



COVID-19 daily epidemiology update

Updated: December 23, 2021, 7 pm EST

i Holiday weekend

The health region data in the Current Situation section will be updated daily on December 24 to 28 by 11 p.m. EST. The regular update schedule for all other sections will resume on Wednesday, December 29, 2021.

Summary of COVID-19 cases across Canada and over time. Contains detailed data about the spread of the virus over time and in different regions of the country. Includes breakdowns by age and sex or gender. Provides an overview of hospitalizations and deaths, testing, variants of concern and exposures.

Key updates as of December 23, 2021, 7 pm EST

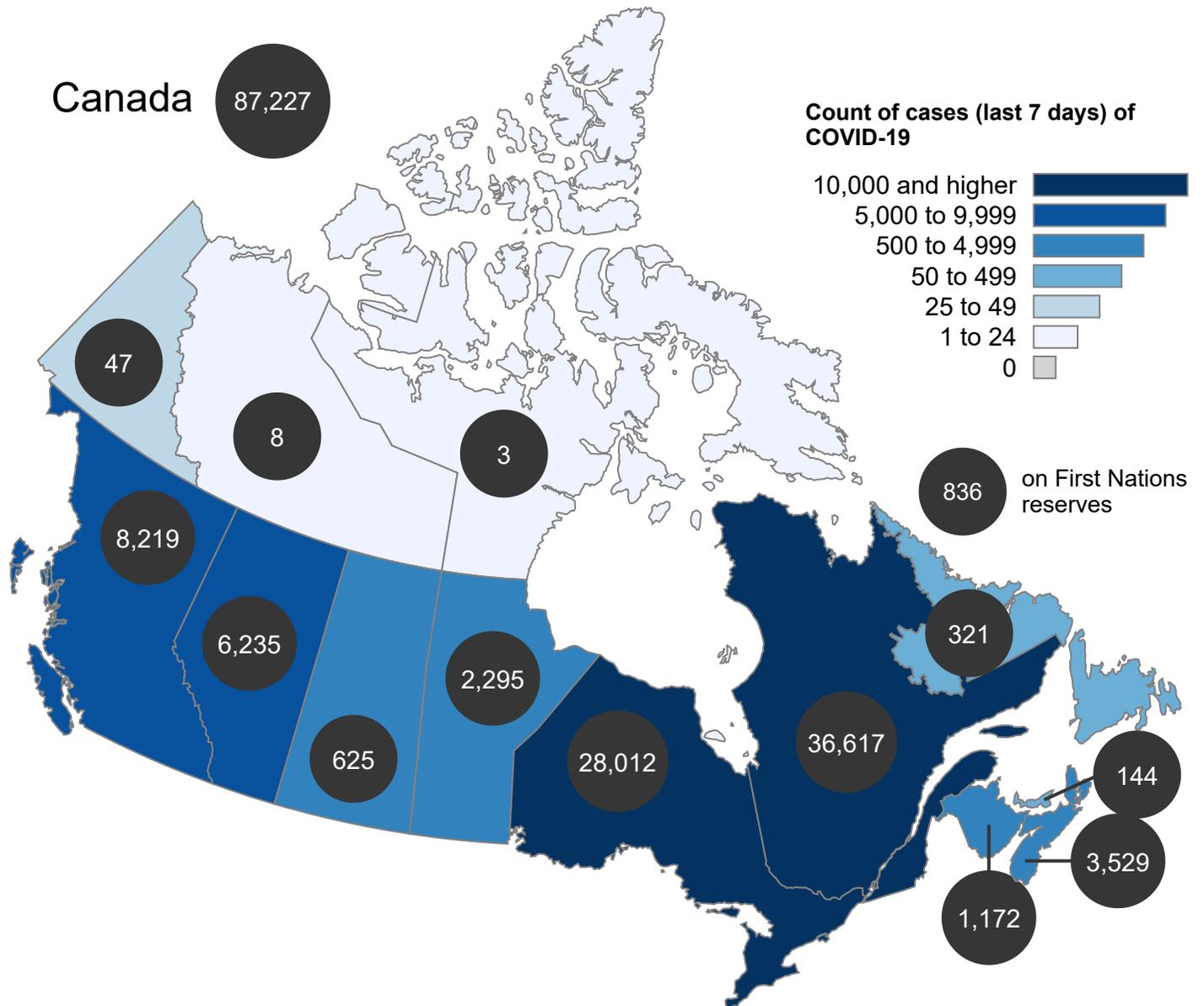
Cases today 20,693	Total cases 1,945,754	Active cases 101,197	Total resolved 1,814,426	Deaths today 18	Total deaths 30,131
Total tests performed 51,486,352	Daily percent positive (last 7 days) 8.5%	Daily tests per 100,000 population (last 7 days) 370			

- We update these sections Monday to Friday at 7:00 PM EST: Key updates, Current situation and National overview. Laboratory data represents specimens received by labs up to December 21, 2021 to allow time to process results.
- We update these sections every Friday: Epidemic curve, Demographics, How people were exposed, and Severe illness and outcomes.
- Of the 12 jurisdictions reporting updates, no new cases were reported in 0 provinces and territories in the past 24 hours.
- Of the 12 jurisdictions reporting updates, no new deaths were reported in 6 provinces and territories in the past 24 hours.
- Resulting from the delays in data entry caused by the recent high number of cases, Nova Scotia issued a [press release](#) on December 10 indicating that they would begin announcing the daily number of new cases using laboratory test results, not data from Panorama (their public health disease information system) on the [Nova Scotia COVID-19 Dashboard](#). Although the laboratory test results data are more accurate overall, they contain a small number of duplicate results because some people have been tested

more than once. Starting December 23, duplicate results are being removed from reported case numbers. While PHAC initially maintained the use of Nova Scotia's Panorama data for the daily changes to the cumulative case counts, Nova Scotia stopped reporting the Panorama new and cumulative cases on their dashboard as of December 23. These reporting changes are expected to be temporary. In the absence of Panorama data, PHAC will report Nova Scotia's cumulative cases up until December 9 and add the daily lab positive cases reported. PHAC will use the estimated number of active cases from their updates to calculate the number of recoveries as of December 10. Once Nova Scotia resumes reporting case data from Panorama, the PHAC data will be retroactively corrected.

Current situation

Figure 1a. of of COVID-19, by as of December 23, 2021



The count of cases (last 7 days) of COVID-19 in **Canada** was **87,227** as of December 23, 2021.

This information is based on data our provincial and territorial partners published on cases, deaths, and testing daily, and are current as of the day they are published. Today's numbers are current as of December 23, 2021, 2021, 7 PM EST. For the most up to date data for any province, territory or city, please visit their website. The number of cases or deaths reported on previous days may differ slightly from those on the provincial and territorial websites as these websites may update historic case and death counts as new information becomes available.

Resulting from the delays in data entry caused by the recent high number of cases, Nova Scotia issued a press release on December 10 indicating that they would begin announcing the daily number of new cases using laboratory test results, not data from Panorama (their public health disease information system) on the Nova Scotia COVID-19 Dashboard. Although the laboratory test results data are more accurate overall, they contain a small number of duplicate results because some people have been tested more than once. Starting December 23, duplicate results are being removed from reported case numbers. While PHAC initially maintained the use of Nova Scotia's Panorama data for the daily changes to the cumulative case counts, Nova Scotia stopped reporting the Panorama new and cumulative cases on their dashboard as of December 23. These reporting changes are expected to be temporary. In the absence of Panorama data, PHAC will report Nova Scotia's cumulative cases up until December 9 and add the daily lab positive cases reported. PHAC will use the estimated number of active cases from their updates to calculate the number of recoveries as of December 10. Once Nova Scotia resumes reporting case data from Panorama, the PHAC data will be retroactively corrected.

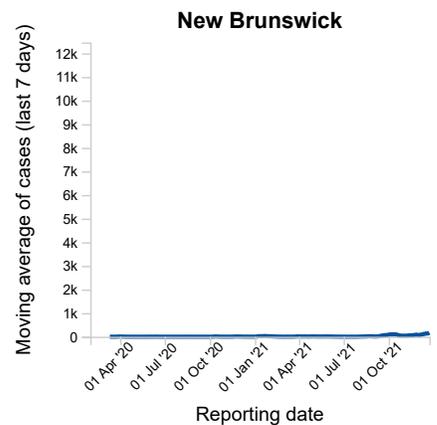
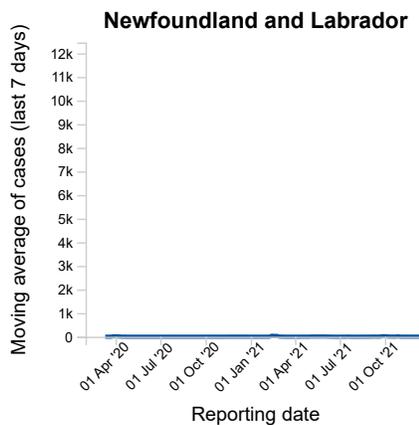
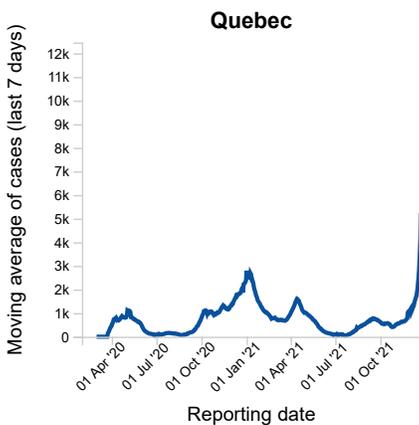
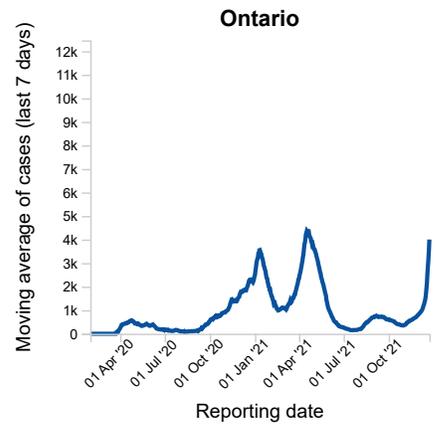
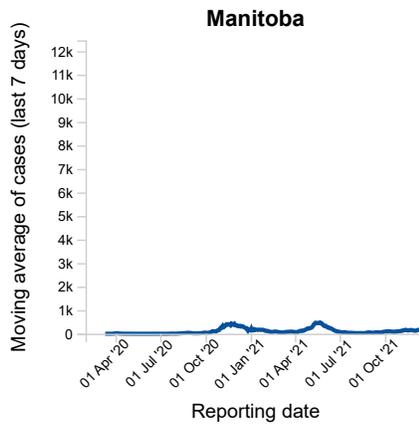
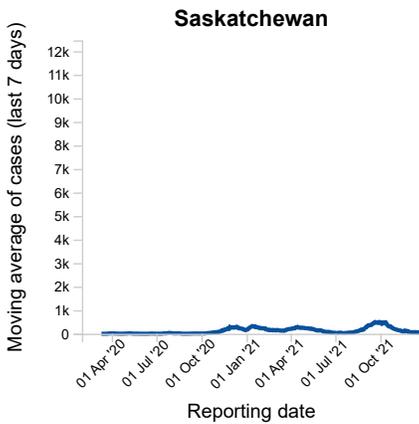
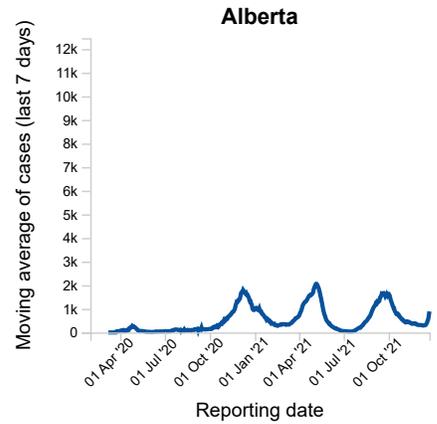
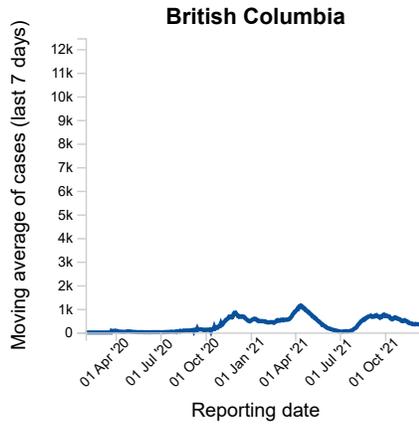
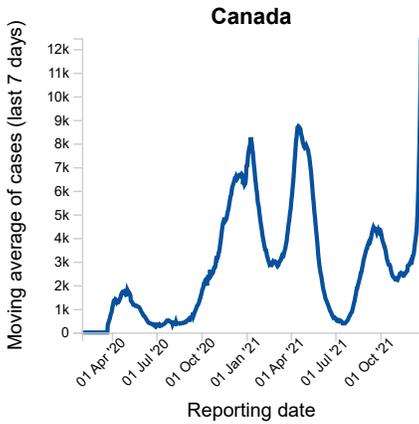
Areas in Canada with cases of COVID-19 as of December 23, 2021

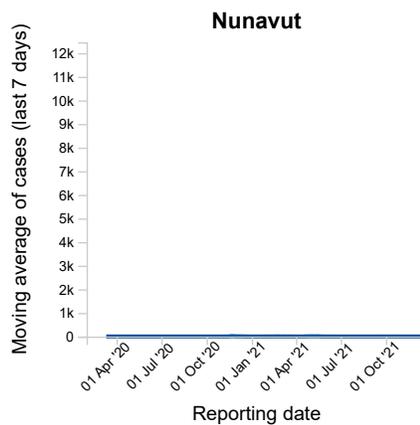
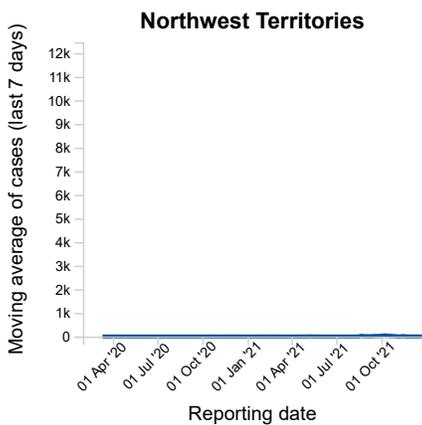
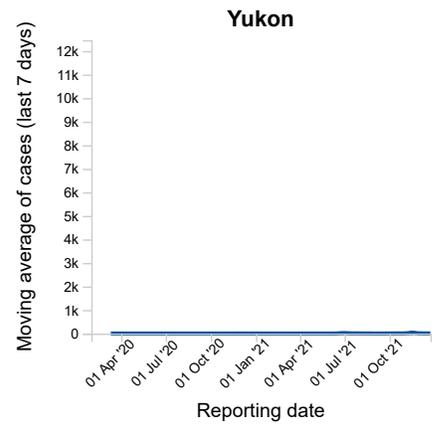
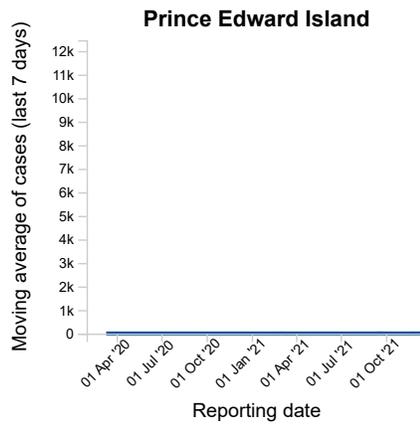
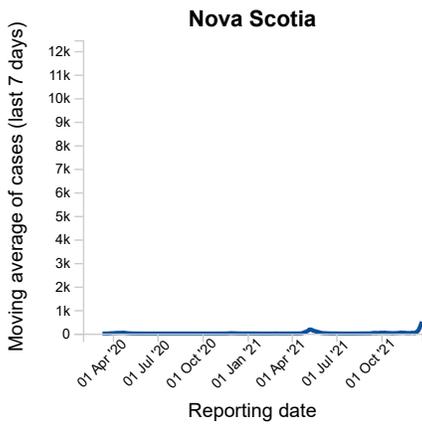
Location	Total cases		Cases last 7 days		Active cases		Resolved	Deaths		Deaths last 7 days		Total tests performed	Moving average tests performed last 7 days		Moving average positivity last 7 days
	Count	Rate*	Count	Rate*	Count	Rate*	Count	Count	Rate*	Count	Rate*	Count	Count	Rate*	Percent
British Columbia	233,217	4,472	8,219	158	8,935	171	221,872	2,410	46	14	0.3	4,915,337	15,729	302	6.5%
Alberta	346,705	7,804	6,235	140	8,359	188	335,047	3,299	74	14	0.3	6,294,317	9,055	204	8.1%
Saskatchewan	82,640	7,004	625	53	789	67	80,906	945	80	4	0.3	1,313,615	1,607	136	4.5%
Manitoba	72,834	5,263	2,295	166	2,933	212	68,532	1,369	99	10	0.7	1,288,848	3,148	228	9.9%
Ontario	667,353	4,501	28,012	189	32,412	219	624,801	10,140	68	38	0.3	20,557,896	51,436	347	8.4%
Quebec	511,095	5,940	36,617	426	41,807	486	457,630	11,658	135	31	0.4	14,242,598	47,155	548	10.5%
Newfoundland and Labrador	2,427	466	321	62	321	62	2,088	18	3	0	0.0	421,734	1,714	329	2.3%
New Brunswick	11,322	1,435	1,172	149	1,565	198	9,606	151	19	7	0.9	609,237	2,023	256	7.7%
Nova Scotia	13,130	1,324	3,529	356	3,844	387	9,175	111	11	1	0.1	1,524,266	8,688	876	5.2%
Prince Edward Island	588	358	144	88	165	100	423	0	0	0	0.0	248,910	759	462	2.8%
Yukon	1,661	3,864	47	109	45	105	1,602	14	33	0	0.0	9,129	N/A	N/A	N/A
Northwest Territories	2,090	4,593	8	18	19	42	2,059	12	26	0	0.0	37,059	38	84	3.0%
Nunavut	679	1,723	3	8	3	8	672	4	10	0	0.0	23,330	29	75	0.0%
Canada	1,945,754	5,087	87,227	228	101,197	265	1,814,426	30,131	79	119	0.3	51,486,352	141,381	370	8.5%

* Rate per 100,000 population

Figure 1b. **Moving average** of **cases (last 7 days)** of **COVID-19 in Canada as of December 23, 2021, 7 pm EST**

The figures below show cases over time. The range of dates (January 31st, 2020 - present date) is the same for each figure. This allows you to compare the provinces and territories on the same timescale.





- a. This information is based on data from our provincial and territorial partners. Data about cases was last updated on December 23, 2021. Laboratory data includes specimens received by labs up to December 21, 2021. For the most up to date data for any province, territory or city, please visit their web site.
- b. The 7-day moving average is the total of the daily numbers for the previous 7 days (up to and including the day of the last update), divided by the number of days for which data is available. We go back and update the moving averages as provinces and territories submit more data. We calculate the national 7-day moving average by summing the 7-day moving average from the provinces and territories then dividing by the national population if a rate is calculated.
- c. Resulting from the delays in data entry caused by the recent high number of cases, Nova Scotia issued a [press release](#) on December 10 indicating that they would begin announcing the daily number of new cases using laboratory test results, not data from Panorama (their public health disease information system) on the [Nova Scotia COVID-19 Dashboard](#). Although the laboratory test results data are more accurate overall, they contain a small number of duplicate results because some people have been tested more than once. Starting December 23, duplicate results are being removed from reported case numbers. While PHAC initially maintained the use of Nova Scotia's Panorama data for the daily changes to the cumulative case counts, Nova Scotia stopped reporting the Panorama new and cumulative cases on their dashboard as of December 23. These reporting changes are expected to be temporary. In the absence of Panorama data, PHAC will report Nova Scotia's cumulative cases up until December 9 and add the daily

lab positive cases reported. PHAC will use the estimated number of active cases from their updates to calculate the number of recoveries as of December 10. Once Nova Scotia resumes reporting case data from Panorama, the PHAC data will be retroactively corrected.

[Downloadable data \(in .csv format\)](#).

Note: Out of the total number of people tested, 76 were repatriated travellers, of which 13 were cases.

National overview

There have been over **51,486,352** COVID-19 tests performed in Canada or **1,346,185 tests per 1 million people**. For information about testing trends, please see the [Detailed weekly epidemiological report \(PDF\)](#).

Table 1. Daily* change in the number of cases, deaths and tests performed, by province or territory, as of December 23, 2021, 7 pm EST

Location	New cases	New deaths	Tests performed
British Columbia	2,046	1	16,259
Alberta	1,625	0	11,516
Saskatchewan	198	1	1,897
Manitoba	551	1	3,592
Ontario	5,790	7	49,285
Quebec	9,397	6	54,539
Newfoundland and Labrador	100	0	2,461
New Brunswick	257	2	2,769
Nova Scotia	689	0	7,859
Prince Edward Island	28	0	770
Yukon	9	0	N/A
Northwest Territories	N/A	N/A	43
Nunavut	3	0	8
Canada	20,693	18	150,998

* The new cases, deaths and tests reflect the difference between a province or territory's current report and their last report. Some provinces and territories do not update daily.

N/A means that no daily update was provided by the province or territory.

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COVID-19 variants in Canada

All viruses, including COVID-19, change over time. These changes are called mutations, and result in variants of the virus. Not all mutations are of concern. Most do not cause more severe illness. However, some mutations result in variants of concern or variants of interest.

A variant of concern has mutations that are significant to public health. Before a variant of interest is considered one of concern, scientists and public health professionals must determine if the mutations result in an actual change in the behaviour of the virus. For example, it might:

- spread more easily
- cause more severe illness
- require different treatments, or
- reduce vaccine effectiveness

There are several variants of interest that have mutations similar to variants of concern, but we don't yet know if they pose a higher risk to public health.

The Public Health Agency of Canada (PHAC) works with provincial and territorial partners and the Canadian COVID-19 Genomics Network ([CanCOGeN](#)), to sequence a percentage of all positive COVID-19 test results. Sequencing reveals the genetic code of the virus, which tells us which variant is involved in a specific case of COVID-19. We report the proportion of COVID-19 variants in Canada every week.

We collect evidence to determine if new variants meet the definition for a variant of concern or a variant of interest. Many variants are being tracked across Canada and around the world. Variants of concern now represent a majority of COVID-19 cases in Canada.

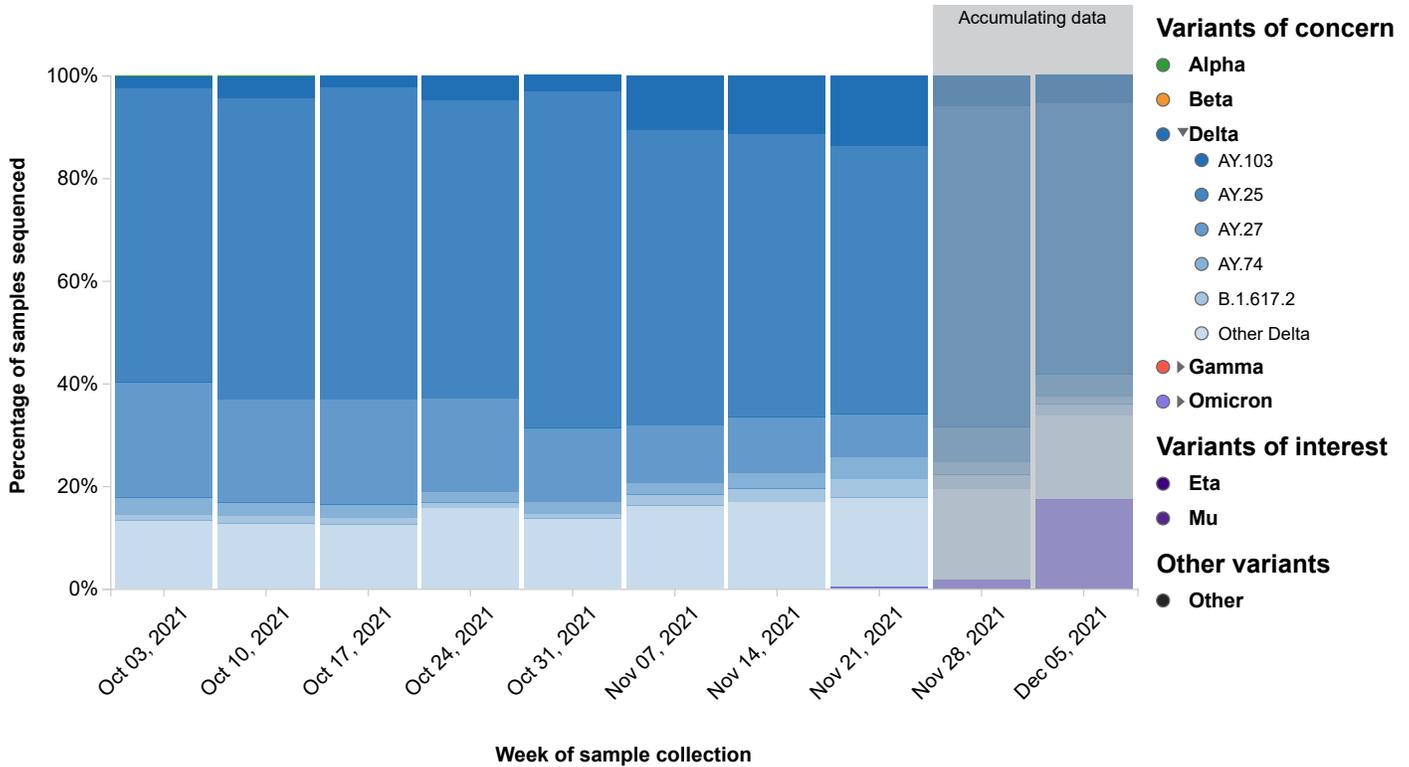
Current variants of concern in Canada include:

- Alpha (B.1.1.7)
- Beta (B.1.351)
- Gamma (P.1)
- Delta (B.1.617.2)
- Omicron (B.1.1.529)

New variants will continue to appear. We must remain vigilant and take all available measures to limit spread.

Figure 2. Weekly variant breakdown Updated: December 24, 2021, 4 pm EDT

i The graphic shows the percentage mix of COVID-19 variants detected in Canada through whole genome sequencing, by week of sample collection. You can see the numbers for each date by hovering over, tabbing to, or long-pressing any of the bars. To see a specific variant or variant grouping, click or press return. Repeat to restore the complete graph. Sublineages or offshoots for some variants can be revealed or hidden by clicking on the name of the variant in the legend.



This information is based on whole genome sequencing from surveillance testing in all provinces and territories. In addition to sequencing done by the National Microbiology Laboratory in Winnipeg, data is included from provincial and territorial laboratories.

Sequencing takes from 1 to 3 weeks to complete, so the proportions for recent weeks may change as more data are added. Surveillance in each province or territory is organized and prioritized according to local needs and may change from time to time. Because of differences in local sampling and reporting, the percentages illustrate trends rather than precise measurements.

Weekly variant breakdown

Percentage of COVID-19 cases identified through whole genome sequencing, presented by variant and by week of sample collection.

Variant Grouping	Oct 03, 2021 (n=5,707)	Oct 10, 2021 (n=4,421)	Oct 17, 2021 (n=4,769)	Oct 24, 2021 (n=3,756)	Oct 31, 2021 (n=4,440)	Nov 07, 2021 (n=4,175)	Nov 14, 2021 (n=4,990)	Nov 21, 2021 (n=5,680)	Nov 28, 2021 (n=4,125)	Dec 05, 2021 (n=2,300)
Variants of concern	100.0%	100.0%	99.9%	99.9%	100.1%	99.9%	99.9%	100.0%	100.0%	100.0%
Alpha	0.1%	0.1%	-	0.0%	-	-	0.0%	-	-	-
B.1.1.7	0.1%	0.1%	-	0.0%	-	-	0.0%	-	-	-
Beta	-	-	-	0.0%	-	-	-	-	-	-
B.1.351	-	-	-	0.0%	-	-	-	-	-	-
Delta	99.9%	99.9%	99.9%	99.9%	100.1%	99.9%	99.9%	99.7%	98.2%	82.7%
AY.103	2.4%	4.3%	2.3%	4.7%	3.1%	10.6%	11.3%	13.7%	5.9%	5.5%
AY.25	57.3%	58.8%	60.8%	58.1%	65.7%	57.5%	55.2%	52.3%	62.6%	52.8%
AY.27	22.5%	20.0%	20.4%	18.2%	14.4%	11.2%	10.9%	8.4%	6.9%	4.4%
AY.74	3.3%	2.6%	2.6%	2.1%	2.3%	2.2%	3.0%	4.2%	2.4%	1.4%
B.1.617.2	1.1%	1.4%	1.2%	1.1%	0.9%	2.2%	2.6%	3.6%	2.8%	2.2%
Other Delta	13.3%	12.8%	12.6%	15.7%	13.7%	16.2%	16.9%	17.5%	17.6%	16.4%
Gamma	0.0%	-	0.0%	0.0%	-	-	-	-	-	-
P.1	-	-	-	0.0%	-	-	-	-	-	-
P.1.12	0.0%	-	0.0%	-	-	-	-	-	-	-
P.1.14	0.0%	-	-	-	-	-	-	-	-	-
Omicron	-	-	-	-	-	-	-	0.3%	1.8%	17.3%
BA.1	-	-	-	-	-	-	-	0.3%	1.7%	17.3%
BA.2	-	-	-	-	-	-	-	-	0.1%	-
Variants of interest	-	0.0%	-	0.0%	-	-	-	-	-	-
Eta	-	-	-	0.0%	-	-	-	-	-	-
B.1.525	-	-	-	0.0%	-	-	-	-	-	-

Variant Grouping	Oct 03, 2021 (n=5,707)	Oct 10, 2021 (n=4,421)	Oct 17, 2021 (n=4,769)	Oct 24, 2021 (n=3,756)	Oct 31, 2021 (n=4,440)	Nov 07, 2021 (n=4,175)	Nov 14, 2021 (n=4,990)	Nov 21, 2021 (n=5,680)	Nov 28, 2021 (n=4,125)	Dec 05, 2021 (n=2,125)
Mu	-	0.0%	-	-	-	-	-	-	-	-
B.1.621	-	0.0%	-	-	-	-	-	-	-	-
Other variants	0.0%	-	0.0%	0.1%						
Other	0.0%	-	0.0%	0.1%						



Note: The shaded columns on the right represent a period of accumulating data.

Contributing laboratories:

- Saskatchewan - Roy Romanow Provincial Laboratory (RRPL)
- Public Health Ontario (PHO)
- Newfoundland and Labrador - Eastern Health
- New Brunswick – Vitalité Health Network
- Manitoba Cadham Provincial Laboratory
- Laboratoire de santé publique du Québec (LSPQ)
- BCCDC Public Health Laboratory
- Alberta Precision Labs - Edmonton (APL)
- National Microbiology Laboratory (NML) - supplemental sequencing for all provinces and territories

Detailed case information

The tables and figures below reflect detailed case information provided to the Public Health Agency of Canada (PHAC) by health authorities in the provinces and territories. This data is updated every week. It may change as we get more information about cases.

Updated: December 24, 2021, 7 pm EST

Epidemic curve

As of December 24, 2021, 7 pm EST, PHAC has received detailed case report data on 1,917,072 cases. Both exposure and symptom onset date were available for 1,403,596 (73.2%) cases¹.

The shaded area on the far right of Figure 3 represents a period of accumulating data. This is the period of time (1 to 2 weeks) before the latest cases are reported to PHAC. This delay is a result of the time required to seek health care, get tested and receive results. It also takes time for public health authorities to gather information on cases. We update this information as it becomes available.

Figure 3. COVID-19 cases (n=1,917,072 ¹) in Canada by date ² as of December 24, 2021, 7 pm EST (total cases)

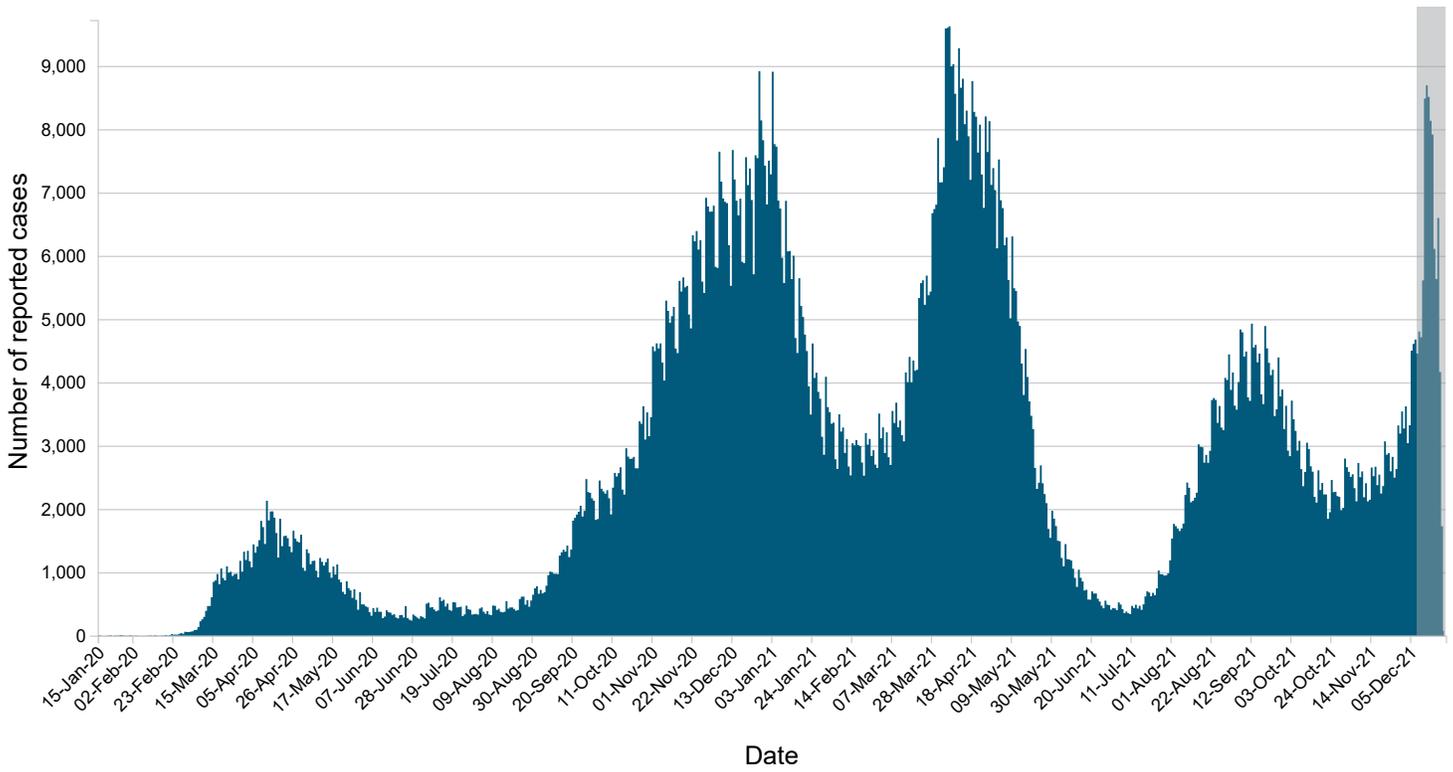


Figure 3. COVID-19 cases (n=1,403,596 ¹) in Canada by date ² as of December 24, 2021, 7 pm EST (by exposure)

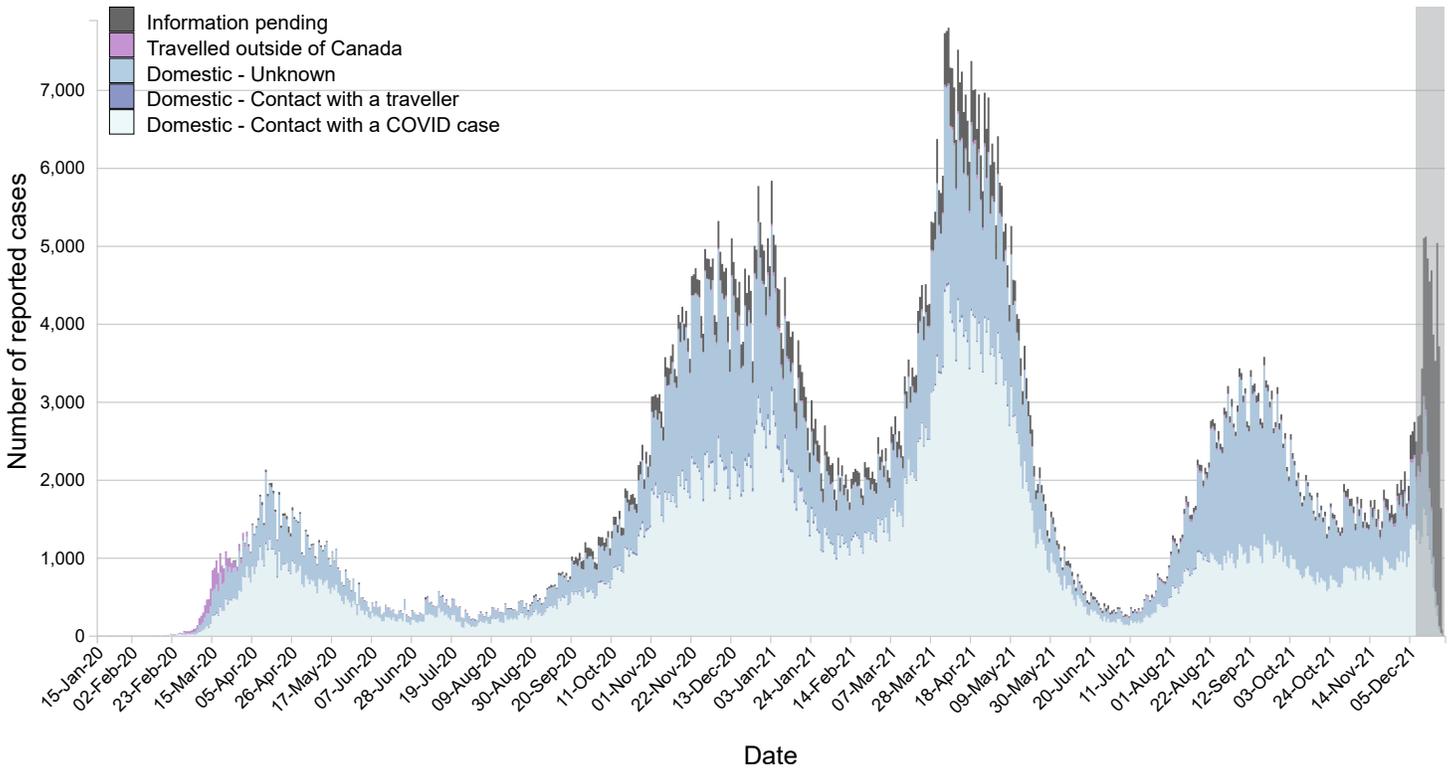


Figure 3. COVID-19 cases (n=1,821,075 ¹) in Canada by date ² as of December 24, 2021, 7 pm EST (by age - 10 year groups)

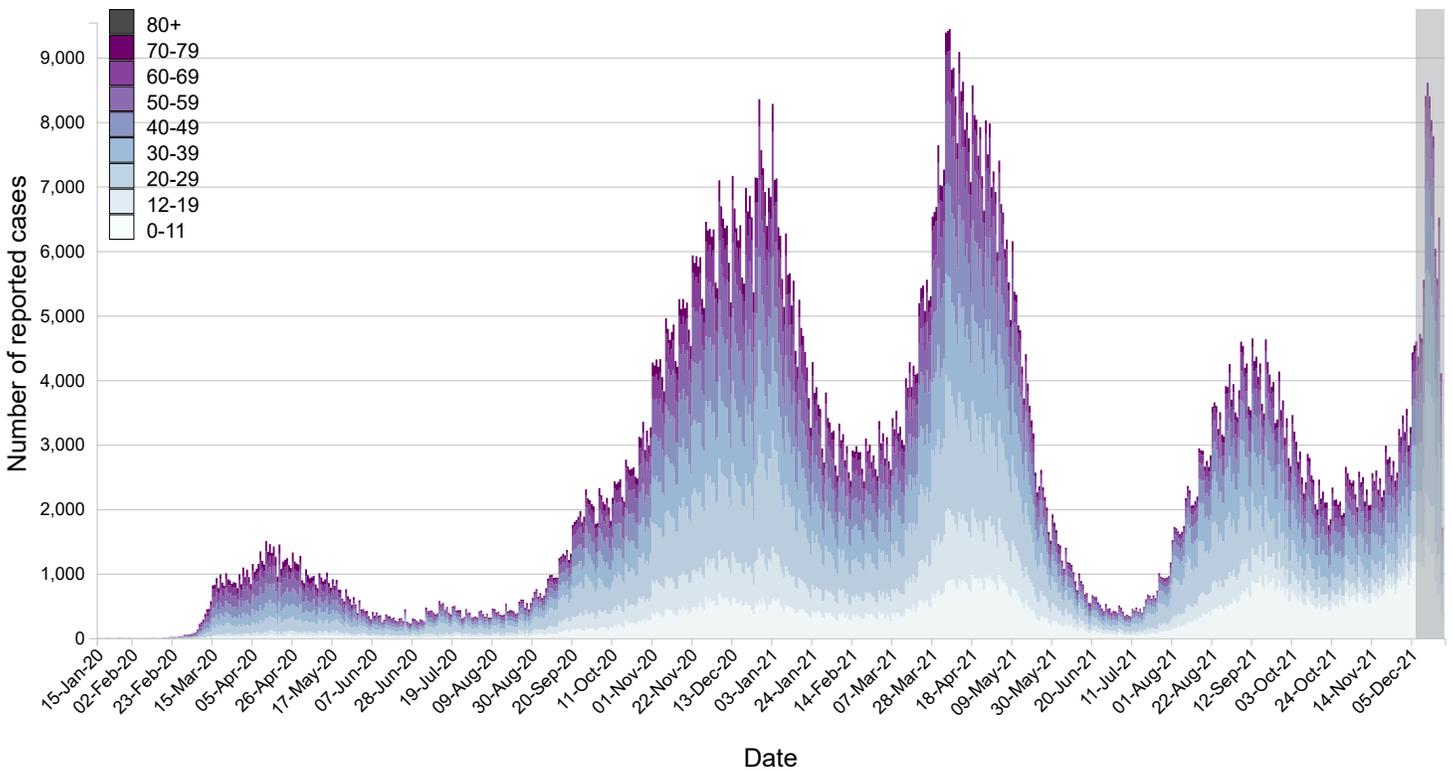
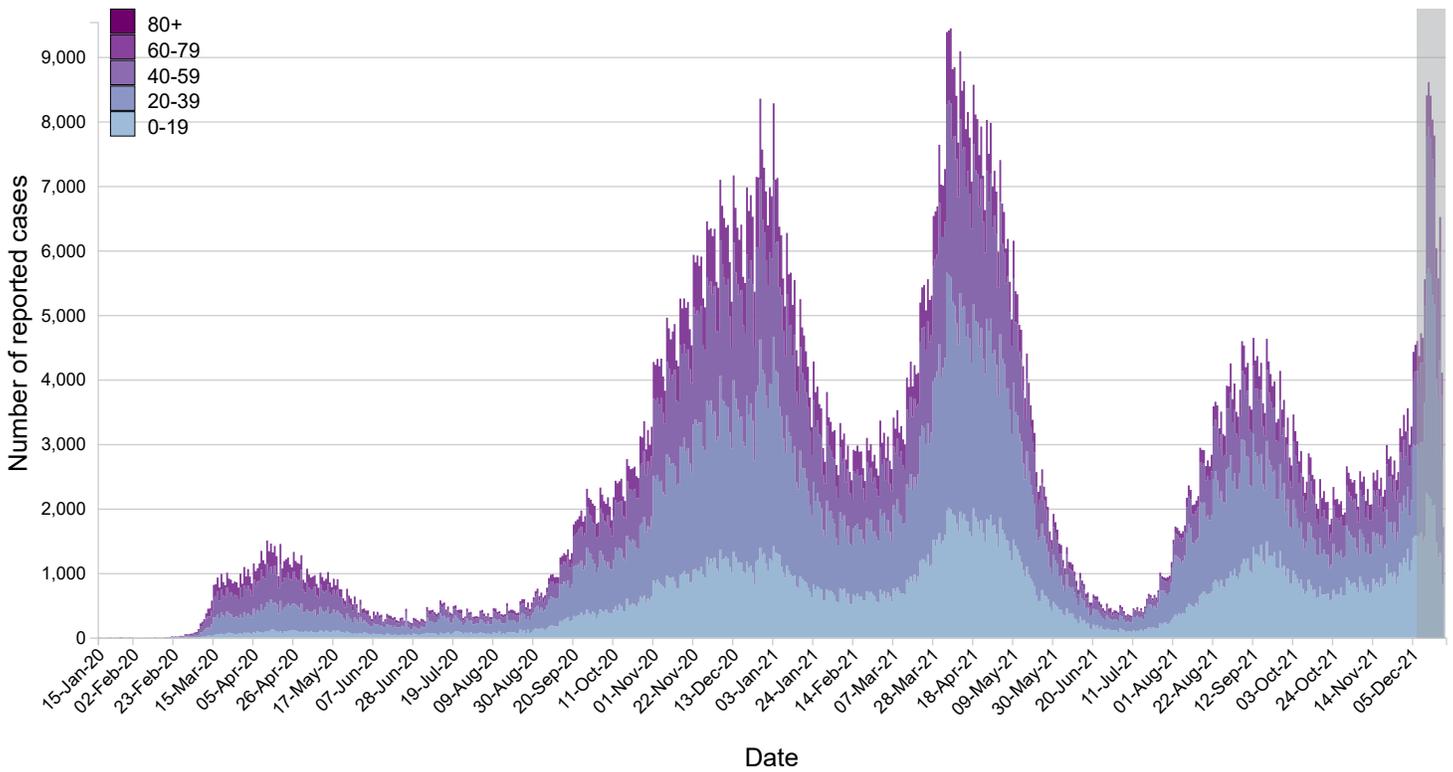


Figure 3. COVID-19 cases (n=1,821,075 ¹) in Canada by date ² as of December 24, 2021, 7 pm EST (by age - 20 year groups)



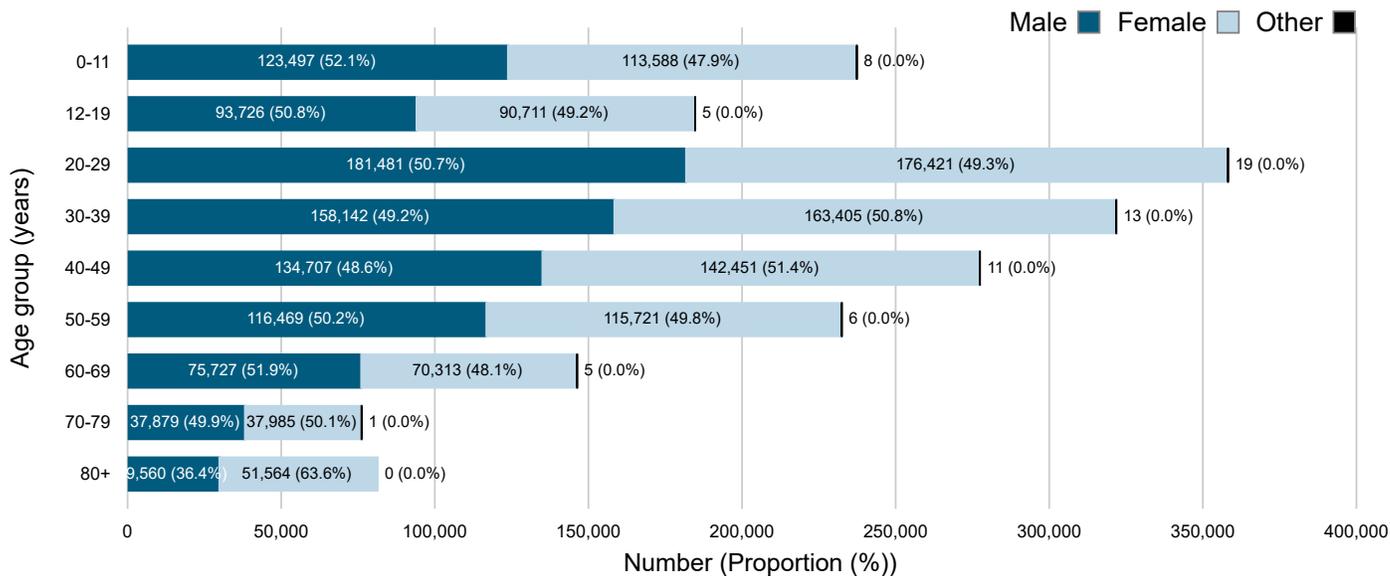
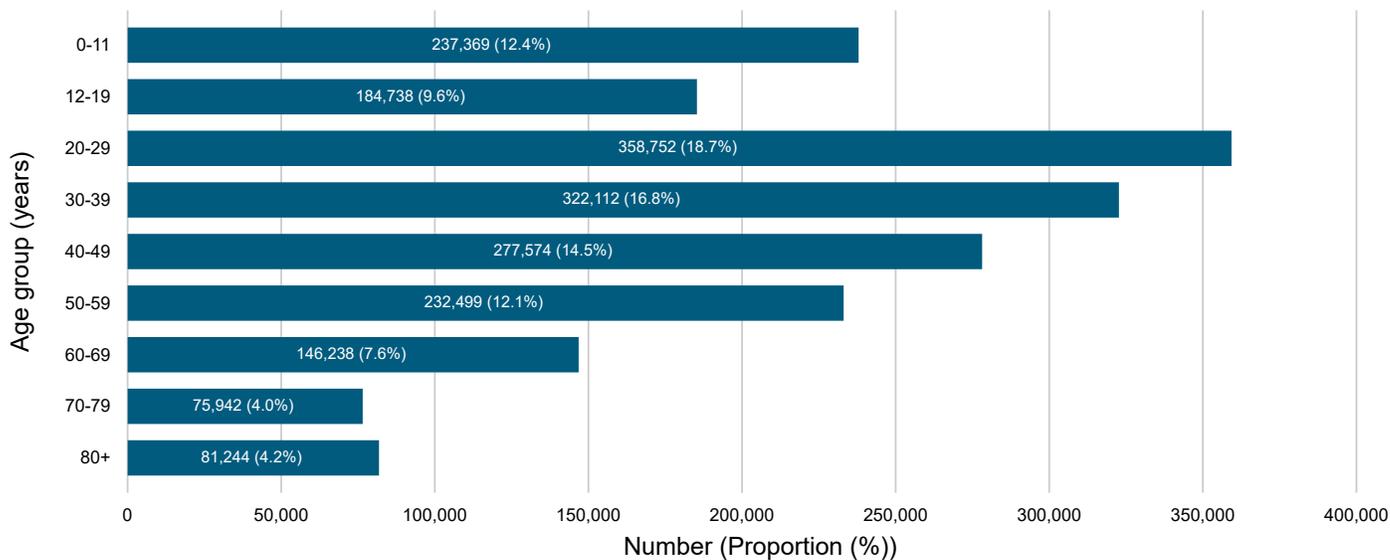
This figure may underestimate the total number of cases among returning travelers. Exposure history is not available for all cases and jurisdictions have not all consistently reported exposure history to PHAC throughout the pandemic.

Demographics

We have detailed case report data from 1,917,072 cases. We know the age of patients in 99.97% of cases, and both age and gender in 99.81% of cases.

Of the cases reported in Canada so far, 50.3% were female and 35.5% were between 20 and 39 years old (Figure 4).

Figure 4. distribution of COVID-19 cases (n=1,916,468 ¹) in Canada as of December 24, 2021, 7 pm EST ⁴



Age by gender ⁴ distribution of COVID-19 cases (n=1,916,468 ¹) in Canada, December 24, 2021, 7 pm EST

Age group (years)	Number of cases with case reports (percentage)	Number of male cases (percentage)	Number of female cases (percentage)	Number of other cases (percentage)
0-11	237,369 (12.4%)	123,497 (13.0%)	113,588 (11.8%)	8 (11.8%)
12-19	184,738 (9.6%)	93,726 (9.9%)	90,711 (9.4%)	5 (7.4%)
20-29	358,752 (18.7%)	181,481 (19.1%)	176,421 (18.3%)	19 (27.9%)
30-39	322,112 (16.8%)	158,142 (16.6%)	163,405 (17.0%)	13 (19.1%)
40-49	277,574 (14.5%)	134,707 (14.2%)	142,451 (14.8%)	11 (16.2%)
50-59	232,499 (12.1%)	116,469 (12.2%)	115,721 (12.0%)	6 (8.8%)
60-69	146,238 (7.6%)	75,727 (8.0%)	70,313 (7.3%)	5 (7.4%)
70-79	75,942 (4.0%)	37,879 (4.0%)	37,985 (3.9%)	1 (1.5%)
80+	81,244 (4.2%)	29,560 (3.1%)	51,564 (5.4%)	0 (0.0%)
Total	1,916,468 (100%)	951,188 (100%)	962,159 (100%)	68 (100%)

How people were exposed ³

In , detailed case report data were provided for 1,917,072 cases. We have exposure history for 1,403,596 (73.2%) cases. The probable exposure setting of these cases ¹ are:

- any exposure that occurred in Canada: **1,269,129 (90.4%)**, including
 - from contact with a known COVID case: **731,686 (52.1%)**
 - from contact with a traveller: **9,721 (0.7%)**
 - from an unknown source: **527,722 (37.6%)**
- currently unknown (information pending): **120,961 (8.6%)**
- travelled outside of Canada: **13,506 (1.0%)**

Cases following vaccination

Data extracted on December 17, 2021 for cases from December 14, 2020 up until December 04, 2021.

While the COVID-19 vaccines are highly effective, a percentage of the population who are vaccinated may become infected with COVID-19 if they are exposed to the virus that causes it. This means that even with high vaccine effectiveness, a percentage of people who are vaccinated against COVID-19 will still get sick and some may be hospitalized or die.

It is also possible that a person could be infected just before or just after vaccination and still get sick. It typically takes about two weeks for the body to build protection after vaccination, so a person could get sick if the vaccine has not had enough time to provide protection.

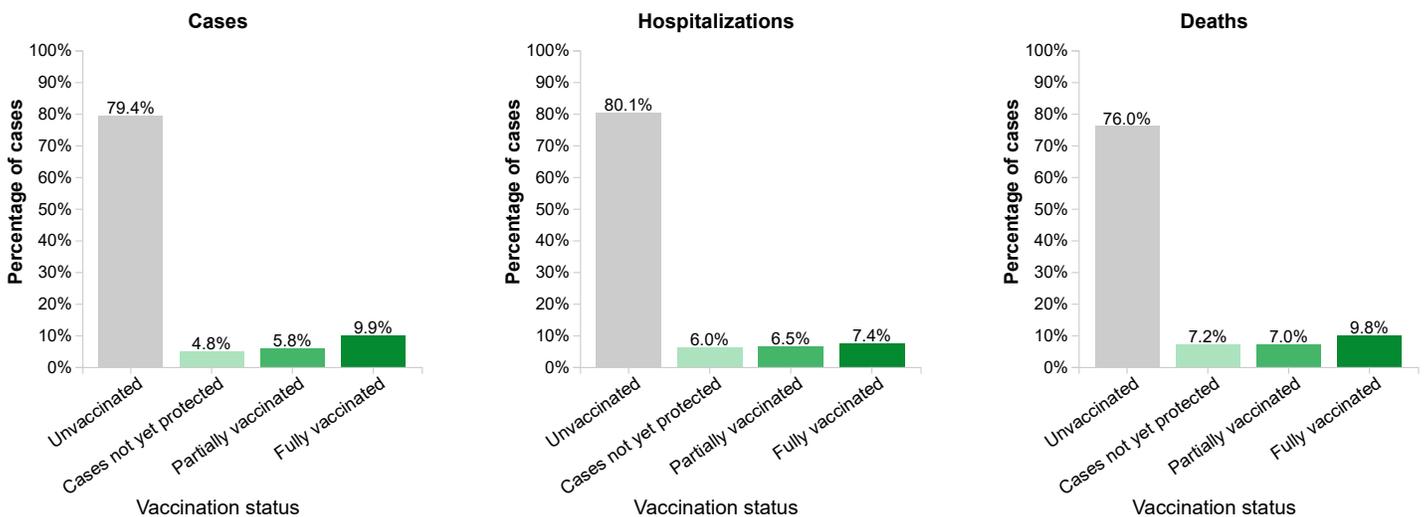
Cases reported since the start of the vaccination campaign, as of December 04, 2021

Since the start of the vaccination campaign on December 14, 2020, PHAC received case-level vaccine history data for 79.2% (n=893,095) of COVID-19 cases aged 12 years or older.

Of these cases:

- 709,123 (79.4%) were unvaccinated at the time of their episode date
- 43,114 (4.8%) were not yet protected by the vaccine, as their episode date occurred less than 14 days after their first dose
- 52,116 (5.8%) were only partially vaccinated, as their episode date occurred either 14 days or more after their first dose or less than 14 days after their second dose
- 88,742 (9.9%) were fully vaccinated, as their episode date occurred 14 days or more after their second dose

Figure 5. **Distribution** of confirmed COVID-19 cases reported to PHAC by vaccination status as of December 04, 2021



Characteristics and severe outcomes associated unvaccinated, partially vaccinated and fully vaccinated confirmed cases reported to PHAC, as of December 04, 2021

Status	Cases	Hospitalizations	Deaths
Unvaccinated	79.4%	80.1%	76.0%
Cases not yet protected	4.8%	6.0%	7.2%
Partially vaccinated	5.8%	6.5%	7.0%
Fully vaccinated	9.9%	7.4%	9.8%

Among the twelve jurisdictions that have reported case-level vaccine history data to PHAC, a total of 23.6 million people have received at least one dose of the COVID-19 vaccine as of December 04, 2021.

Of these people:

- 23.2 million achieved partial vaccination status, of which 52,116 (0.23%) were diagnosed with COVID-19 while partially vaccinated
- 22.2 million achieved full vaccination status, of which 88,742 (0.40%) were diagnosed with COVID-19 while fully vaccinated

Based on detailed case information reported to PHAC from provinces and territories, cases following vaccination were reported more frequently among females and those aged 60 years and older (Table 2). This may be the result of higher vaccination coverage in Canada among females and those aged 60 years and older due to the prioritization of older age groups and healthcare workers as part of the vaccine rollout.

Table 2. Characteristics and severe outcomes associated unvaccinated, partially vaccinated and fully vaccinated confirmed cases reported to PHAC, as of December 04, 2021

		Unvaccinated (n=709,123)	Cases not yet protected (n=43,114)	Partially vaccinated (n=52,116)	Fully vaccinated (n=88,742)	Total cases (n=893,095)
Gender*	Male	362,607 (81.1%)	20,772 (4.6%)	24,426 (5.5%)	39,391 (8.8%)	447,196 (100%)
	Female	344,970 (77.7%)	22,283 (5.0%)	27,618 (6.2%)	49,208 (11.1%)	444,079 (100%)
Hospitalizations		40,287 (80.1%)	3,000 (6.0%)	3,277 (6.5%)	3,705 (7.4%)	50,269 (100%)
Deaths		7,917 (76.0%)	753 (7.2%)	734 (7.0%)	1,017 (9.8%)	10,421 (100%)

Source: Detailed case information received by PHAC from provinces and territories, since December 14, 2020

Note:

- Twelve of thirteen provinces and territories have reported case-level vaccine history data to PHAC as part of the national COVID-19 dataset. Nine provinces and territories have reported complete case-level vaccine history data to PHAC since October 2021. A data cut-off of December 04, 2021 was used to account for routine reporting delays associated with vaccine history information.
- *Cases with missing gender were excluded. Where available, gender data was used; when gender data was unavailable, sex data was used. Reliable data on gender diverse respondents are unavailable due to small counts.

Fully vaccinated individuals diagnosed with COVID-19 were significantly protected from severe outcomes. Compared to unvaccinated cases, fully vaccinated cases were 80% less likely to be hospitalized and 68% less likely to die as a result of their illness (Table 3).

Table 3. Risk of severe outcomes among fully vaccinated cases compared to unvaccinated cases as of December 04, 2021

Severe Outcome	Adjusted* Odds Ratio (95% CI)
Hospitalizations	0.20 (0.19 - 0.21)
Deaths	0.32 (0.29 - 0.34)

*Adjusted for 10-year age groups and month of episode date

Source: Detailed case information received by PHAC from provinces and territories

Note: Due to the nature of the dataset (i.e. confirmed cases of COVID-19 in Canada), the odds of severe outcomes among cases following vaccination only considers vaccinated individuals that contracted COVID-19. It does not reflect the protection conferred by the vaccines to prevent COVID-19 infection.

Data for this analysis is extracted from the COVID-19 national data set, which contains detailed case-level information received by PHAC from all provinces and territories. Note that a data cut-off of December 04, 2021 was used to account for any reporting delays associated with vaccine history information. There are currently twelve jurisdictions reporting case-level vaccine history data to PHAC as part of the national COVID-19 dataset.

PHAC monitors cases following vaccination using the following categories:

Unvaccinated cases: include those who were unvaccinated at the time of their episode date.

Cases not yet protected from vaccination include those whose episode date occurred less than 14 days after their first dose of the vaccine.

Partially vaccinated cases include those whose episode date occurred 14 days or more after their first vaccine dose or less than 14 days after their second dose of the vaccine.

Fully vaccinated cases include those whose episode date occurred 14 days or more after their second dose of a two dose vaccine series or those whose episode date occurred 14 days or more after one dose of a one-dose vaccine.

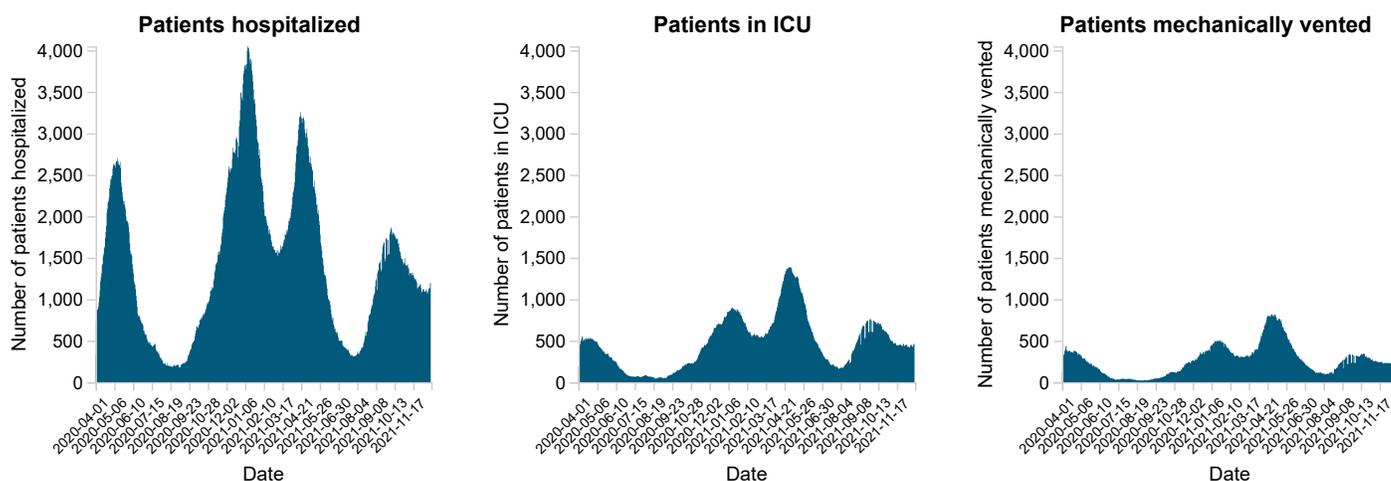
Note: When symptom onset date is unavailable or the case is asymptomatic, episode date uses the following dates as a proxy for classification: laboratory specimen collection date, or laboratory testing date.

For more information on cases following vaccination, please see the Weekly epidemiology report (PDF) available on the Government of Canada's [COVID-19 data trends](#) page.

Severe illness and outcomes

Hospital use

Figure 6. Daily number of hospital beds and ICU beds occupied by COVID-19 patients as of December 20, 2021



Between December 13, 2021 and December 20, 2021:

- the number of **hospital beds** occupied by COVID-19 patients **increased** from **1,085** to **1,201** beds.
- the number of **ICU beds** occupied by COVID-19 patients **increased** from **451** to **468** beds.
- the number of **COVID-19 patients who were mechanically vented** **increased** from **229** to **242**.

Hospitalizations and deaths to date

We have detailed case report data on 1,917,072 cases, and hospitalization status for 1,376,501 (71.8%) of them:

- **95,126 cases (6.9%)** were hospitalized, of whom:

- **18,527 (19.5%)** were admitted to the ICU
- **2,163 (2.3%)** needed mechanical ventilation

The provinces and territories provided detailed case report forms for **29,973** deaths related to COVID-19.

Figure 7a. Age and gender⁴ distribution of COVID-19 cases hospitalized in Canada as of December 24, 2021, 7 pm EST (n=95,024¹)

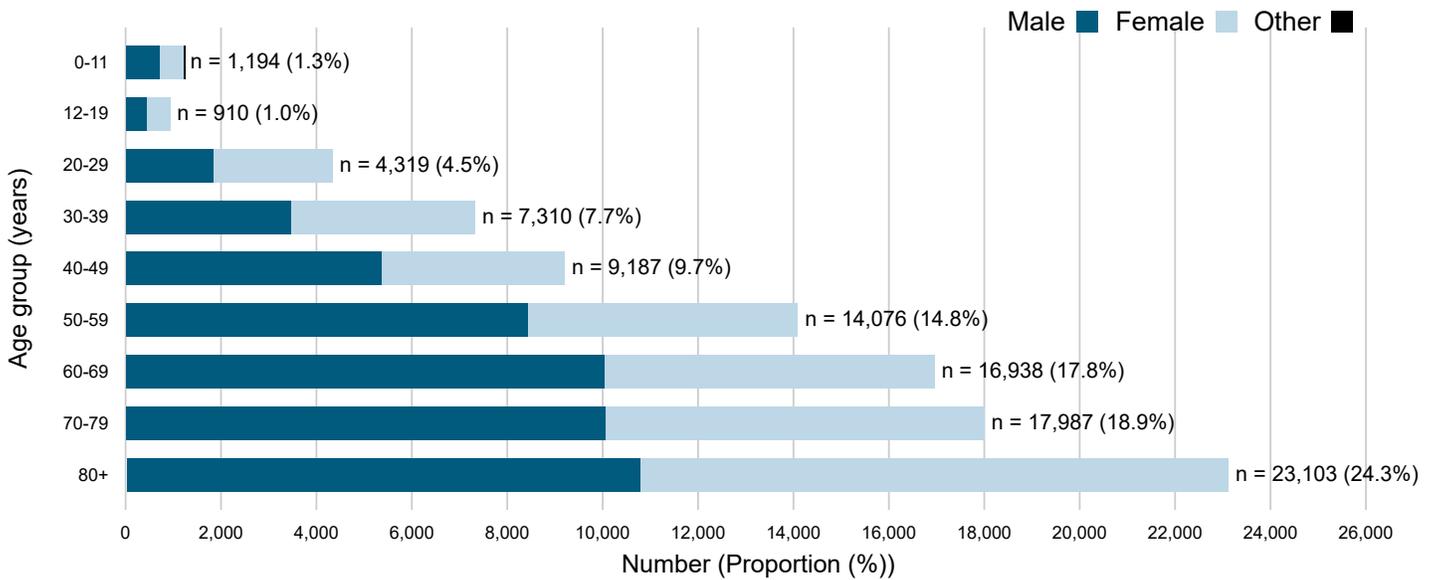


Figure 7b. Age and gender⁴ distribution of COVID-19 cases admitted to ICU in Canada as of December 24, 2021, 7 pm EST (n=18,505¹)

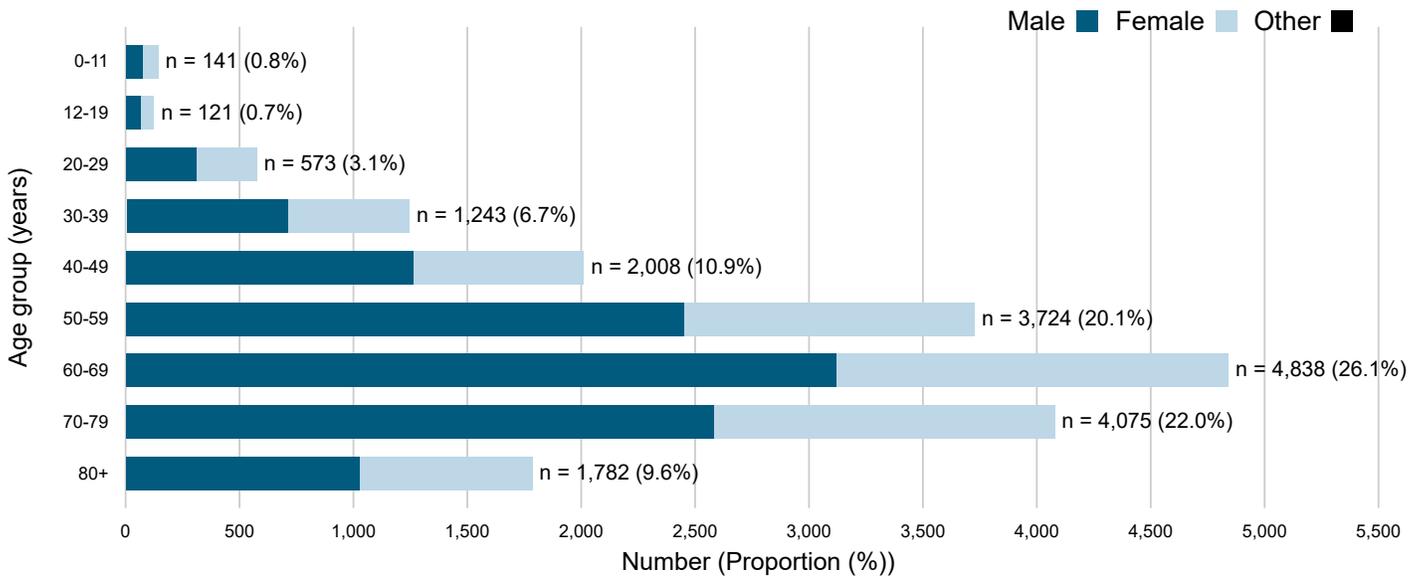
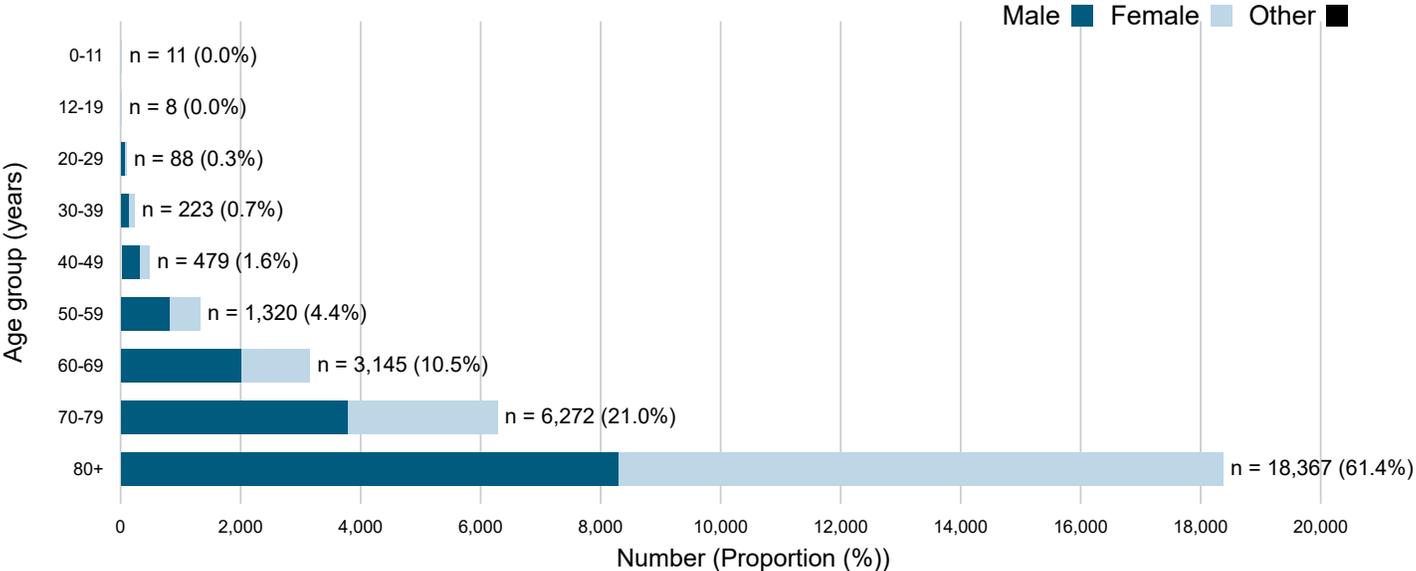


Figure 7c. Age and gender⁴ distribution of COVID-19 cases deceased in Canada as of December 24, 2021, 7 pm EST (n=29,913¹)



Data note: Figure 7 includes COVID-19 cases hospitalized, admitted to ICU, and deceased for which age and gender information were available. Therefore, some COVID-19 hospitalizations, ICU admissions, and deaths may not be included in Figure 7.

Age and gender ⁴ distribution of COVID-19 cases hospitalized in Canada as of December 24, 2021, 7 pm EST (n=95,024 ¹)

Age group (years)	Number of cases with case reports (percentage)	Number of male cases (percentage)	Number of female cases (percentage)	Number of other cases (percentage)
0-11	1,194 (1.3%)	694 (0.7%)	499 (0.5%)	1 (0.0%)
12-19	910 (1.0%)	428 (0.5%)	482 (0.5%)	0 (0.0%)
20-29	4,319 (4.5%)	1,818 (1.9%)	2,501 (2.6%)	0 (0.0%)
30-39	7,310 (7.7%)	3,459 (3.6%)	3,851 (4.1%)	0 (0.0%)
40-49	9,187 (9.7%)	5,353 (5.6%)	3,834 (4.0%)	0 (0.0%)
50-59	14,076 (14.8%)	8,428 (8.9%)	5,648 (5.9%)	0 (0.0%)
60-69	16,938 (17.8%)	10,021 (10.5%)	6,917 (7.3%)	0 (0.0%)
70-79	17,987 (18.9%)	10,056 (10.6%)	7,931 (8.3%)	0 (0.0%)
80+	23,103 (24.3%)	10,784 (11.3%)	12,319 (13.0%)	0 (0.0%)

Age and gender ⁴ distribution of COVID-19 cases admitted to ICU in Canada as of December 24, 2021, 7 pm EST (n=18,505 ¹)

Age group (years)	Number of cases with case reports (percentage)	Number of male cases (percentage)	Number of female cases (percentage)	Number of other cases (percentage)
0-11	141 (0.8%)	72 (0.4%)	69 (0.4%)	0 (0.0%)
12-19	121 (0.7%)	66 (0.4%)	55 (0.3%)	0 (0.0%)
20-29	573 (3.1%)	308 (1.7%)	265 (1.4%)	0 (0.0%)
30-39	1,243 (6.7%)	712 (3.8%)	531 (2.9%)	0 (0.0%)
40-49	2,008 (10.9%)	1,262 (6.8%)	746 (4.0%)	0 (0.0%)
50-59	3,724 (20.1%)	2,452 (13.3%)	1,272 (6.9%)	0 (0.0%)
60-69	4,838 (26.1%)	3,118 (16.8%)	1,720 (9.3%)	0 (0.0%)
70-79	4,075 (22.0%)	2,581 (13.9%)	1,494 (8.1%)	0 (0.0%)
80+	1,782 (9.6%)	1,024 (5.5%)	758 (4.1%)	0 (0.0%)

Age and gender ⁴ distribution of COVID-19 cases deceased in Canada as of December 24, 2021, 7 pm EST (n=29,913 ¹)

Age group (years)	Number of cases with case reports (percentage)	Number of male cases (percentage)	Number of female cases (percentage)	Number of other cases (percentage)
0-11	11 (0.0%)	2 (0.0%)	9 (0.0%)	0 (0.0%)
12-19	8 (0.0%)	5 (0.0%)	3 (0.0%)	0 (0.0%)
20-29	88 (0.3%)	55 (0.2%)	33 (0.1%)	0 (0.0%)
30-39	223 (0.7%)	137 (0.5%)	86 (0.3%)	0 (0.0%)
40-49	479 (1.6%)	315 (1.1%)	164 (0.5%)	0 (0.0%)
50-59	1,320 (4.4%)	813 (2.7%)	507 (1.7%)	0 (0.0%)
60-69	3,145 (10.5%)	2,009 (6.7%)	1,136 (3.8%)	0 (0.0%)
70-79	6,272 (21.0%)	3,769 (12.6%)	2,503 (8.4%)	0 (0.0%)
80+	18,367 (61.4%)	8,287 (27.7%)	10,080 (33.7%)	0 (0.00%)

Provincial, territorial and international reporting

For more information, please refer to provincial or territorial COVID-19 webpages:

- [British Columbia](#)
- [Alberta](#)
- [Saskatchewan](#)
- [Manitoba](#)
- [Ontario](#)
- [Quebec](#)
- [Newfoundland and Labrador](#)
- [New Brunswick](#)
- [Nova Scotia](#)
- [Prince Edward Island](#)
- [Yukon](#)
- [Northwest Territories](#)
- [Nunavut](#)
- [World Health Organization](#)
- [Centers for Disease Control and Prevention](#)
- [European Centre for Disease Control and Prevention](#)

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- 1 This figure is based on cases for which a case report form was received by the Public Health Agency of Canada from provincial or territorial partners.
 - 2 The shaded area represents a period of accumulating data where it is expected that cases have occurred but have not yet been reported nationally. The earliest of the following dates were used as an estimate: Onset date, Specimen Collection Date, Laboratory Testing Date, Date Reported to Province or Territory, or Date Reported to PHAC.
 - 3 Exposure information may not be available for all cases. Some jurisdictions haven't consistently reported to PHAC how people were exposed throughout the pandemic. As a result, this may underestimate the total number of cases by different exposures, especially among returning travelers.
 - 4 Where available, gender data was used; when gender data was unavailable, sex data was used. Reliable data on gender diverse respondents are unavailable due to small counts.
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Date modified:

2021-12-23

