

Nova Scotia Monthly COVID-19 Epidemiologic Summary: February 08, 2023

Public Health Branch

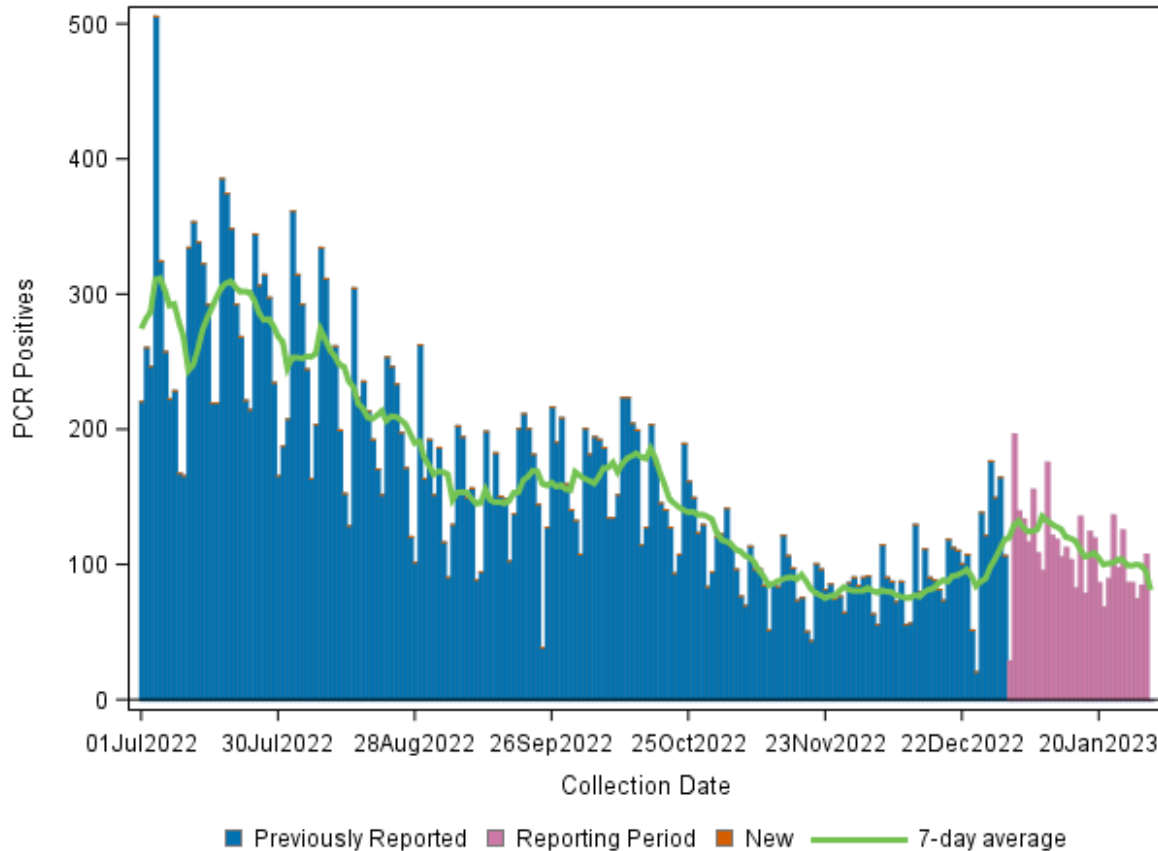
Nova Scotia Department of Health and Wellness

Highlights:

- The monthly epidemiology report has been redesigned.
 - The starting date for all epidemiologic curves is now July 1, 2022 to allow better visualization of recent trends
 - Cumulative counts include cases occurring on or after July 1, 2022
 - Vaccination status has been redefined and considers number of doses and timing of doses
- A total of 3,310 PCR positive results, 189 hospitalizations and 27 deaths from COVID-19 were observed during the month of January 2023.
- The number of PCR positive results, hospitalizations and deaths increased in January 2023 compared to December 2022.
- Of the 27 deaths that occurred in January, 96% (26) were in people aged 70 years and older and 41% (11) were in people residing in a long-term care facility.
- Age and under-vaccination continue to be associated with severe outcomes:
 - Nova Scotians aged 70+ are 26 times more likely to have been hospitalized compared to 18-49 years of age and are 28 times more likely to die compared to 50-69 years of age.
 - Nova Scotians who were unvaccinated or had not completed their primary series were hospitalized and died at two times the rate as those who received a booster within 168 days

COVID-19 Cases

Figure 1: Number and seven-day moving average of PCR positive results by collection date, 1 July 2022 to 31 January 2023 (N=33765)

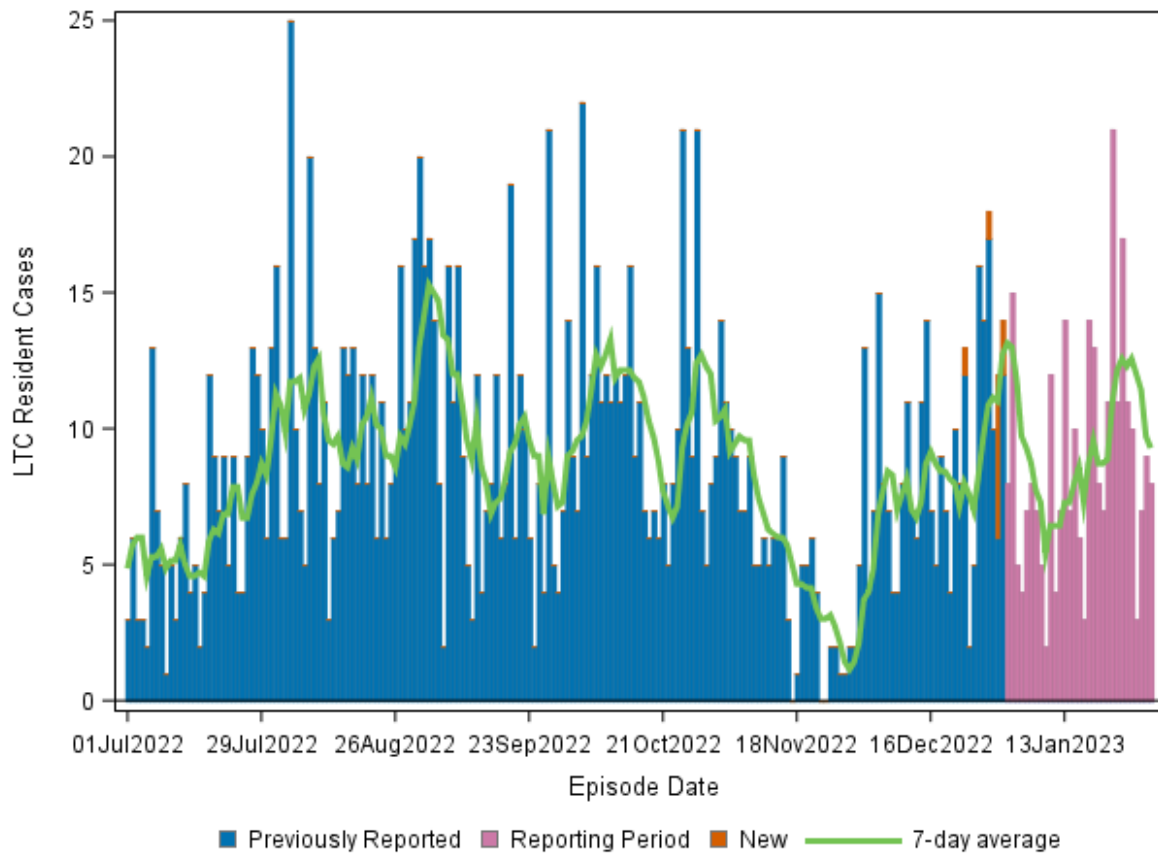


Data source: PPHLN

Notes:

- Laboratory tests used to confirm the diagnosis of COVID-19 are PCR (polymerase chain reaction) tests.
- Access to PCR tests are restricted to eligible populations as outlined in the following link: <https://www.nshealth.ca/coronavirustesting>.
- Only the first instance of a PCR positive test within a 90-day period is counted for each individual. Multiple positive tests within the 90-day period are considered the same infection. A PCR positive test 90-days or more from the date of the initial positive test are counted as a new infection.
- **Previously Reported** refers to PCR positives that were included in previous COVID-19 monthly reports.
- **Reporting Period** refers to new PCR positives that occurred within the current monthly reporting period.
- **New** refers to PCR positives that occurred prior to the current monthly reporting period but were not included in prior reports due to lags in notification.

Figure 2: Number and seven-day moving average of COVID-19 cases among long-term care residents by episode date, 1 July 2022 to 31 January 2023 (N= 1854)



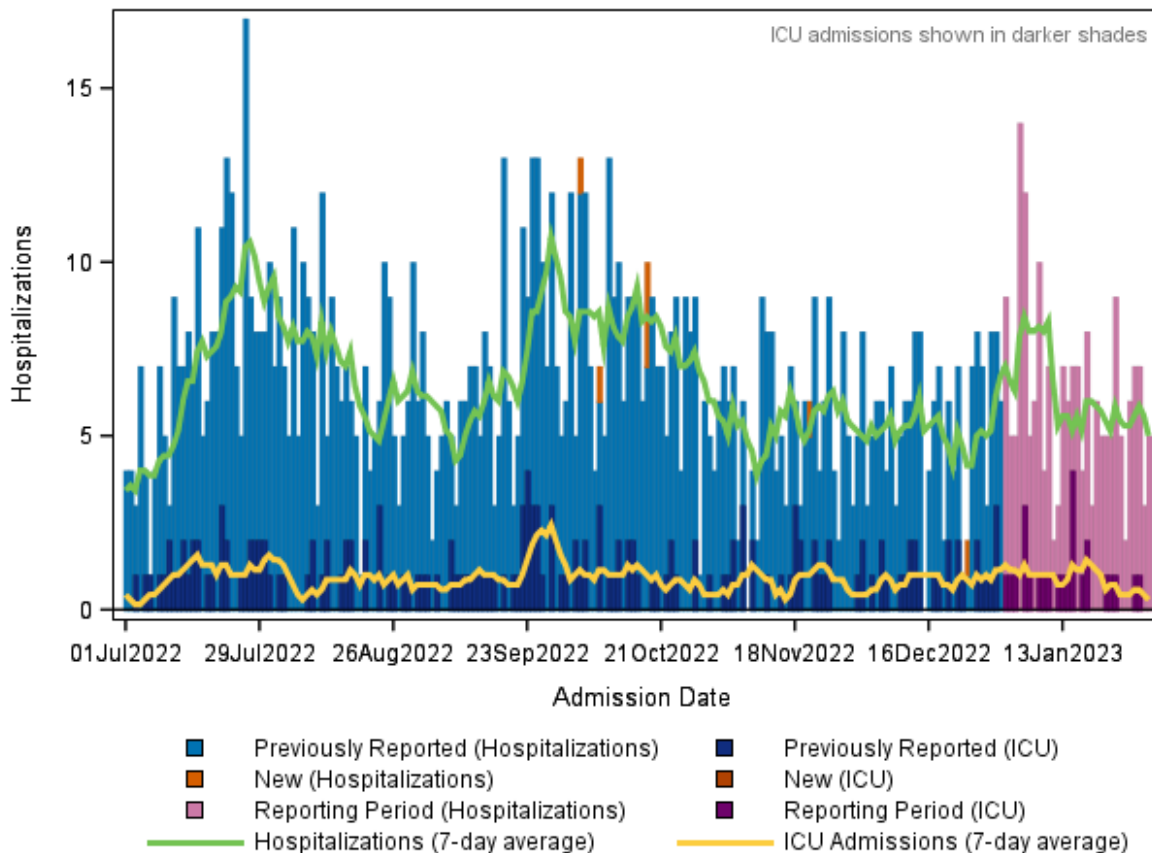
Data source: Panorama

Notes:

- LTC cases reflect positive PCR tests for COVID-19 among long-term care facility residents.
- **Previously Reported** refers to PCR positives that were included in previous COVID-19 monthly reports.
- **Reporting Period** refers to new PCR positives that occurred within the current monthly reporting period.
- **New** refers to PCR positives that occurred prior to the current monthly reporting period but were not included in prior reports due to lags in notification.
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COVID-19 Serious Outcomes

Figure 3: Daily COVID-19 hospital and ICU admissions, 1 July 2022 to 31 January 2023 (N=1393)

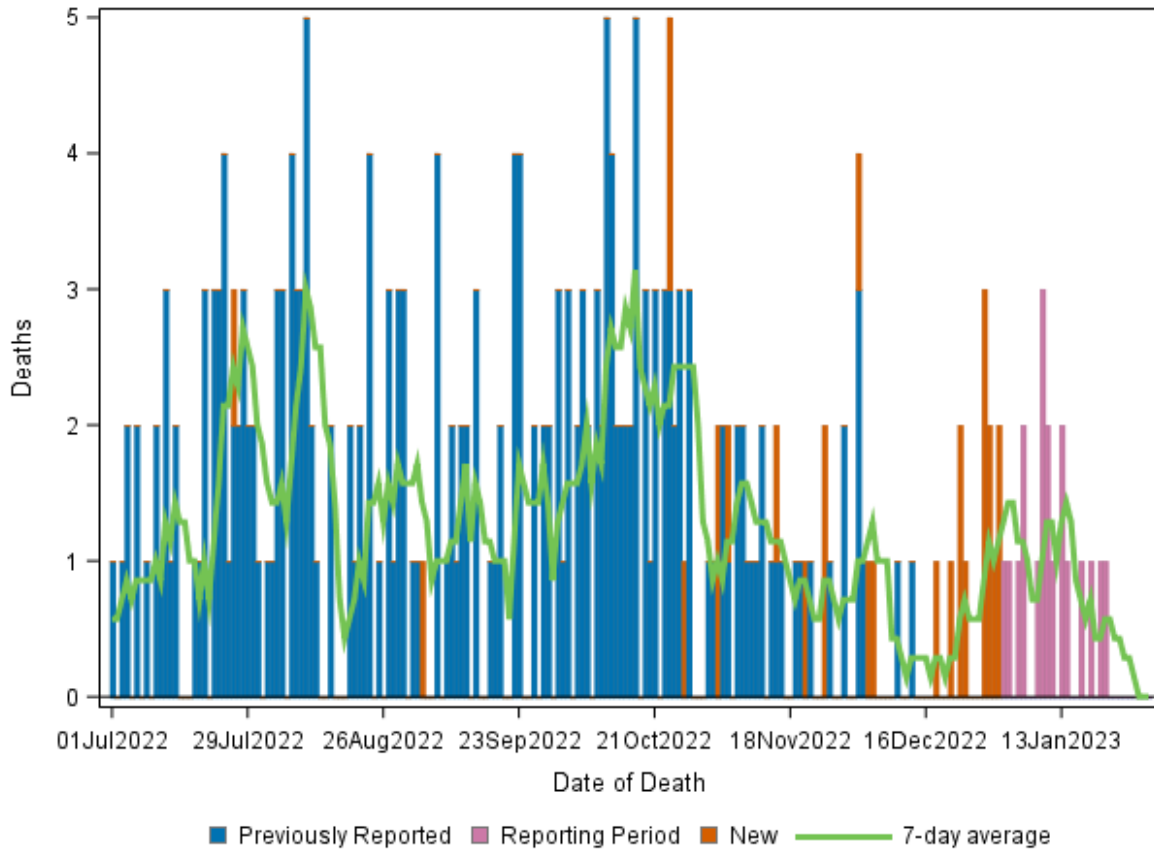


Data source: PPHLN, Meditech and STAR

Notes:

- **Previously Reported** refers to hospitalizations that were included in previous COVID-19 monthly reports.
- **Reporting Period** refers to new hospitalizations that occurred within the current monthly reporting period.
- **New** refers to hospitalizations that occurred prior to the current monthly reporting period but were not included in prior reports due to lags in notification.

Figure 4: Number and seven-day moving average of COVID-19 deaths, 1 July 2022 to 31 January 2023 (N=266)



Data source: Panorama

Notes:

- **Previously Reported** refers to deaths that were included in previous COVID-19 monthly reports.
- **Reporting Period** refers to new deaths that occurred within the current monthly reporting period.
- **New** refers to deaths that occurred prior to the current monthly reporting period but were not included in prior reports due to lags in notification.

Novel Coronavirus (COVID-19)

Table 1: PCR positive results, hospitalizations and deaths

	Number in reporting month	Number in previous month	Change from last month	Totals since 1 July 2022	Age range (years)	Median age (years)	Median LoS (days)
PCR Positives	3310	2835	475	33765	0 - 110	57	n/a
Hospitalizations	189	166	23	1393	0 - 102	75	7.0
Deaths	27	25	2	266	50 - 107	84	n/a

Data Sources: PCR positive results – Provincial Public Health Lab Network; Hospitalizations – PPHLN, Meditech, STAR; Deaths – Panorama

*Notes:

- Laboratory tests used to confirm the diagnosis of COVID-19 are PCR (polymerase chain reaction) tests.

Table 2: Hospitalization* and death rates by age group, July 1, 2022 to 31 January 2023

	Number	Crude rate per 100K	Relative Risk
Hospitalizations			
<18 years	26	15.7	0.7
18-49 years**	85	22.3	1.0
50-69 years	362	124.5	5.6
70+ years	920	593.1	26.5
Deaths			
<50 years	0	0.0	0.0
50-69 years**	17	5.8	1.0
70+ years	249	160.5	27.5

Data sources: Hospitalizations - PPHLN, Meditech and STAR; Deaths – Panorama; Denominator - Statistics Canada

Notes:

- * Hospitalizations for individuals missing age are excluded from analyses (counts, crude rates, relative risk)
- ** Denotes reference category. All risks are presented in comparison to the reference category. Comparisons are made by dividing the age-specific rates in the age category of interest to the age-specific rates in the reference category.

Table 3: Age-adjusted hospitalization* and death rates by vaccine status, July 1, 2022 to 31 January 2023

Vaccination Status	Number	Crude Rate per 100k Person-Years	Age-Adjusted Rate per 100k Person-Years
Hospitalizations			
Primary Series Incomplete	197	185.2	495.0
Primary Series Complete (not boosted)	223	132.9	345.1
Boosted (last dose >168 days prior)	462	244.8	238.2
Boosted (≤168 days prior)	511	437.3	248.5
Deaths			
Primary Series Incomplete	27	25.4	84.9
Primary Series Complete (not boosted)	28	16.7	61.4
Boosted (last dose >168 days prior)	82	43.5	45.2
Boosted (≤168 days prior)	129	107.0	41.1

Data sources: Hospitalizations - PPHLN, Meditech and STAR; Deaths – Panorama; Denominator - Statistics Canada

Notes:

- * Hospitalizations for individuals missing age are excluded from the analysis (counts, crude rates, age-adjusted rates),
- **primary series incomplete** refers to those who have one or fewer doses of any COVID-19 vaccine (save for Johnson & Johnson, wherein the initial dose counts as a complete series)
- **primary series complete** refers to those who have received two doses of any COVID-19 vaccine (or a single dose of Johnson & Johnson) but no subsequent dose
- Boosted refers to those who have completed their primary series and received at least one additional dose of any COVID-19 vaccine.
- The 168 day window is based on the current provincial immunization recommendations: <https://novascotia.ca/news/release/?id=20220826001>

Table 4: Summary of confirmed and probable COVID-19 cases and outcomes, July 1, 2022 to 31 January 2023

	Province-Wide
Number of cases	33765
Hospitalized (%)	4.1%
ICU (%)	0.6%
Deceased (%)	0.8%

Data sources: PCR positives PPHLN; Hospitalizations Meditech and STAR; Deaths Panorama

Notes:

- PCR testing criteria have changed at various points in the pandemic. Comparisons with historical data should be made with caution.
- Access to PCR tests is restricted to eligible populations as outlined in the following link: <https://www.nshealth.ca/coronavirustesting>.

Data Sources and Notes:

Panorama

- Data are valid to the day of the report at 04:00.
- Data presented in this report contain the information available at the time of data extraction. It may be incomplete pending follow-up. As more information becomes available, it will be included in subsequent reports.

Provincial Public Health Laboratory Network

- Data are valid to the day of the report at 05:30.
- Data presented in this report contain the information available at the time of data extraction. It may be incomplete pending follow-up. As more information becomes available, it will be included in subsequent reports.

Meditech and STAR (Nova Scotia Health)

- Data are valid to the day of the report at 04:00.
- Data are based on positive lab results and reflect patients with a valid health card number at the time of testing or admission.
- Data presented in this report contain the information available at the time of data extraction. It may be incomplete pending follow-up. As more information becomes available, it will be included in subsequent reports.

COVID-19 Case Definitions

<https://www.canada.ca/en/public-health/services/diseases/2019-novel-coronavirus-infection/health-professionals/national-case-definition.html>

COVID-19 Hospitalization Definitions

Hospitalization: A person admitted to hospital with a positive PCR for SARS-CoV-2 within 14 days of admission, or up to 3 days post-admission and with no epidemiologic link to the hospital (i.e., excluding nosocomial infection), and excluding specialized service unrelated to COVID-19 (e.g., surgery, obstetrics, etc).

ICU: A person admitted for at least 24 hours to the ICU and with a positive PCR for SARS-CoV-2 within 14 days prior to ISU admission or anytime after hospital admission.