

COVID-19 IN BC

COVID-19 Update:

June 28, 2021



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Symptom Self-Assessment:

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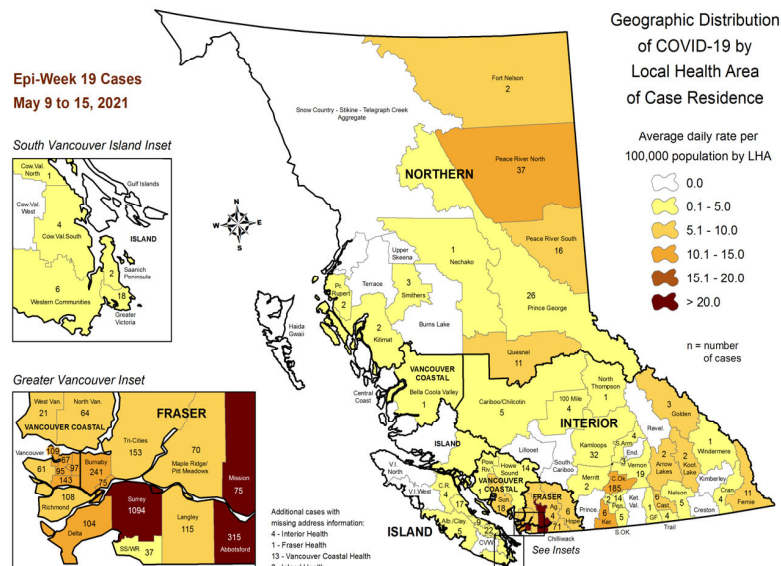
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COVID-19 IN BC

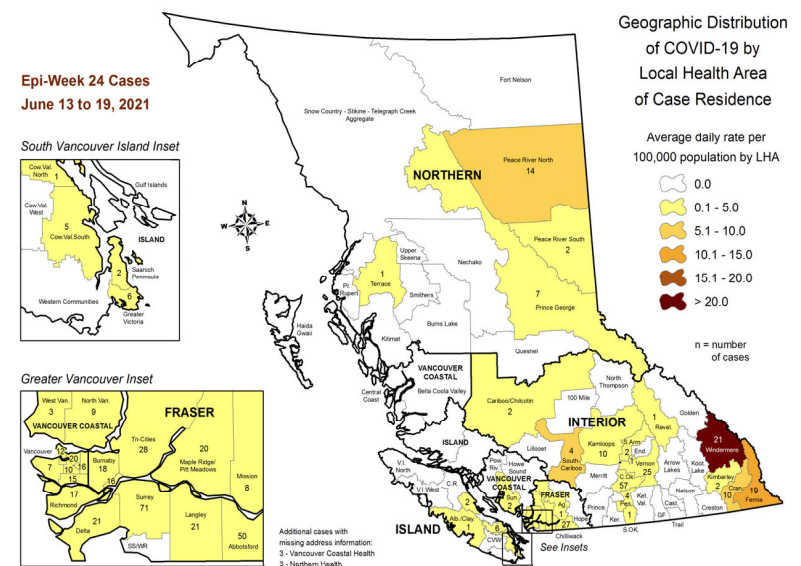


May 9 to 15, 2021

June 13 to 18, 2021

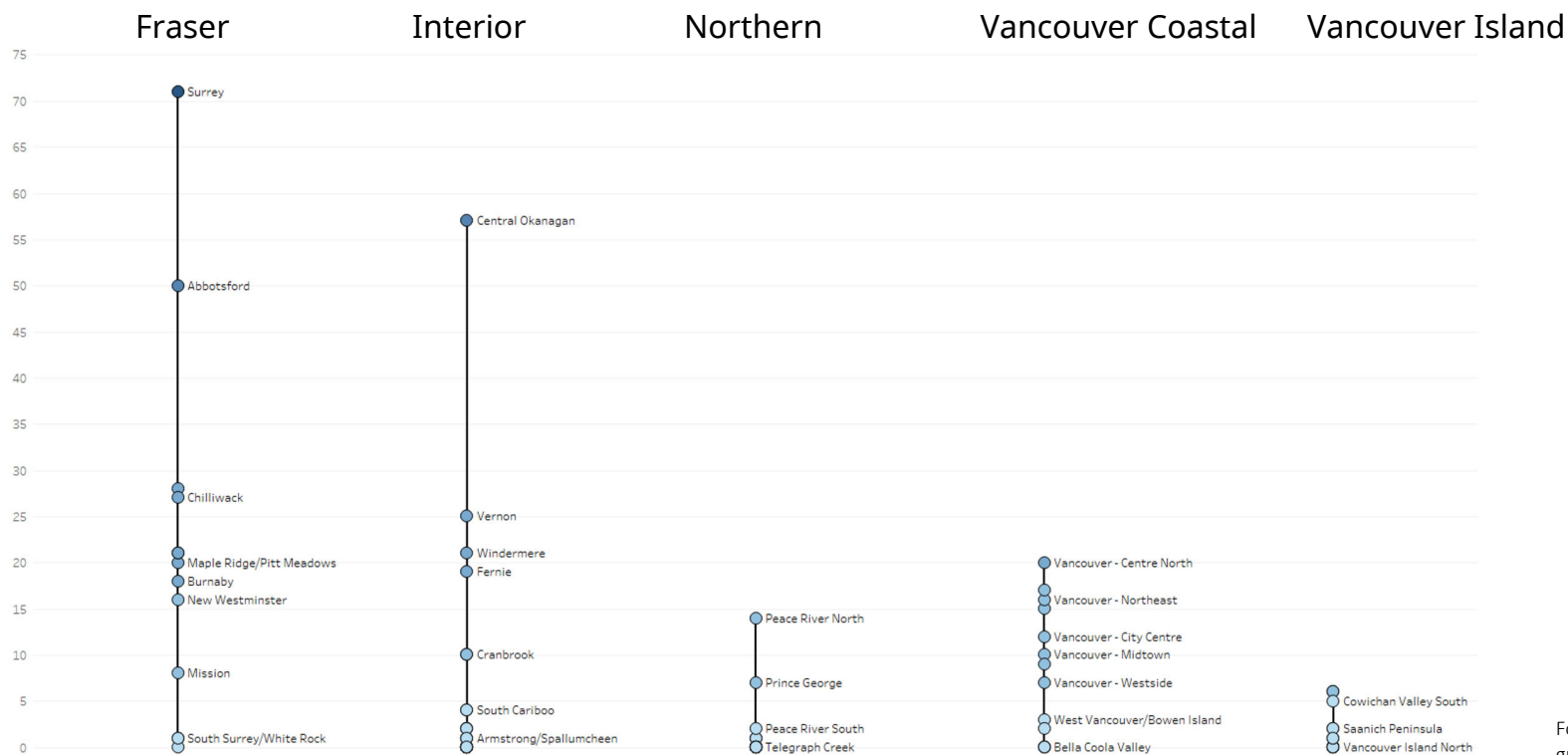


Notes: Cases are mapped by location of residence; cases with unknown residence and from out of province are not mapped. Data source: Public Health Reporting Data Warehouse (PHRDW) integrated COVID dataset; we operate in a live database environment and case information from the health authorities are 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 travelling 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 May 19, 2021 by BCCDC for public release.



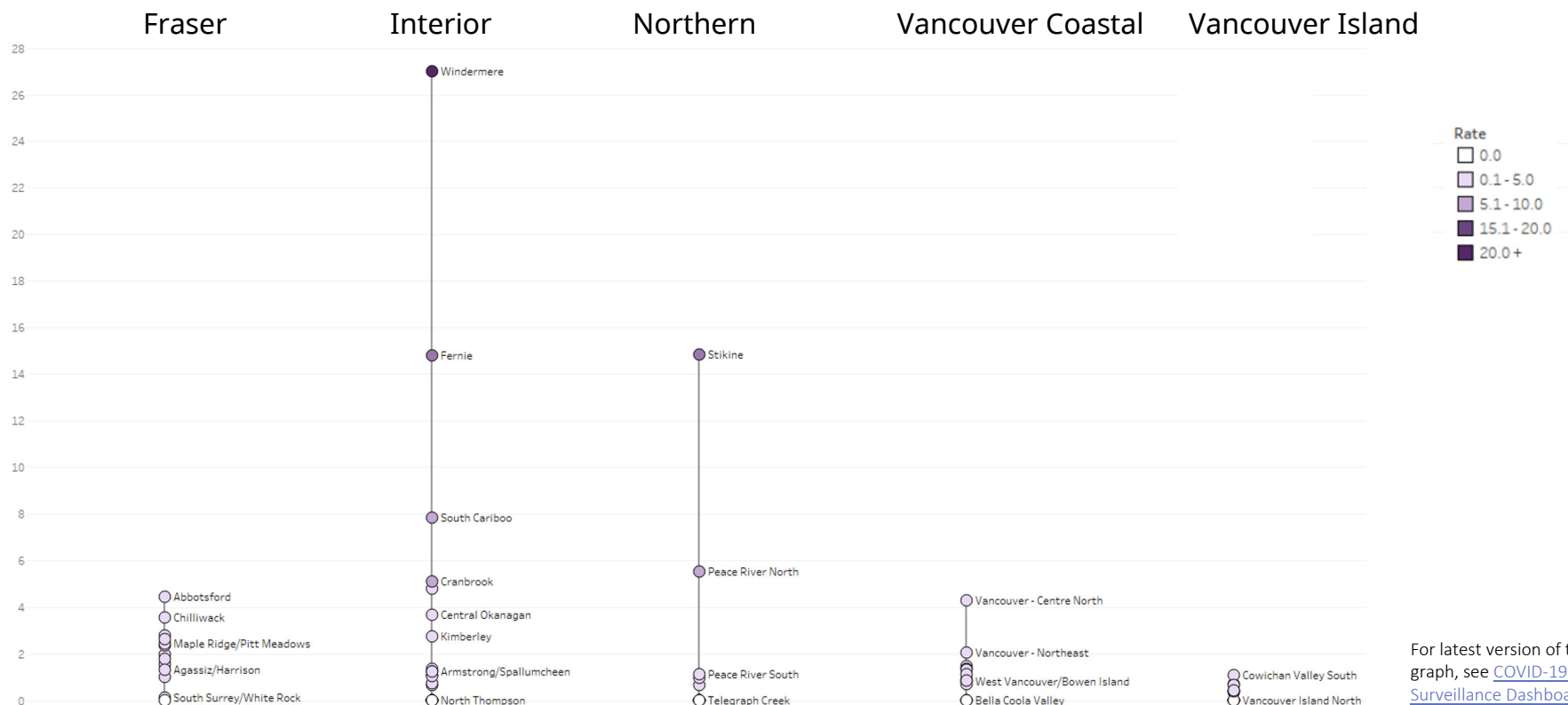
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Total case counts by local health area June 16-22, 2021



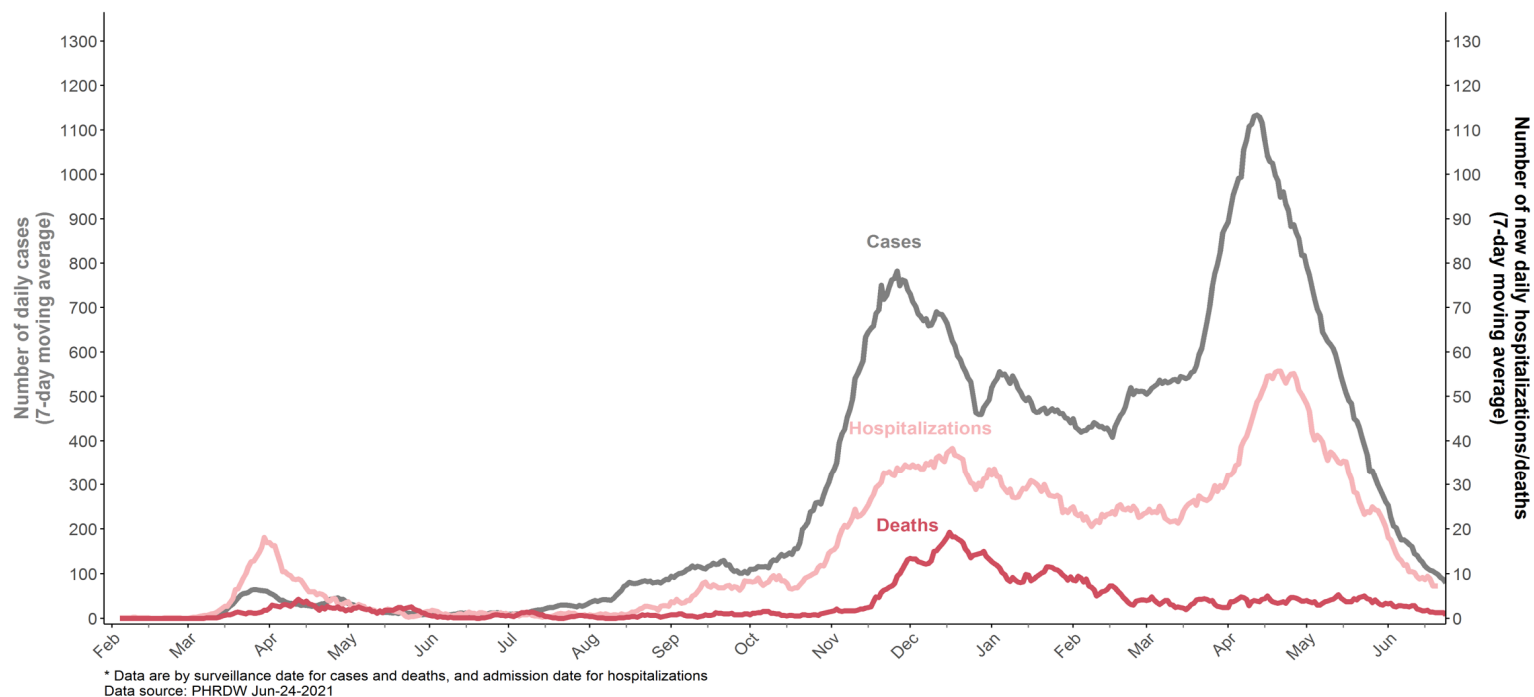
For latest version of this graph, see [COVID-19 Surveillance Dashboard](#)

Average daily **rate** of new cases per 100,000 population by local health area June 16- June 22, 2021



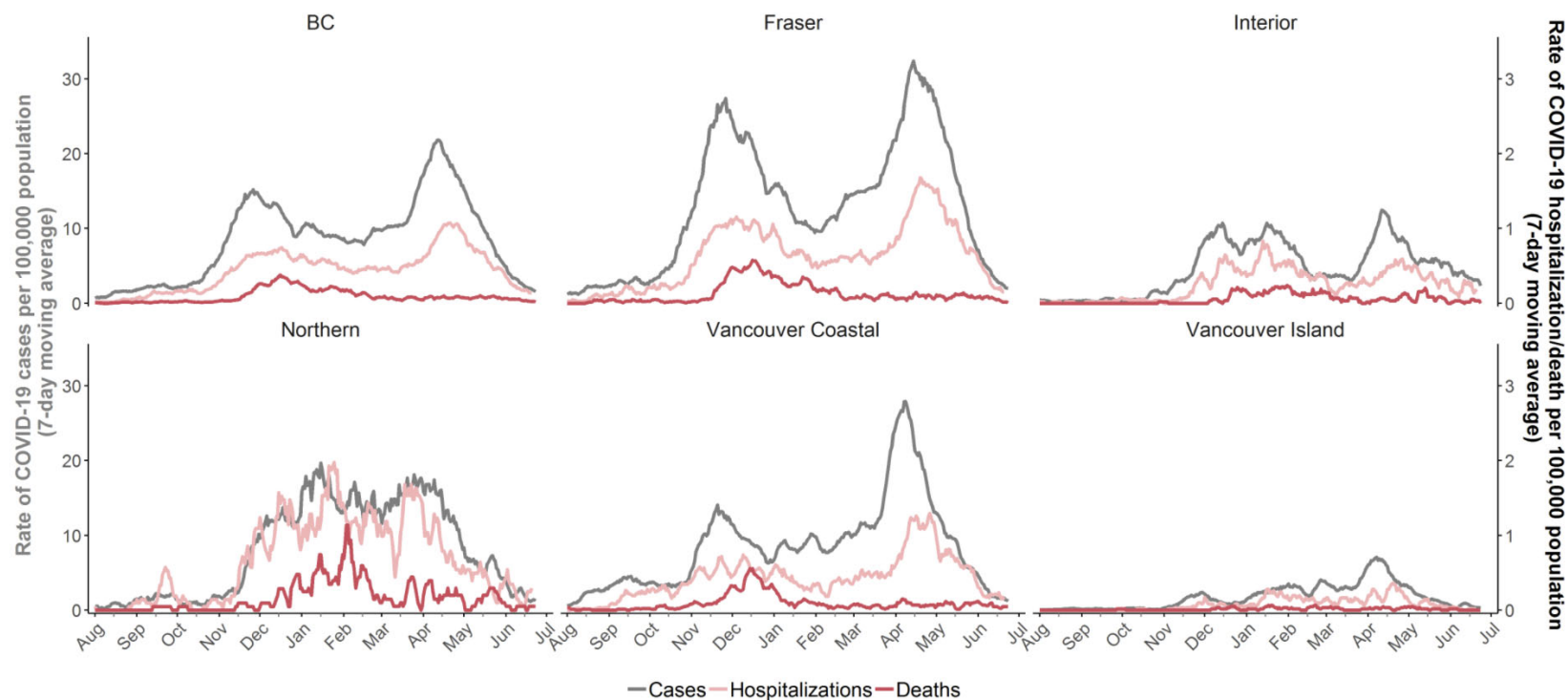
For latest version of this graph, see [COVID-19 Surveillance Dashboard](#)

Daily cases, hospitalizations, and deaths by surveillance date February 2020 to June 24, 2021



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

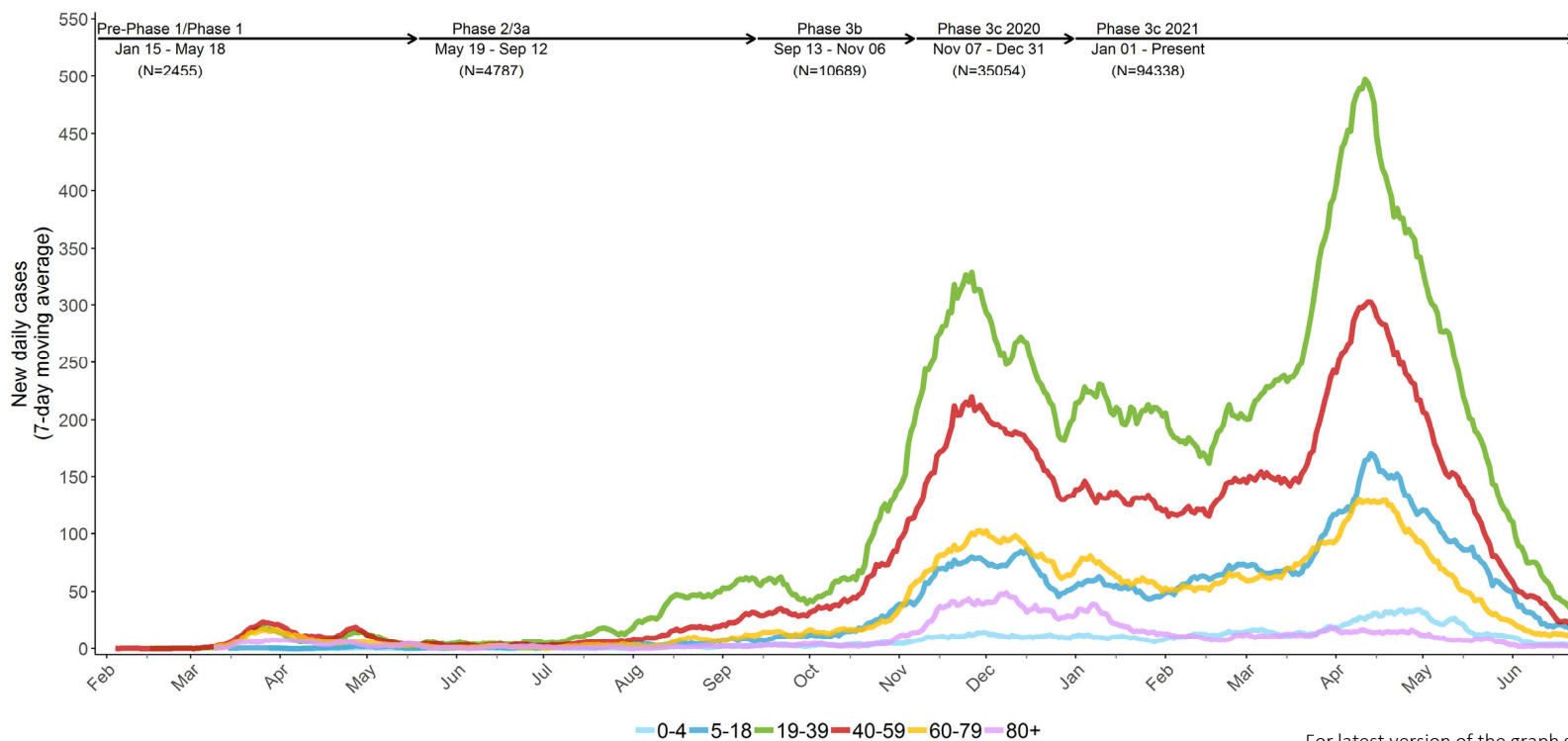
Daily cases, hospitalizations and deaths by surveillance date and Health Authority, February 2020 to June 24, 2021



* Data are by surveillance date for cases and deaths, and admission date for hospitalizations
Data source: PHRDW Jun-24-2021

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

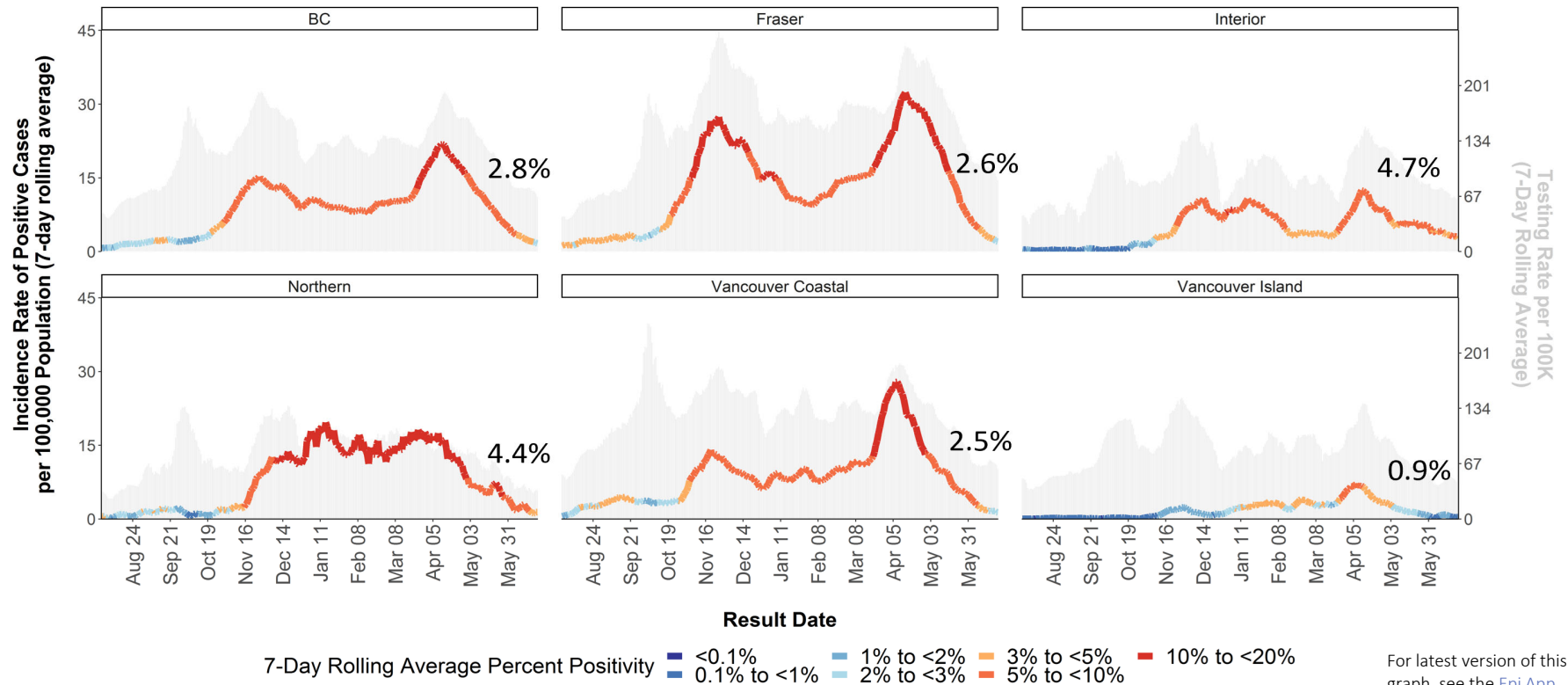
Daily case count by age January 2020 to June 24, 2021 (7-day moving average)*



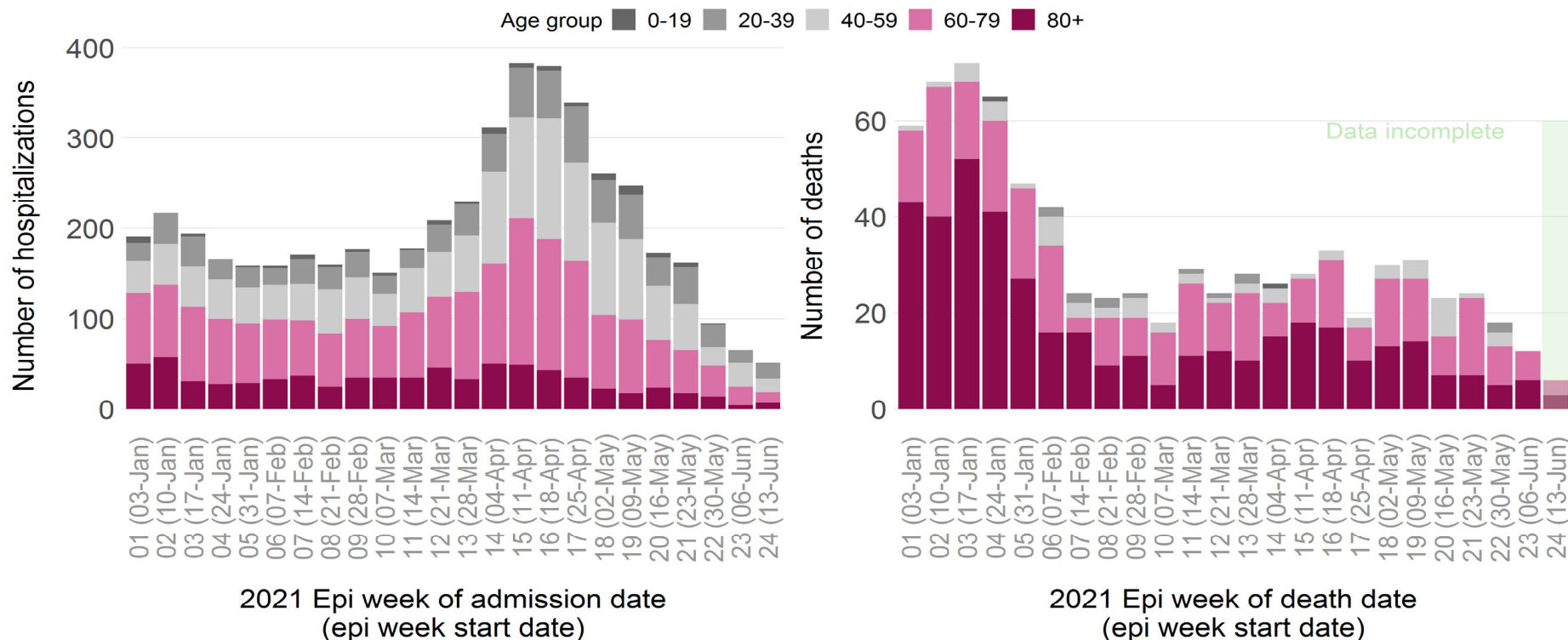
* Data based on surveillance date (i.e. lab result date, or when not available, date reported to public health)

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 22, 2021

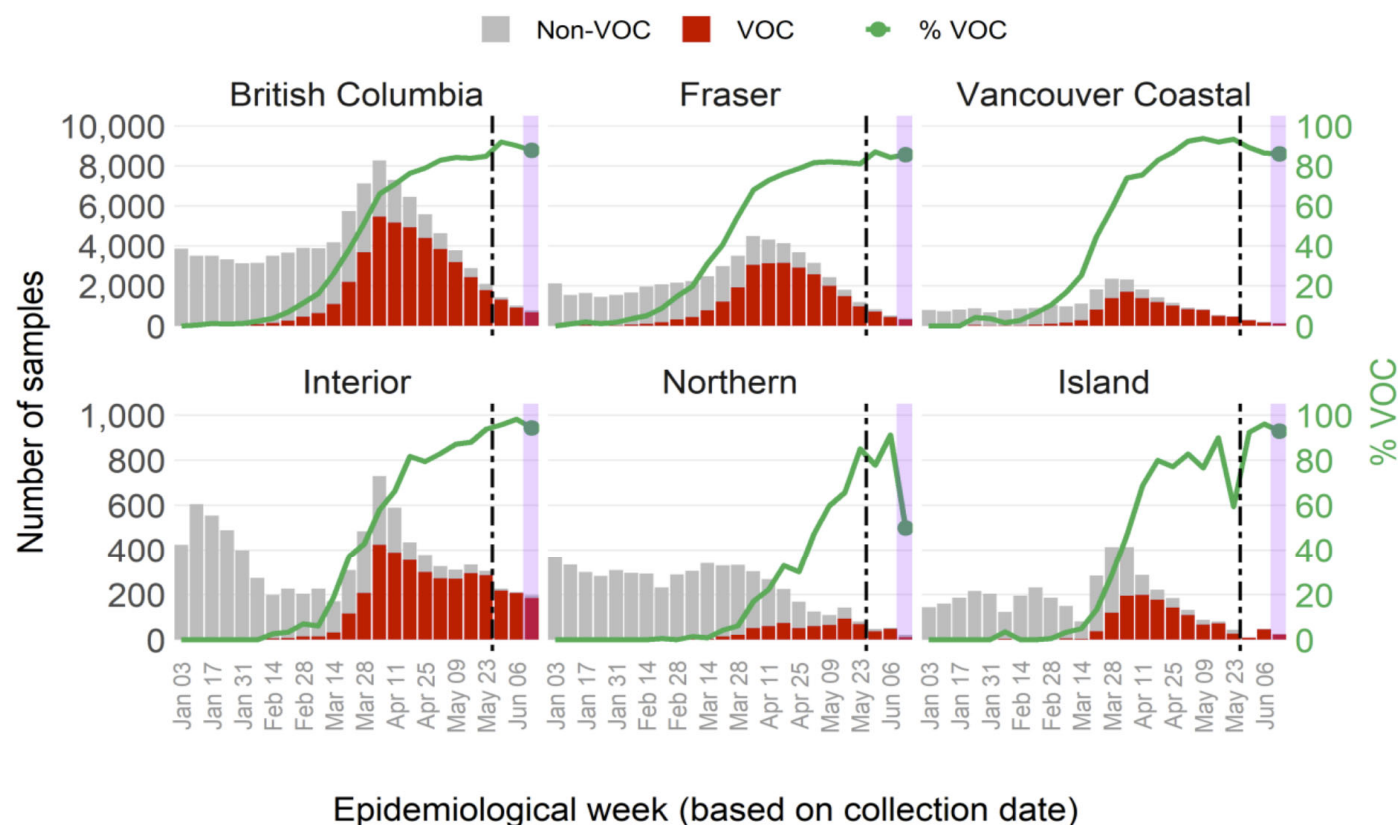


Age distribution of COVID-19 related hospitalizations and deaths, January – June 24, 2021



Data extracted on 2021-06-24; hospitalization and death data from health authority case line list data

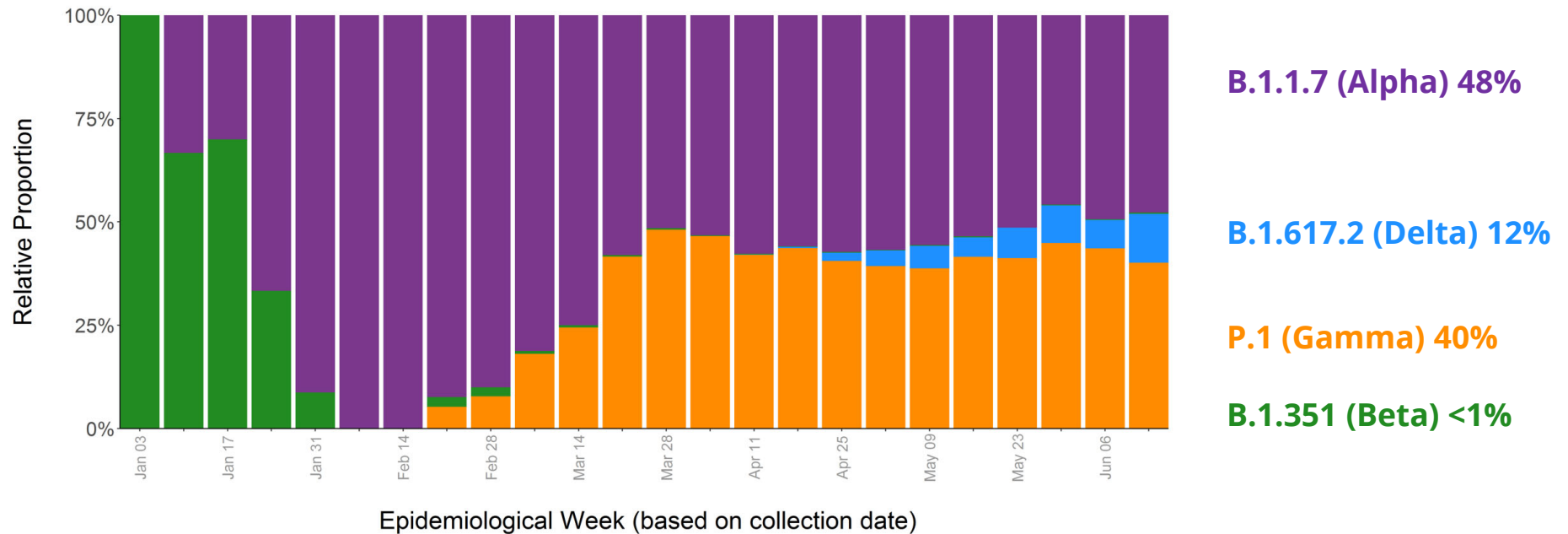
Approximate distribution of %VOC by Health Authority



Data for last epi week are incomplete and subject to change

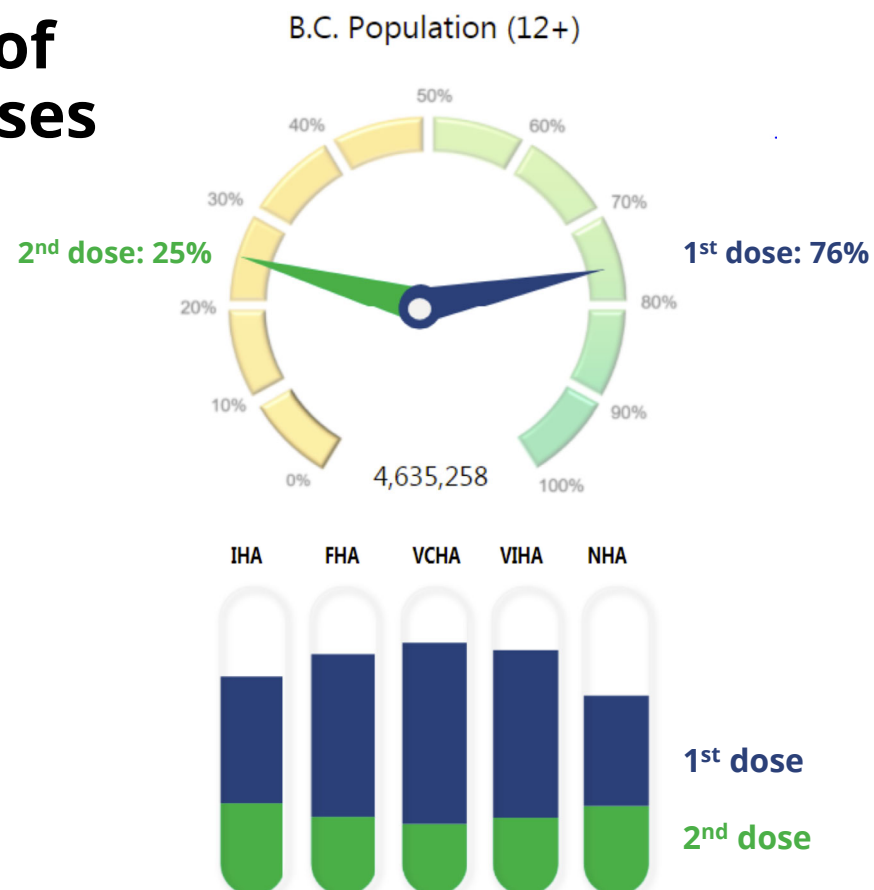
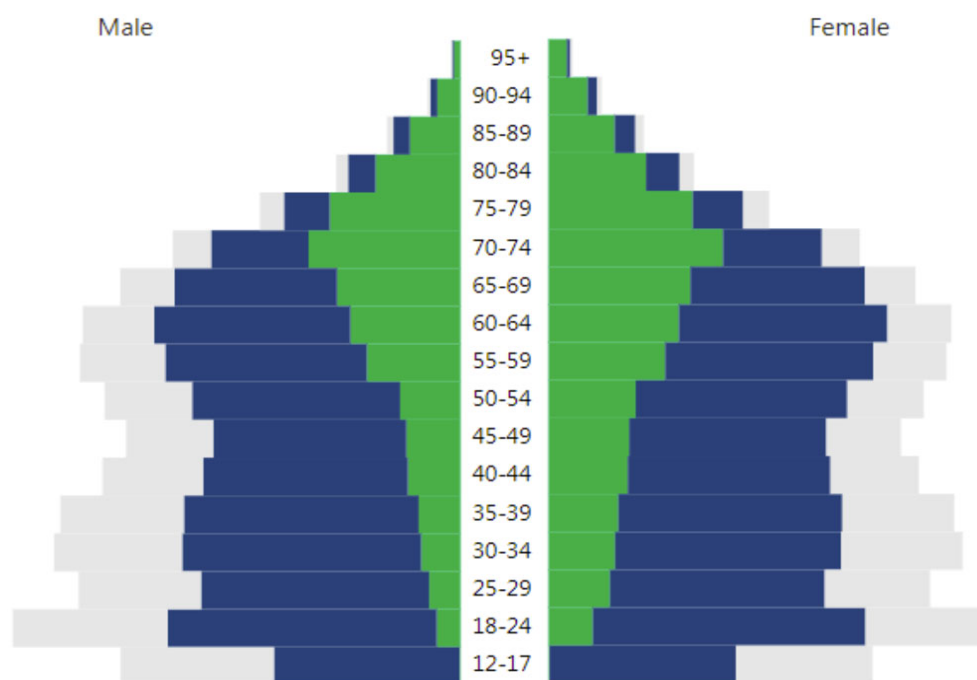
This figure can also be found in the [weekly VOC report](#)

Relative proportion of VOC by epi week

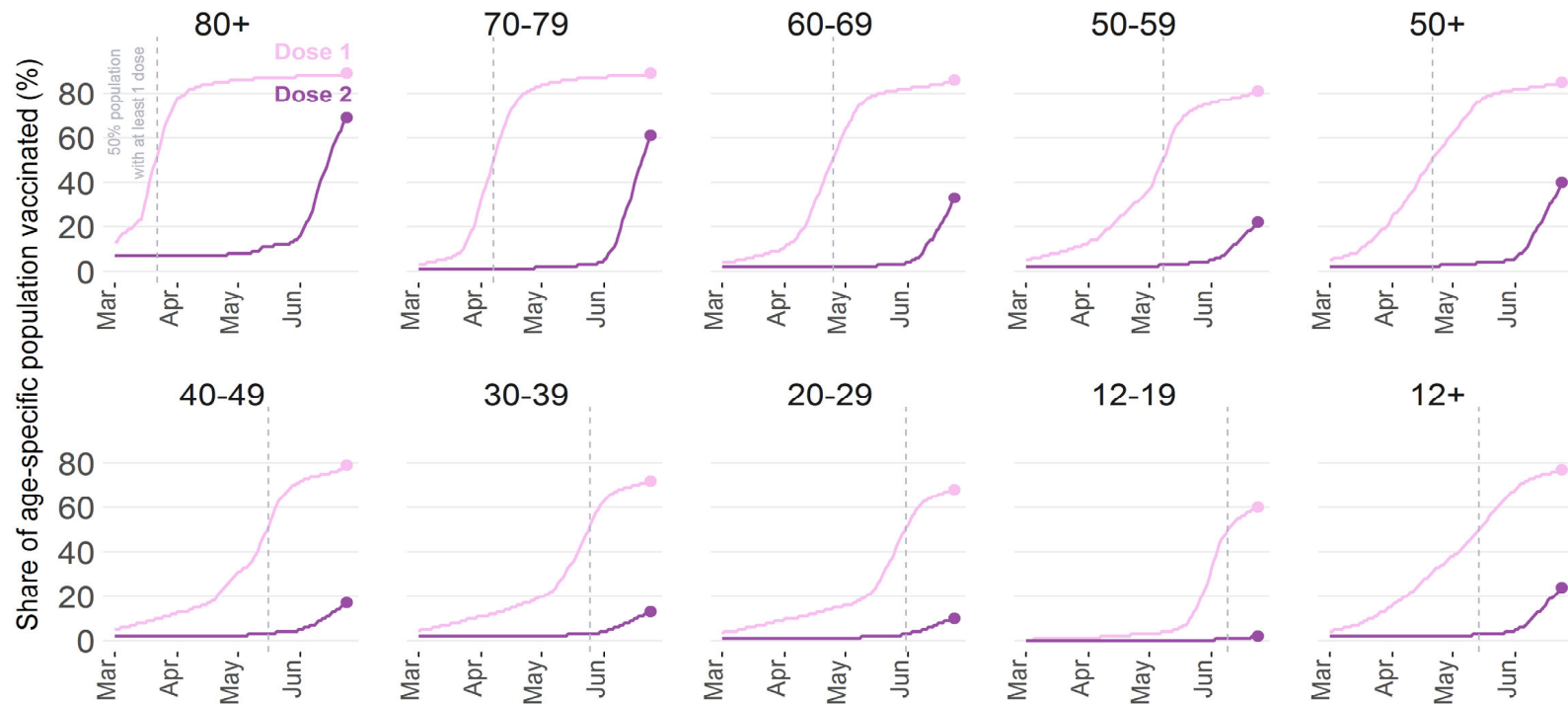


■ B.1.1.7 ■ B.1.351 ■ B.1.617.2 ■ P.1
 * the B.1.1.7 and P.1 VoC lineages are captured either by qPCR SNP screen or WGS for randomly selected samples up to epiweek 21;
 all other circulating VoCs are WGS confirmed and exclude samples sequenced for cluster and/outbreak investigation.
 In week 12, we used a qPCR SNP that is comprised of a dual N501Y and E484K assay

Vaccination progress in BC as of June 24, 2021 for 1st and 2nd doses



Vaccination progress in BC by age group up to June 25, 2021



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

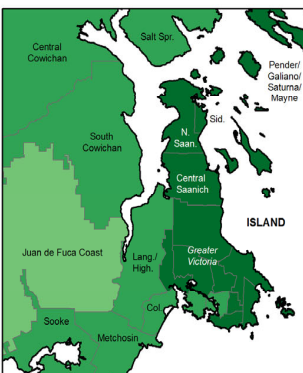
Data updated 2021-06-25
Data Source: Provincial Immunization Registry, PHSA

First Dose Vaccine Coverage by Local Health Area Ages ≥ 12 years

Okanagan Inset
(Community Health Service Areas)



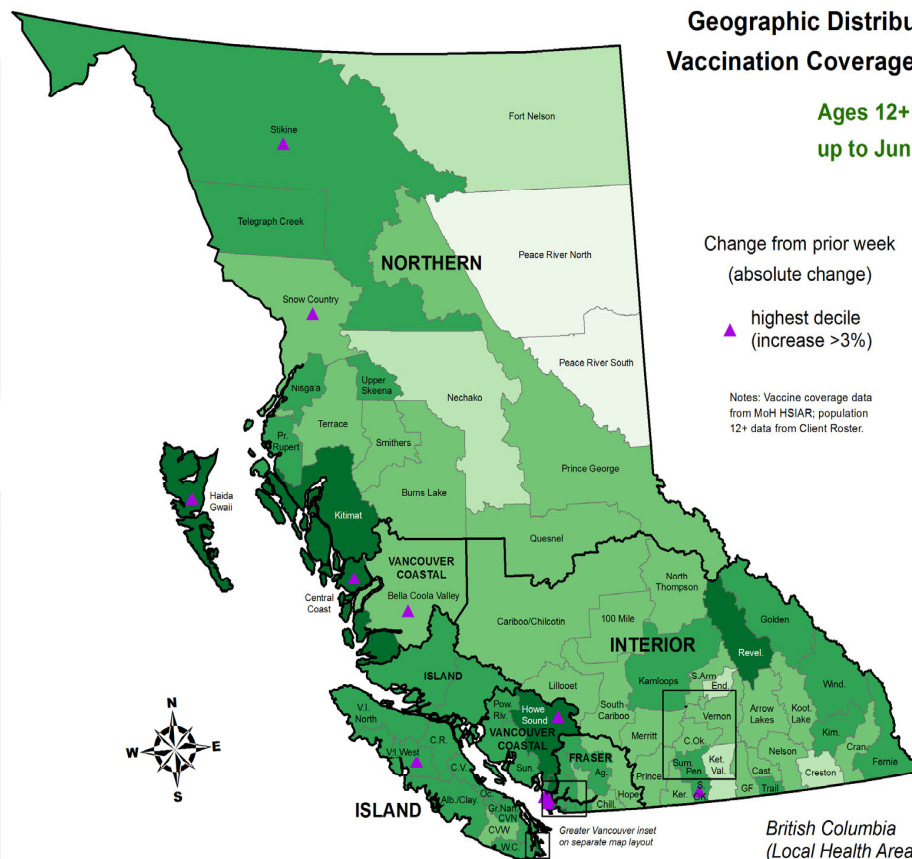
Greater Victoria Inset
(Community Health Service Areas)



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

Geographic Distribution of COVID-19 Vaccination Coverage by LHA and CHSA

Ages 12+: 1st Dose
up to June 21, 2021



Change from prior week
(absolute change)

▲ highest decile
(increase >3%)

Notes: Vaccine coverage data
from MoH HSIAR; population
12+ data from Client Roster.

Vaccination coverage
rate (%) of persons 12+

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

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First Dose Vaccine Coverage by Local Health Area Ages ≥ 50 years

Okanagan Inset
(Community Health Service Areas)



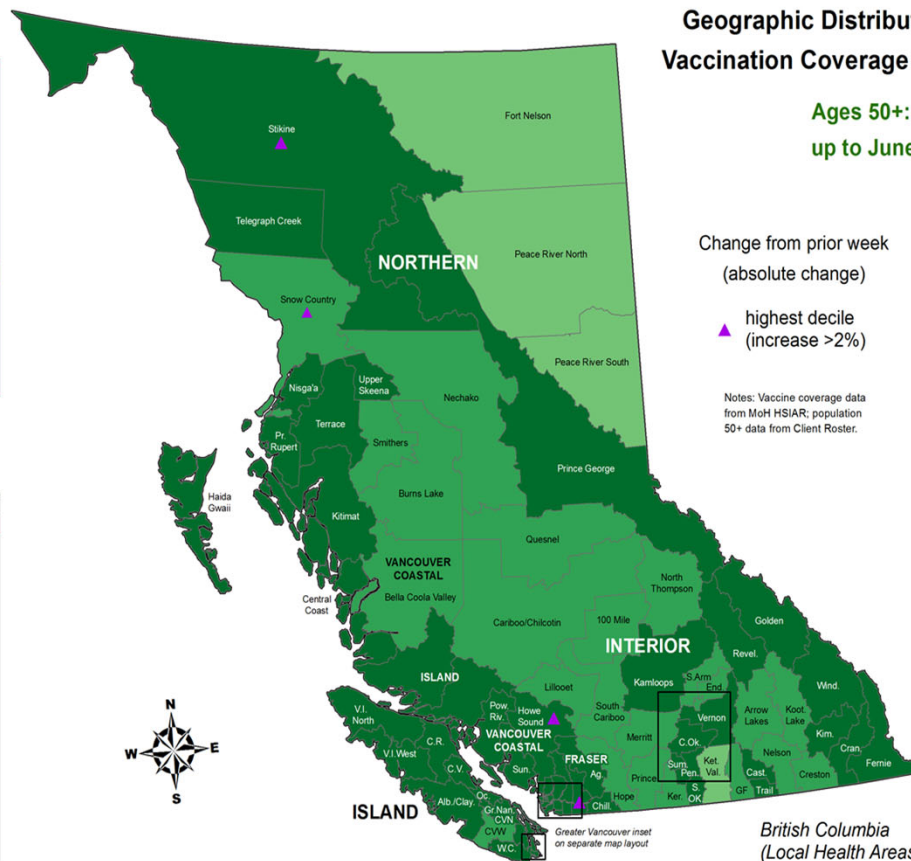
Greater Victoria Inset
(Community Health Service Areas)



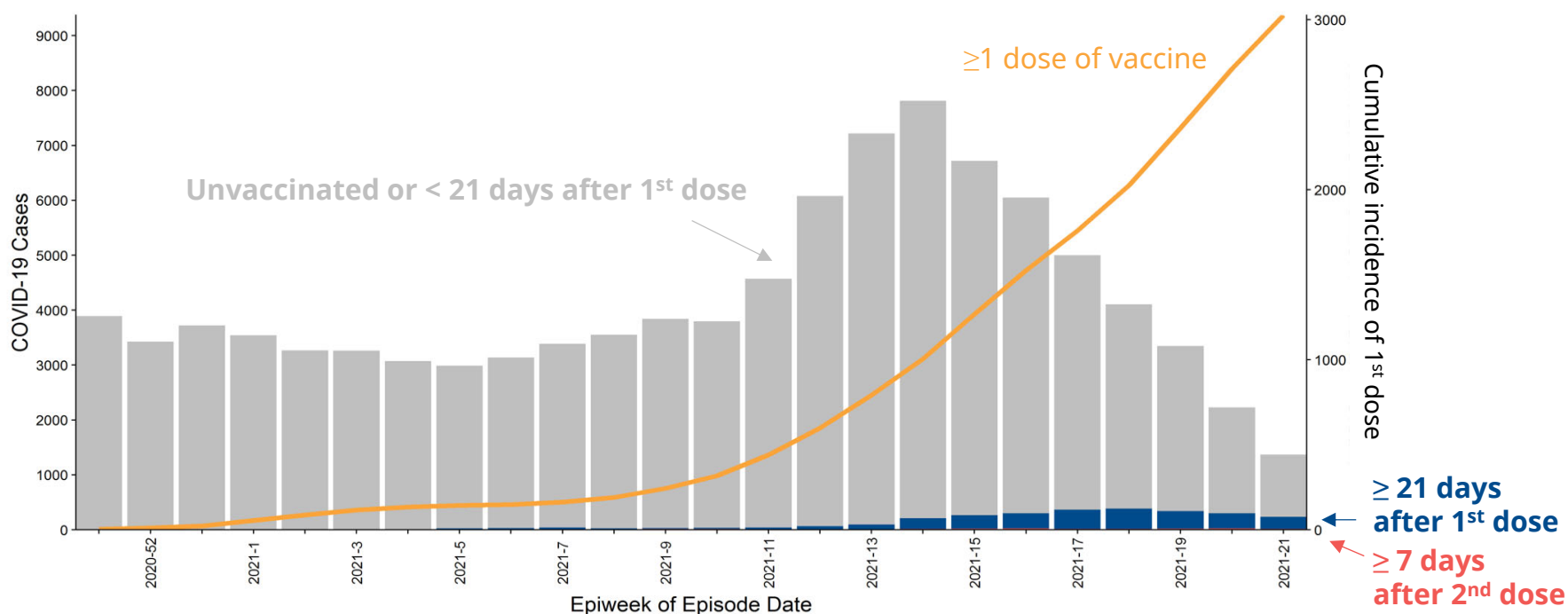
For latest version of this graph, see
[COVID-19 Surveillance Dashboard](#)

Geographic Distribution of COVID-19 Vaccination Coverage by LHA and CHSA

Ages 50+: 1st Dose
up to June 21, 2021

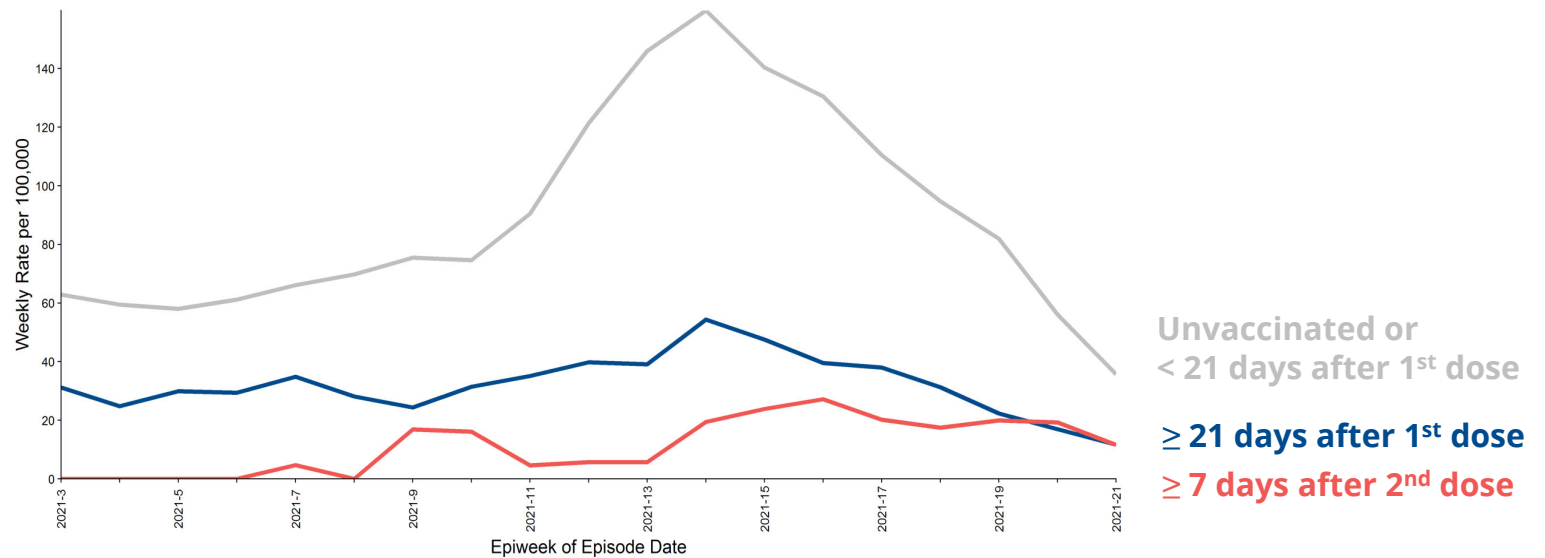


Weekly COVID-19 cases by vaccine status and cumulative population with at ≥ 1 dose of vaccine December 13, 2020 - May 29, 2021 (N=99,382)

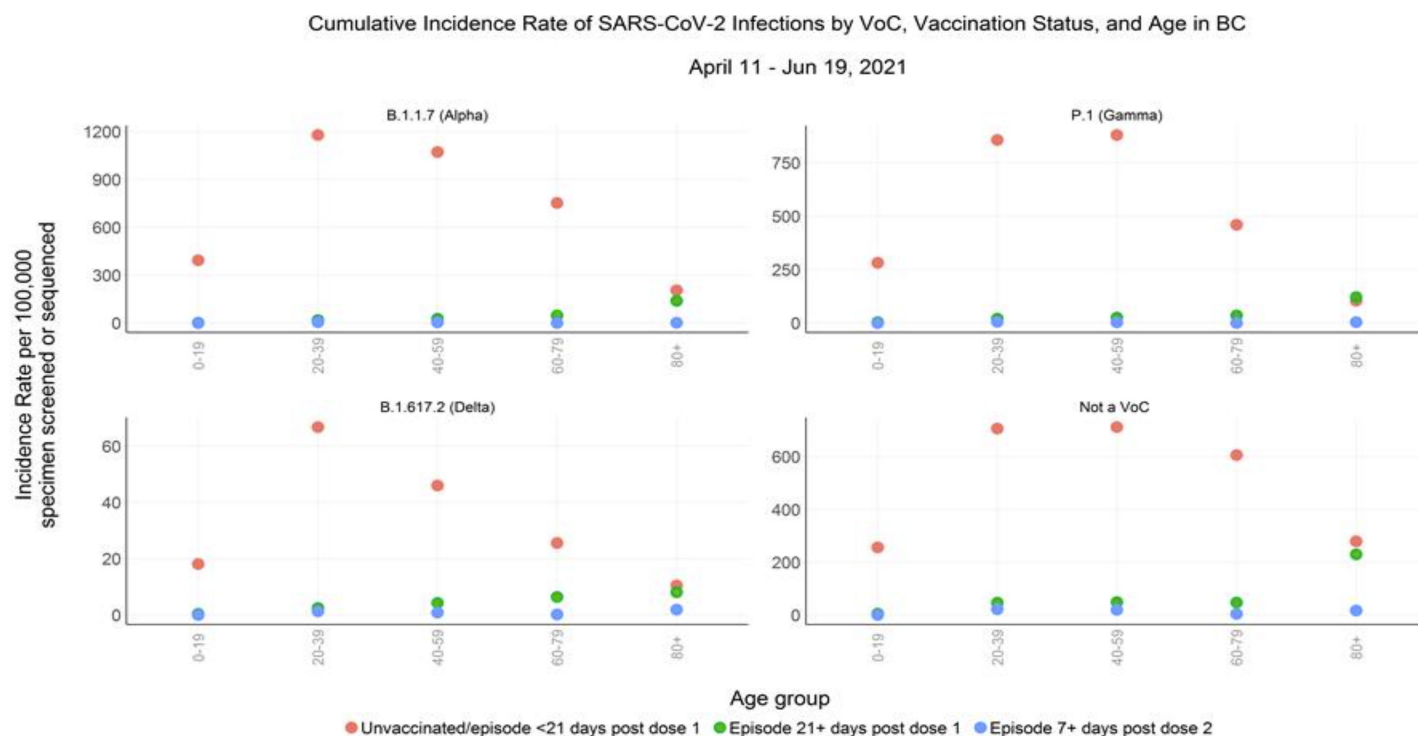


Weekly rate of COVID-19 by vaccine status January 17 - May 29, 2021 (N=81,531)

Rate of COVID has been higher among unvaccinated people than among vaccinated people



Cumulative Incidence of SARS-COV-2 Infection by VOC, age and vaccination status in B.C. (April 11-June 19, 2021)



COVID-19 IN BC



Preliminary 1st dose vaccine effectiveness (VE) against SARS-CoV-2 infection: mRNA (Pfizer/Moderna) and viral vector (Astrazeneca/COVISHIELD) vaccines, 50-69 year olds

Age Group: 50-69 year olds **VE study method:** Test-negative design*

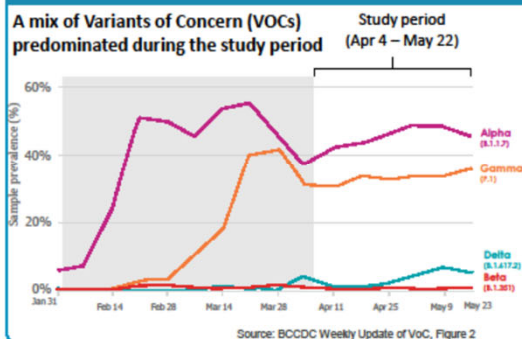
STUDY SIZE

~60,000
participants

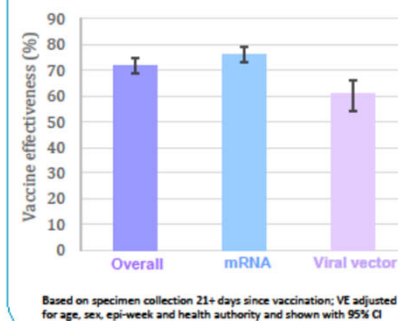
60% 50-59 y 40% 60-69 y

55% Women 45% Men

STUDY PERIOD: April 4 – May 22, 2021



VE by Vaccine Type



SUMMARY

During the spring 2021 pandemic wave when VOCs were predominating in BC, a single dose of vaccine (mRNA or viral vector) prevented 7 out of every 10 infections overall among adults 50-69 years old. Viral vector vaccines were initially prioritized for those at higher exposure risk which may partly explain the lower VE. Estimates for separate VOCs are underway but so far preliminary VE findings do not vary meaningfully on that basis.

Research led by Dr. Danuta Skowronski and the BCCDC Influenza and Emerging Respiratory Pathogens Team

*The "test-negative design" study method was co-developed by D. Skowronski (BCCDC) and G. De Serres (INSPQ) for influenza VE monitoring and is now used around the world for this purpose and also now for COVID-19 VE monitoring

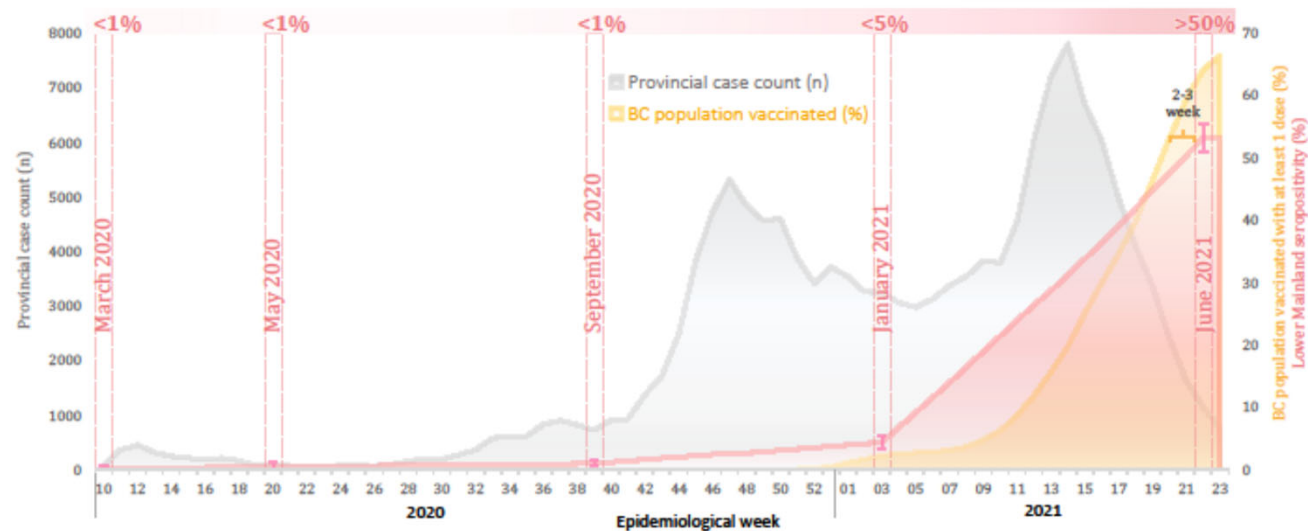
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Cases dropped as vaccine coverage increased and the percentage of British Columbians with SARS-CoV-2 antibodies increased from <5% in January to >50% by June, 2021

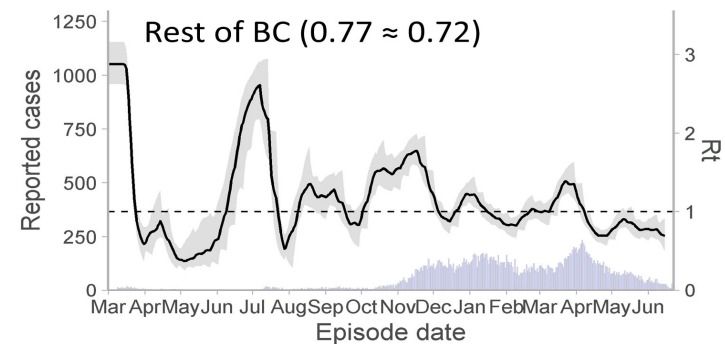
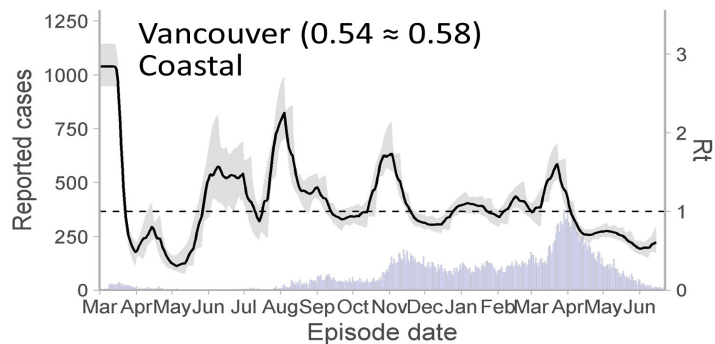
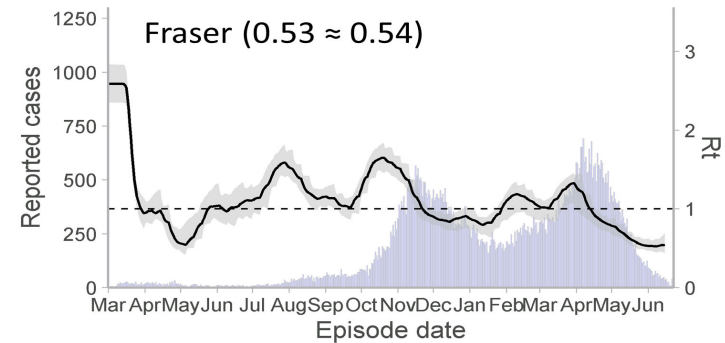
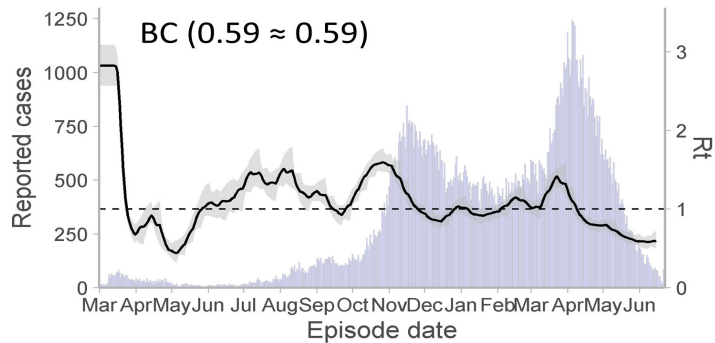
>5000 Lower Mainland sera tested in 5 sero-surveys: March/May/Sept 2020 and in Jan/June 2021

% of residents with SARS-CoV-2 antibodies, by sero-survey



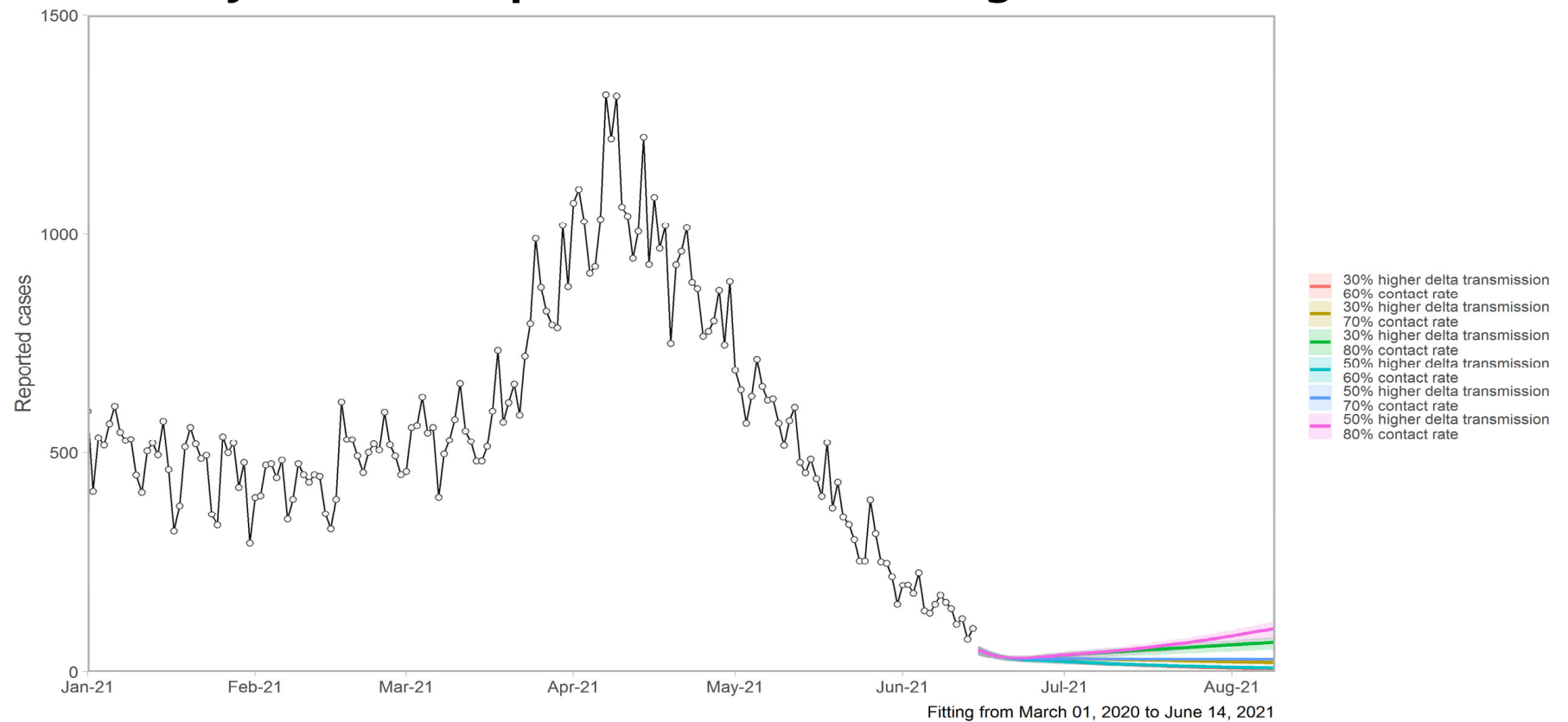
Antibody screening study led by Drs. Danuta Skowronski and Mel Krajden of the BC Centre for Disease Control (BCCDC) and BCDC Public Health Laboratory (PHL), in partnership with LifeLabs. Funded by the Michael Smith Foundation for Health Research and the Public Health Agency of Canada (PHAC). Views expressed herein do not necessarily represent the views of PHAC. Results are preliminary.

Dynamic Compartmental Modelling: recent trends



Solid black line: median R_t , modeled using all reported cases up to June 22, 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 \rightarrow this week). Data source: BCCDC HA linelist.

Dynamic Compartmental Modelling: recent trends



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Symptom Self-Assessment:

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