

BCCDC Data Summary

14 October 2021

Purpose

The surveillance deck is a summary of COVID-19 related indicators that can help inform the pandemic response in British Columbia. This surveillance monitoring constitutes the medical chart for population health assessment that guides the public health community of practice. As such this is a working document that reflects a snapshot in time and may differ from other published reports.

Data Sources

The collection, use and disclosure of case data is subject to the Public Health Act. COVID-19 cases are reported under the Public Health Act to the health authority of residence. Public health case notification, clinical management, contact tracing and follow-up contributes surveillance data for regional and provincial COVID-19 monitoring. Each regional health authority have their own workflows and information systems for capture of relevant data. This data foremost serves the public health and clinical management of the case and their contacts.

Disclaimer

- Data and key messages within these documents are not finalized and considered to be work in progress that is subject to retroactive changes as more data and information become available.
- Accurate interpretation of figures may be difficult with the limited inclusion of data notes and methodology descriptions in this document.

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Overall Summary for surveillance data to Oct 12

- The majority of new cases and hospitalizations are among unvaccinated individuals.
- New hospitalizations are elevated and stable provincially; hospital/critical care census is stable provincially, but there is variation across BC; new deaths are low but slowly increasing.
- Hospitalization rates among children continue to remain very low.
- Case rates are elevated and stable in NH, decreasing in IH and VCH, and stable in FH and VIHA.
 - All health authorities have local health regions with high case rates
- Test positivity among public tests is stable (~6% provincially), and is high and stable in NH (18%).
 - Testing rates are high and continue to increase in children (<18 years) and adults 30-44 years.
- Vaccine coverage in BC, 12 Oct, 1 dose (2 doses): 79% (74%) of total population, 89% (83%) of 12+ eligible population. Lower vaccine coverage in Interior and Northern and among younger individuals.
- The Delta variant continues to account for ≈100% of all positive tests in BC.

Oct 07 to Oct 12: BC COVID-19 Profile



195,186 total cases
4,062 new this week



2,033 total deaths
41 new this week

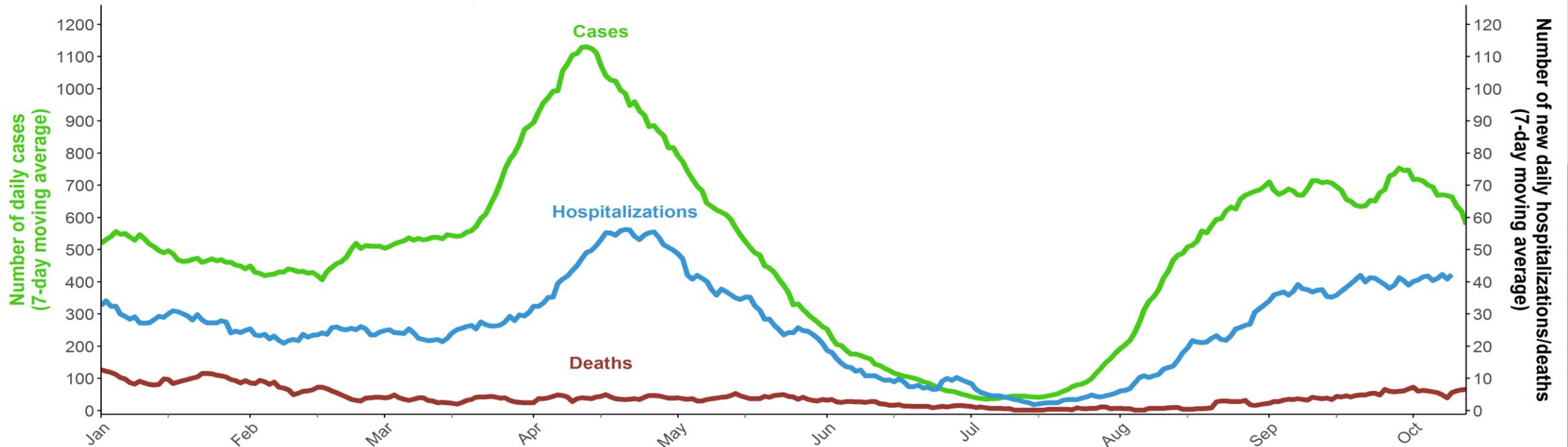


10,468 ever hospitalized
306 new this week



187,564 removed from isolation
4,778 new this week

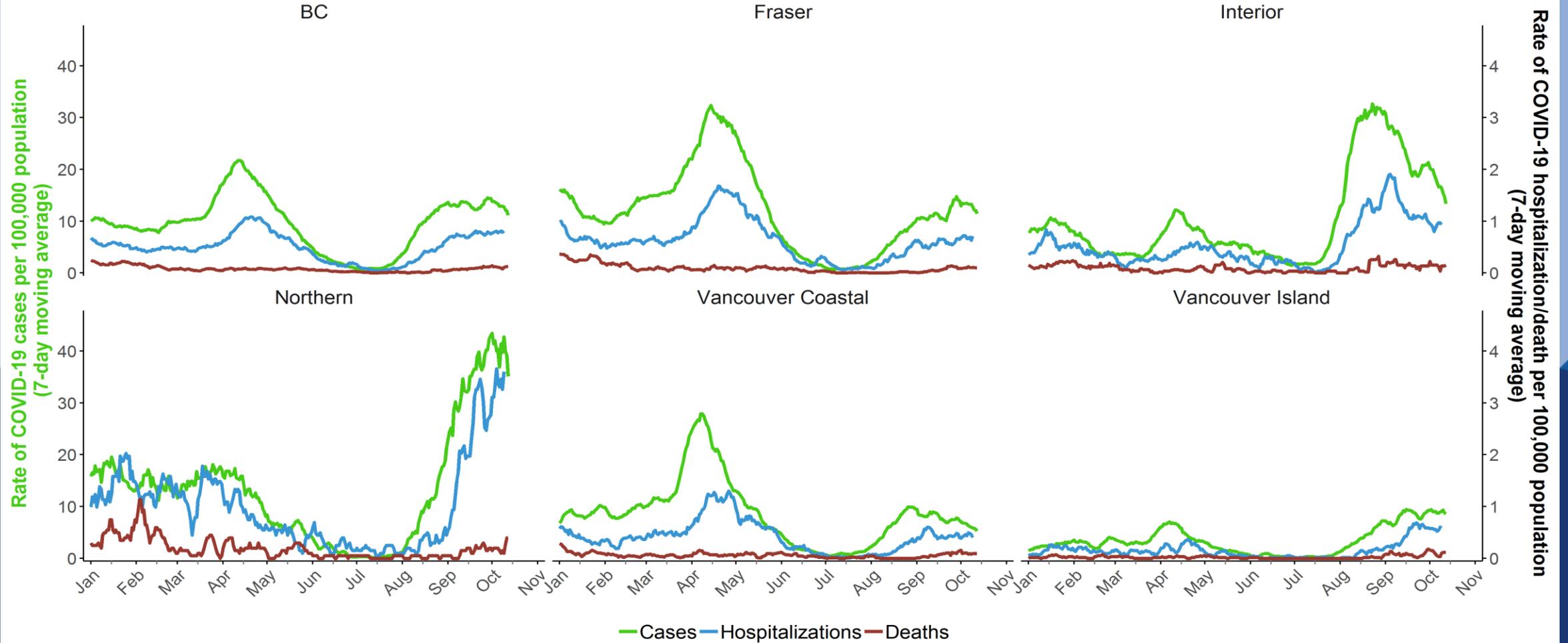
New daily COVID-19 cases, hospitalizations and deaths, Jan 01 2021 - Oct 12 2021



* Data are by surveillance date for cases and deaths, and admission date for hospitalizations
Data source: PHRDW Oct-13-2021

Case rates are elevated and stable and new hospitalizations are elevated and rising slowly at provincial level, but trends differ by HA ; new deaths are low but slowly increasing.

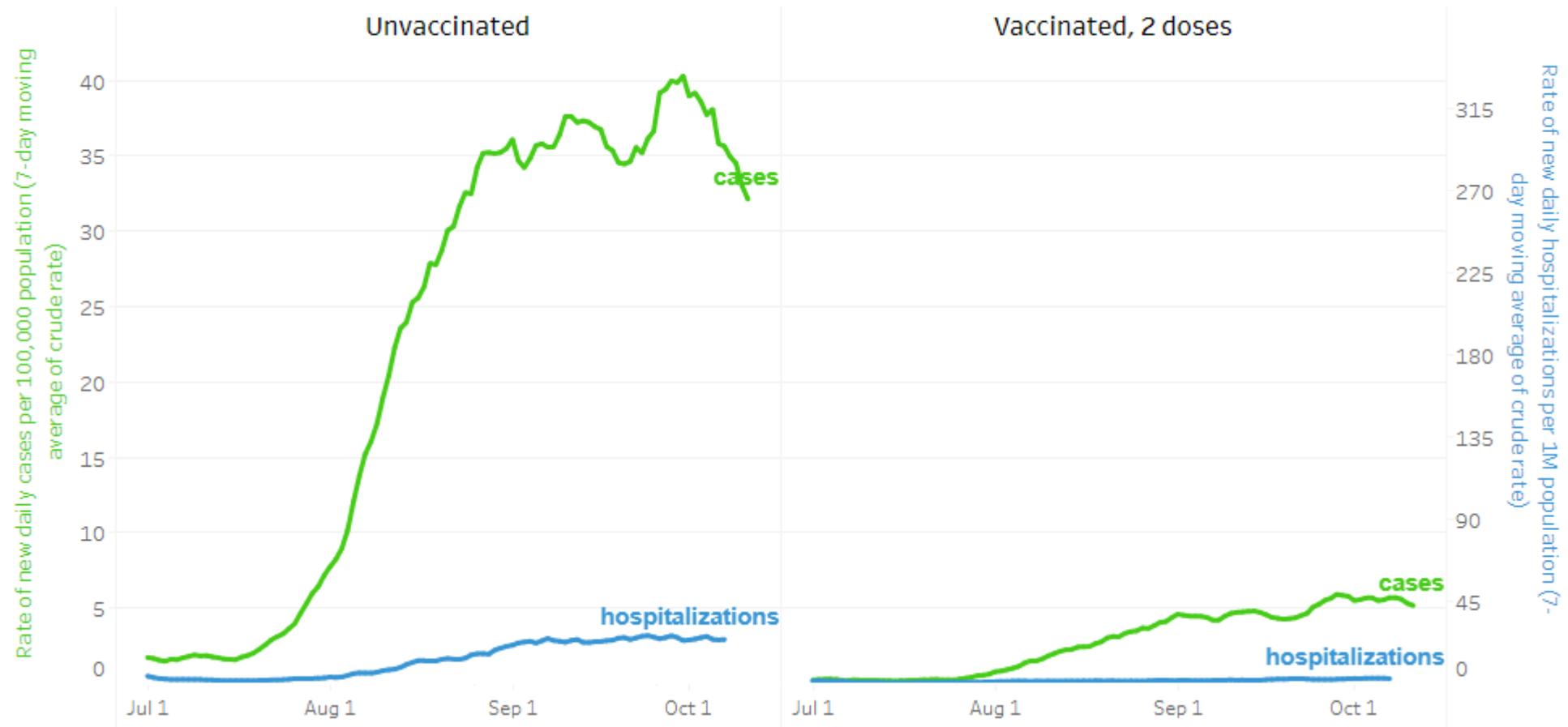
Rate of COVID-19 case, hospitalization and death, Jan 01 2021 - Oct 12 2021



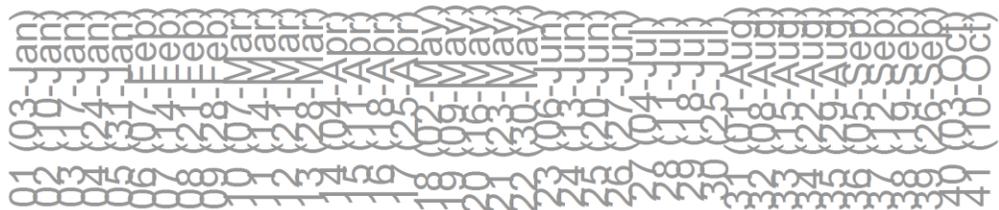
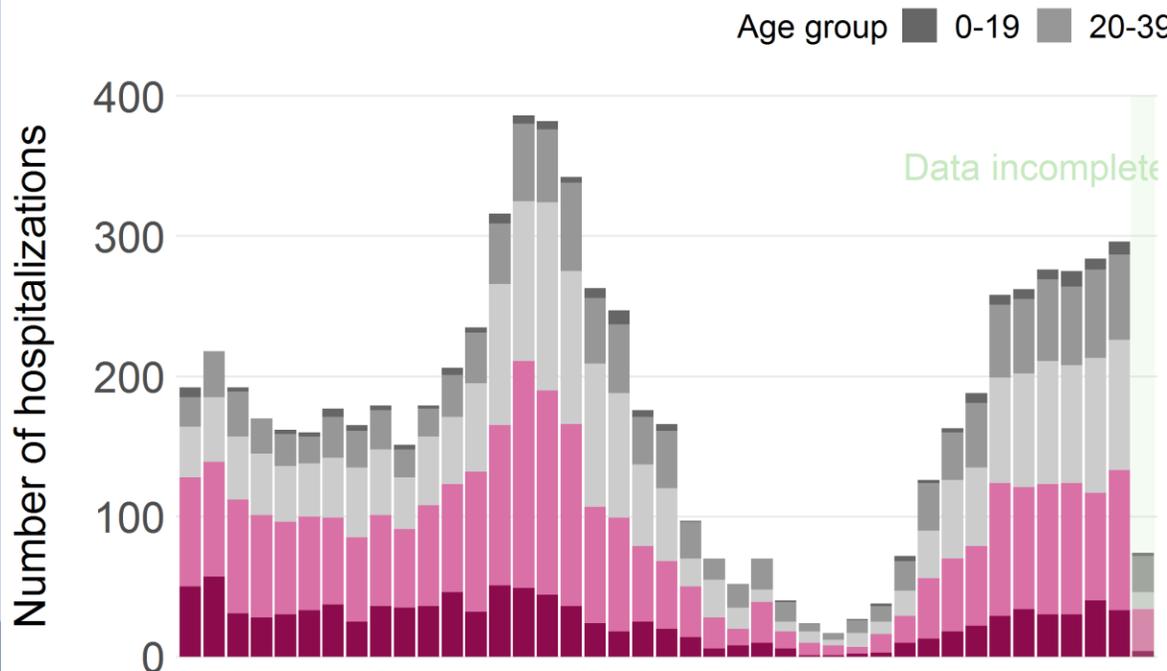
* Data are by surveillance date for cases and deaths, and admission date for hospitalizations
Data source: PHRDW Oct-13-2021

The majority of new cases and hospitalizations continue to be among unvaccinated individuals

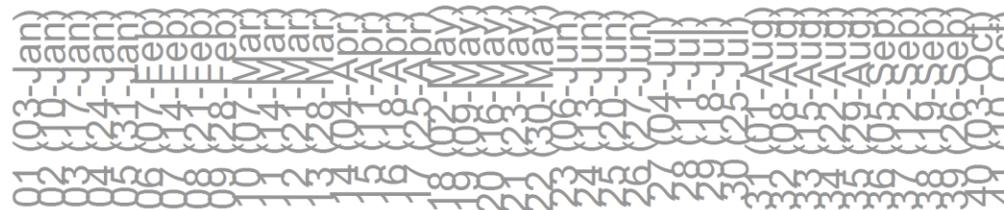
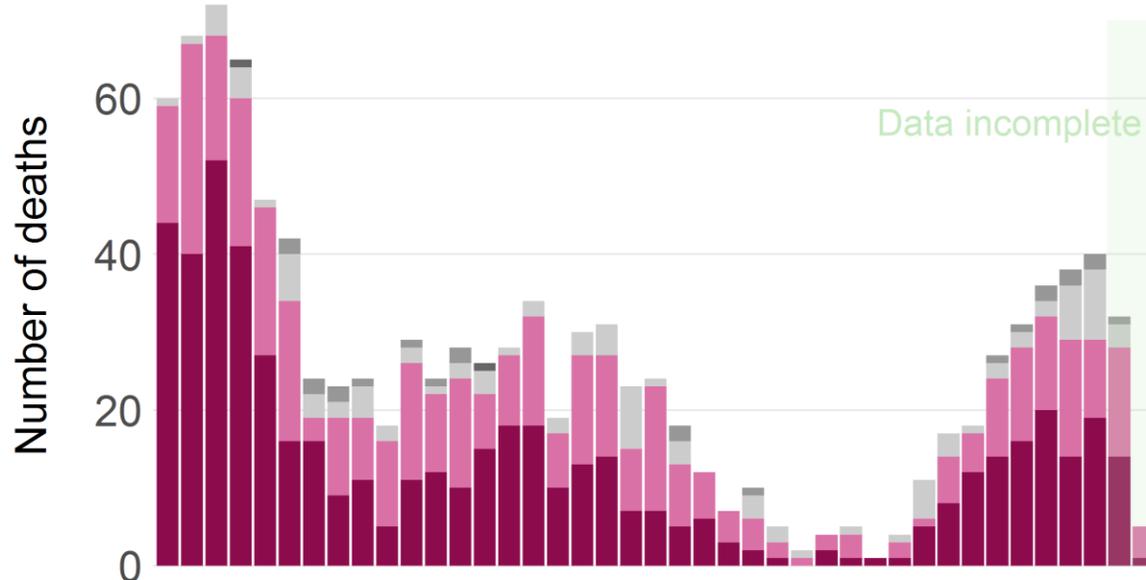
Case and Hospitalization Rate, BC, all ages, Jul. 01 - Oct. 11



Number of new hospital admissions is elevated and rising slowly. Deaths are low, but have increased in individuals 40-59 years in last couple of weeks.



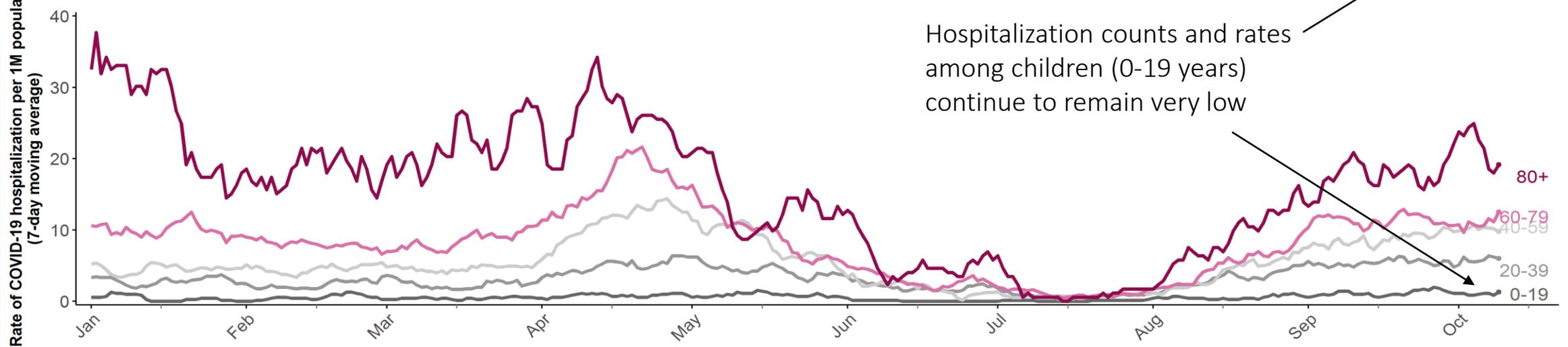
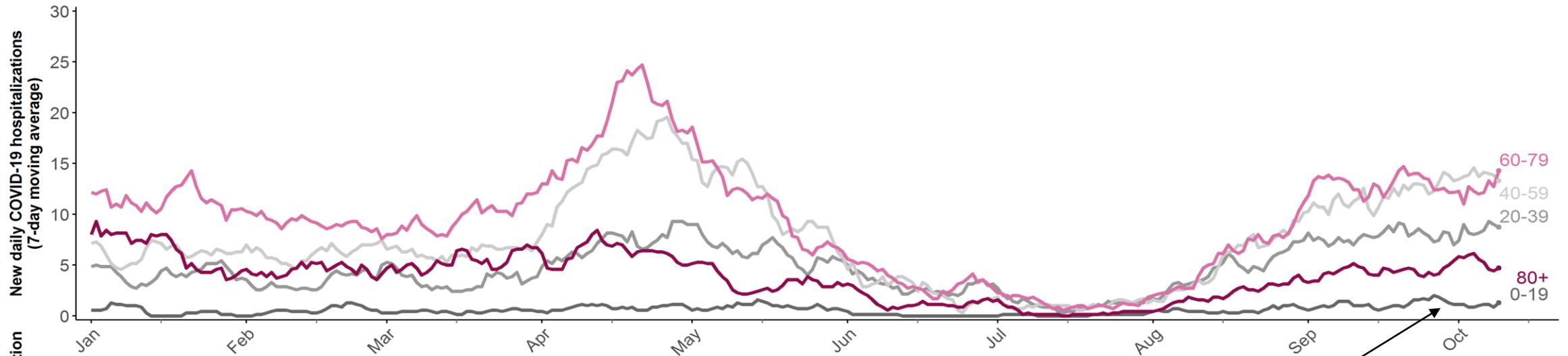
2021 Epi week of admission date
(epi week start date)



2021 Epi week of death date
(epi week start date)

Data extracted on 2021-10-13; hospitalization and death data from health authority case line list data

Trends in number and rate of new hospitalizations by age group, BC, 1 Jan – 9 Oct 2021



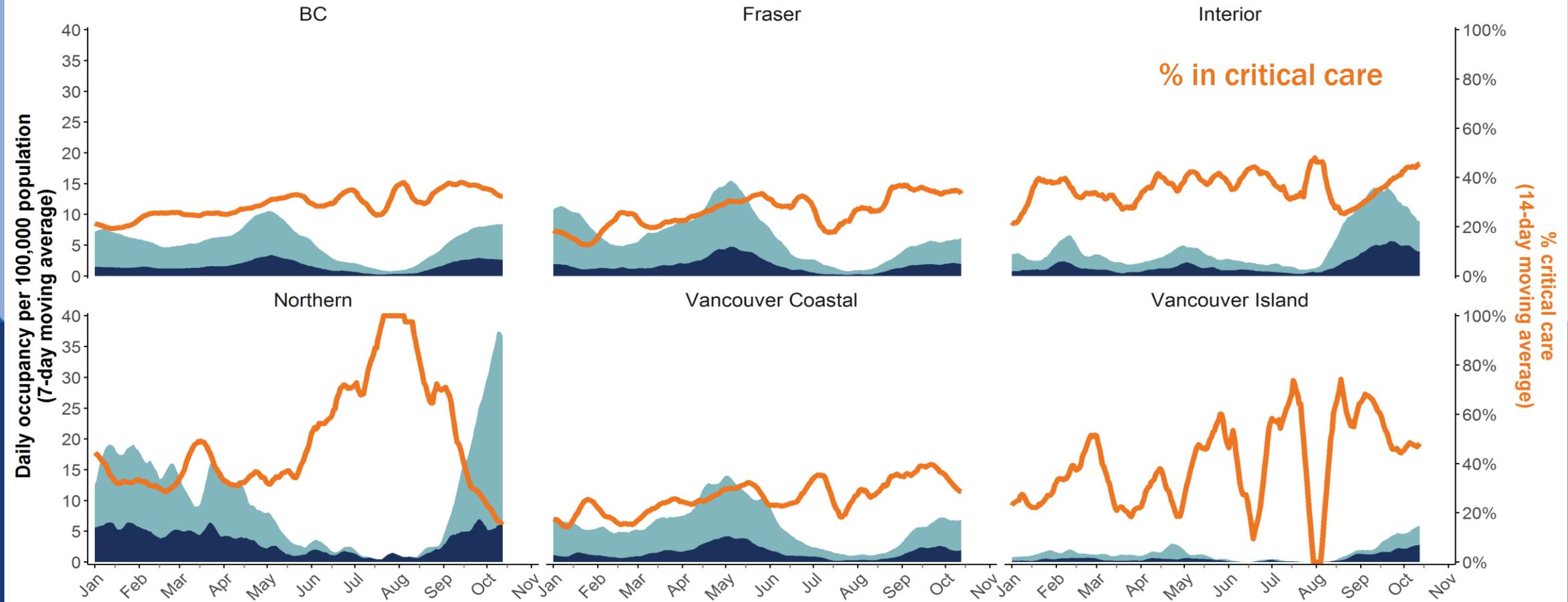
Hospitalization counts and rates among children (0-19 years) continue to remain very low

Date range: Jan 01 2021 - Oct 09 2021

Critical care census is stable across province. Hospital census is elevated in NH, elevated and decreasing in IH, low and increasing in VIHA, and stable in FH and VCH.

Current COVID-19 hospitalizations in BC, Jan 01 2021 - Oct 12 2021

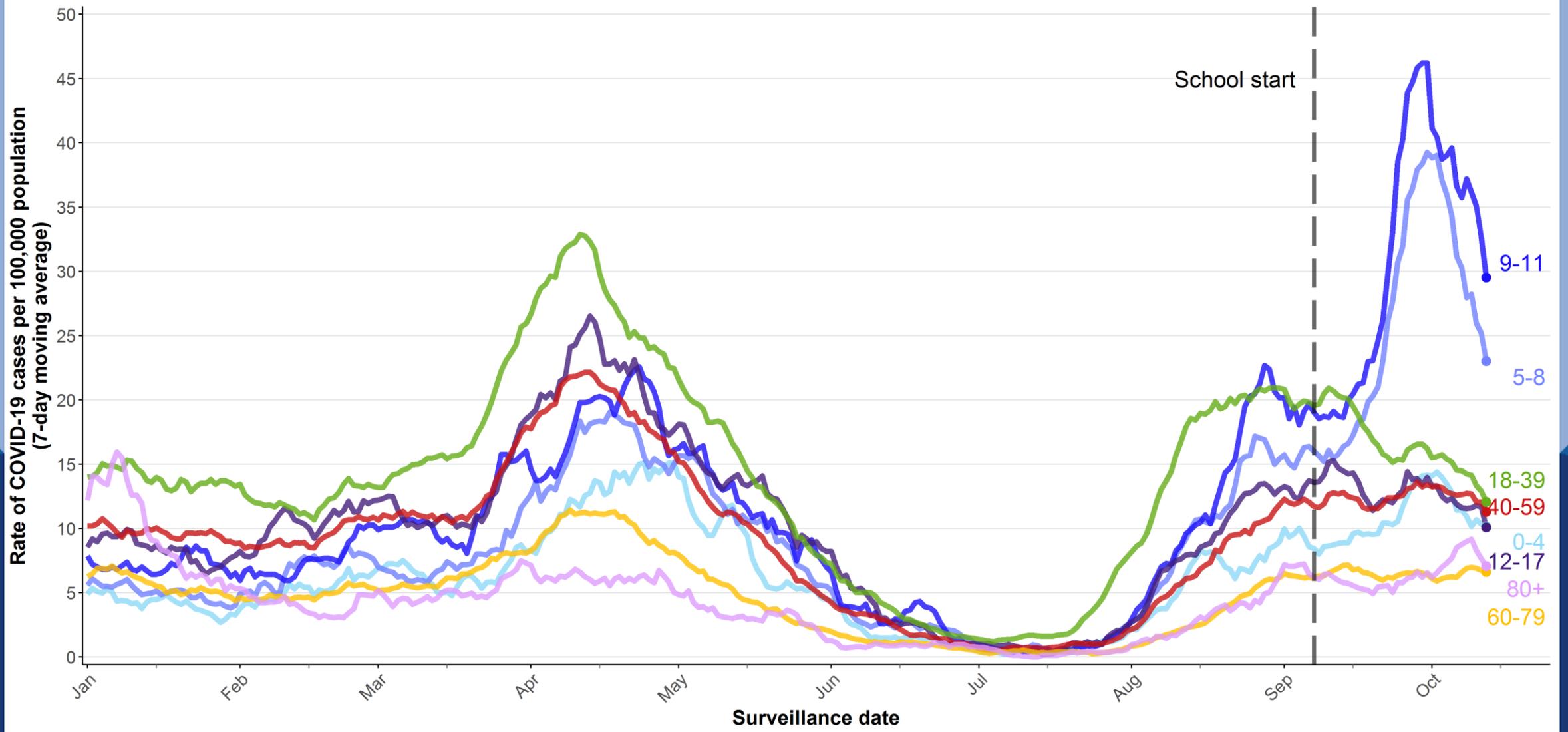
In the hospital but not in critical care In critical care



* Data are by census date for hospitalizations
Data source: PHSA Provincial COVID19 Monitoring Solution (PCMS) Oct-13-2021

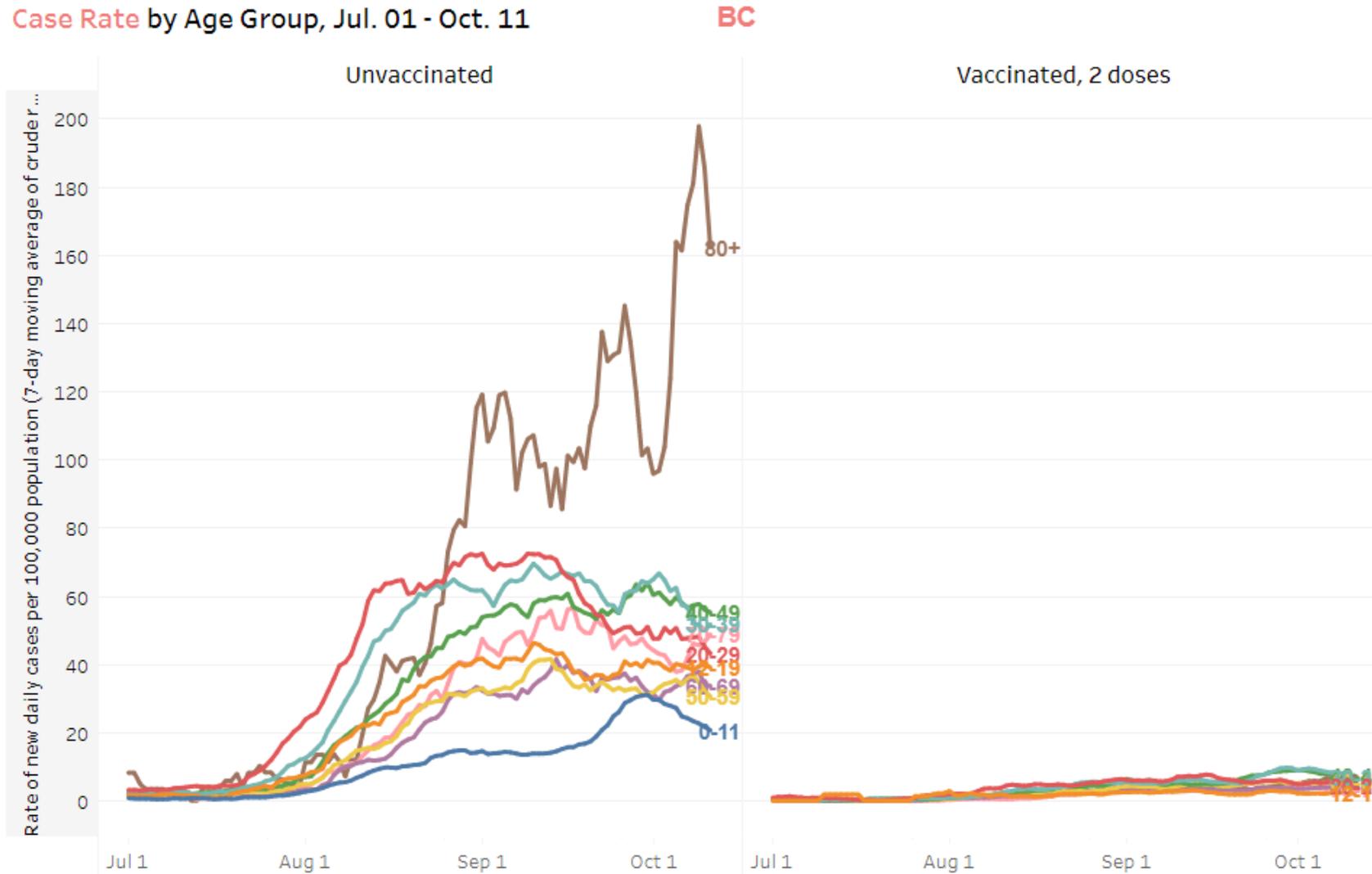
Incidence among 0-11 year olds is elevated, but decreasing.

Note: testing rates among children are very high, see slides 44 and 45

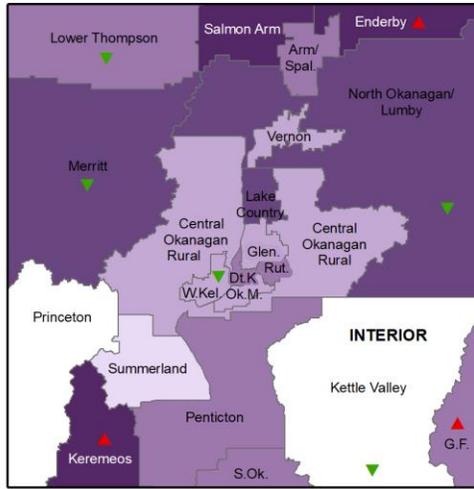


* Data based on surveillance date (i.e. lab result date, or when not available, date reported to public health)
Data range: Jan 01 2021 - Oct 12 2021

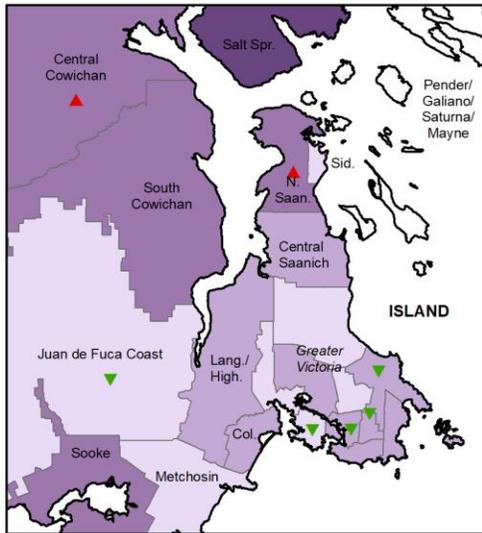
For all age groups, those who are vaccinated have very low case rates. Among those unvaccinated, case rate is the lowest in the 0-11 age group even with higher testing rates.



Okanagan Inset
(Community Health Service Areas)

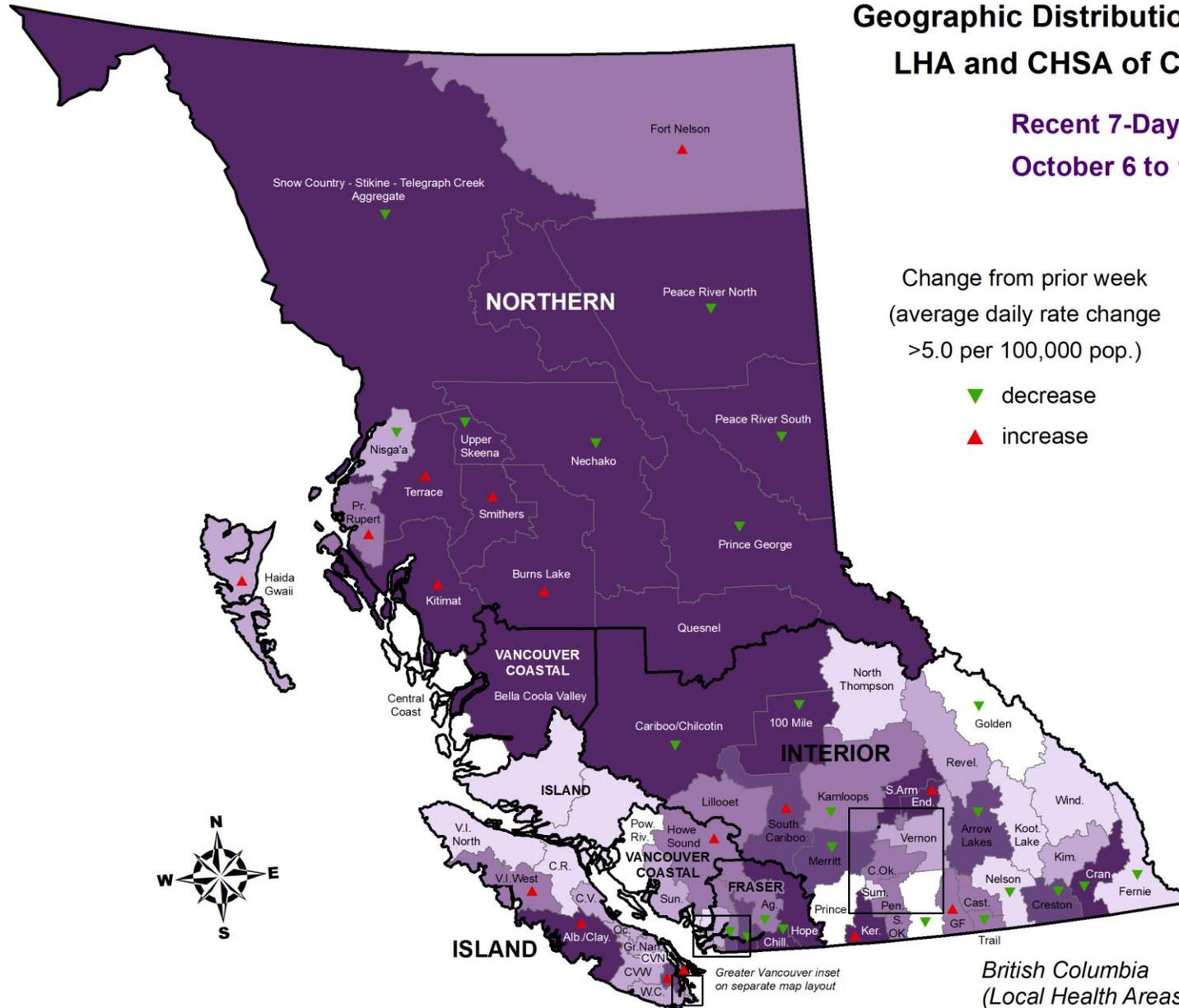


Greater Victoria Inset
(Community Health Service Areas)



Geographic Distribution of COVID-19 by LHA and CHSA of Case Residence

Recent 7-Days Cases
October 6 to 12, 2021



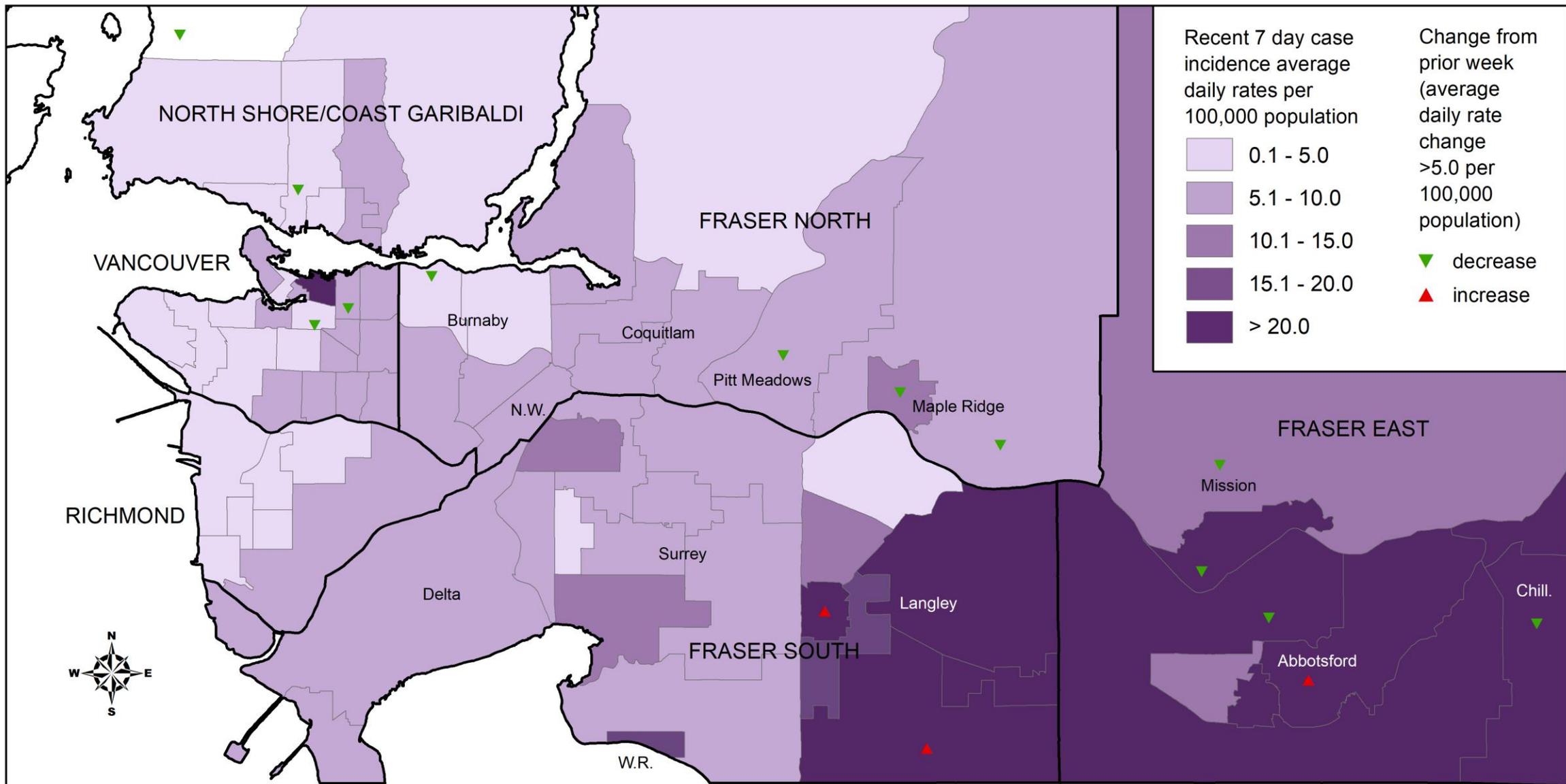
Change from prior week
(average daily rate change
>5.0 per 100,000 pop.)

- ▼ decrease
- ▲ increase

Average daily rate per
100,000 population

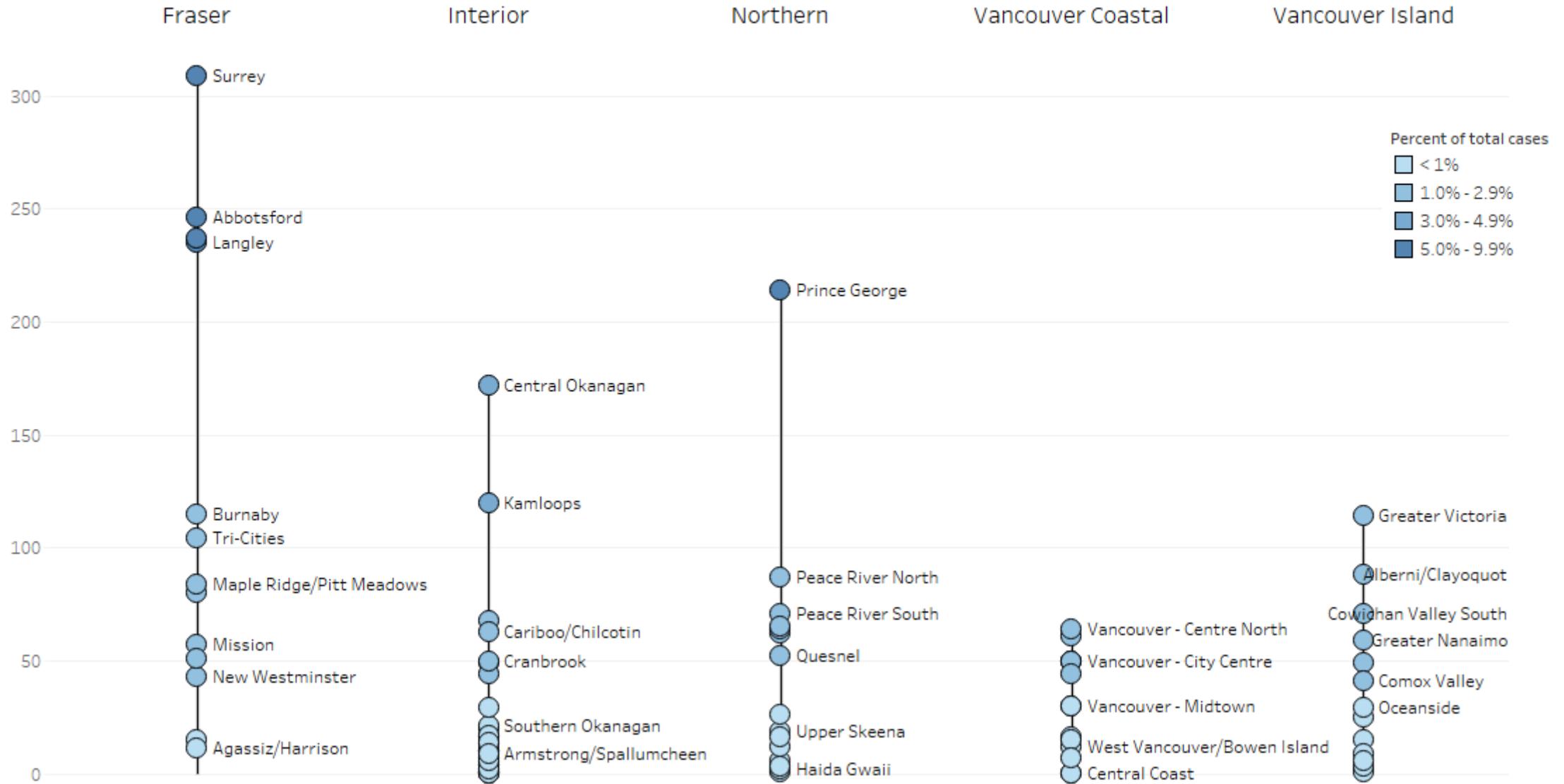
- 0.0
- 0.1 - 5.0
- 5.1 - 10.0
- 10.1 - 15.0
- 15.1 - 20.0
- > 20.0

Data source: Public Health Reporting Data Warehouse (PHRDW) integrated COVID dataset; we operate in a live database environment and case information is updated as it becomes available. Cases are mapped by location of residence; cases with unknown residence and from out of province are not mapped. Data are by date of first positive test, or date reported to public health for epi-linked cases. Population denominator from BC Stats PEOPLE estimates for 2021.

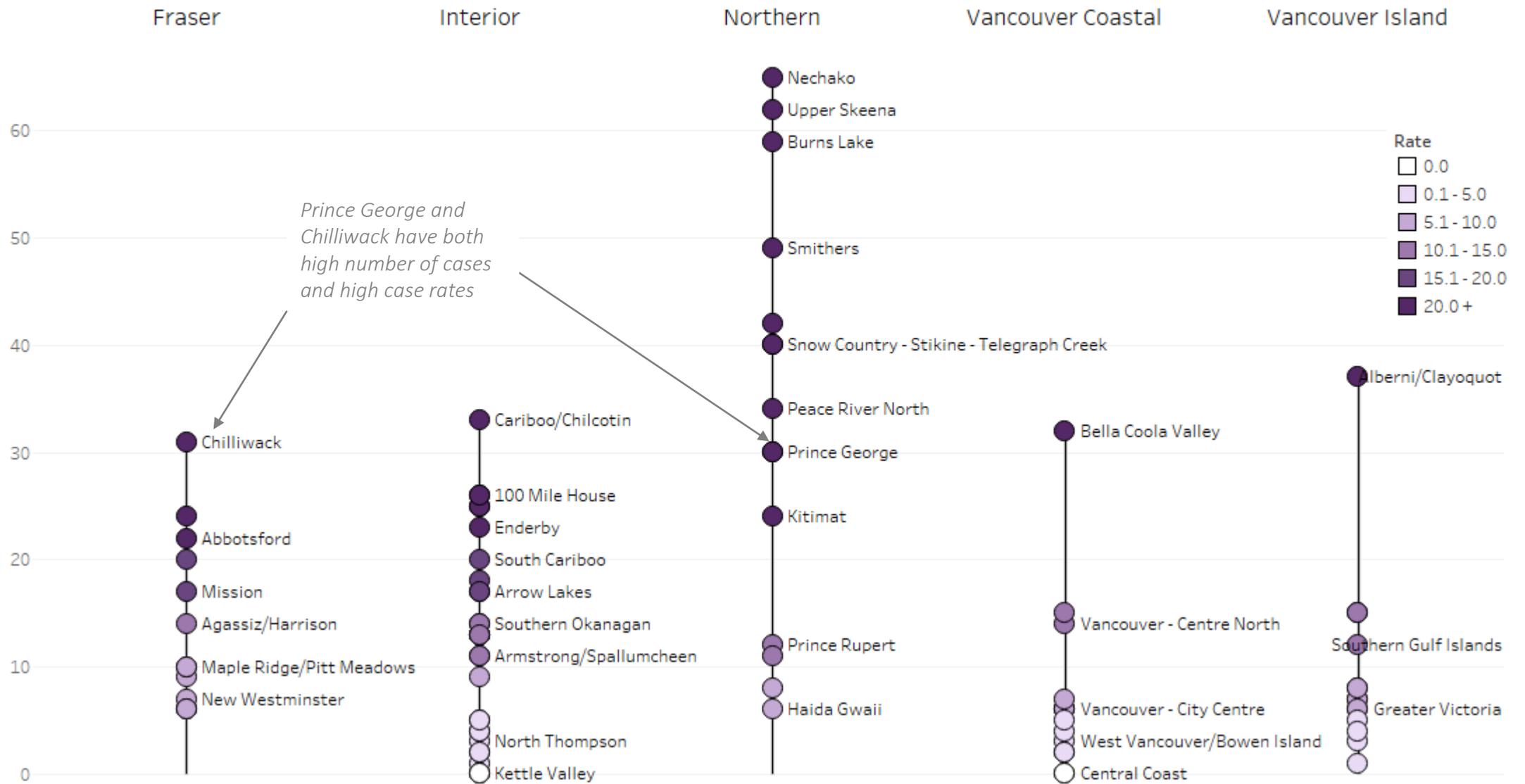


COVID-19 Recent 7-Day Case Incidence Rates by CHSA (October 6 to 12, 2021)

Total cases by local health area, Oct 06 - Oct 12, 2021



Average daily case rate of new cases per 100,000 population, by local health area, Oct 06 - Oct 12, 2021

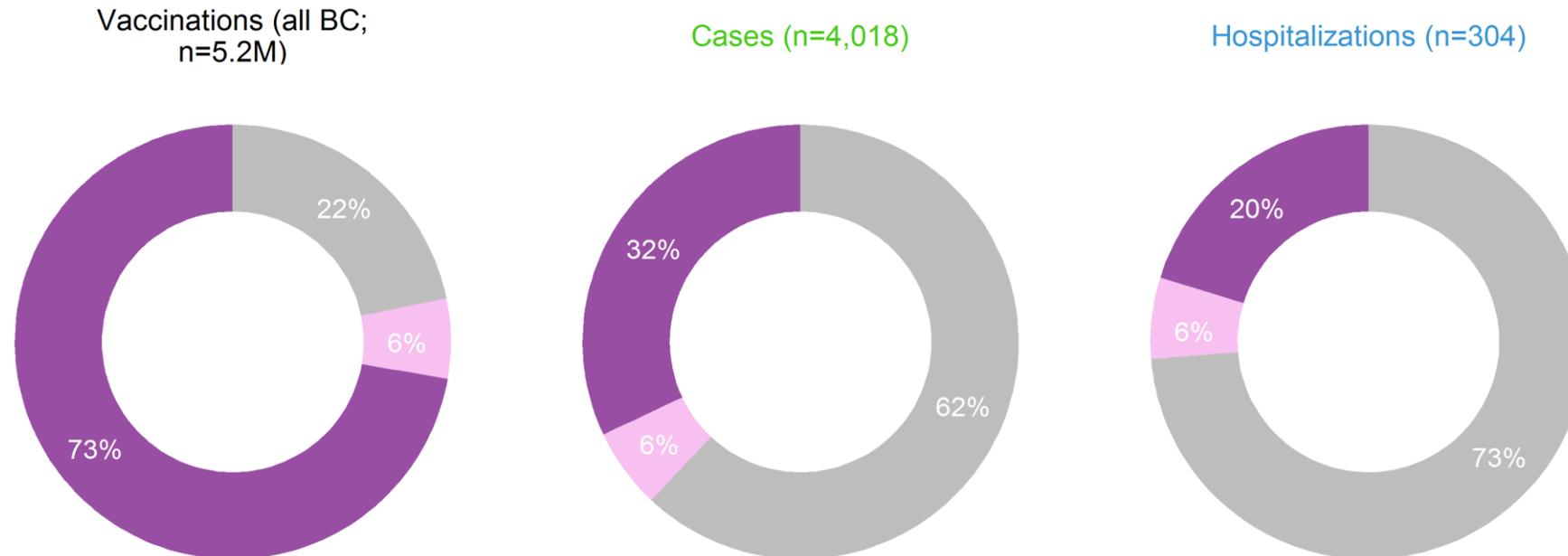


Key messages – Outcomes by vaccine status

- Most of the recent cases and hospitalizations continue to be among unvaccinated individuals
- Based on data over the last 4 weeks, compared with fully vaccinated individuals and after adjusting for age differences, unvaccinated individuals are
 - $\approx 9x$ more likely to become a case
 - $\approx 40x$ more likely to be hospitalized
 - $\approx 41x$ more likely to die
 - NB: relative rates fluctuate over time and do not represent vaccine effectiveness
- Unvaccinated: no dose or not yet protected (<3 weeks since receipt of 1st dose; <10% of unvaccinated cases)
- Partially vaccinated = 1 dose: ≥ 3 weeks since receipt of 1st dose and <2 weeks after 2nd dose
- Fully vaccinated = 2 doses: 2 weeks or more after receipt of 2nd dose

Over the past **week**, fully vaccinated individuals represented **73%** of BC's total population, but accounted for only **32%** of cases and **20%** of hospitalizations.

These % fluctuate over time. There are many more vaccinated individuals than unvaccinated individuals, and thus it is important to take the denominator into account. These figures do not represent vaccine effectiveness.



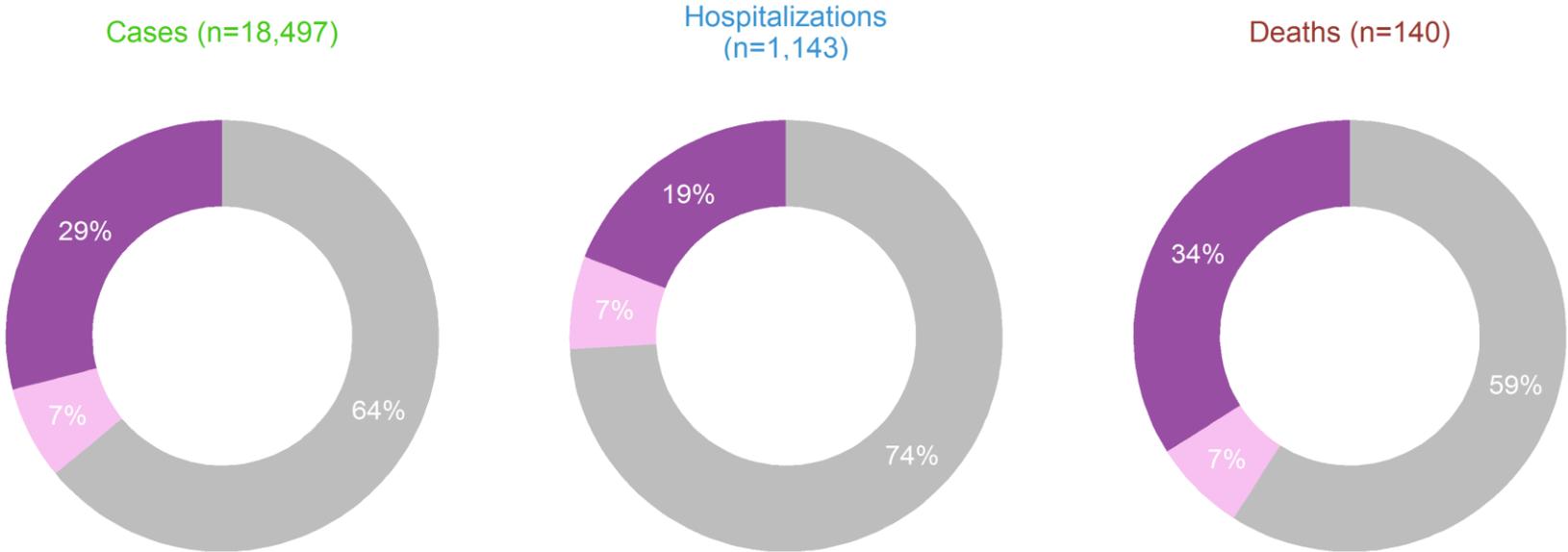
■ Unvaccinated ■ Vaccinated, 1 dose ■ Vaccinated, 2 doses

Data include cases from Oct 07-Oct 13, and hospitalizations from Oct 04-Oct 10, 2021

We operate in a live database environment and data get updated retrospectively. These figures were run on Thursday Oct 14 and may differ slightly from previously reported counts. Cases are captured based on surveillance date. Hospitalizations are by admission date. Please note that there is often a multiple-days lag in recording hospitalizations, e.g. some hospital admissions that occurred on Sept 24th may not be captured by our surveillance system until Sept 29th.

Over the past **month**, fully vaccinated individuals accounted for **29%** of cases and **19%** of hospitalizations.

These % are expected to increase over time as more people get fully vaccinated and there are fewer unvaccinated people. If 100% of population gets fully vaccinated (which is almost the case for many long term care residents for example), then any new cases, hospitalizations, or deaths will be among vaccinated people.



■ Unvaccinated ■ Vaccinated, 1 dose ■ Vaccinated, 2 doses

Data include cases from Sep 16-Oct 13, and hospitalizations from Sep 13-Oct 10, 2021

A large proportion of deaths is among older (80+) individuals, >90% of whom are fully vaccinated, which explains the higher relative % of deaths among the fully vaccinated.

We operate in a live database environment and data get updated retrospectively. These figures were run on Oct 14th and thus will differ slightly from previously reported counts. Cases are captured based on surveillance date. Hospitalizations are by admission date. Deaths are by date of death. Please note that there is often a multiple-days lag in recording hospitalizations and deaths, e.g. some hospital admissions that occurred on Sept 24th may not be captured in our surveillance system until Sept 29th.

COVID-19 health outcomes by vaccination status and age, BC, Sep 13 – Oct 10, 2021

Trend in % total population vaccinated with at least 1 dose



Vaccinations (all BC; n=5.2M)



Trend in daily cases per 1M



Cases (n=18,497)



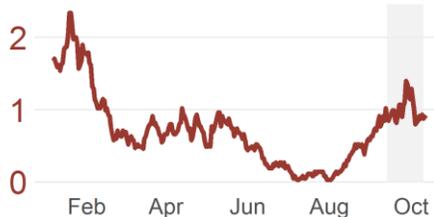
Trend in daily hospitalizations per 1M



Hospitalizations (n=1,143)



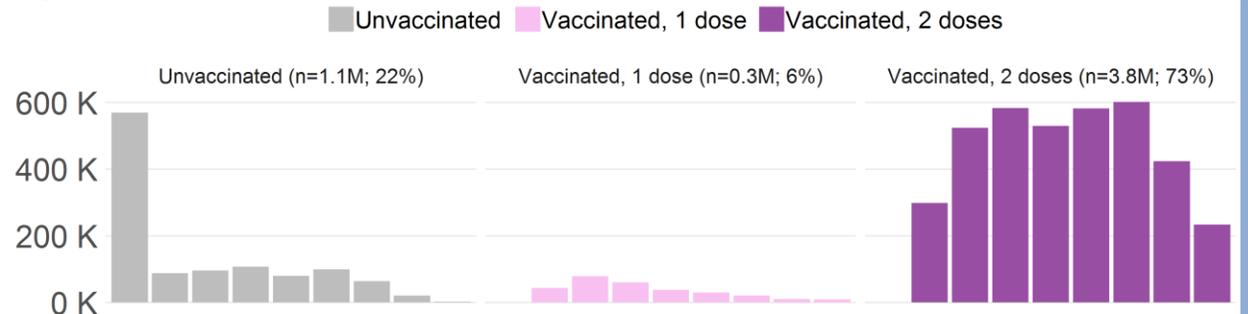
Trend in daily deaths per 1M



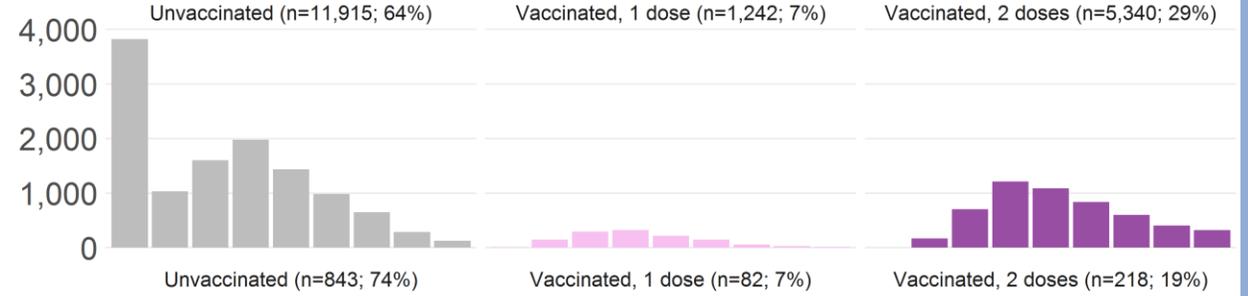
Deaths (n=140)



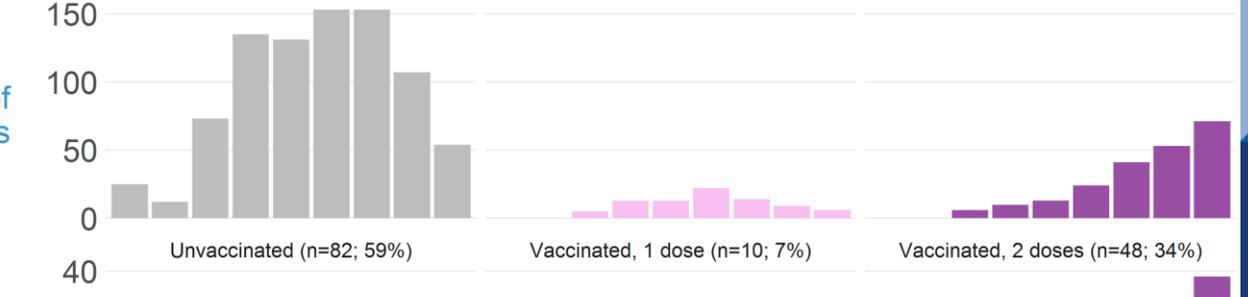
Number of people



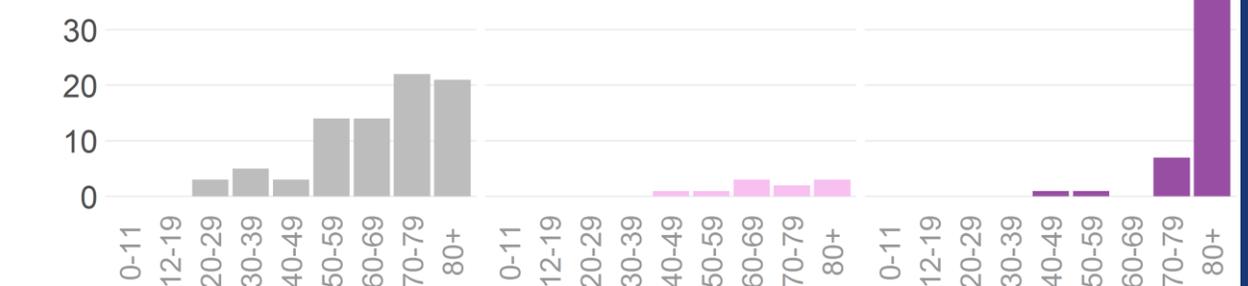
Number of cases



Number of hospitalizations



Number of deaths

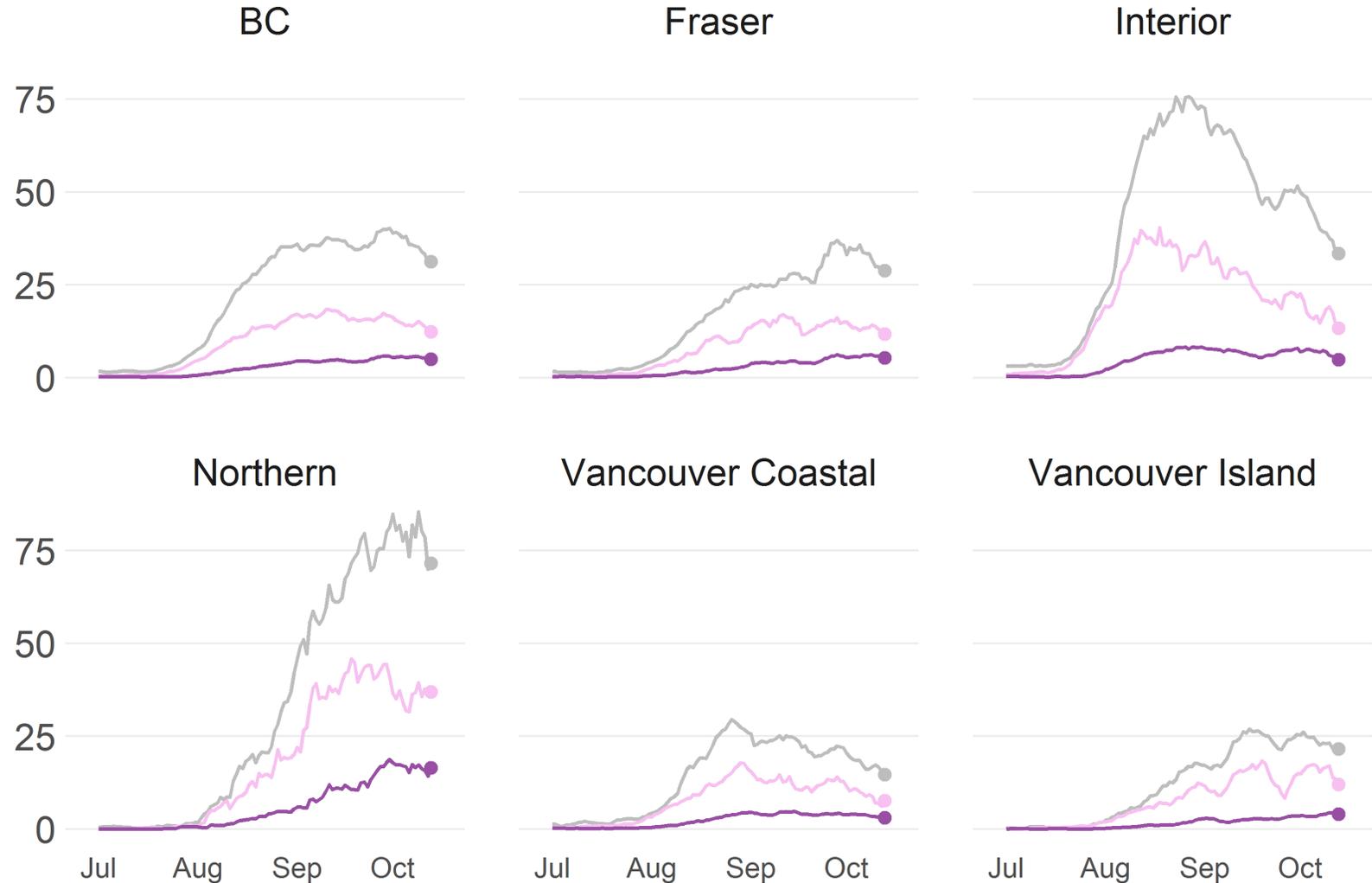


*Figures include cases from Sep 16-Oct 13, and hospitalizations and deaths from Sep 13-Oct 10, 2021

COVID-19 case rate by vaccination status and Health Authority, July 1 – Oct 14, 2021

● Unvaccinated* ● Vaccinated, 1 dose ● Vaccinated, 2 doses

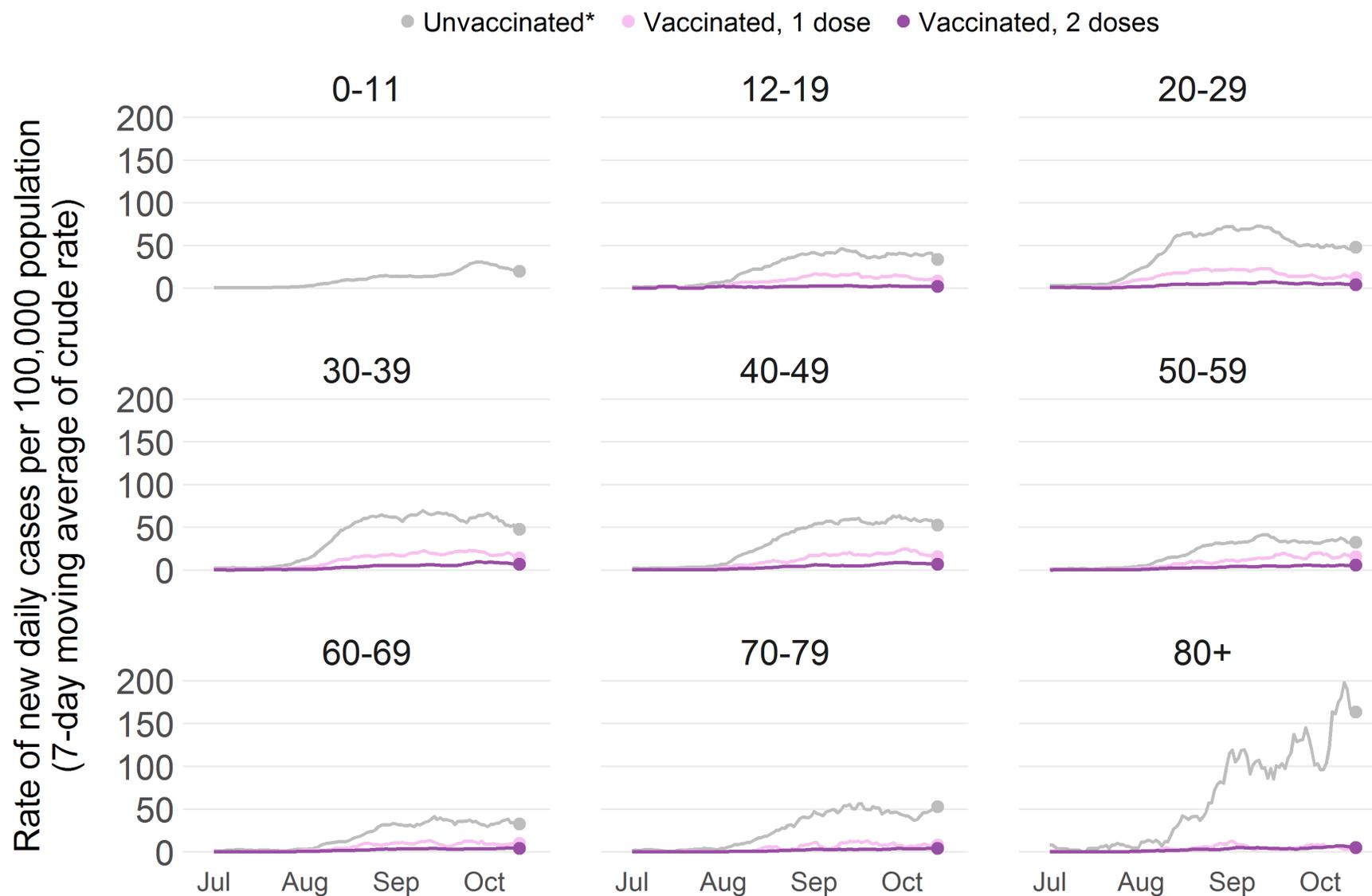
Rate of new daily cases per 100,000 population (7-day moving average of crude rate)



Denominators for each vaccine status group are dynamic and change daily as people flow from being unvaccinated to protected by 1 dose to protected by 2 doses. Therefore, the denominators are different across groups and over time.

*Unvaccinated includes cases who have received 1 dose but not yet protected (episode date <21 days after 1st dose administration date); These represent 7% of the total unvaccinated cases since 1 July 2021.
Data extracted from health authority case line list on 14 Oct 2021

COVID-19 case rate by vaccination status and age, July 1 – Oct 14, 2021

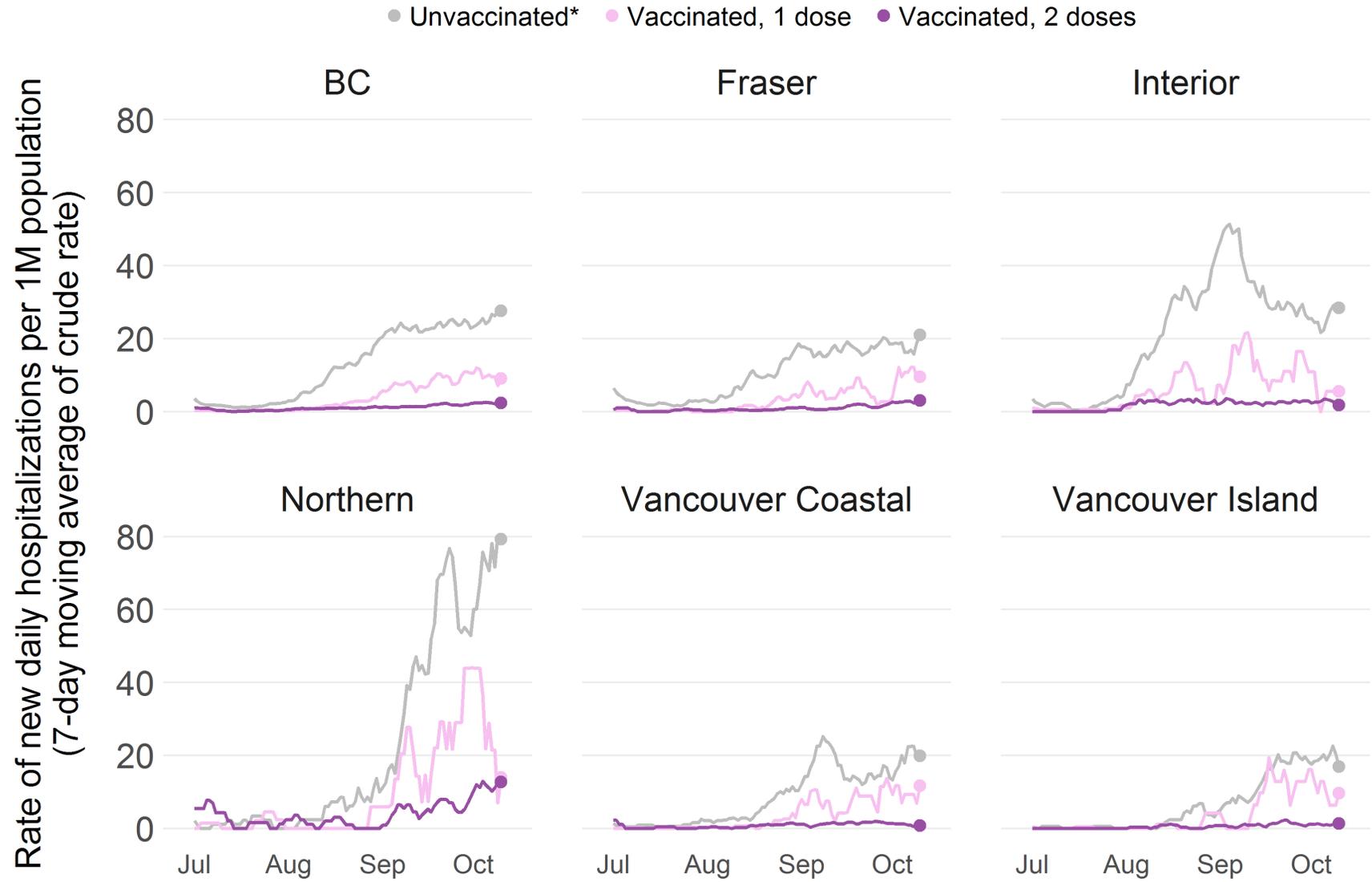


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Data extracted from health authority case line list on 14 Oct 2021

COVID-19 hospitalization rate by vaccination status, July 1 – Oct 10, 2021

Data by hospital admission date. Denominators for each vaccine status group are dynamic and change daily as people flow from being unvaccinated to protected by 1 dose to protected by 2 doses. Therefore, the denominators are different across groups and over time.

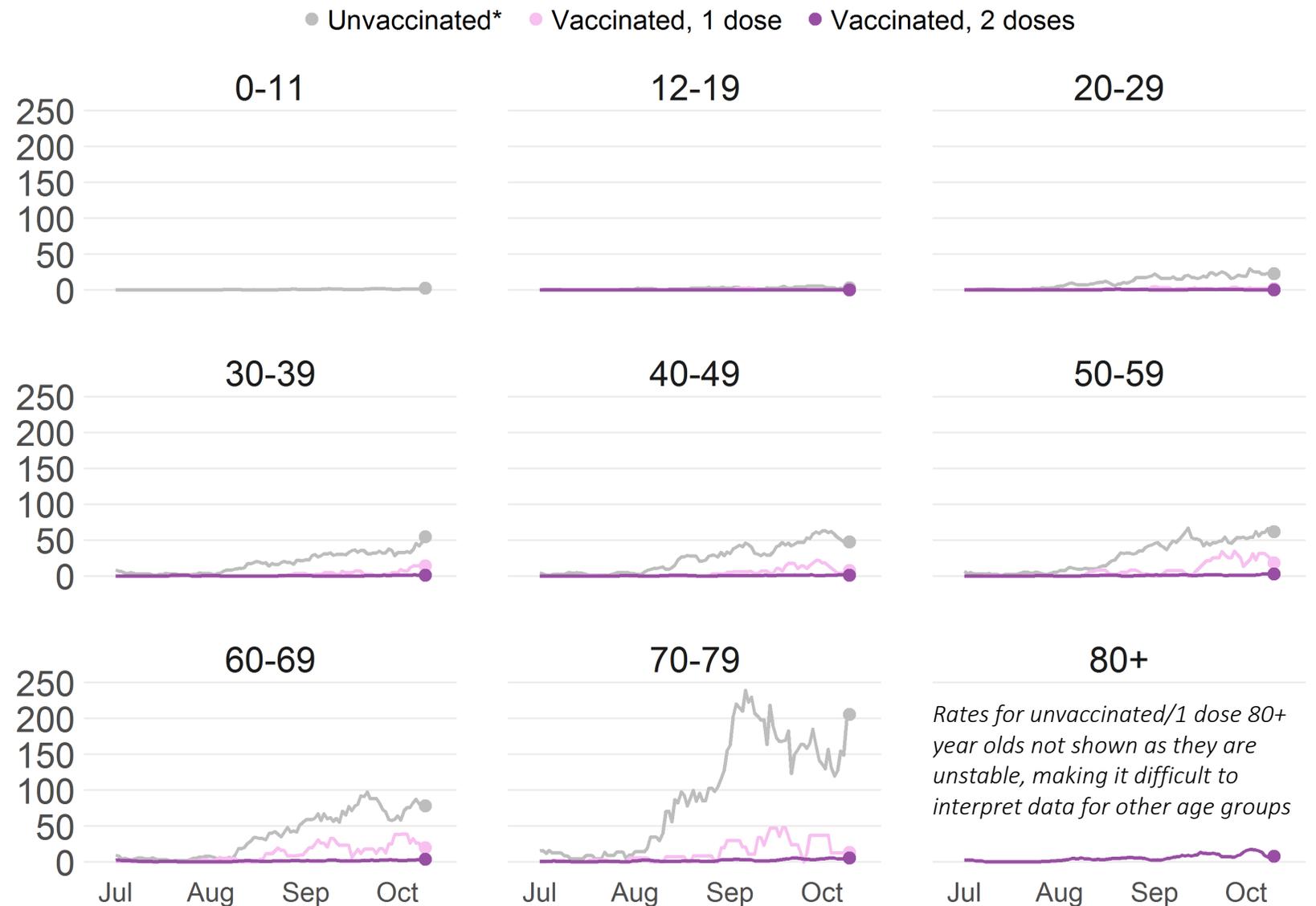


*Unvaccinated includes cases who have received 1 dose but not yet protected (episode date <21 days after 1st dose administration date); These represent 5% of hospitalized unvaccinated cases since 1 July 2021. Data extracted from health authority case line list and up to 10 Oct 2021

COVID-19

hospitalization rate by vaccination status and age, July 1 – Oct 10, 2021

Rate of new daily hospitalizations per 1M population (7-day moving average of crude rate)

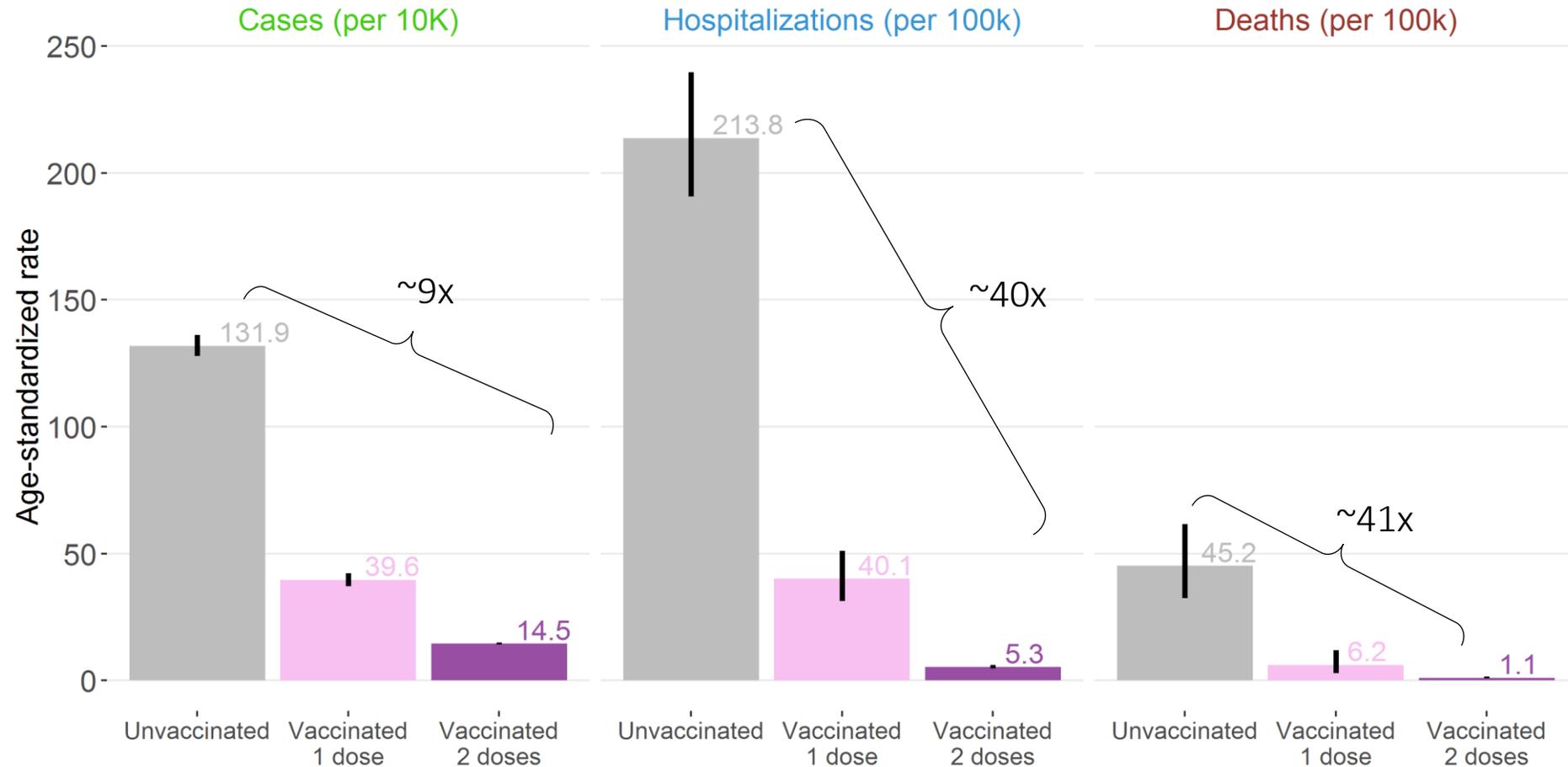


Denominators for each vaccine status group are dynamic and change daily as people flow from being unvaccinated to protected by 1 dose to protected by 2 doses. Therefore, the denominators are different across groups and over time.

*Unvaccinated includes cases who have received 1 dose but not yet protected (episode date <21 days after 1st dose administration date); These represent 5% of hospitalized unvaccinated cases since 1 July 2021. Data extracted from health authority case line list and up to 10 Oct 2021

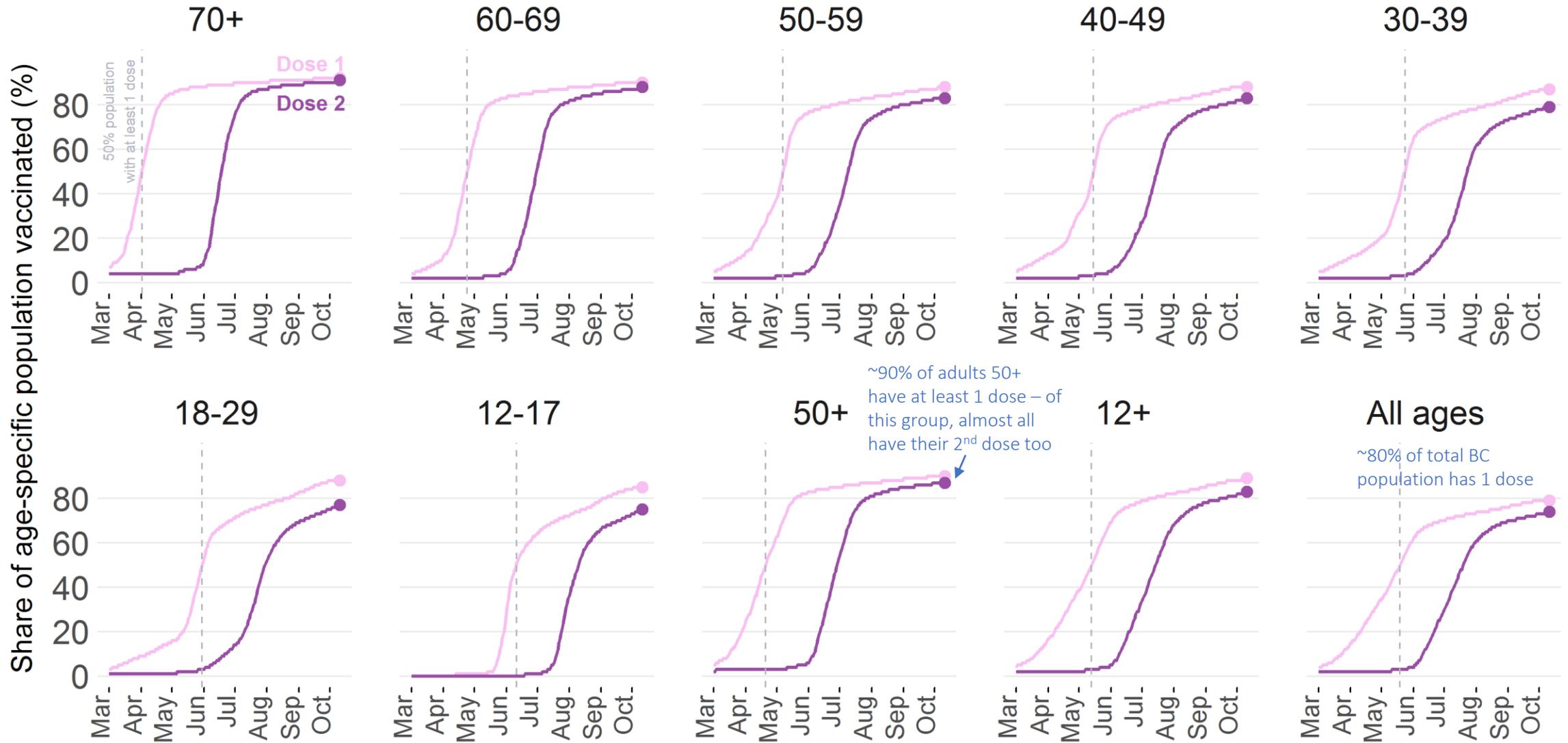
After adjusting for age, unvaccinated individuals continue to be at a significantly higher risk of infection, hospitalization, and death from COVID-19 compared with fully vaccinated

Relative rate fluctuates over time (see graph to the right). These figures do not represent vaccine effectiveness.



Data include cases from Sep 16-Oct 13, and hospitalizations and deaths from Sep 13-Oct 10, 2021

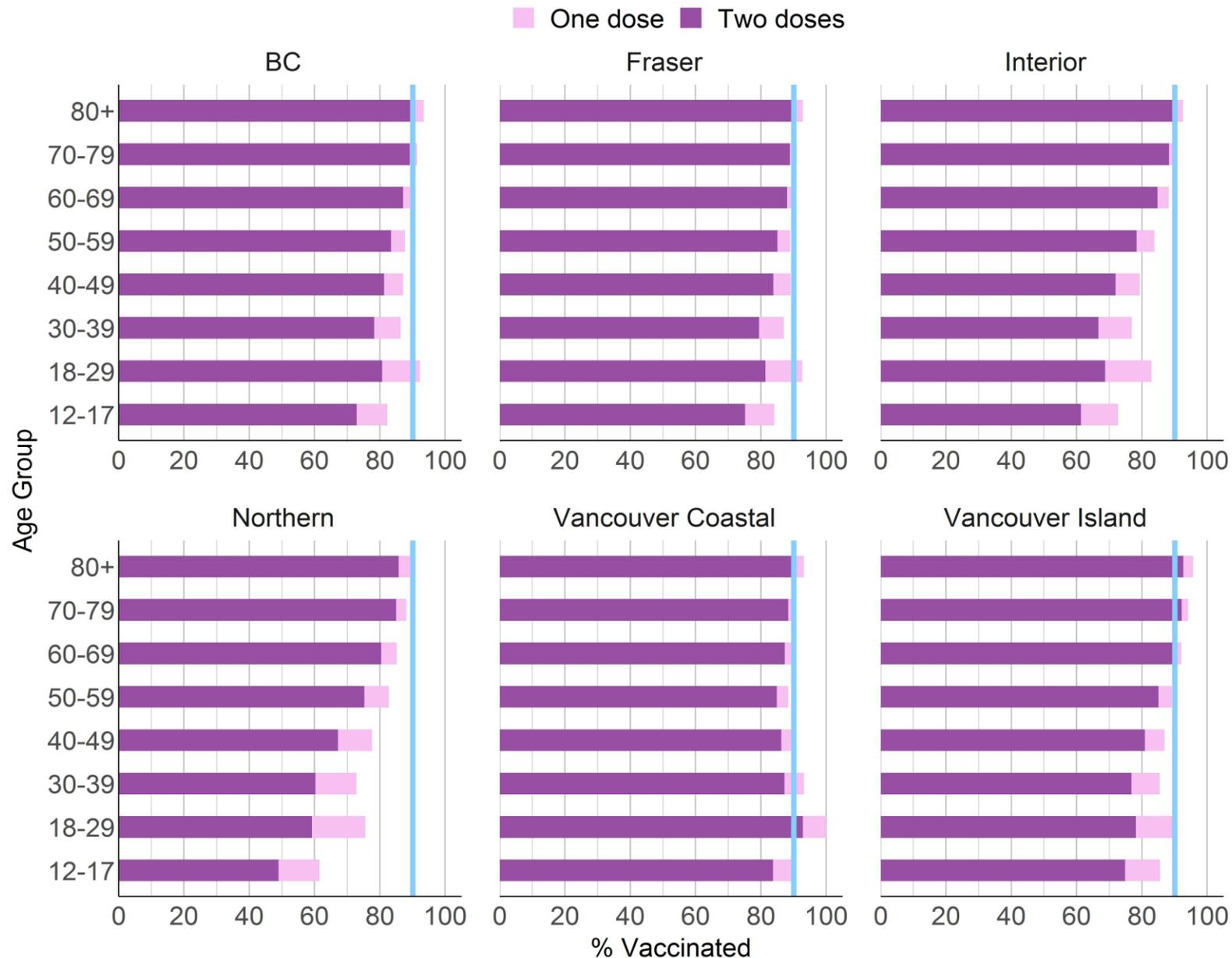
Vaccination progress in BC over time by age group and dose number up to Oct. 12, 2021



Data updated 2021-10-12
Data Source: Provincial Immunization Registry, PHSA

Vaccination progress in BC and by Health Authority as of Oct 12, by age group and dose number (%)

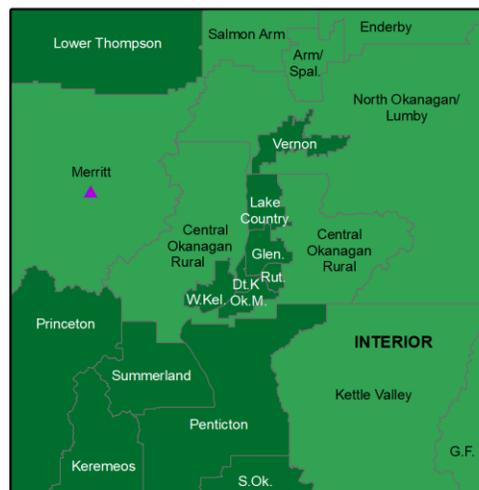
Denominator for this graph is Client Roster maintained by the BC Ministry of Health. Client Roster population data are sourced from a list of all residents registered with Medical Services Plan as of March 12, 2021. Since this date, people may have moved, permanently or temporarily, and have been vaccinated or reported their vaccination status. As a result, there are areas in BC where there will be more people vaccinated than there were living in that area in March 2021. The Client Roster likely underrepresents new arrivals into a region such as young adults relocating to attend post-secondary institutes and workers at major construction project areas. An alternative denominator would be based on projections derived from Census 2016, which is also not representative of the current BC population. There is no perfect denominator.



Blue line is for visual reference only; note the change to 90%

Data updated 2021-10-12
Data Source: Ministry of Health

Okanagan Inset
(Community Health Service Areas)

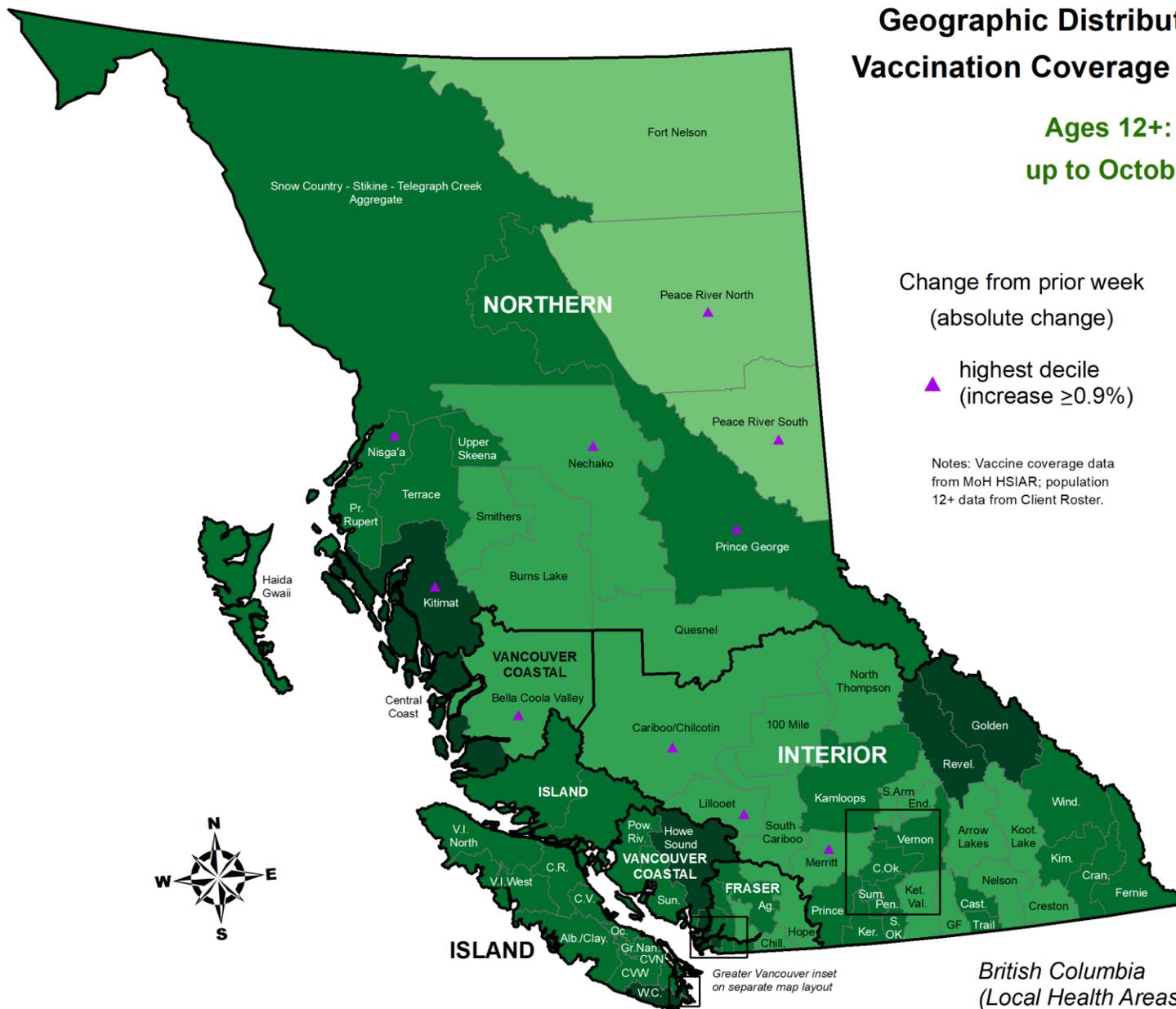


Greater Victoria Inset
(Community Health Service Areas)



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

**Ages 12+: 1st Dose
up to October 11, 2021**



Change from prior week
(absolute change)

▲ highest decile
(increase $\geq 0.9\%$)

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

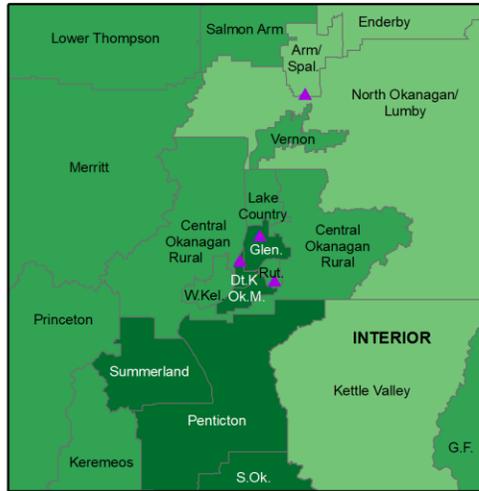
Vaccination coverage
rate (%) of persons 12+

-  $\leq 50\%$
-  51 - 60 %
-  61 - 70 %
-  71 - 80 %
-  81 - 90 %
-  $> 90\%$



British Columbia
(Local Health Areas)

Okanagan Inset
(Community Health Service Areas)



Greater Victoria Inset
(Community Health Service Areas)



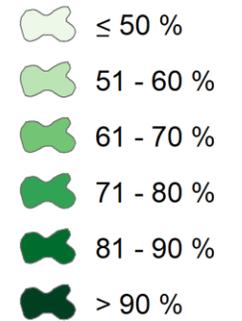
Geographic Distribution of COVID-19 Vaccination Coverage by LHA and CHSA

**Ages 12+: 2nd Dose
up to October 11, 2021**

Change from prior week
(absolute change)

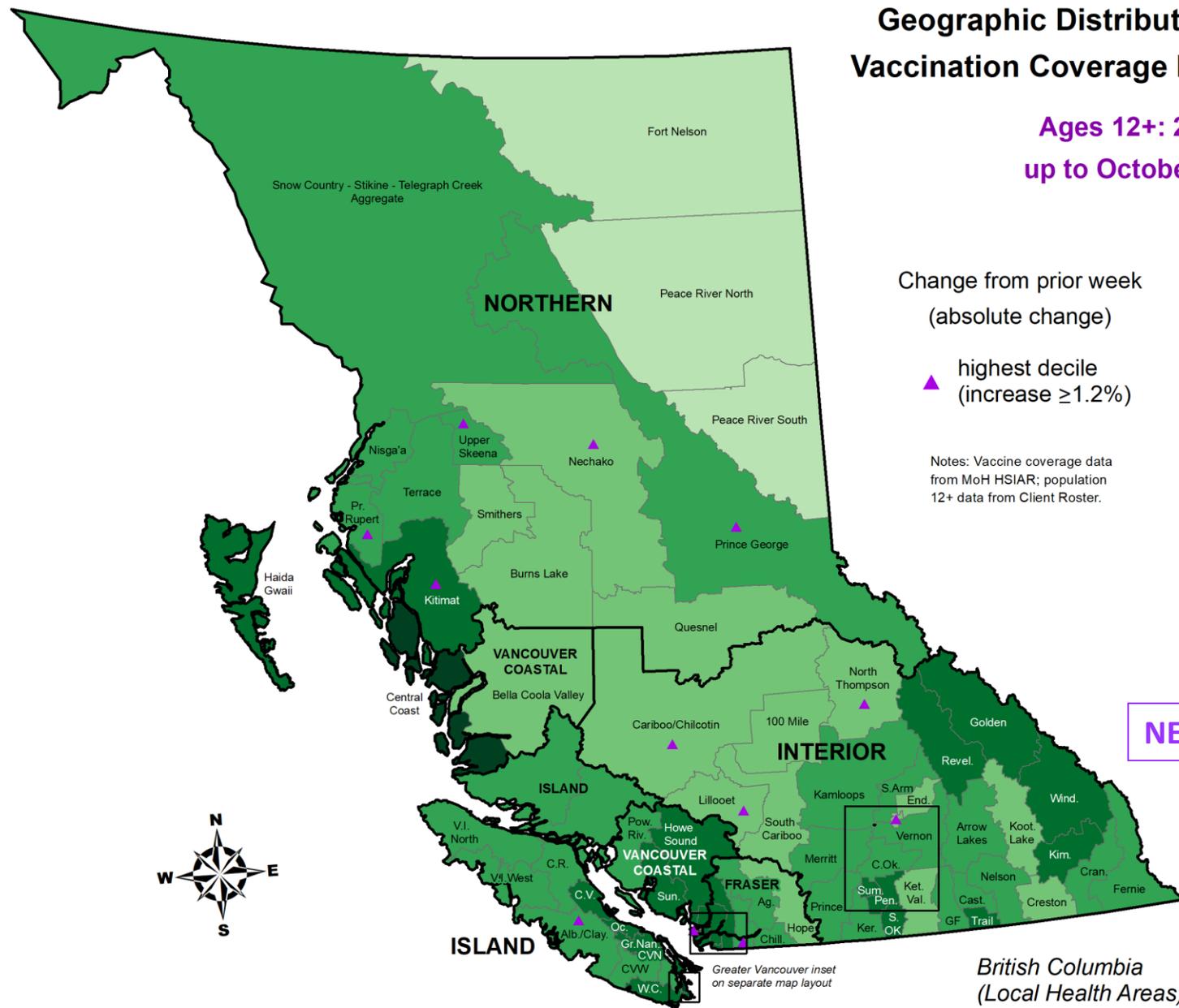
▲ highest decile
(increase $\geq 1.2\%$)

Vaccination coverage
rate (%) of persons 12+

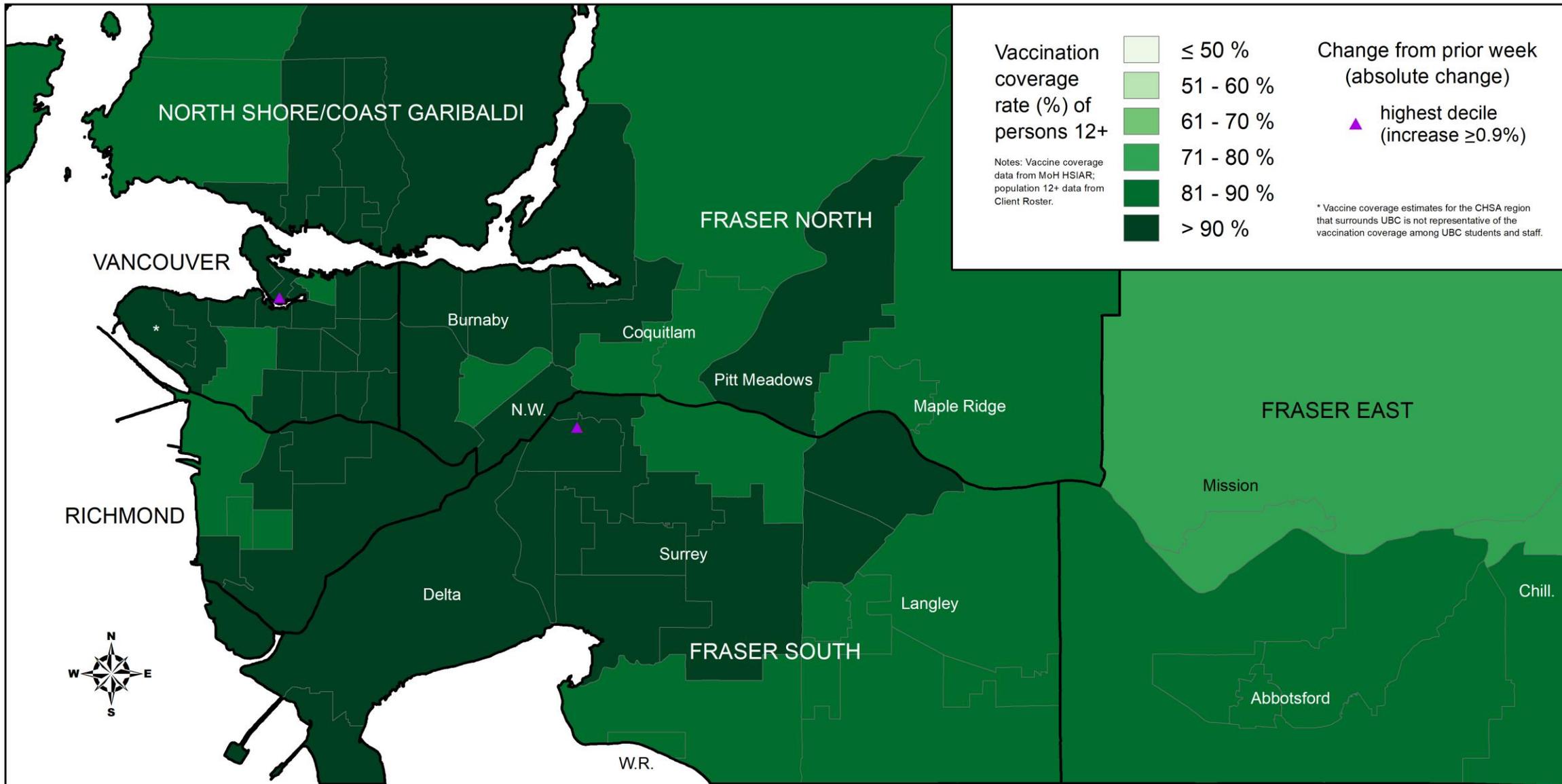


Notes: Vaccine coverage data from MoH HSIAR; population 12+ data from Client Roster.

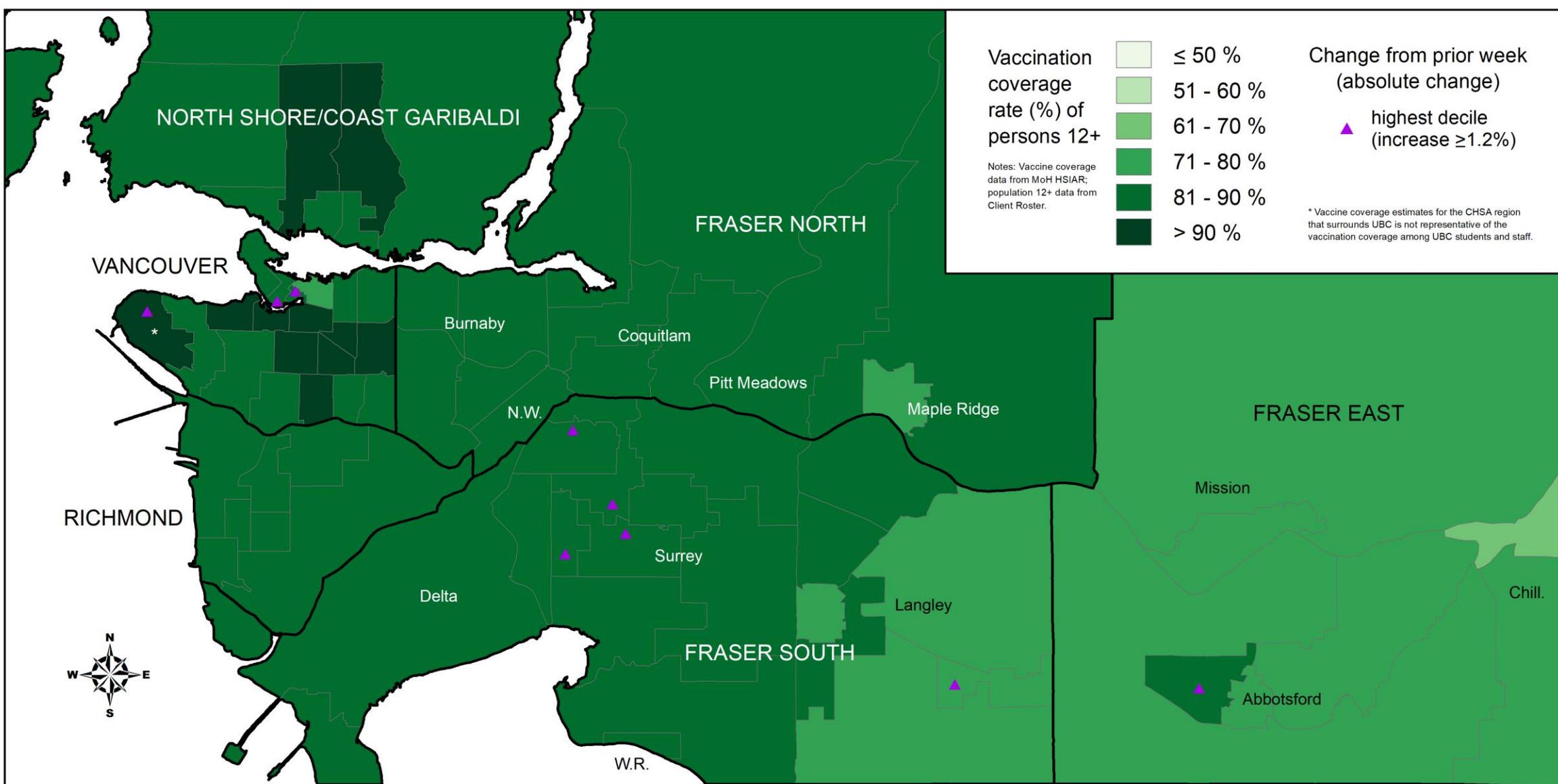
NEW 2nd dose map



British Columbia
(Local Health Areas)



COVID-19 Vaccination Coverage by CHSA: Ages 12+ 1st Dose (up to October 11, 2021)



COVID-19 Vaccination Coverage by CHSA: Ages 12+ 2nd Dose (up to October 11, 2021)

Lab - Key Messages

- **Test positivity** among publicly funded tests was stable this week (current ~5.9%)
 - Test positivity varies by HA, ranging from 3.4% in VCH to 18.5% in NH.
 - Test positivity is high in Fraser East and most HSDAs in NH and IH
- Publicly funded **testing** was stable this week (~78K total public tests)
 - Testing rates remain elevated in children (<19 years) and adults (30-44 years)
- The provincial weekly median **turnaround time** (time from specimen collection to lab result) remains low at 18 hours, indicating good testing capacity; 3 in 4 tests took ≤ 26 hours to result.
- **Delta** is the most prevalent COVID-19 variant in BC representing ~100% of all sequenced specimens in most recent week.
- Wastewater samples can act as a population-level sentinel surveillance tool
 - Viral signals in Metro Vancouver wastewater plants have plateaued or are declining slowing, consistent with case-counts in these regions

Weekly Summary of ALL lab tests performed

4,000,851	total specimens tested
101,086	new this epi week
204,118	total positive specimens
4,626	new positive this epi week
20 hr	mean turnaround time (TAT)
18 [12-26]	Median [Q1 – Q3] TAT

↓ **4%** relative to last week

↓ **4.6%** positivity
↓ **0.3%** absolute change from last week

↑ **5%** TAT relative to last week

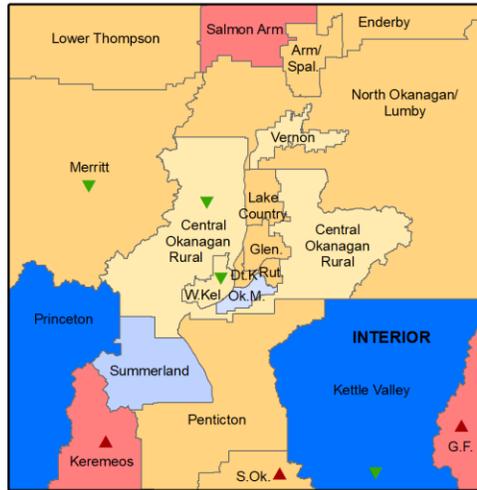
Weekly Summary of Lab tests paid Publicly

3,028,278	total specimens tested
78,107	new this epi week
201,585	total positive specimens
4,578	new positive this epi week

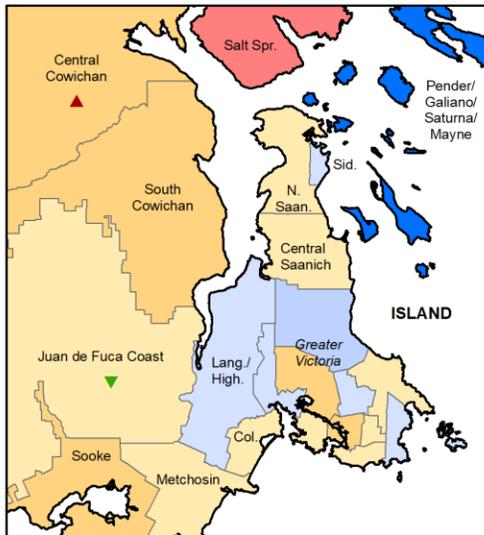
↓ **3%** relative to last week

↓ **5.9%** positivity
↓ **0.4%** absolute change from last week ³³

Okanagan Inset
(Community Health Service Areas)

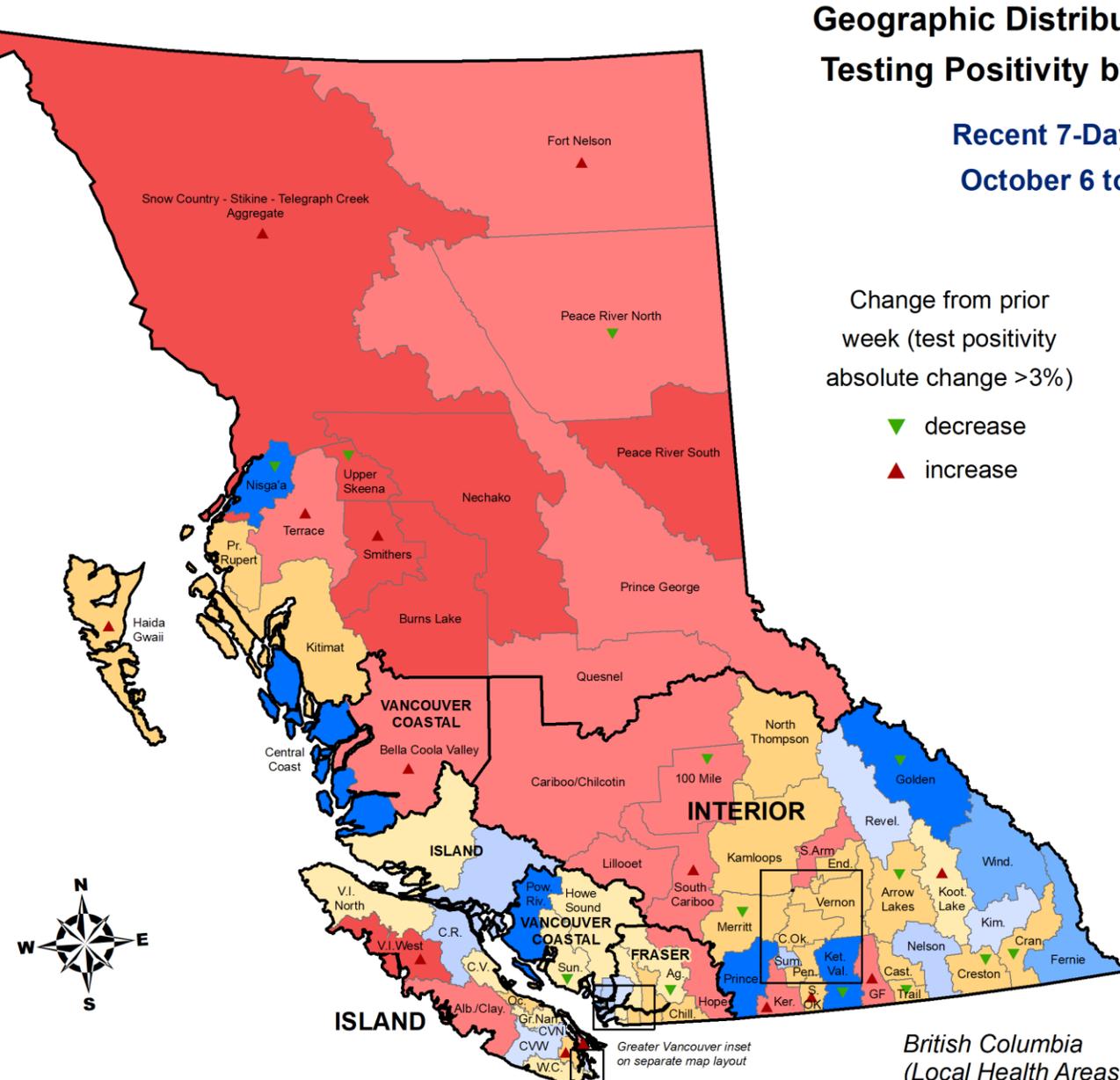


Greater Victoria Inset
(Community Health Service Areas)

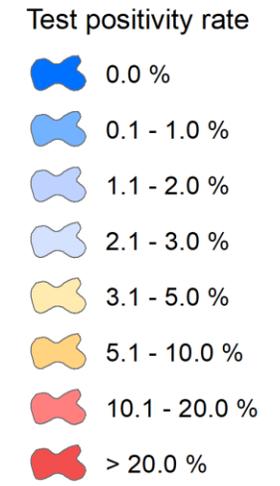


Geographic Distribution of COVID-19
Testing Positivity by LHA and CHSA

Recent 7-Days Testing
October 6 to 12, 2021

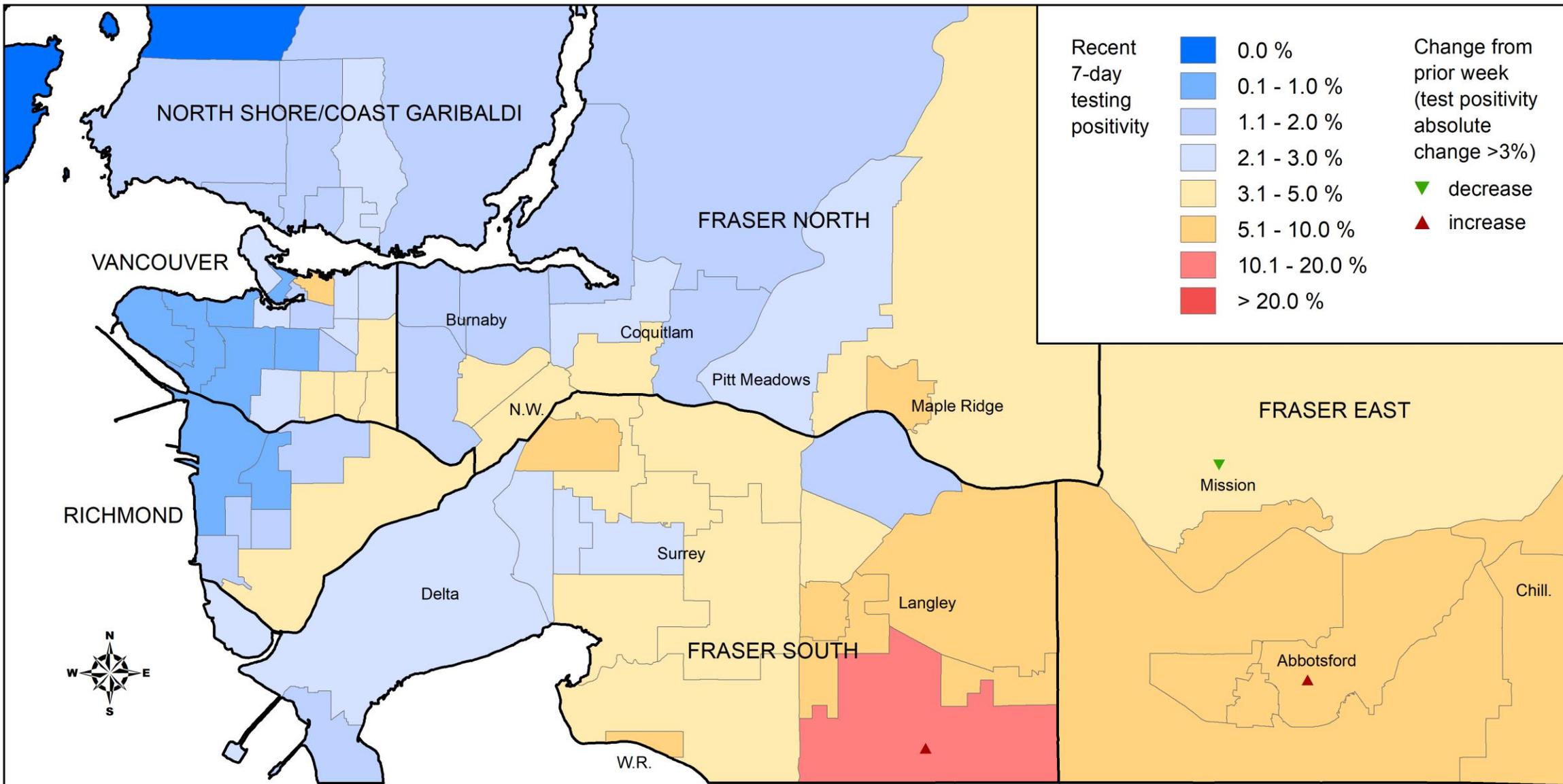


Change from prior week (test positivity absolute change >3%)
 ▼ decrease
 ▲ increase



Data source: BCCDC Public Health Laboratory PLOVER system (all tests performed). Data are by testing result date, and location of client's residence or if missing, physician's address.

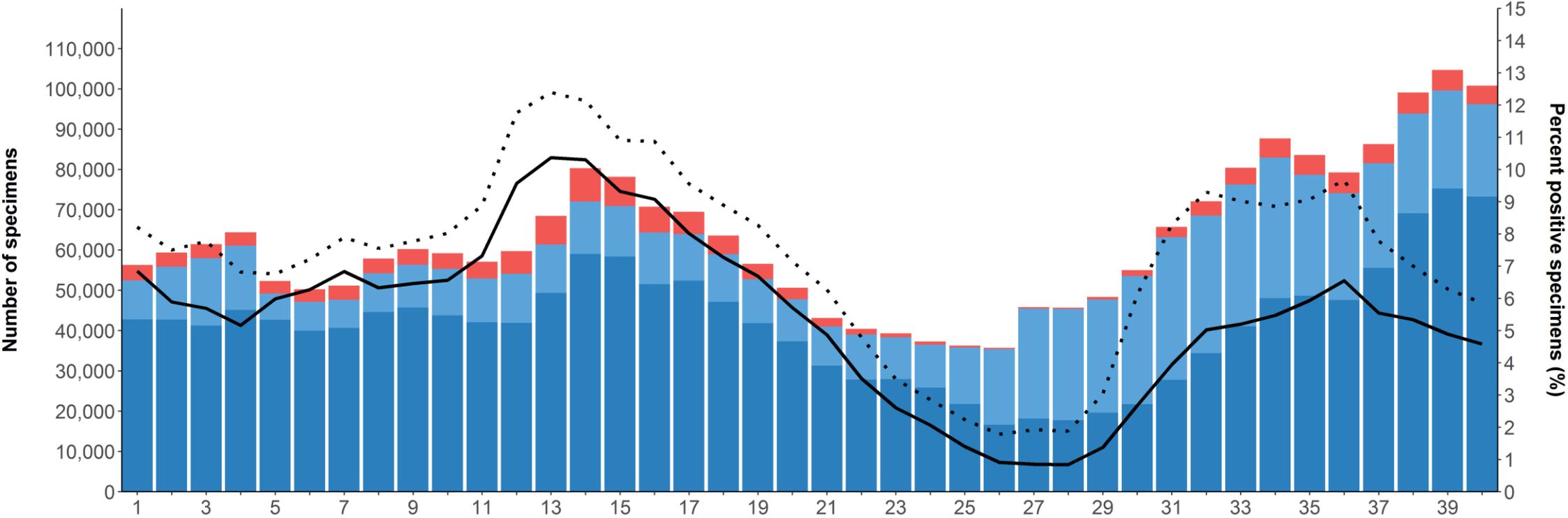
British Columbia
(Local Health Areas)



COVID-19 Recent 7-Day Test Positivity by CHSA (October 6 to 12, 2021)

Includes all tests

Percent positivity decreased slightly in the most recent week (~6%), in parallel with an increase in the number of publicly funded specimens tested.



..... Line represents percent positive for MSP only payers.
 _____ Line represents percent positive for non-MSP and MSP payers.

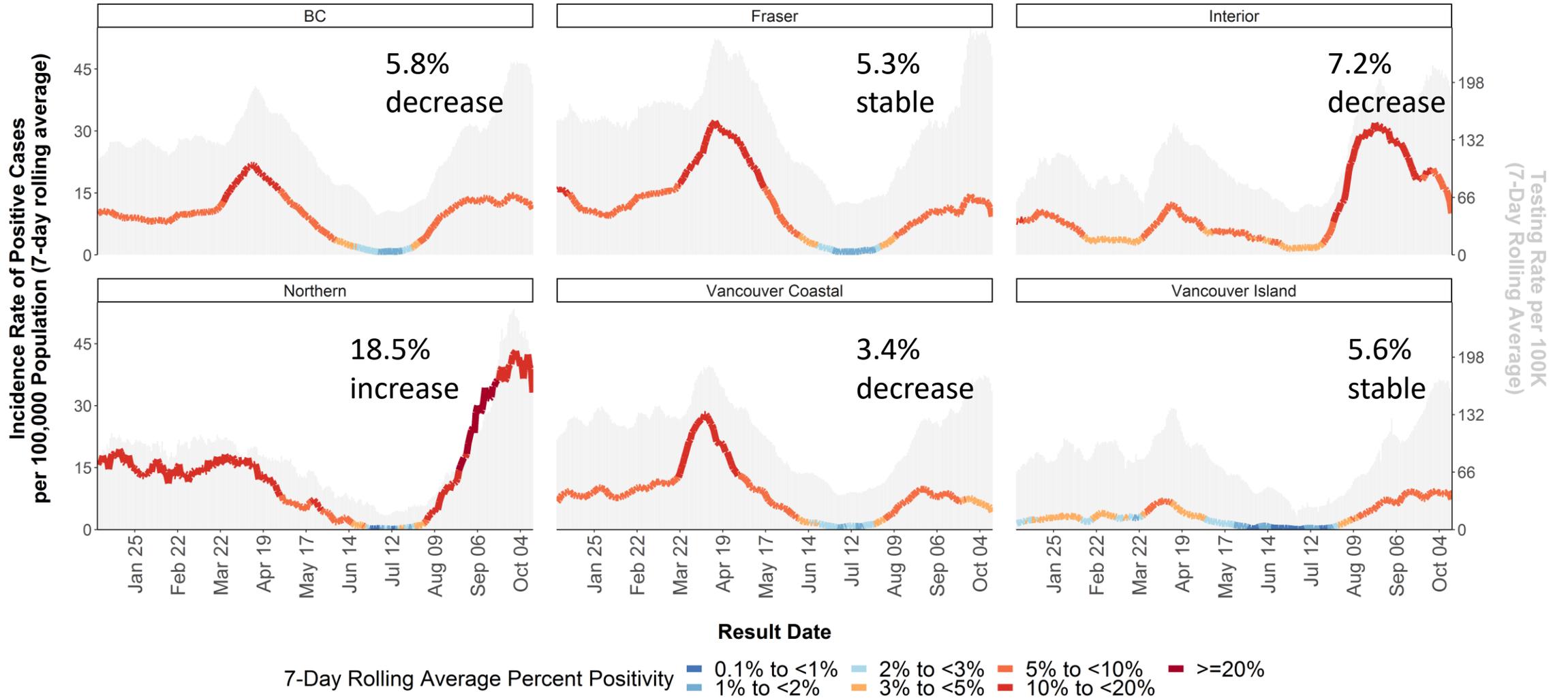
Collection date by epidemiological week
 _____ Percent Positive Non MSP - Positive MSP - Positive Non MSP - Negative MSP - Negative

Note: Invalid (n = 1564) and indeterminate (n = 6267) results have been excluded

Data source: PLOVER 13-Oct-2021

Percent positivity decreased or remained stable in all HAs.
 Testing rates are elevated across province.

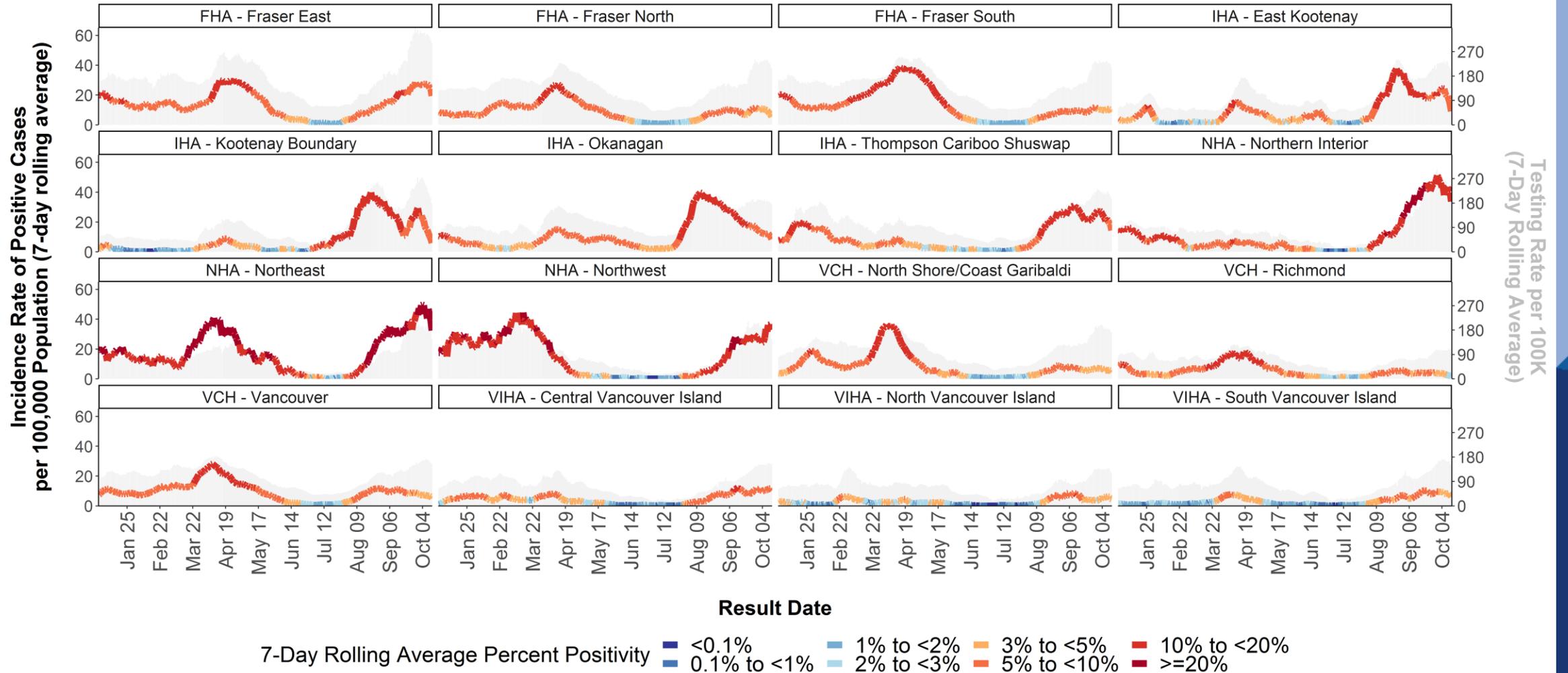
Case incidence rate, test percent positivity, and testing rate (Public Payers Only). Jan 1 2020 - Oct 12, 2021.



Data source: PLOVER 12-Oct-2021

Test positivity high in NH; incidence is increasing in Northwest, decreasing in IH and remains elevated in NH and Fraser East.

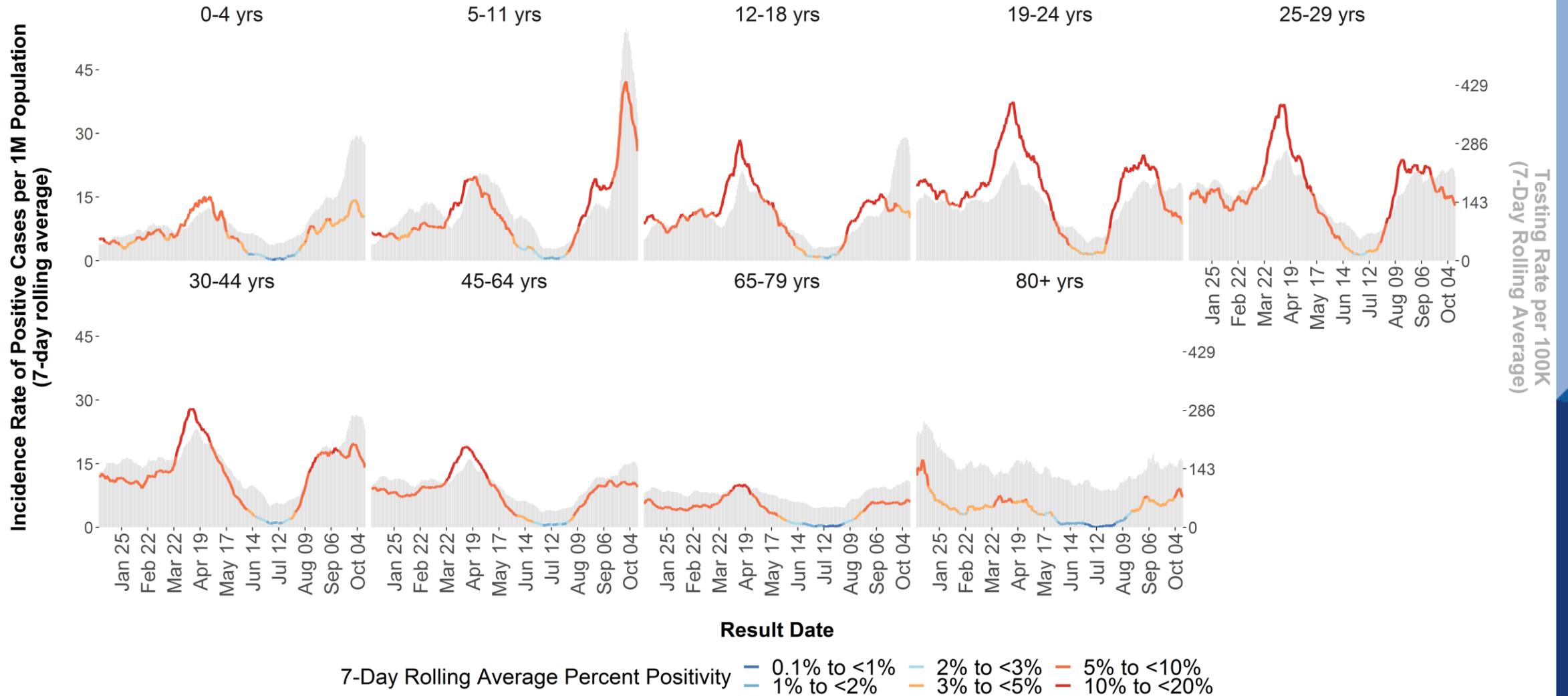
Case incidence rate, test percent positivity, and testing rate by HSDA (Public Payers Only).
Jan 1 2021 - Oct 12, 2021.



Data source: PLOVER 12-Oct-2021

Testing rates elevated for individuals <19 years, and individuals 30-44 years.

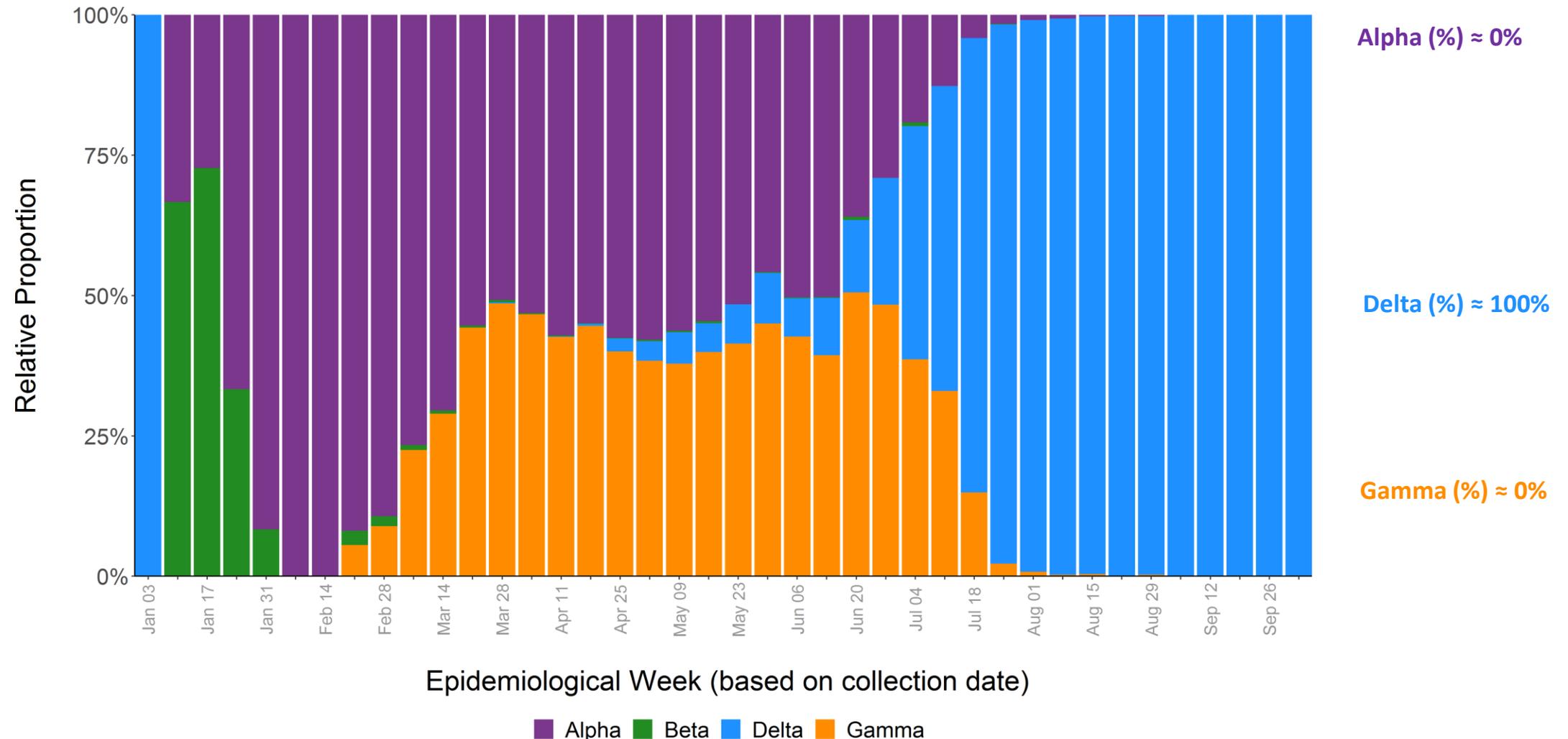
Case incidence rate, test percent positivity, and testing rate by age (Public Payers Only). Jan 1 2020 - Oct 12, 2021.



Data source: PLOVER 12-Oct-2021

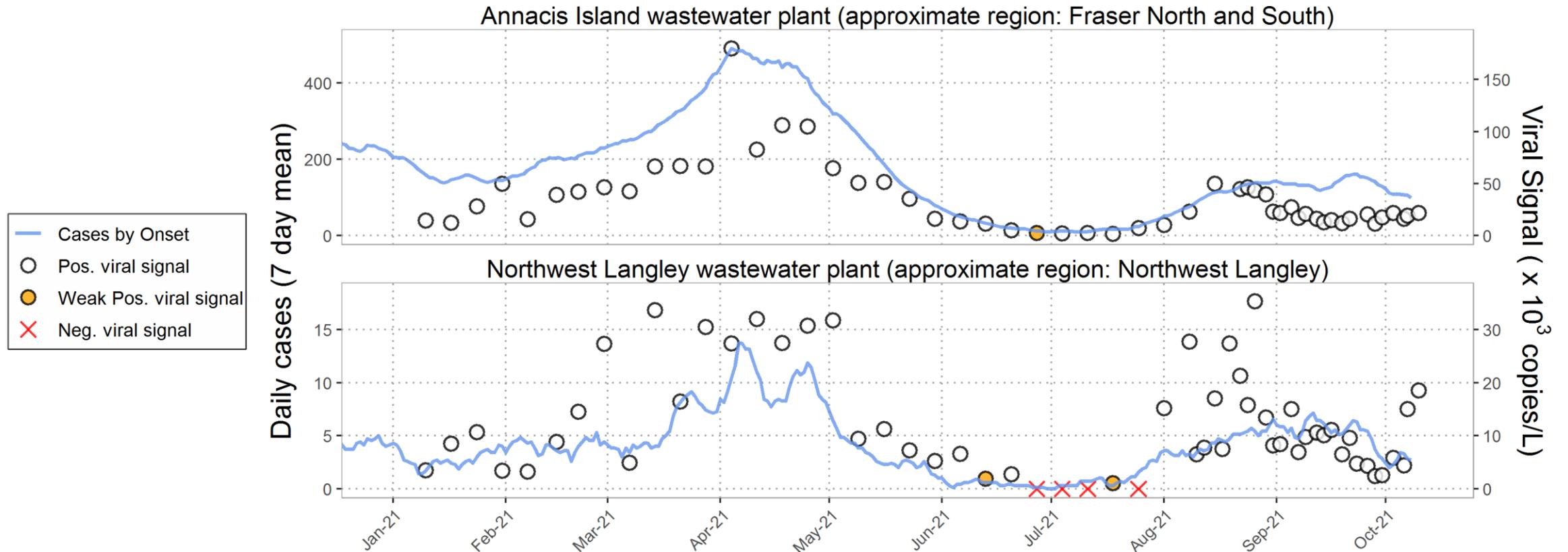
Among sequenced VOC samples provincially based on information for Oct 3 to Oct 9, the dominant VOC continues to be Delta ~100%

Relative Proportion of VoCs in BC by Epiweek of Collection Date



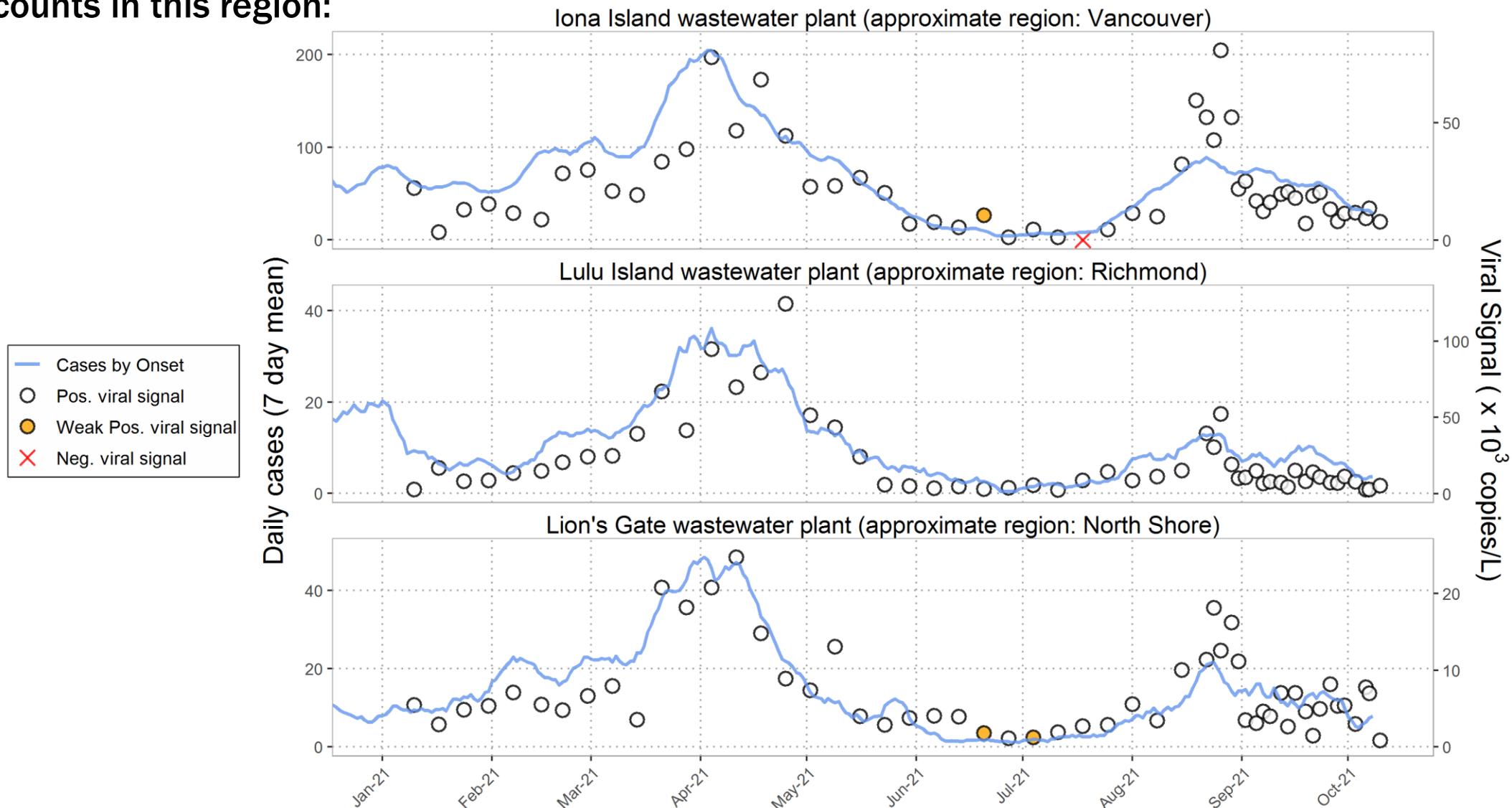
Wastewater samples can act as a population-level sentinel surveillance tool – viral signals found in wastewater are highly correlated with disease incidence in population.

In Fraser Health, the viral signal from wastewater reflects the trends in case counts in this region:



Time-series plots show weekly or bi-weekly viral signals from each wastewater plant (right y-axis), overlaid with rolling 7-day mean of daily new cases within wastewater catchment area (left y-axis). Plot title shows wastewater plant name, followed by approximate catchment area.

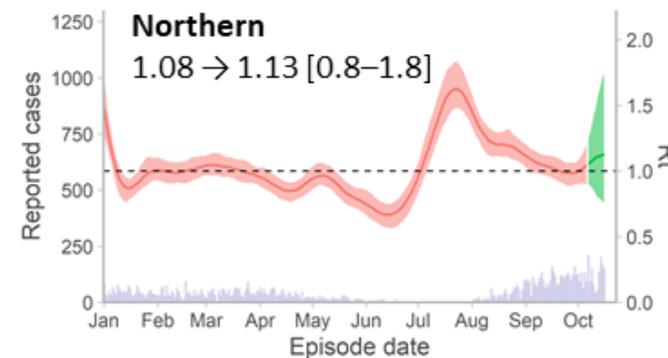
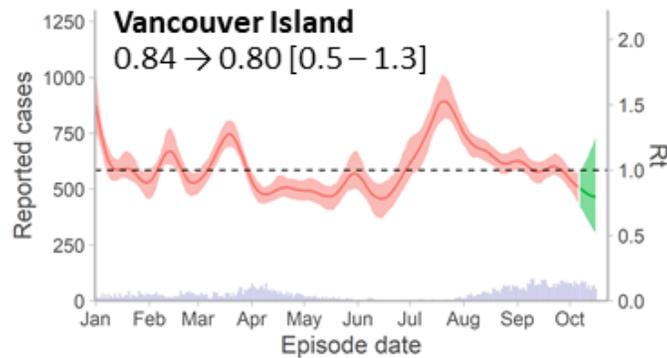
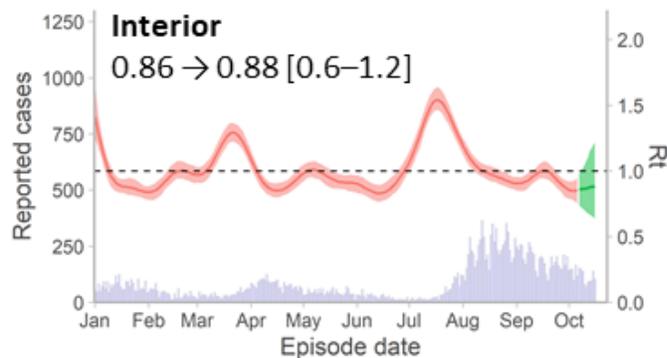
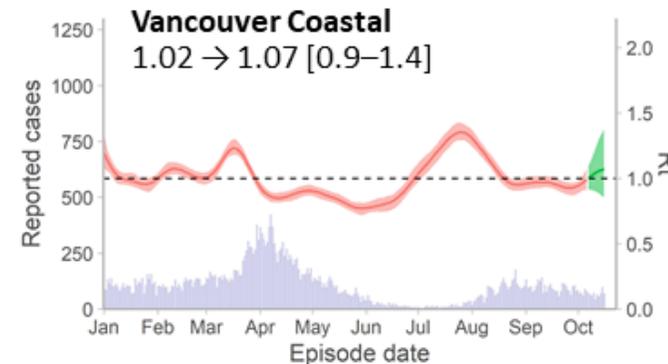
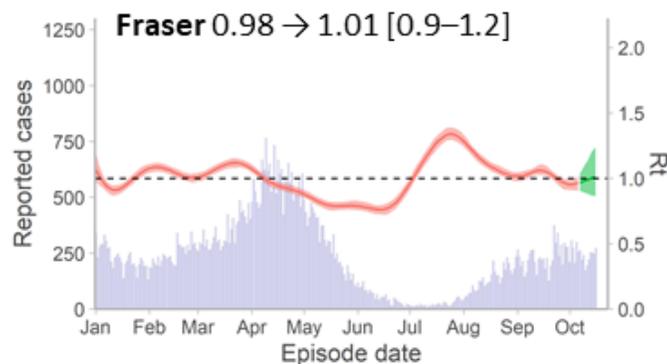
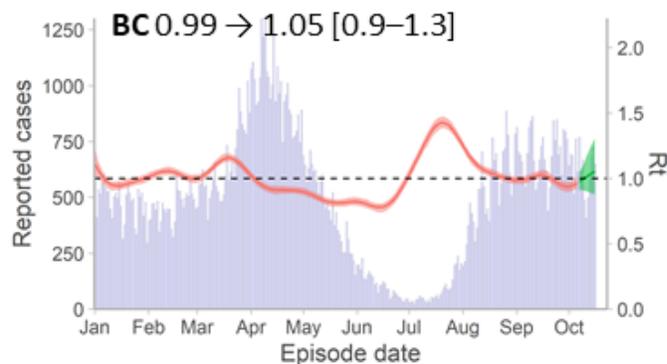
In Vancouver Coastal Health, the viral signal from wastewater reflects the declining trends in case counts in this region:



Time-series plots show weekly or bi-weekly viral signals from each wastewater plant (right y-axis), overlaid with rolling 7-day mean of daily new cases within wastewater catchment area (left y-axis). Plot title shows wastewater plant name, followed by approximate catchment area.

Dynamic modeling: recent trends

Modelling indicates that R_t remains near 1 in most regions. Estimates are shown for last week \rightarrow this week, with 90% range of possible values given next to most recent estimate.



Solid line: median R_t , modeled using all reported cases up to Oct 16, 2021; Red band: 5%-95% credible interval; Green band: estimate based on partial data – each week, current estimates are updated with new data to provide a clearer understanding of the trend. Purple bars: all reported cases. Recent trend shown comparing median R_t estimate from (last week \rightarrow this week; 5% - 95% credible interval). Only January 2021 onward shown here. Data source: BCCDC HA linelist.

Pediatric Report - Key Messages

- Case numbers in <18 years remain elevated, but are beginning to decrease
 - Incidence varies regionally: decreasing in IH, elevated in NH and FE; low in VIHA and VCH
 - Incidence highest among elementary school age 5 to 11 years, but declining
- Rates are highest in regions with lower 12+ vaccine coverage
- Severe outcomes are very rare in children
- Testing rates elevated but decreasing for pediatric age groups

See the Data for K-12 Schools report posted on the BCCDC website

http://www.bccdc.ca/Health-Info-Site/Documents/COVID_sitrep/K12_Situation_Report/SitRep_K-12_October_2021.pdf

Oct 07 to Oct 13: Pediatric COVID-19 Profile

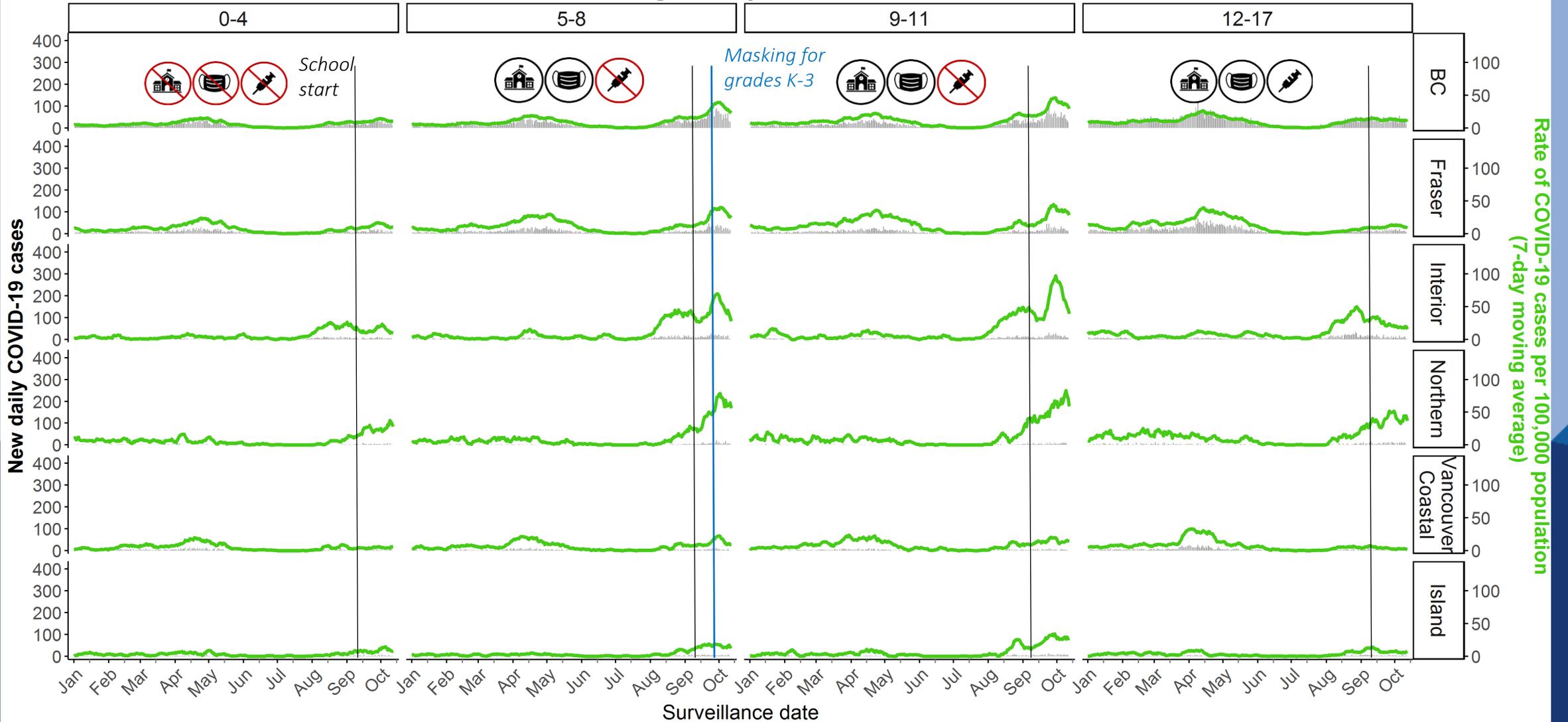


Age group: 0-4		Age group: 0-4		Age group: 0-4		Age group: 0-4	
5,081	total cases	110	ever hospitalized	11	ever in critical care	2	total deaths
161	new this week	5	new this week	0	new this week	0	new this week
Age group: 5-11		Age group: 5-11		Age group: 5-11		Age group: 5-11	
12,757	total cases	48	ever hospitalized	3	ever in critical care	0	total deaths
625	new this week	1	new this week	0	new this week	0	new this week
Age group: 12-17		Age group: 12-17		Age group: 12-17		Age group: 12-17	
11,797	total cases	46	ever hospitalized	7	ever in critical care	0	total deaths
222	new this week	1	new this week	0	new this week	0	new this week

* New hospitalizations and critical care census numbers are as of Oct 12 2021

* New cases and new deaths are net new between Line lists of Oct 06 and Oct 13

In regions with highly vaccinated adult populations, incidence is lower in children. Some of the recent increase in incidence among <17 years started before schools opened.

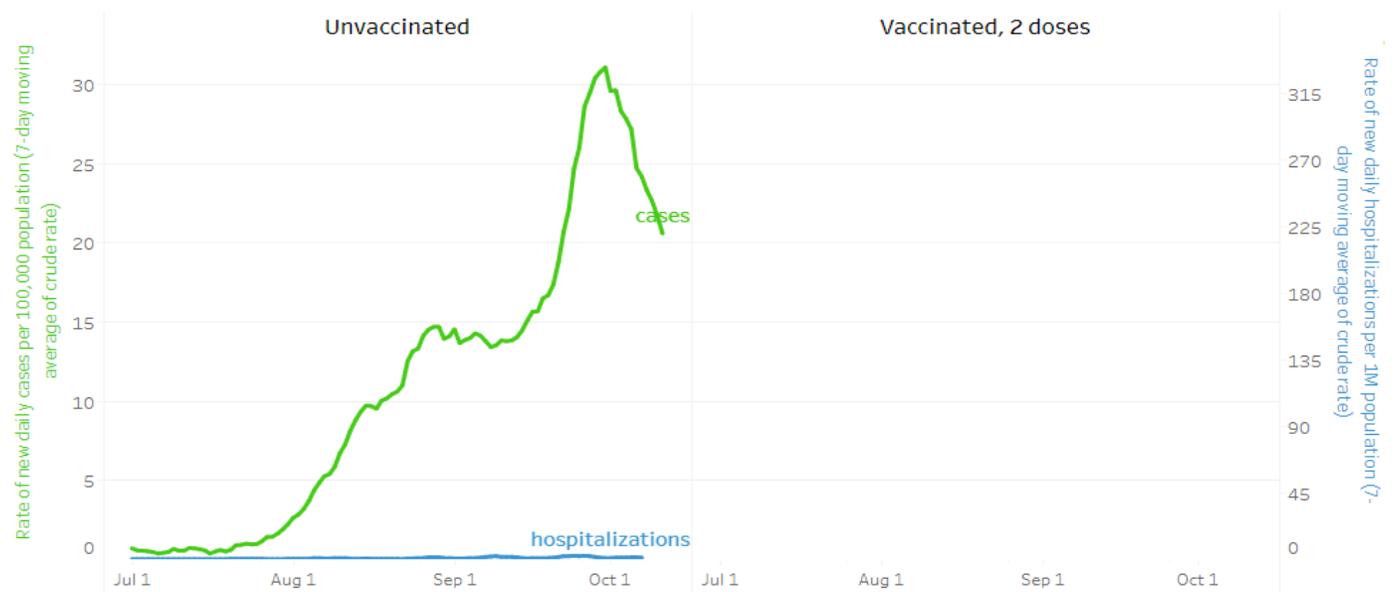


Date range: Jan 01 2021 - Oct 12 2021
 Data source: PHRDW Oct-13-2021

Elevated case rates in children and youth have not translated into more hospitalizations

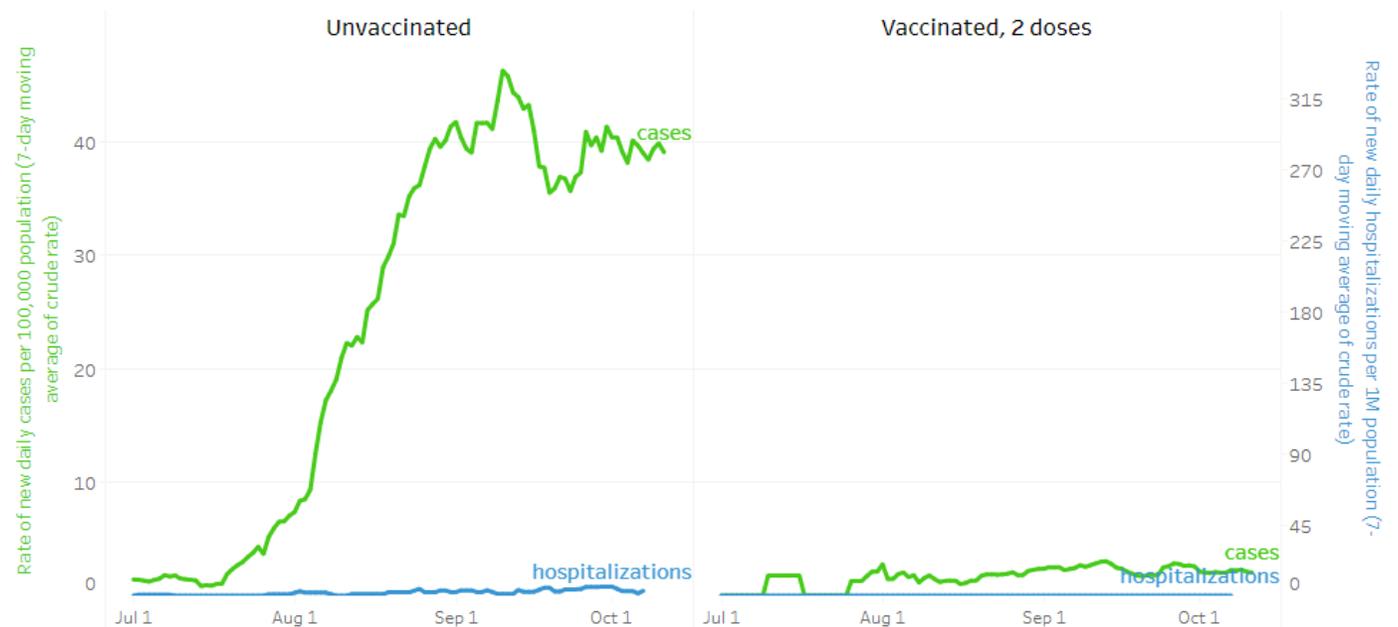
0-11 years

Case and Hospitalization Rate, BC, 0-11, Jul. 01 - Oct. 11



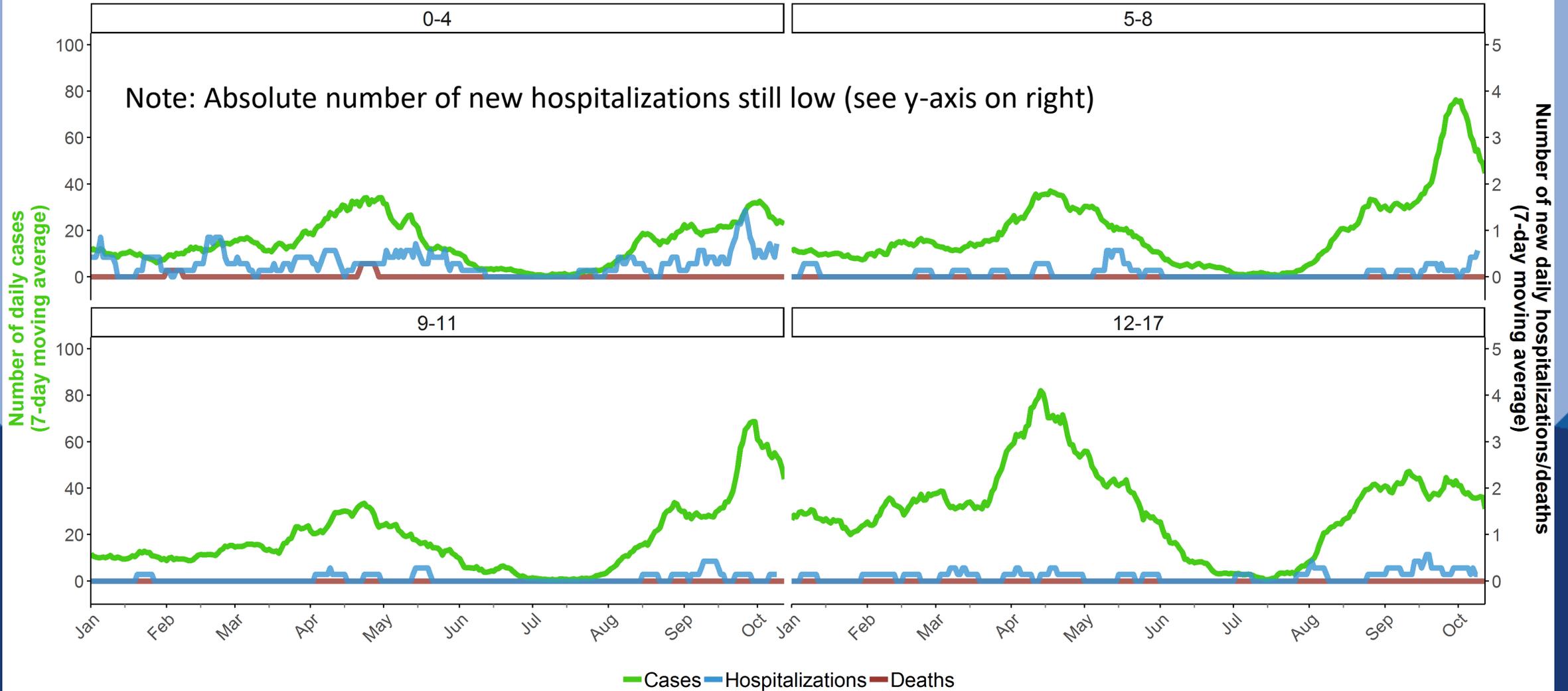
12 to 19 years

Case and Hospitalization Rate, BC, 12-19, Jul. 01 - Oct. 11



Hospitalization rates remain very low and stable; deaths are extremely rare

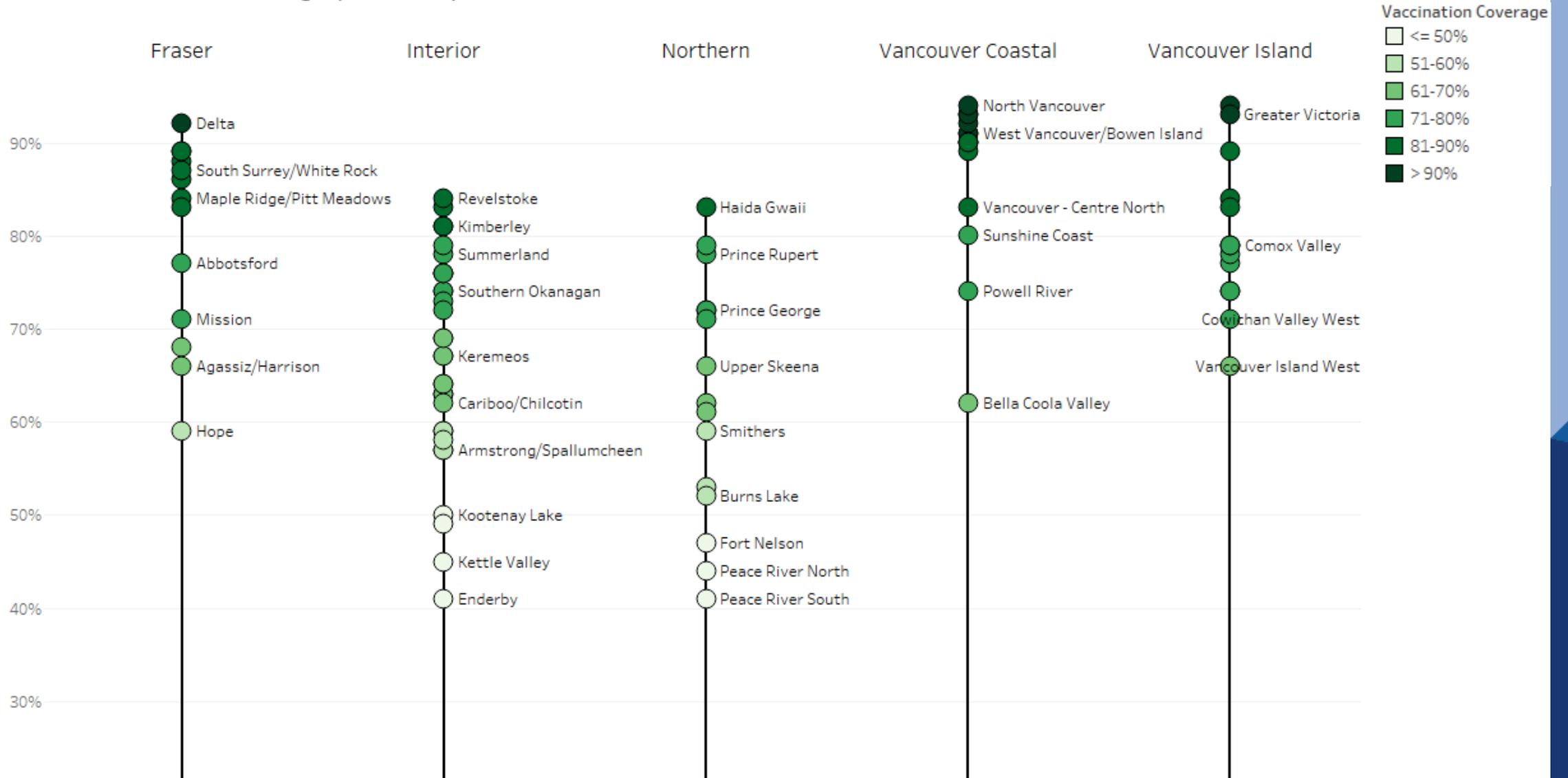
New daily COVID-19 cases, hospitalizations and deaths, Jan 01 2021 - Oct 12 2021



* Data are by surveillance date for cases and deaths, and admission date for hospitalizations
Data source: PHRDW + BCCW Oct-13-2021

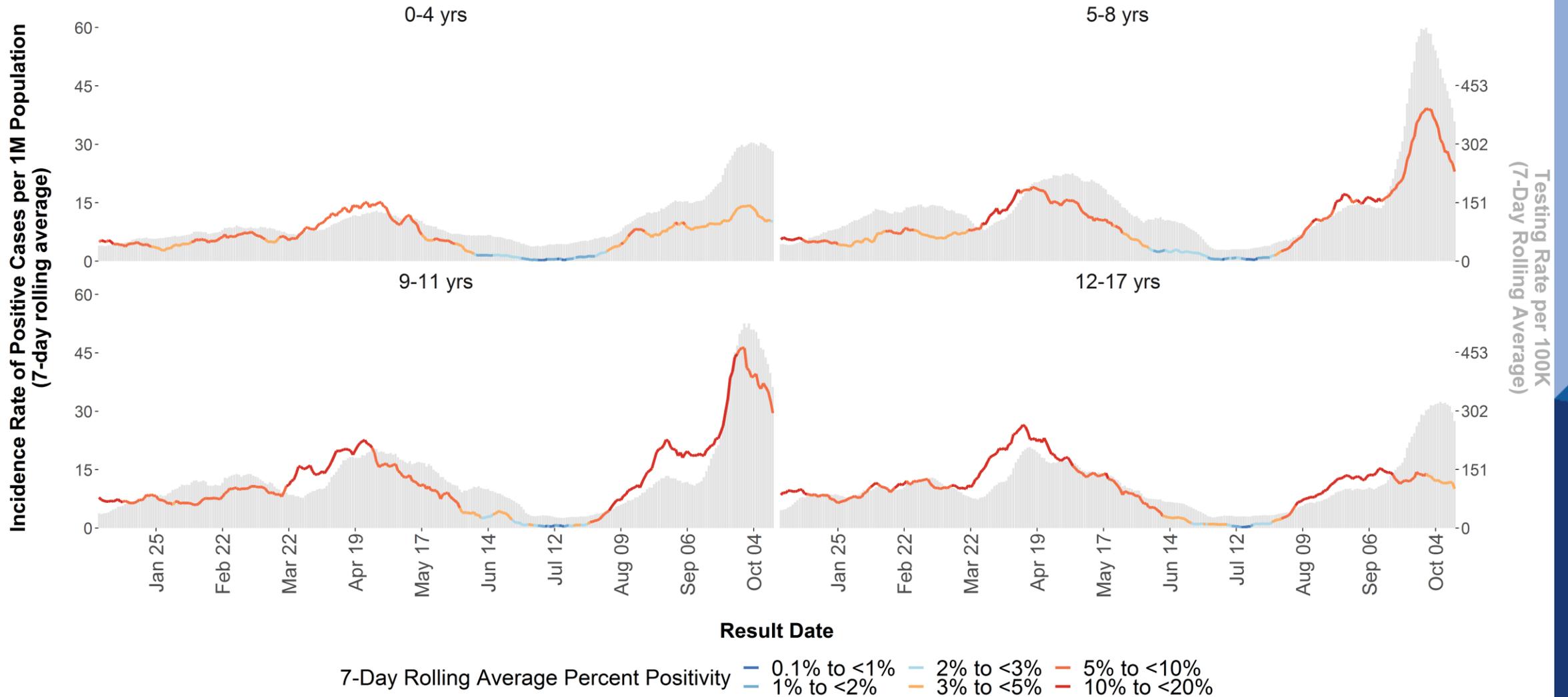
COVID-19 vaccination coverage with 1st dose among 12-17 year olds, by Local Health Area, up to 11 Oct 2021: there is more variation in this age group compared with older age groups

COVID-19 Vaccination Coverage (first dose), 12-17, Oct. 11, 2021



Testing rates among all pediatric age groups have recently decreased but remain high

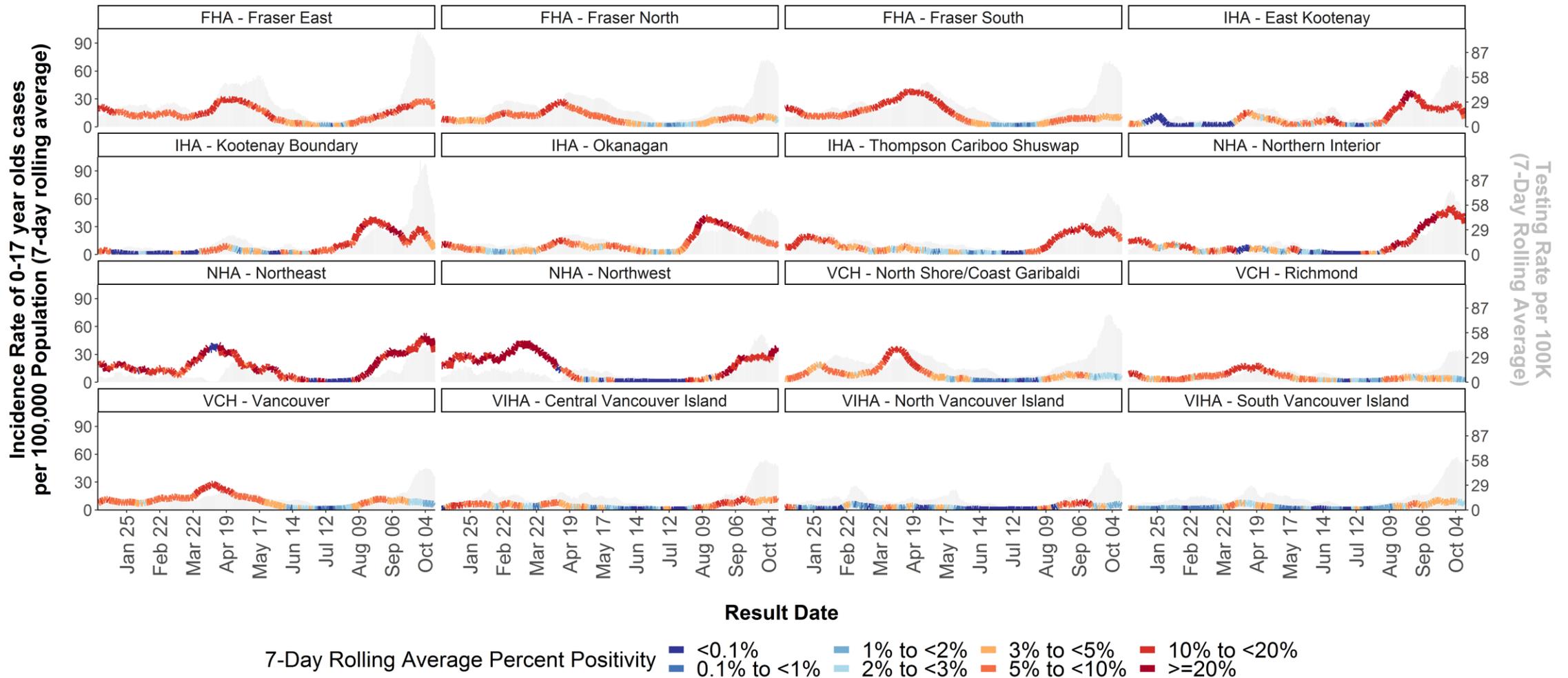
Case incidence rate, test percent positivity, and testing rate by age (Public Payers Only). Jan 1 2020 - Oct 12, 2021.



Data source: PLOVER 12-Oct-2021

Testing rates among 0-17 years remain high in all HSDAs. Percent positivity is high in NH. Incidence is elevated in Fraser East, and across NH; incidence is decreasing in IH.

Case incidence rate, test percent positivity, and testing rate by HSDA (Public Payers Only).
Jan 1 2021 - Oct 12, 2021.



Data source: PLOVER 12-Oct-2021

Additional Resources

- BCCDC COVID-19 Regional Surveillance Dashboard showing maps, vertical plots, and trends by LHA can be found [here](#)
- More BC COVID-19 data, including the latest Situation Report, maps, and BC COVID-19 public dashboard, can be found [here](#)
- For more information on variants of concern and whole genome sequencing, the latest report is posted [here](#)
- To put BC provincial, Health Authority, and HSDA trajectories into national and international context, see [BCCDC COVID-19 Epidemiology app](#)
- [COVID SPEAK 2020 Round 1 Survey results](#)
- Slides for previous public and modelling briefings by Dr. Bonnie Henry can be found [here](#)
- PHAC's COVID-19 Epidemiology update can be found [here](#)