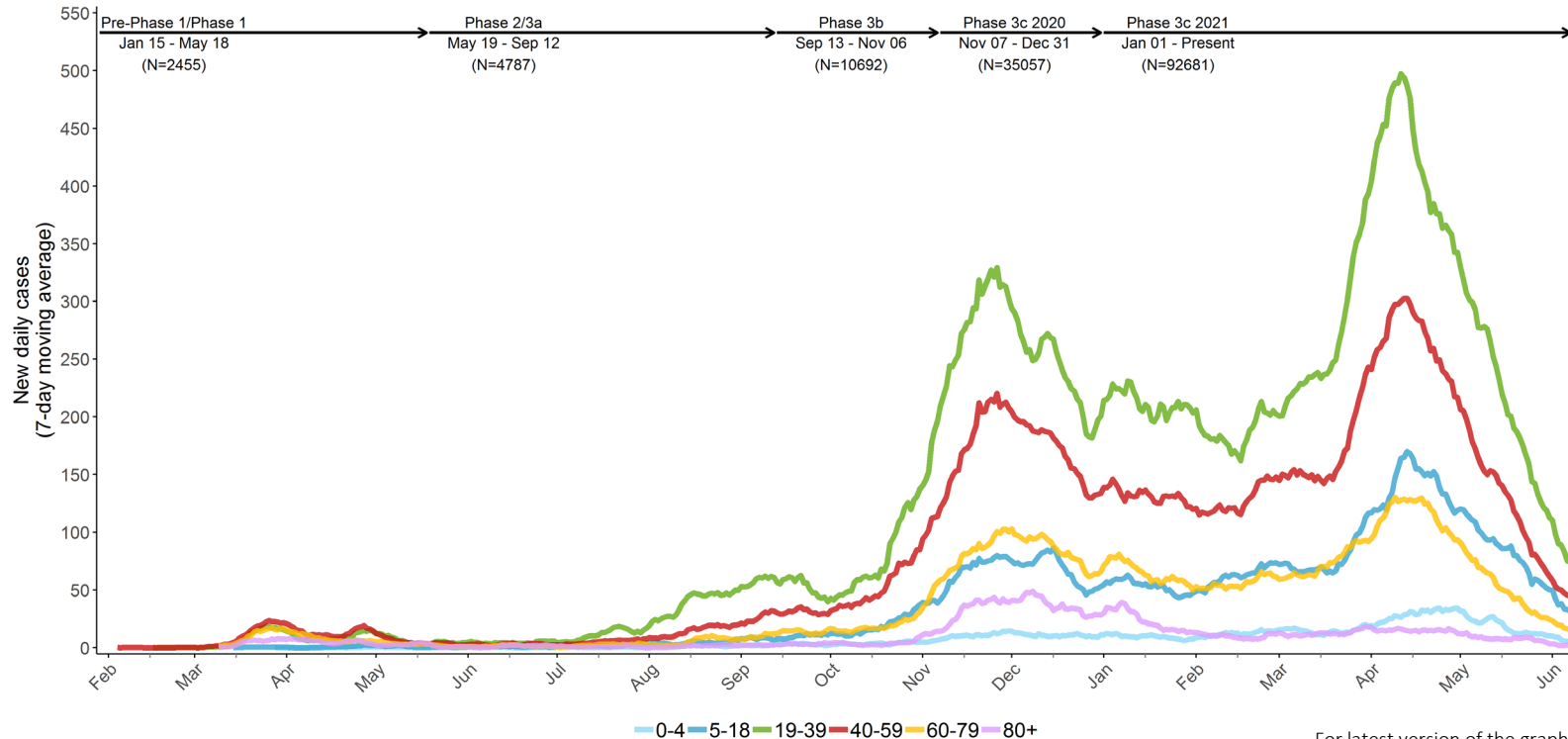
Daily cases, hospitalizations and deaths by surveillance date and Health Authority: February 2020 to June 7, 2021



* Data are by surveillance date for cases and deaths, and admission date for hospitalizations
Data source: PHRDW Jun-08-2021

For latest version of a graph similar to this one (difference: hospital census, not new hospitalizations), see the [Epi App](#)

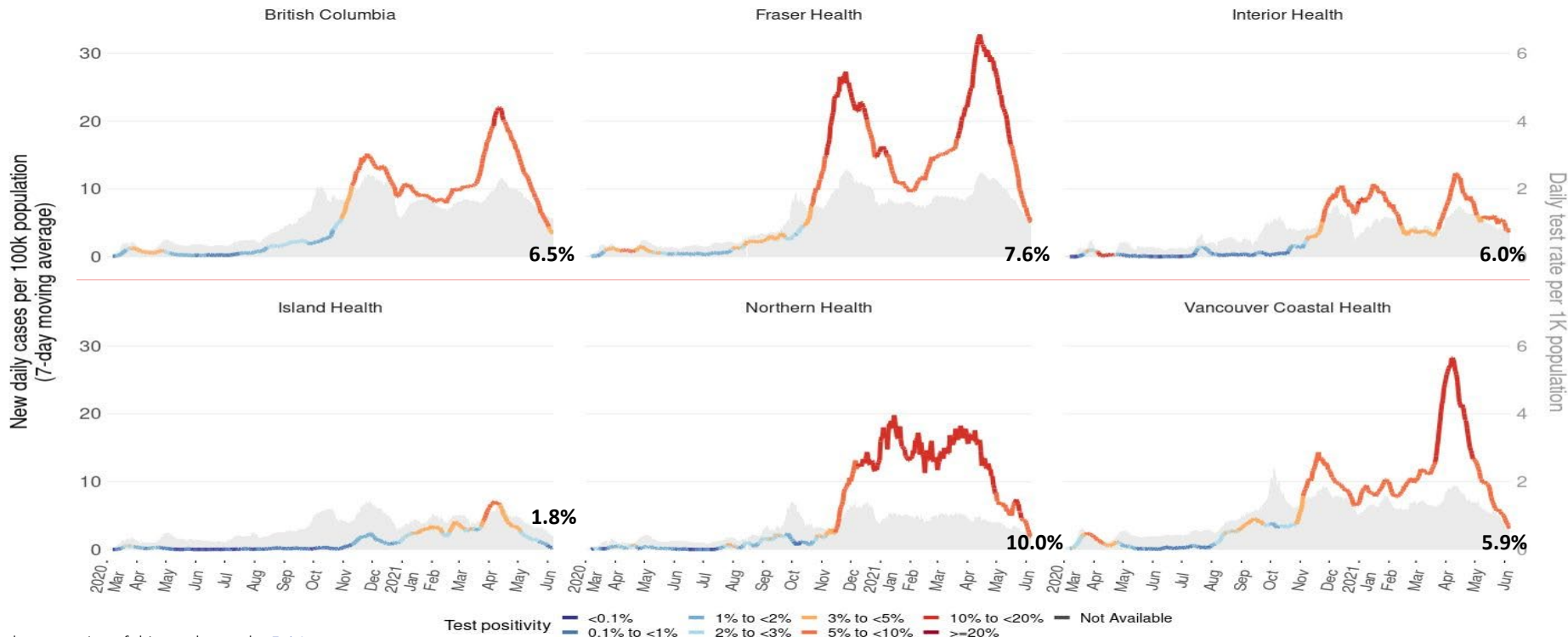
Daily case count by age January 2020 to June 7, 2021 (7-day moving average)*



* Data based on surveillance date (i.e. lab result date, or when not available, date reported to public health)

For latest version of the graph similar to this one (difference: age groups), see the [Situation Report](#)

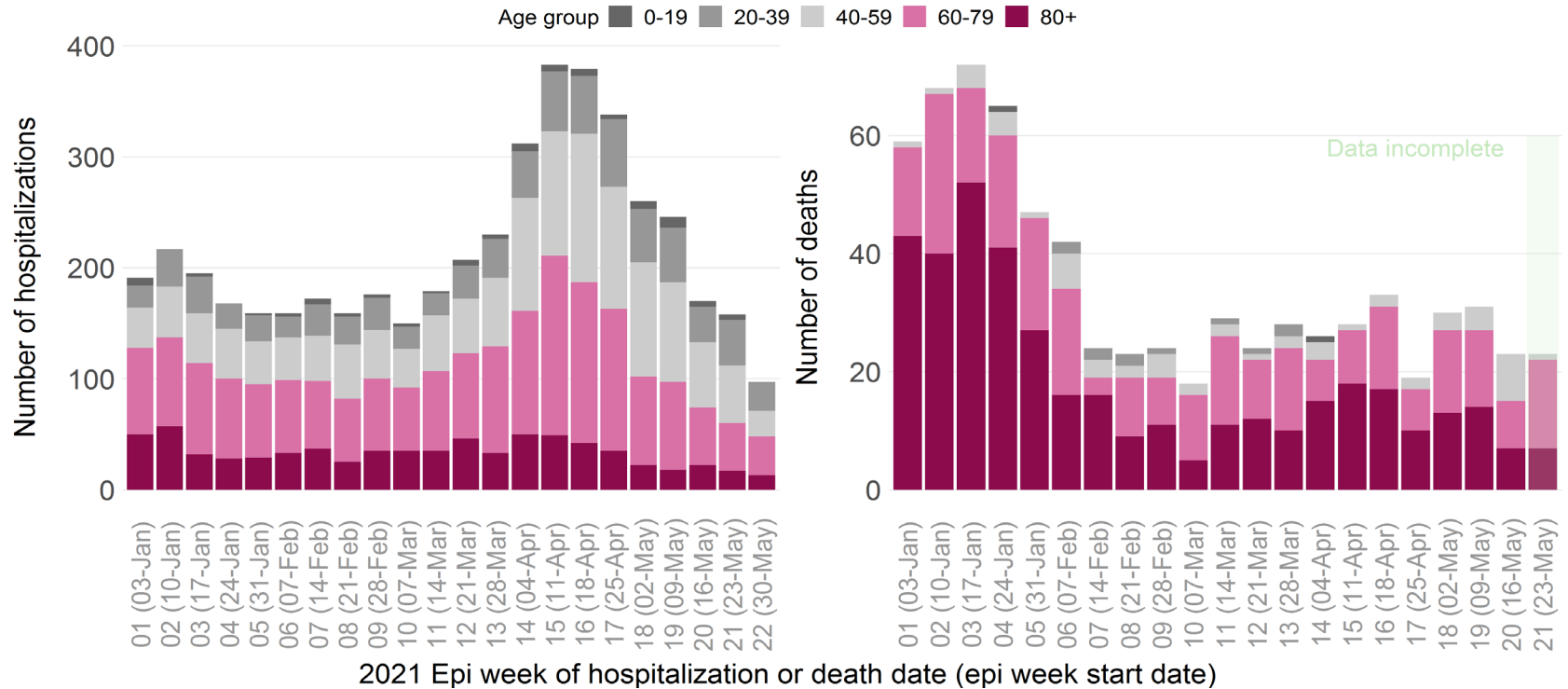
Daily case rate, testing rate and percent positivity by Health Authority March 1, 2020, to June 6, 2021



For latest version of this graph, see the [Epi App](#)

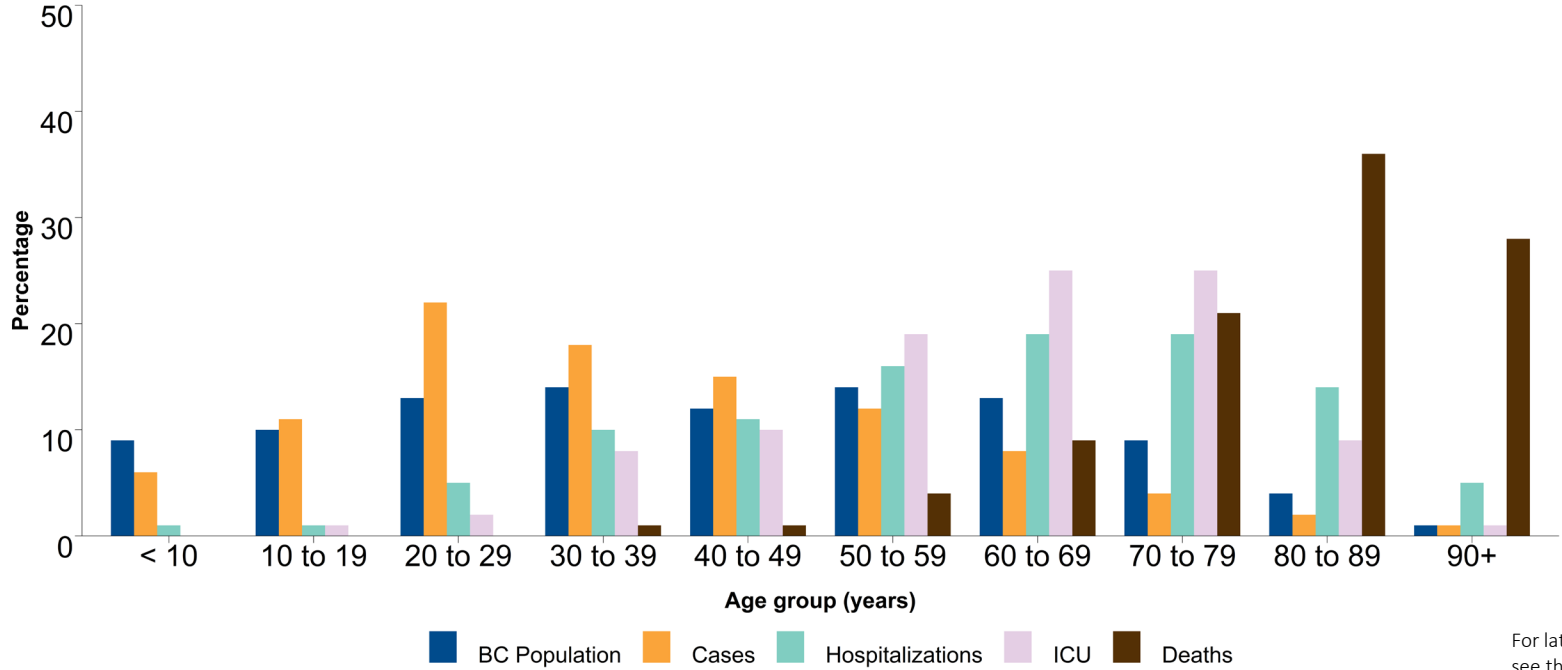
Data up to 2021-06-06

Age distribution of COVID-19 related hospitalizations and deaths, January – June 5, 2021



Percentage distribution of COVID-19 cases, hospitalizations, ICU admissions and deaths by age

January 15, 2020 – May 29, 2021



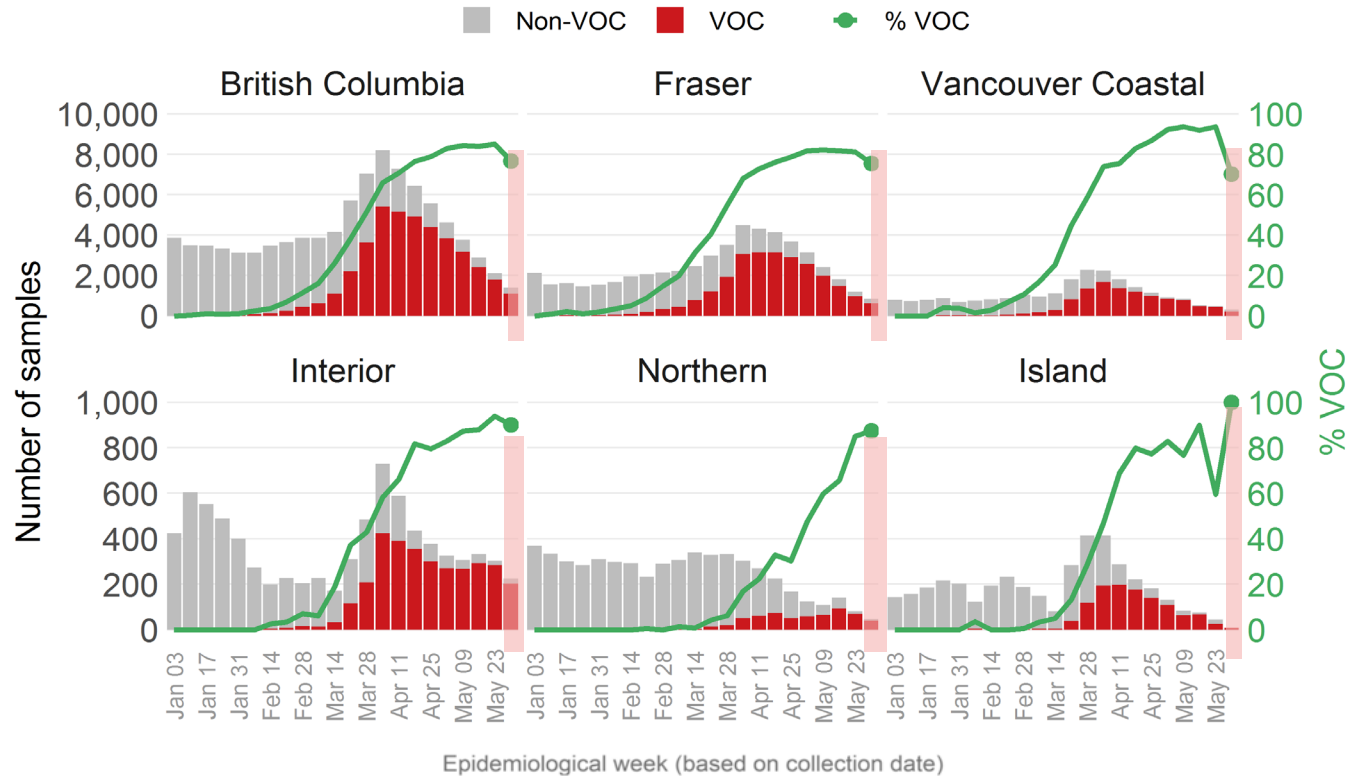
For latest version of this graph, see the [Situation Report](#)

COVID-19 Virus Has a Relatively Low Case Rate Among School-Aged Children (5 to 18 Years) in BC, From September 7, 2020, to June 7, 2021

| Age (years) | Number of Cases | Percent of Cases | Percent of Population |
|-------------|-----------------|------------------|-----------------------|
| 0 – 4 | 3372 | 2.4 | 4.4 |
| 5 – 12 | 8407 | 6.1 | 7.7 |
| 13 – 18 | 9230 | 6.7 | 6.0 |
| ≥ 19 | 117492 | 84.8 | 81.9 |

- **No deaths among school age children due to COVID-19**
- **COVID-19 hospitalization 10x lower in school-aged children (1 in 200) compared to adults 19+ years (1 in 20)**

Approximate distribution of %VOC by Health Authority

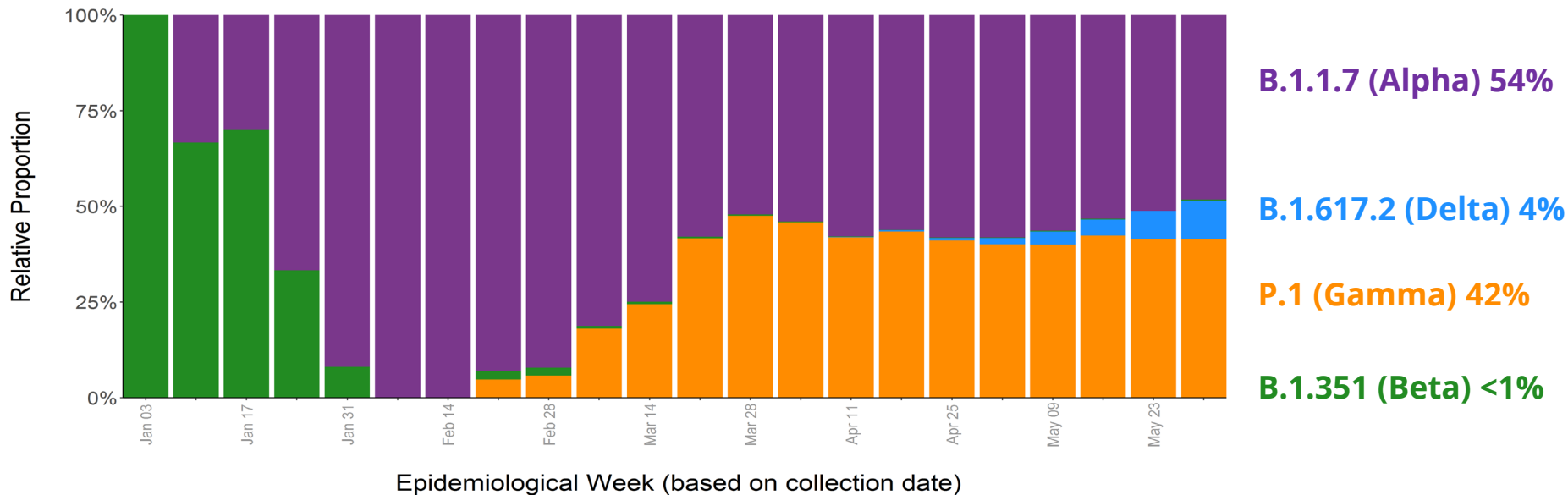


Data for last epi week are incomplete and subject to change

This figure can also be found in the [weekly VOC report](#)

Relative proportion of VOC by epi week

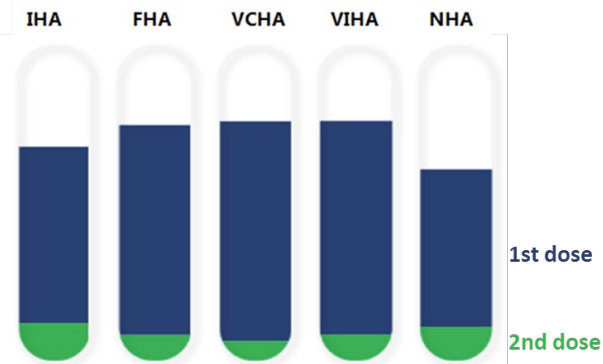
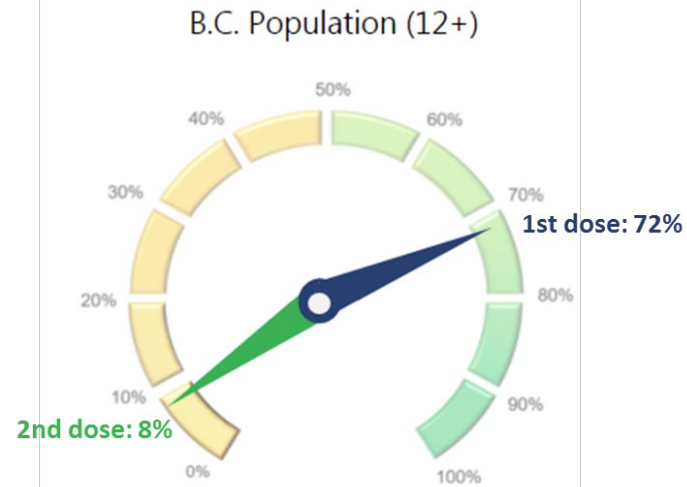
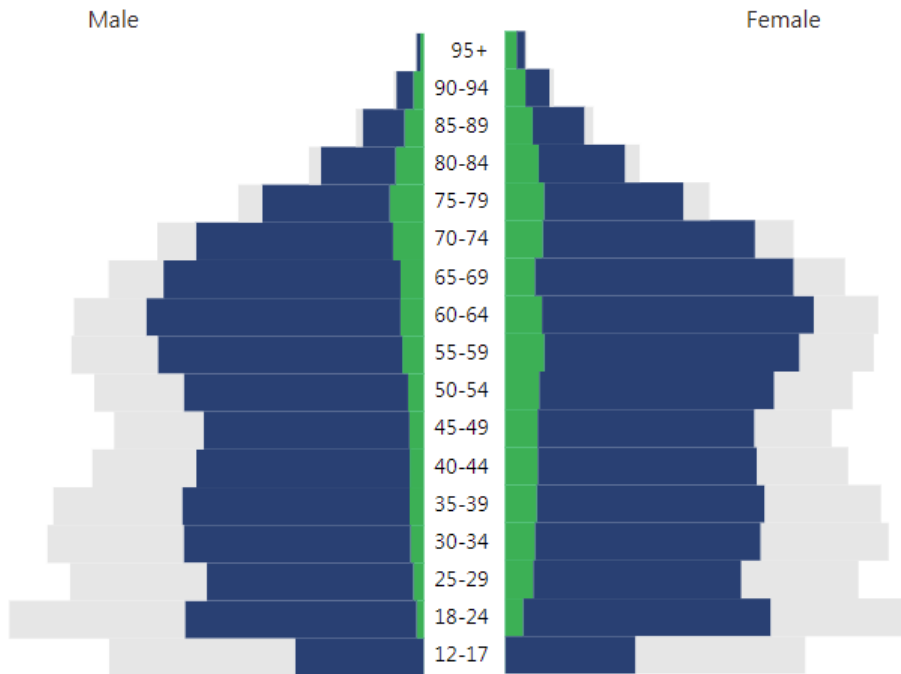
Relative Proportion of VoCs in BC Detected through Quasi-Random Sample Selection by Epiweek of Collection Date



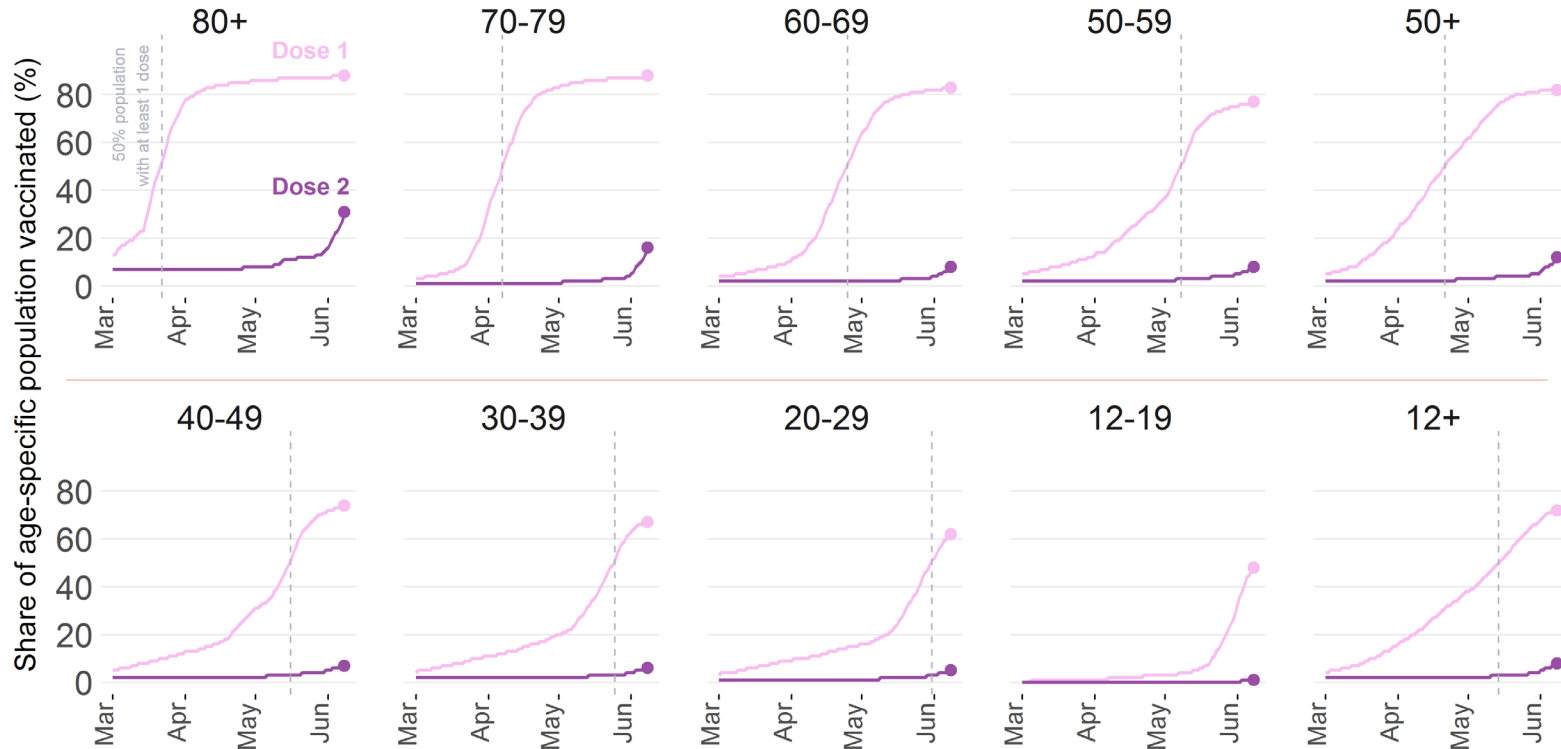
* the B.1.1.7 and P.1 VoC lineages are captured either by qPCR SNP screen or WGS for randomly selected samples up to epiweek 22; all other circulating VoCs are WGS confirmed and exclude samples sequenced for cluster and/outbreak investigation. In week 12, we used a qPCR SNP that is comprised of a dual N501Y and E484K assay

http://www.bccdc.ca/Health-Info-Site/Documents/VoC/VoC_Weekly_06032021.pdf

Vaccination progress in BC as of June 9, 2021 for 1st and 2nd doses



Vaccination progress in BC by age group up to June 9, 2021



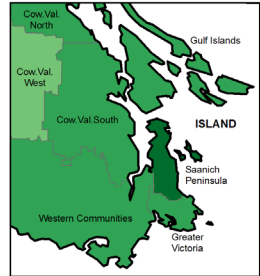
This figure can also be found in the [weekly data summary](#)

Data updated 2021-06-09
Data Source: Provincial Immunization Registry, PHSA

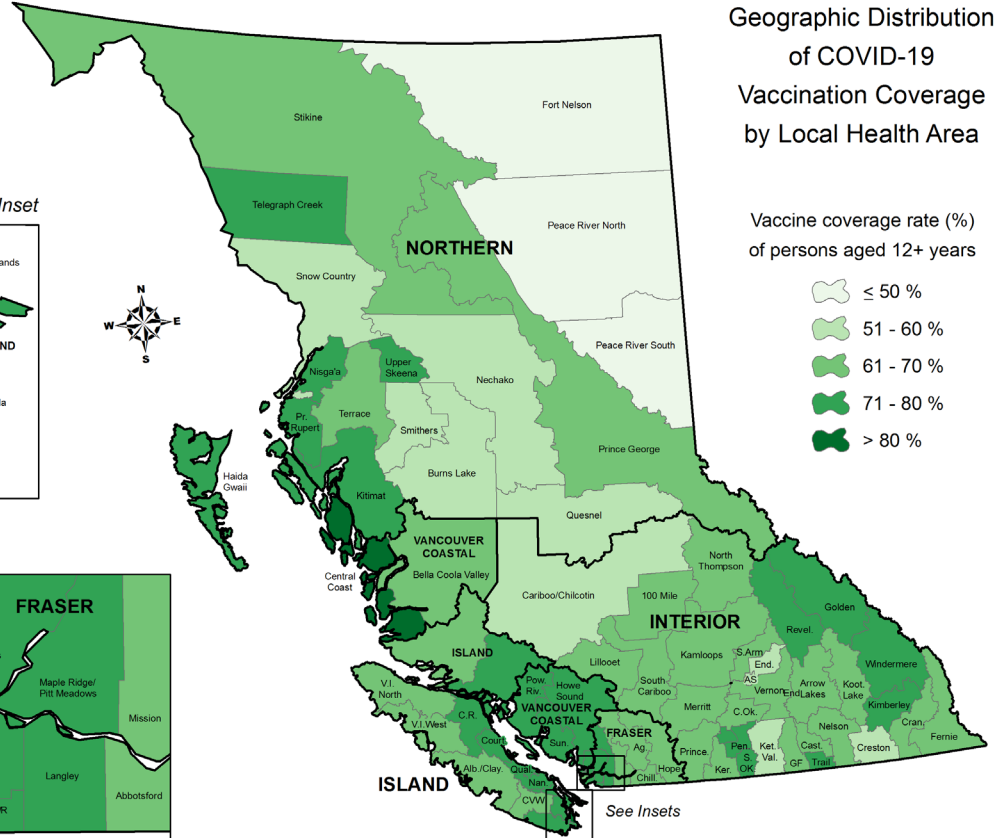
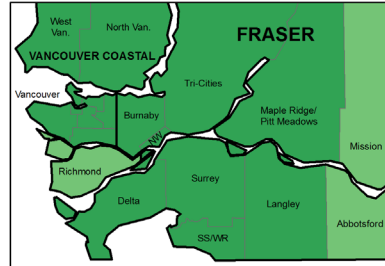
Vaccine Coverage by Local Health Area Ages ≥ 12 years

Ages 12+ receiving 1st dose (up to June 7, 2021)

South Vancouver Island Inset



Greater Vancouver Inset



Geographic Distribution of COVID-19 Vaccination Coverage by Local Health Area

Vaccine coverage rate (%) of persons aged 12+ years

- ≤ 50 %
- 51 - 60 %
- 61 - 70 %
- 71 - 80 %
- > 80 %

See Insets

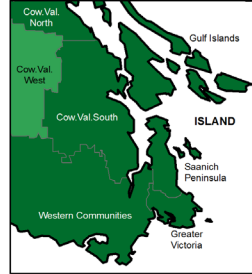
For latest version of this graph, see [COVID-19 Surveillance Dashboard](https://www.bccdc.ca/covid-19/surveillance)

Notes: Vaccine coverage data from BC Ministry of Health, Health Sector Information, Analysis and Reporting; June 8, 2021 data extract. Clients are mapped by location of residence; population ages 12+ from BC Client Roster. Map created June 8, 2021 by BCCDC for public release.

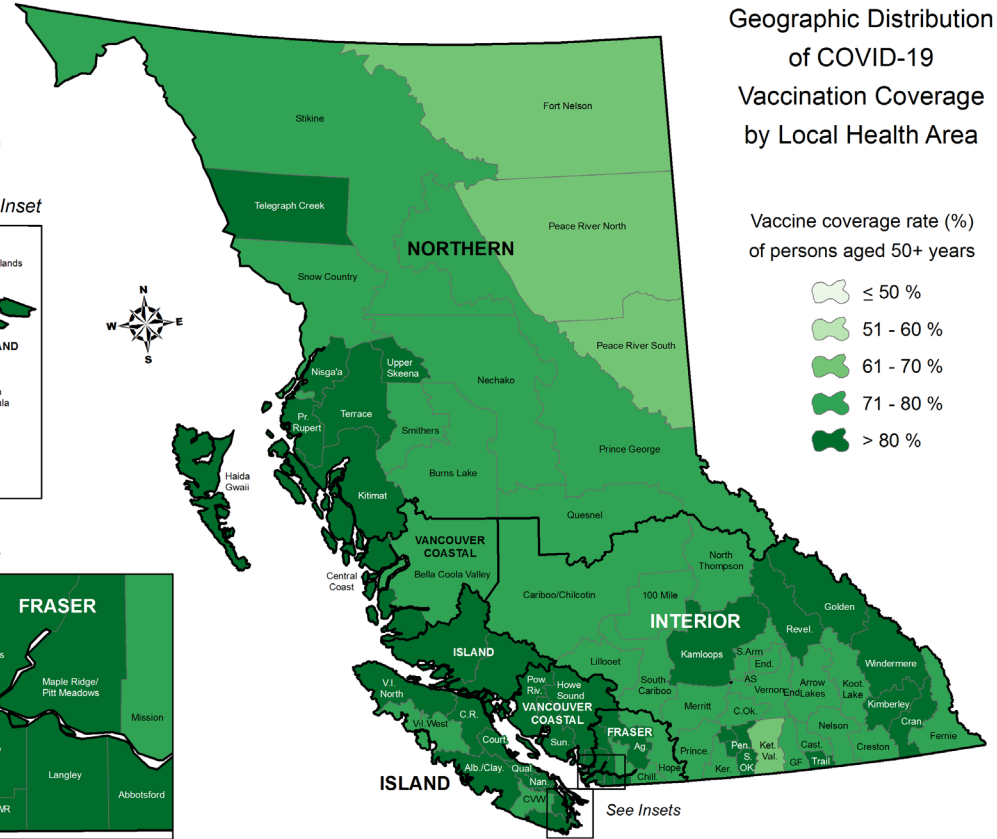
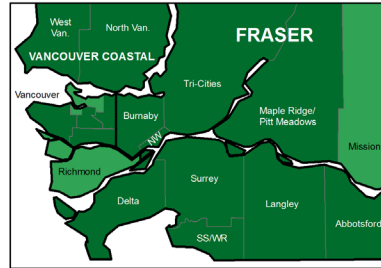
Vaccine Coverage by Local Health Area Ages ≥ 50 years

Ages 50+ receiving 1st dose (up to June 7, 2021)

South Vancouver Island Inset



Greater Vancouver Inset

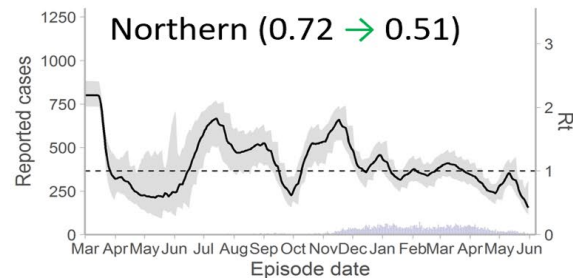
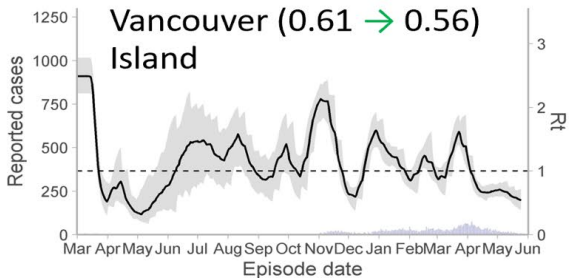
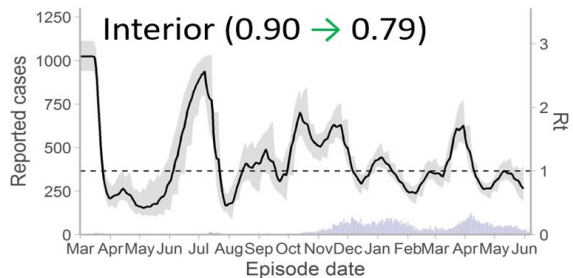
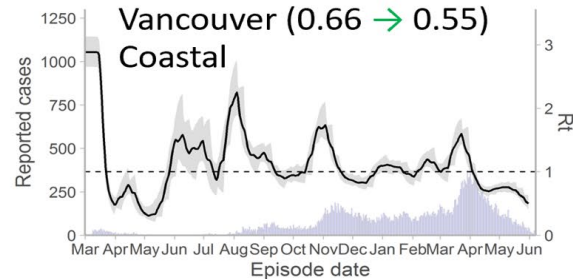
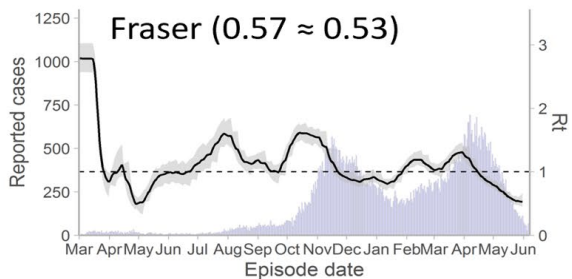
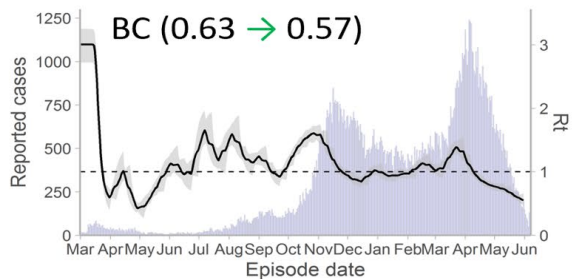


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Notes: Vaccine coverage data from BC Ministry of Health, Health Sector Information, Analysis and Reporting; June 8, 2021 data extract. Clients are mapped by location of residence; population ages 50+ from BC Client Roster. Map created June 8, 2021 by BCCDC for public release.

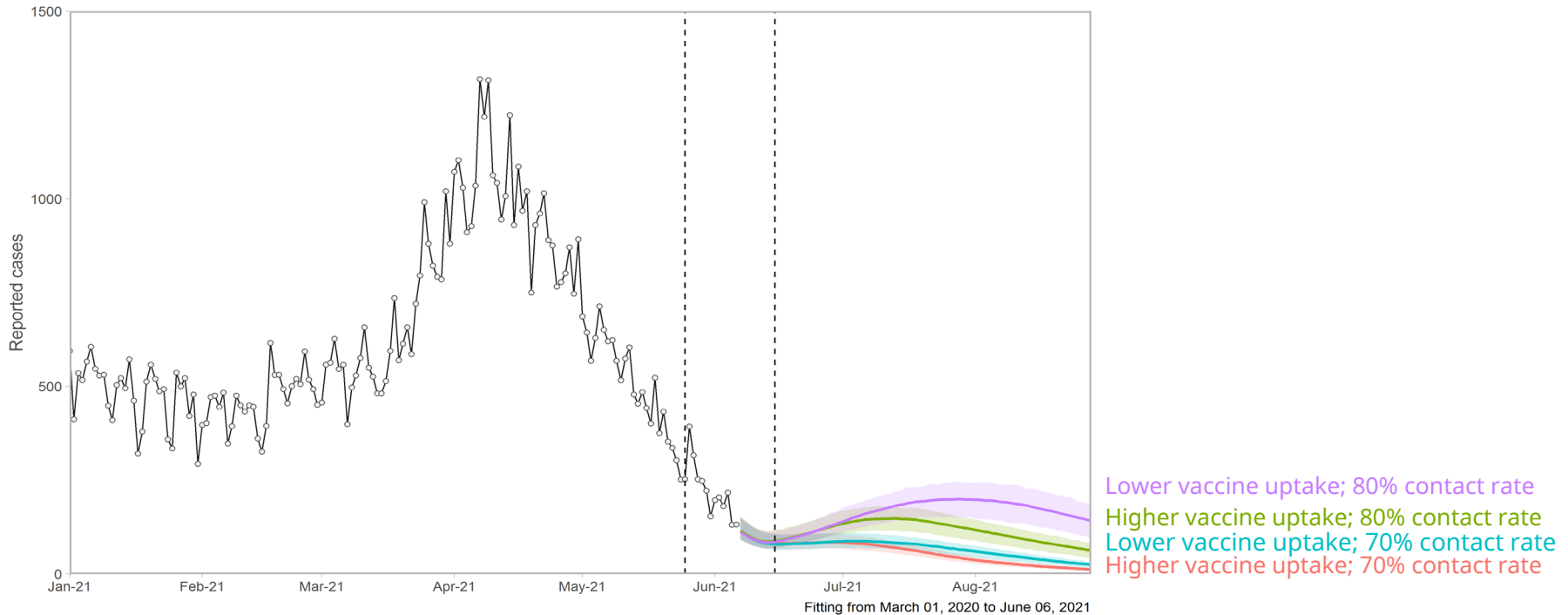
Dynamic compartmental modeling: recent trends

Our model shows that R_t remains below 1 and is trending downward in all regions in BC.



Solid black line: median R_t , modeled using all reported cases up to June 7, 2021; Grey band: 5%-95% credible interval; Purple bars: all reported cases. Due to lag from symptom onset to reporting, most recent case counts and R_t are not shown. Recent trend shown comparing 7 day average R_t from (last week → this week). Data source: BCCDC HA [linelist](#).

Dynamic compartmental modeling: recent trends



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