

WEEKLY EPIDEMIOLOGICAL SUMMARY

COVID-19 in Ontario: Focus on September 4, 2022 to September 10, 2022 (Week 36)

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Figures and tables in this report present the most recent 52 weeks of data for Ontario, ranging from **September 12, 2021 to September 10, 2022**. This report includes the most current information available from the Public Health Case and Contact Management Solution (CCM), unless otherwise specified.

Interpretation notes:

- Testing and case, contact, and outbreak management in Ontario was restricted to high-risk populations and settings in January 2022. Counts in this report are an underestimate of the extent of COVID-19 activity in Ontario.
- Observed trends over time should be interpreted with caution for the most recent period due to reporting and/or data entry lags.
- Severe outcomes are a lagging indicator, meaning that severe outcomes often occur after (e.g. days or weeks) cases are initially reported to public health. As such, counts for severe outcomes in more recent reporting periods may increase as more outcomes are reported.

Please visit the interactive [Ontario COVID-19 Data Tool](#) to explore data from the entire COVID-19 pandemic (i.e. February 2020 onward) by public health unit, age group, sex, and trends over time.

Highlights

Case Trends and Percent Positivity

- **Weekly case numbers down 15% compared to last week among those eligible for testing:** The number of reported cases in Ontario was 6,968 this week, compared to 8,175 last week. This continues the trend of a gradual decrease in case numbers over the past 7 weeks.
 - Case rates were similar or decreased this week in all of Ontario's 7 regions, and were similar or decreased in 29 of 34 public health units, compared to last week.
 - Case rates were similar or decreased this week in all 7 age groups, compared to last week.
- **Percent positivity down 10% and testing volume similar compared to last week:** Percent positivity was 11.4% this week, compared to 12.7% last week. Testing volume this week was 57,251 tests, compared to 60,302 tests last week.

Severity

- **Hospital admissions down 16% and deaths down 23% compared to last week:** There were 314 hospital admissions reported this week, compared to 372 last week. There was a notable increase in the rate of weekly hospital admissions for infants under 1 year old, from 5.6 to 11.9 per 100,000. There were 54 deaths reported this week, compared to 70 last week. Hospital admission and death counts, particularly for more recent weeks, may increase, as these outcomes are lagging indicators.

Outbreaks

- **Outbreaks in high-risk settings down 10% compared to last week:** The total number of outbreaks in high-risk settings was 135 this week, down from 150 last week. This week there were notable decreases in outbreaks in hospitals (41% decrease) and group homes/supportive housing (42% decrease). There was a notable increase in Long-Term Care Home outbreaks, from 30 last week to 47 this week.
- **Outbreak-associated cases in high-risk settings down 28% compared to last week:** There were 1,576 outbreak-associated cases reported this week compared to 2,184 last week. Cases decreased 26% overall in congregate care settings (long-term care homes, retirement homes, and hospitals) and decreased 52% overall in congregate living settings (correctional facilities, shelters, and group homes/supporting housing).

Cases

Figure 1a. Confirmed cases of COVID-19, by reported week

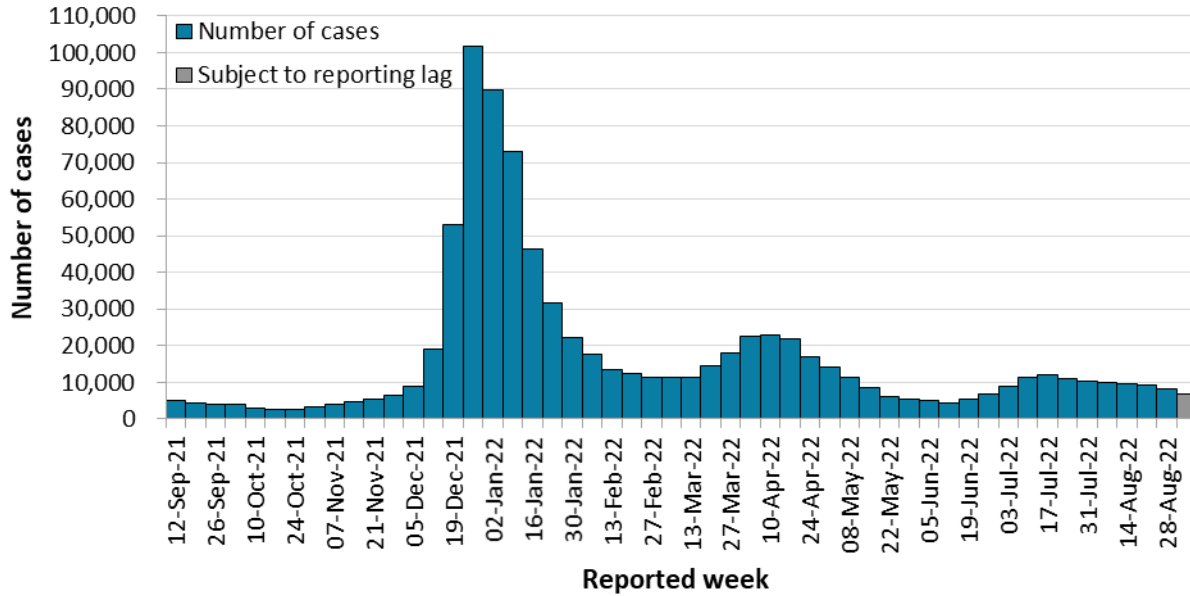
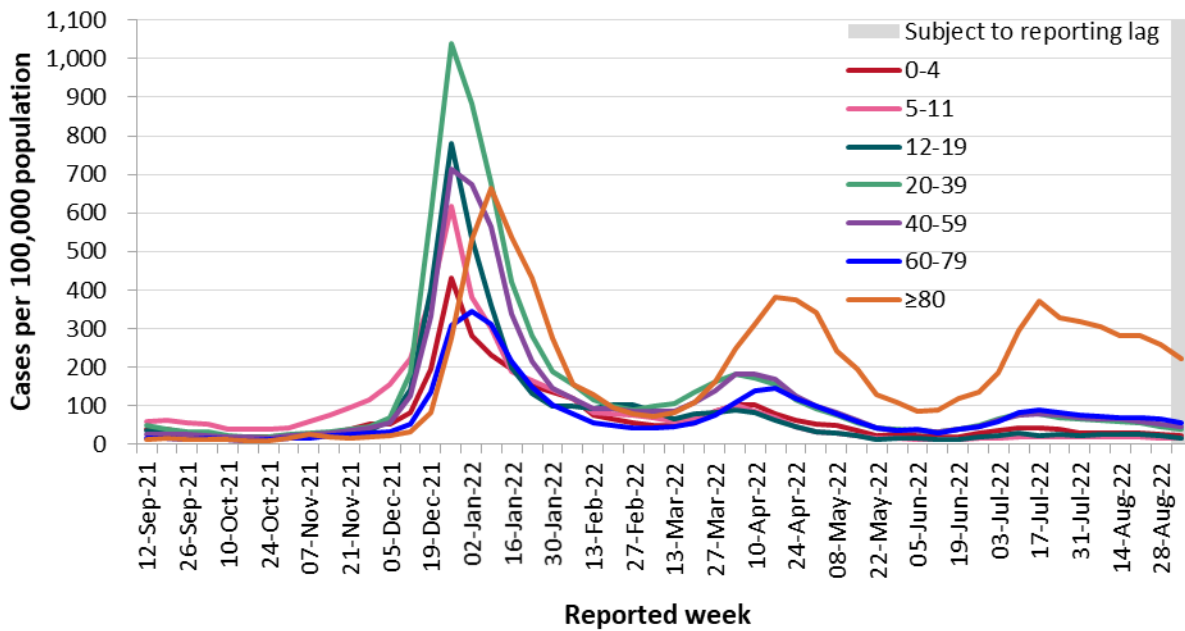


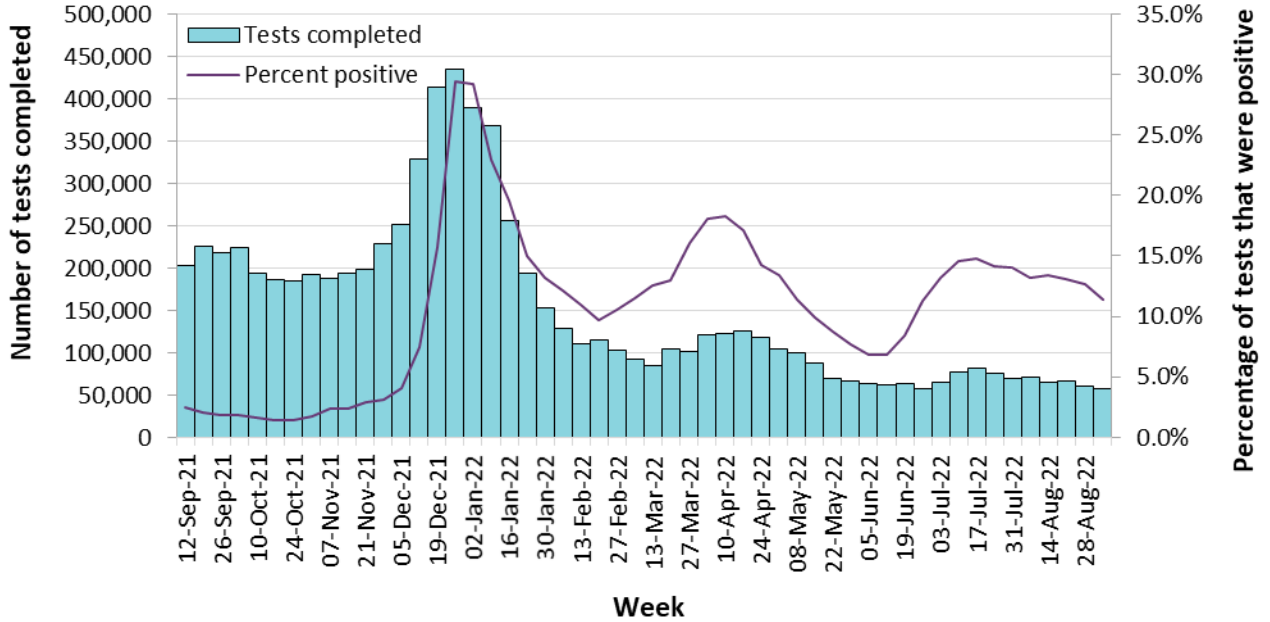
Figure 1b. Confirmed cases of COVID-19 (per 100,000 population), by age group and reported week



Note: Not all cases have an age reported.

Testing

Figure 2. Weekly COVID-19 tests completed and percent positivity



Data Source: The Provincial COVID-19 Diagnostics Network, data reported by member microbiology laboratories.

Hospital Admissions

Figure 3a. Confirmed COVID-19 cases that were admitted to hospital, by hospital admission week

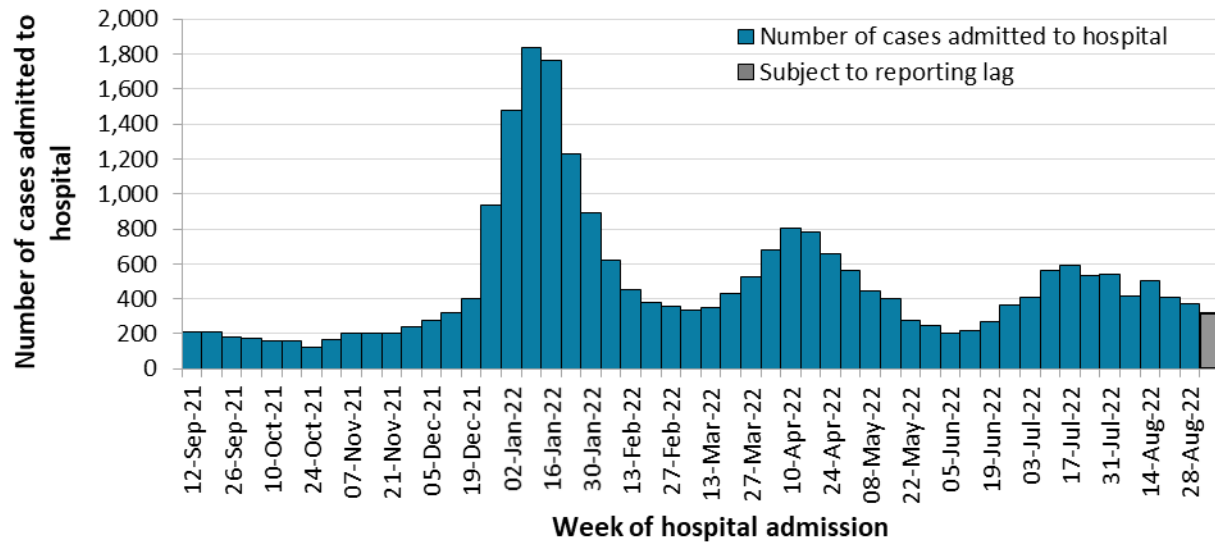
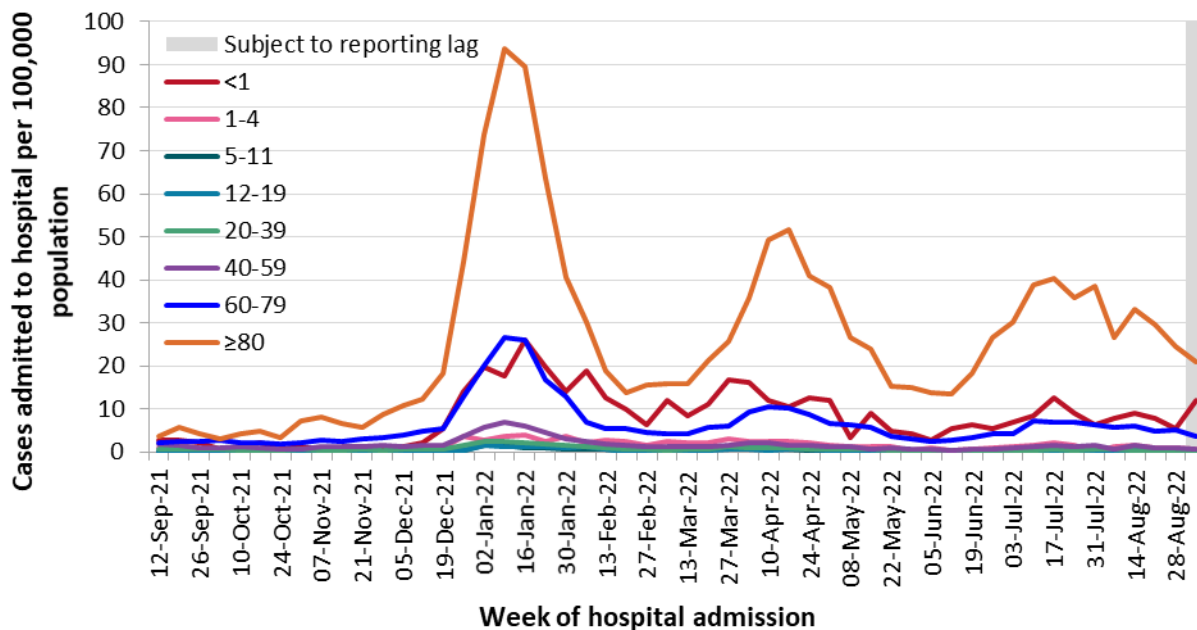


Figure 3b. Confirmed COVID-19 cases that were admitted to hospital (per 100,000 population), by age group and hospital admission date



Note: Not all cases have an age reported.

Deaths

Figure 4a. Confirmed COVID-19 deaths, by cause and week of death

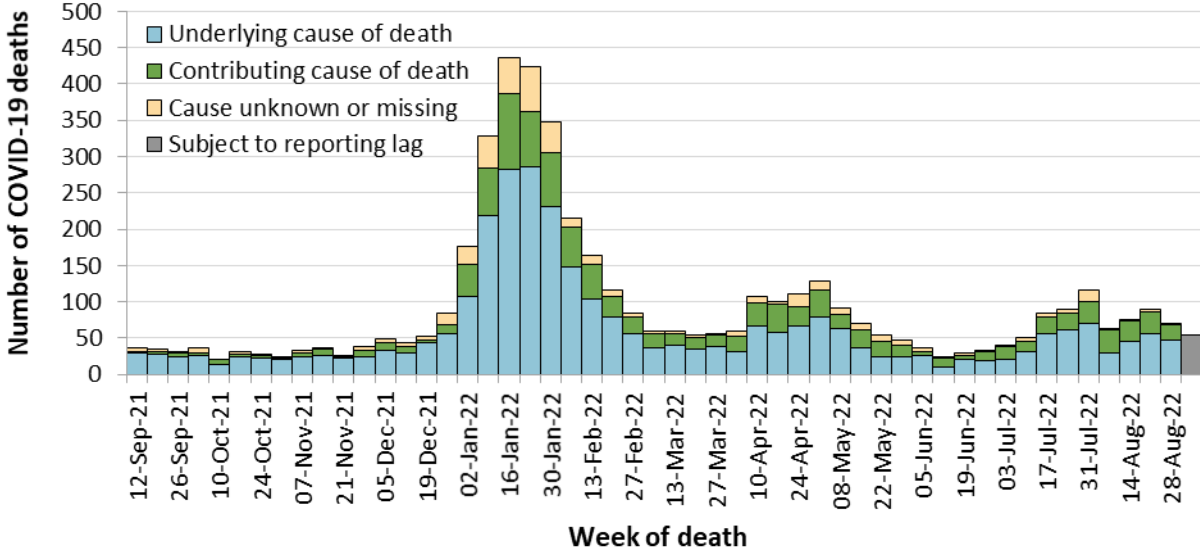
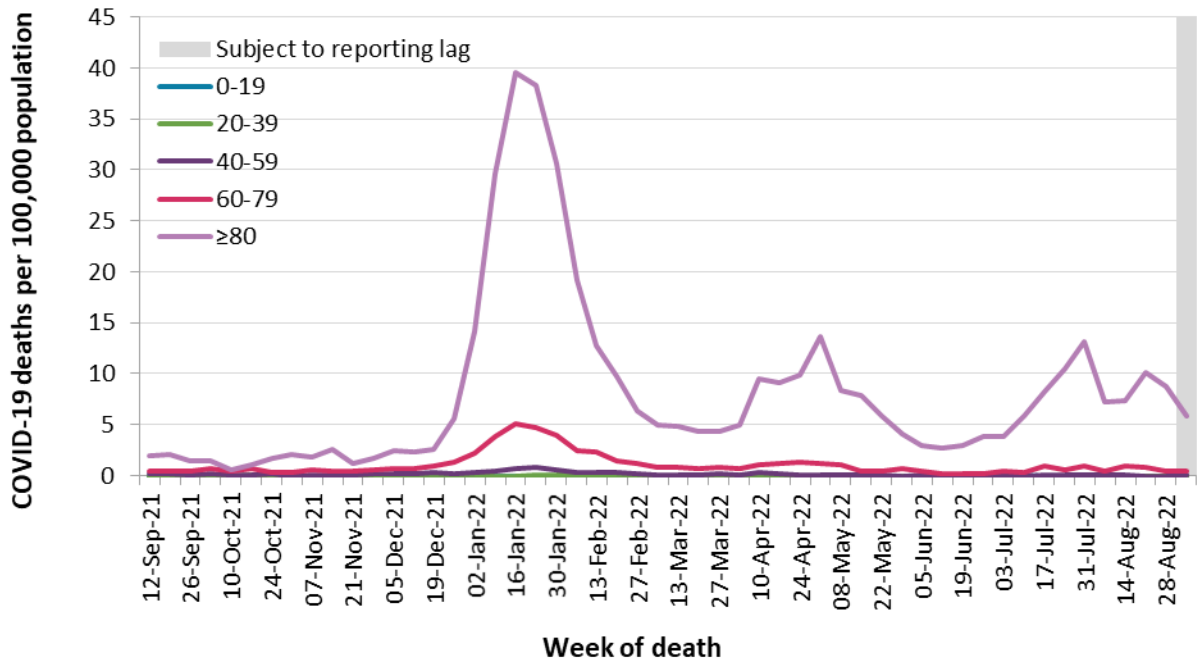
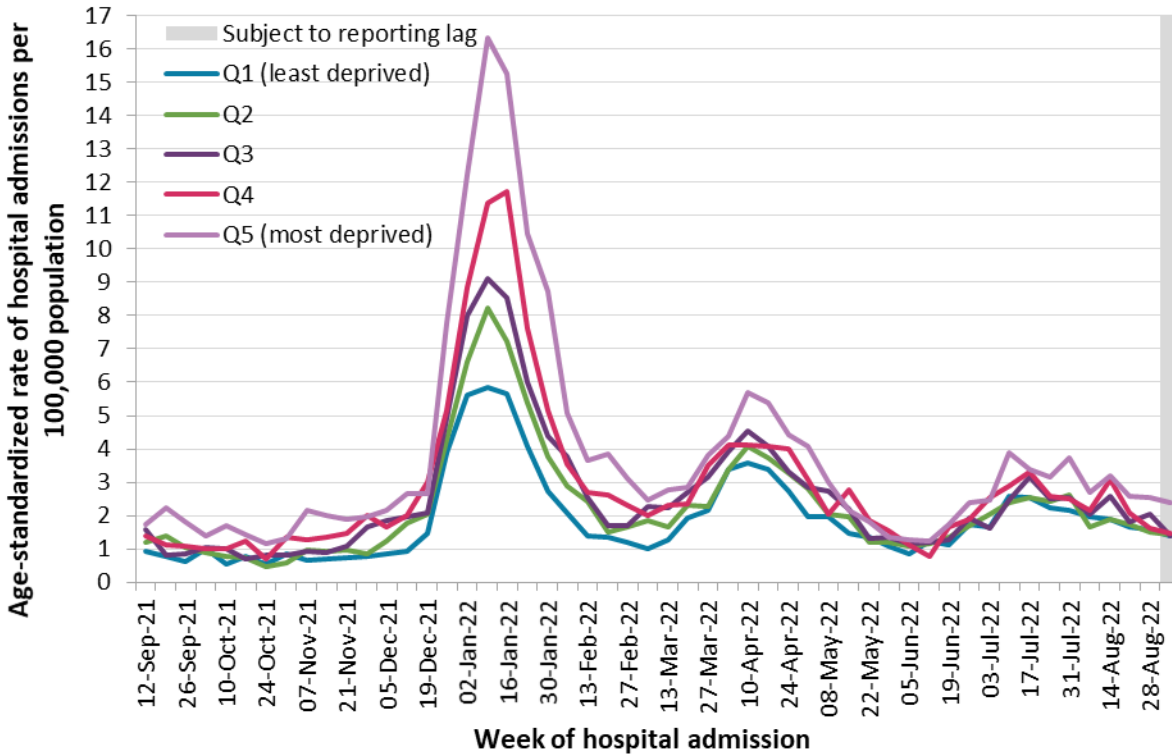


Figure 4b. Confirmed COVID-19 deaths (per 100,000 population), by age group and week of death



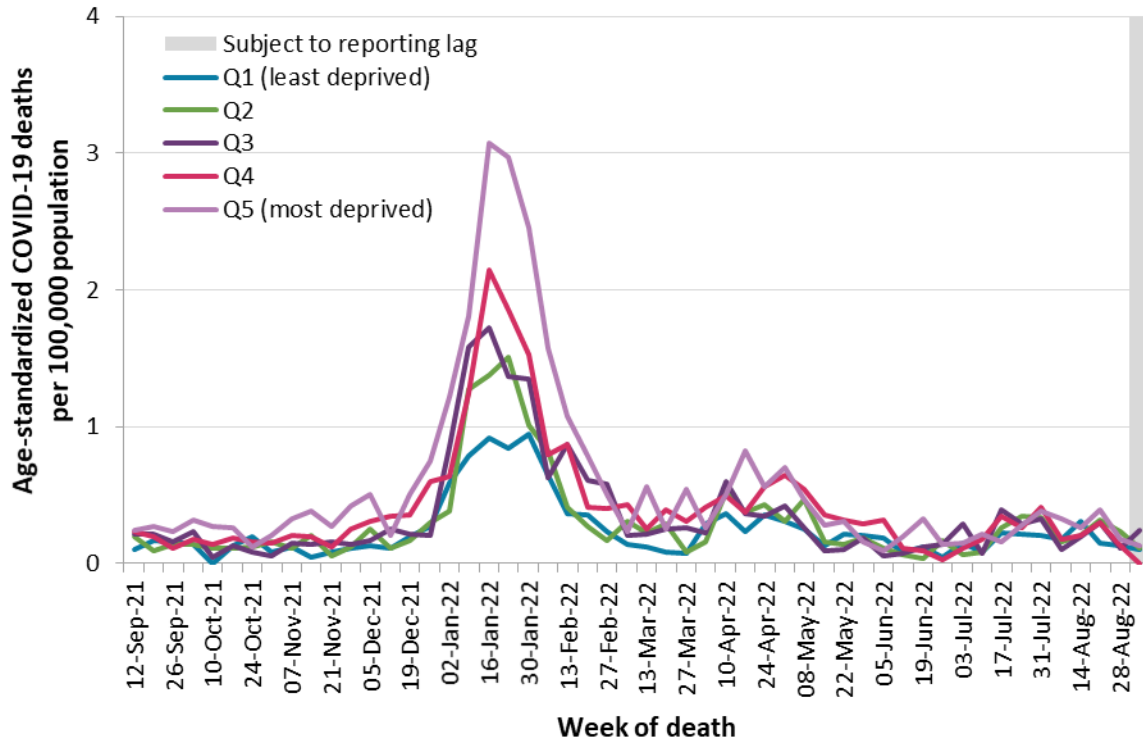
Severity by Neighbourhood Material Deprivation

Figure 5a. Confirmed COVID-19 cases that were admitted to hospital (per 100,000 population), by quintile of neighbourhood material deprivation and hospital admission week



Data Source: CCM, ON-Marg 2016

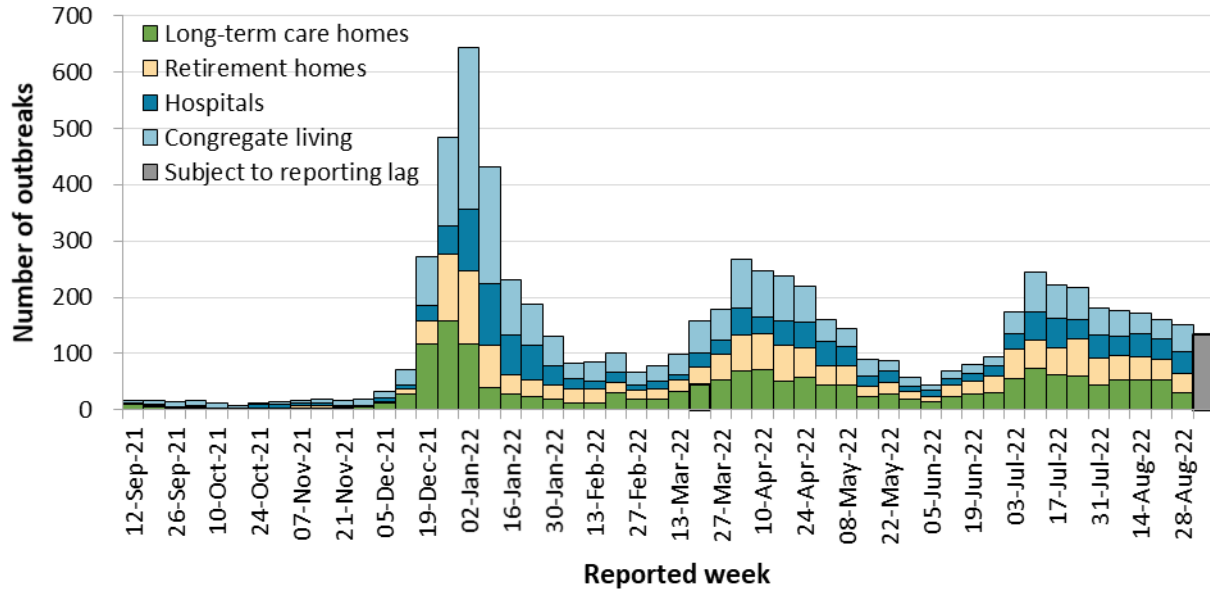
Figure 5b. Confirmed COVID-19 deaths (per 100,000 population), by quintile of neighbourhood material deprivation and week of death



Data Source: CCM, ON-Marg 2016

Outbreaks

Figure 6. Confirmed COVID-19 outbreaks, by setting type and reported week



Note: Congregate living includes group homes, shelters, and correctional facilities.

Table 1. Confirmed COVID-19 outbreaks, by setting type

Setting Type	Reported August 28 to September 3, 2022	Reported September 4 to September 10, 2022	Ongoing outbreaks	Reported Past 52 Weeks (September 12, 2021 to September 10, 2022)
Congregate Care	104	106	307	4,794
Long-term care homes	30	47	153	1,839
Retirement homes	35	36	94	1,600
Hospitals	39	23	60	1,355
Congregate Living	46	29	63	2,349
Correctional facility	7	3	9	123
Shelter	6	7	11	430
Group home/supportive housing	33	19	43	1,796
Total number of outbreaks*	150	135	370	7,143

*Only includes outbreaks in the setting types above

Table 2. Confirmed outbreak-associated COVID-19 cases, by setting type and reported week

Cases associated with the outbreak setting type	Reported August 28 to September 3, 2022	Reported September 4 to September 10, 2022	Reported Past 52 Weeks (September 12, 2021 to September 10, 2022)
Congregate Care	2,001	1,489	81,244
Long-term care homes	1,242	856	48,848
Retirement homes	440	404	20,250
Hospitals	319	229	12,146
Congregate Living	183	87	13,869
Correctional facility	87	16	4,239
Shelter	17	3	2,610
Group home/supportive housing	79	68	7,020
Total number of cases*	2,184	1,576	95,113

*Only includes cases associated to outbreaks in the setting types above

Technical Notes

Details on data caveats and methods are documented in [Technical Notes](#) of the [Ontario COVID-19 Data Tool](#). For information on data caveats and methods related to Ontario Marginalization Index (ON-Marg), please visit [PHO's ON-Marg webpage](#).

Data Sources

- The data for this report were based on information successfully extracted from the CCM for all PHUS by PHO as of:
 - **September 13, 2022 at 1 p.m.** for cases reported from January 1, 2022 onwards
 - **September 12, 2022 at 9 a.m.** for cases reported from January 1, 2021 to December 31, 2021
 - **September 9, 2022 at 9 a.m.** for cases reported up to December 31, 2020.
- Hospital and ICU bed occupancy data were obtained from the Ministry of Health on **September 14, 2022**. The same data is available weekly from Ontario's Data Catalogue ([dataset: COVID-19 cases in hospital and ICU, by Ontario Health \(OH\) region](#)). The 'date' field was adjusted to account for reporting lags. Specifically, hospital occupancy counts ('hospitalizations') correspond to the 'date' field minus two days, and ICU occupancy counts ('icu_crci_total') correspond to the 'date' field minus one day.
- Ontario population estimate data were sourced from Statistics Canada. Population estimates 2001-2020: Table 1 annual population estimates by age and sex for July 1, 2001 to 2020, health regions, Ontario [unpublished data table]. Ottawa, ON: Government of Canada; 2021 [received April 22, 2021].
- Statistics Canada Postal Code Conversion File Plus (PCCF+), version 7E.
- The health equity (material deprivation) analyses use data from the 2016 Ontario Marginalization Index (ON-Marg), and population counts from the Ontario Health Insurance Plan (OHIP) Registered Person Database (RPDB) as of May 1, 2021 (provided by the Institute for Clinical Evaluative Sciences [ICES]). For more information, please visit [PHO's ON-Marg webpage](#).

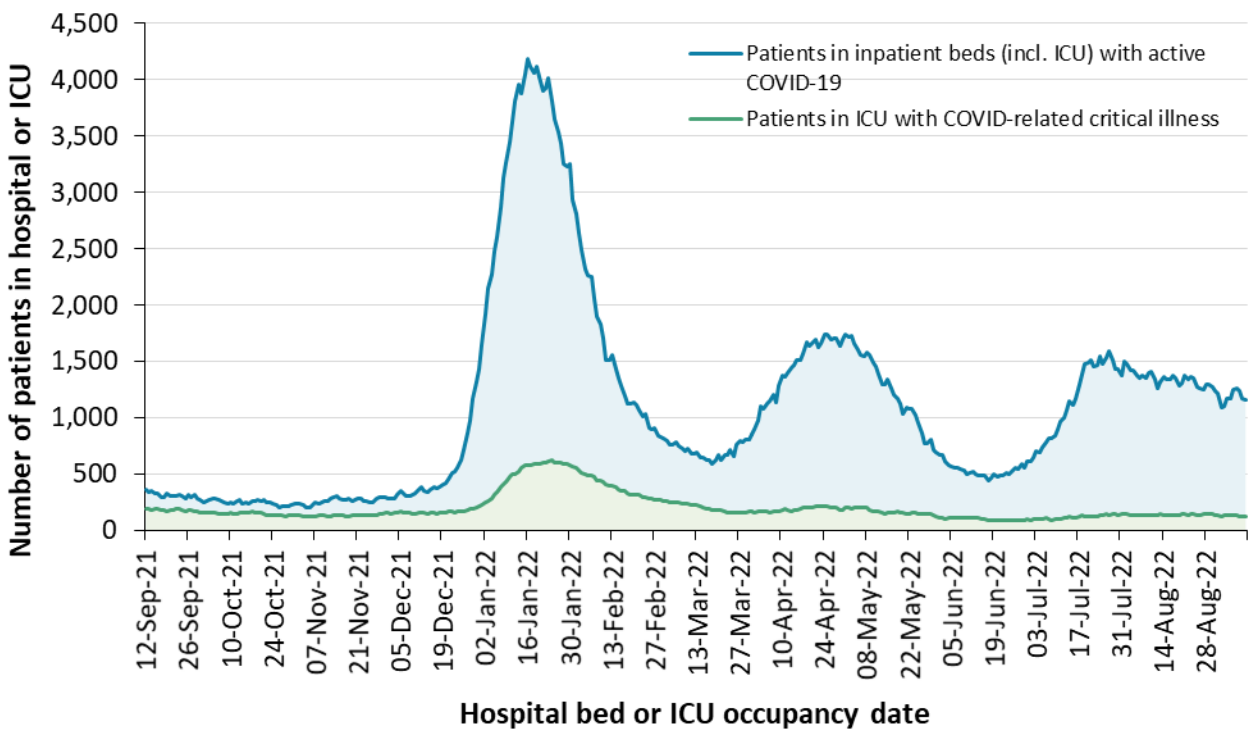
Appendix A: Hospital Bed Occupancy

This graph shows a daily count of:

1. the number of people in hospital (including intensive care unit (ICU)) with active COVID-19 (i.e. testing positive); and
2. the number of people in ICU because of COVID-19.

These counts differ from hospital admissions data in this report (Figures 3a, 3b, and Table 4), which count the number of people admitted to hospital each week due to COVID-19.

Figure 7. Hospital and ICU bed occupancy, by day



Data Source: Ontario Ministry of Health

Note: Hospital bed occupancy data comes from the Hospital Daily Bed Census and ICU bed occupancy data comes from the Critical Care Information System.

Appendix B: Cases by Public Health Unit

Figure 8. Confirmed cases of COVID-19 (per 100,000 population), by region and reported week

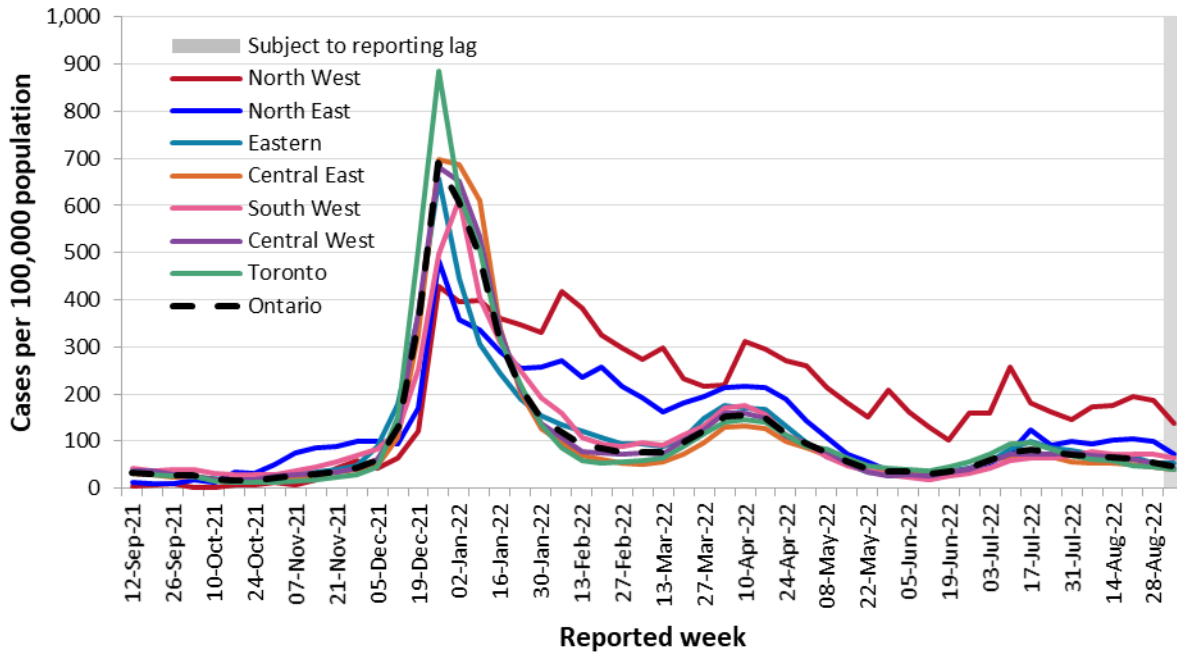


Table 3. Confirmed cases of COVID-19, by public health unit and region

Public Health Unit Name	Cases August 28 to September 3, 2022	Cases per 100,000 population August 28 to September 3, 2022	Cases September 4 to September 10, 2022	Cases per 100,000 population September 4 to September 10, 2022	Cases per 100,000 population Past 52 weeks (September 12, 2021 to September 10, 2022)
Northwestern Health Unit	200	246.4	78	96.1	13,541.9
Thunder Bay District Health Unit	246	156.0	249	157.9	7,485.4
TOTAL NORTH WEST	446	186.7	327	136.9	9,543.7
Algoma Public Health	97	82.3	59	50.1	7,679.9
North Bay Parry Sound District Health Unit	83	64.2	75	58.0	5,131.2
Porcupine Health Unit	111	130.6	48	56.5	7,055.3
Public Health Sudbury & Districts	247	120.3	212	103.3	7,582.7
Timiskaming Health Unit	31	91.5	21	62.0	6,159.1
TOTAL NORTH EAST	569	99.6	415	72.6	6,884.9
Ottawa Public Health	355	34.0	325	31.2	5,028.5
Eastern Ontario Health Unit	80	37.1	143	66.2	5,953.0

Public Health Unit Name	Cases August 28 to September 3, 2022	Cases per 100,000 population August 28 to September 3, 2022	Cases September 4 to September 10, 2022	Cases per 100,000 population September 4 to September 10, 2022	Cases per 100,000 population Past 52 weeks (September 12, 2021 to September 10, 2022)
Hastings Prince Edward Public Health	174	100.7	178	103.0	6,160.4
Kingston, Frontenac and Lennox & Addington Public Health	243	116.1	184	87.9	8,805.1
Leeds, Grenville & Lanark District Health Unit	89	49.5	113	62.8	5,113.2
Renfrew County and District Health Unit	74	68.2	65	59.9	4,646.3
TOTAL EASTERN	1,015	52.6	1,008	52.2	5,629.3
Durham Region Health Department	359	50.5	298	41.9	5,719.9
Haliburton, Kawartha, Pine Ridge District Health Unit	77	40.4	66	34.6	4,350.7
Peel Public Health	590	37.7	550	35.2	5,286.8
Peterborough Public Health	87	58.7	79	53.3	4,634.1
Simcoe Muskoka District Health Unit	346	57.2	256	42.3	6,158.4
York Region Public Health	563	46.9	491	40.9	5,477.4

Public Health Unit Name	Cases August 28 to September 3, 2022	Cases per 100,000 population August 28 to September 3, 2022	Cases September 4 to September 10, 2022	Cases per 100,000 population September 4 to September 10, 2022	Cases per 100,000 population Past 52 weeks (September 12, 2021 to September 10, 2022)
TOTAL CENTRAL EAST	2,022	45.8	1,740	39.4	5,465.3
Toronto Public Health	1,331	44.5	1,156	38.7	5,927.4
TOTAL TORONTO	1,331	44.5	1,156	38.7	5,927.4
Chatham-Kent Public Health	75	70.3	91	85.3	6,940.5
Grey Bruce Health Unit	100	56.8	79	44.8	4,279.3
Huron Perth Public Health	61	41.7	75	51.3	4,156.1
Lambton Public Health	72	54.1	74	55.7	6,824.7
Middlesex-London Health Unit	380	74.4	335	65.6	5,630.3
Southwestern Public Health	177	80.9	177	80.9	5,167.9
Windsor-Essex County Health Unit	384	89.1	266	61.7	6,650.5
TOTAL SOUTH WEST	1,249	72.5	1,097	63.7	5,736.8
Brant County Health Unit	56	36.5	62	40.4	5,620.7
City of Hamilton Public Health Services	444	76.3	348	59.8	7,047.0

Public Health Unit Name	Cases August 28 to September 3, 2022	Cases per 100,000 population August 28 to September 3, 2022	Cases September 4 to September 10, 2022	Cases per 100,000 population September 4 to September 10, 2022	Cases per 100,000 population Past 52 weeks (September 12, 2021 to September 10, 2022)
Haldimand-Norfolk Health Unit	54	45.0	43	35.8	5,584.6
Halton Region Public Health	237	38.8	237	38.8	5,671.4
Niagara Region Public Health	359	74.5	228	47.3	5,883.8
Region of Waterloo Public Health and Emergency Services	236	39.0	225	37.2	5,171.1
Wellington-Dufferin-Guelph Public Health	157	50.3	82	26.3	4,973.2
TOTAL CENTRAL WEST	1,543	53.9	1,225	42.8	5,798.3
TOTAL ONTARIO	8,175	55.5	6,968	47.3	5,798.2

Note: Access to testing can vary across the province and as a result may impact the reported confirmed case rates by public health unit.

Appendix C: Severity Measures by Age and Sex

Table 4. Confirmed COVID-19 cases that were admitted to hospital, by sex and age group

Sex and age group	Hospital admissions August 28 to September 3, 2022	Hospital admissions per 100,000 population August 28 to September 3, 2022	Hospital admissions September 4 to September 10, 2022	Hospital admissions per 100,000 population September 4 to September 10, 2022	Hospital admissions Past 52 weeks (September 12, 2021 to September 10, 2022)	Hospital admissions per 100,000 population Past 52 weeks (September 12, 2021 to September 10, 2022)
Total Cases	372	2.5	314	2.1	25,392	172.3
Sex: Female	183	2.5	144	1.9	11,615	155.8
Sex: Male	189	2.6	169	2.3	13,737	188.7
Sex: Did not specify female or male	0	N/A	1	N/A	40	N/A
Ages: <1	8	5.6	17	11.9	604	424.1
Ages: 1 – 4	6	1.0	4	0.7	434	74.7
Ages: 5 – 11	0	0.0	3	0.3	205	19.0
Ages: 12 – 19	3	0.2	2	0.2	264	19.9
Ages: 20 – 39	13	0.3	15	0.4	1,666	40.1
Ages: 40 – 59	34	0.9	28	0.7	3,509	90.1
Ages: 60 – 79	148	5.1	108	3.7	9,796	337.8
Ages: 80 and over	160	24.4	137	20.9	8,914	1,359.2

Sex and age group	Hospital admissions August 28 to September 3, 2022	Hospital admissions per 100,000 population August 28 to September 3, 2022	Hospital admissions September 4 to September 10, 2022	Hospital admissions per 100,000 population September 4 to September 10, 2022	Hospital admissions Past 52 weeks (September 12, 2021 to September 10, 2022)	Hospital admissions per 100,000 population Past 52 weeks (September 12, 2021 to September 10, 2022)
Ages: Unknown	0	N/A	0	N/A	0	N/A

Table 5. Confirmed COVID-19 deaths, by sex and age group

Sex and age group	Deaths August 28 to September 3, 2022	Deaths per 100,000 population August 28 to September 3, 2022	Deaths September 4 to September 10, 2022	Deaths per 100,000 population September 4 to September 10, 2022	Deaths Past 52 weeks (September 12, 2021 to September 10, 2022)	Deaths per 100,000 population Past 52 weeks (September 12, 2021 to September 10, 2022)
Total Cases	70	0.5	54	0.4	4,761	32.3
Sex: Female	36	0.5	25	0.3	2,068	27.7
Sex: Male	34	0.5	29	0.4	2,682	36.8
Sex: Did not specify female or male	0	N/A	0	N/A	11	N/A
Ages: 0 – 19	0	0.0	0	0.0	14	0.4
Ages: 20 – 39	0	0.0	0	0.0	62	1.5
Ages: 40 – 59	1	<0.1	2	0.1	339	8.7
Ages: 60 – 79	12	0.4	14	0.5	1,604	55.3
Ages: 80 and over	57	8.7	38	5.8	2,742	418.1
Ages: Unknown	0	N/A	0	N/A	0	N/A

Appendix D: All Time Severe Outcomes

Table 6. Confirmed COVID-19 cases and deaths among LTCH residents, by wave¹

Wave	Number of LTCH Resident Cases	Number of LTCH Resident COVID-19 deaths	Case Fatality Rate (CFR)
Wave 1 (February 26, 2020 to August 31, 2020)	6,011	1,906	31.7%
Wave 2 (September 1, 2020 to February 28, 2021)	9,047	1,946	21.5%
Wave 3 (March 1, 2021 to July 31, 2021)	413	59	14.3%
Wave 4 (August 1, 2021 to December 14, 2021)	245	45	18.4%
Wave 5 (December 15, 2021 to February 28, 2022)	10,034	480	4.8%
Wave 6 (March 1, 2022 to June 18, 2022)	7,607	201	2.6%
Wave 7 (June 19, 2022 to September 10, 2022) ²	10,725	283	2.6%
Total	44,082	4,920	11.2%

Notes:

1. As of August 31, 2022, only LTCH resident cases linked to an outbreak are required to be identified as LTCH residents in CCM. As a result, fewer LTCH resident cases will be identified. The number of LTCH resident cases, deaths, and CFR should be interpreted with this reporting change in mind.
2. Wave 7 is ongoing and only includes cases up to September 10, 2022. Therefore, the case fatality rate for the time period of wave 7 presented here may increase.

Citation

Ontario Agency for Health Protection and Promotion (Public Health Ontario). Weekly epidemiologic summary: COVID-19 in Ontario – September 4, 2022 to September 10, 2022. Toronto, ON: King's Printer for Ontario; 2022.

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