

Public Health Agence de la santé Agency of Canada publique du Canada

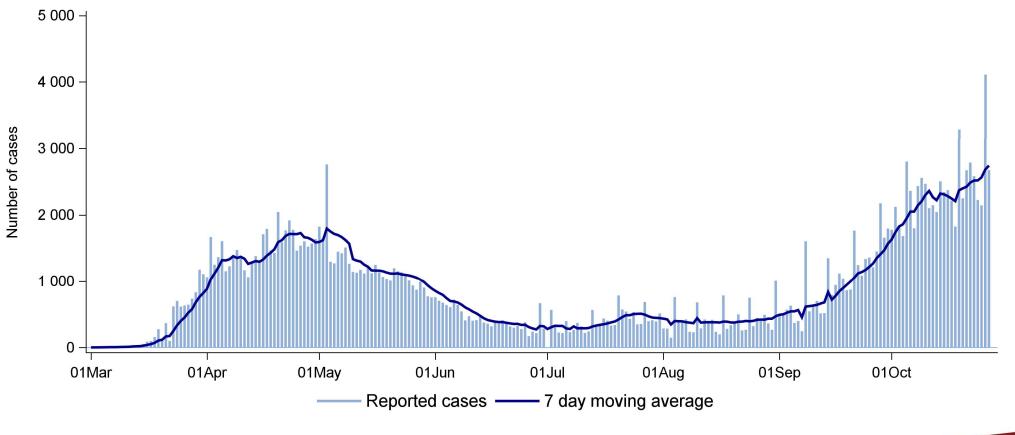


Update on COVID-19 in Canada: Epidemiology and Modelling

Oct 30th, 2020

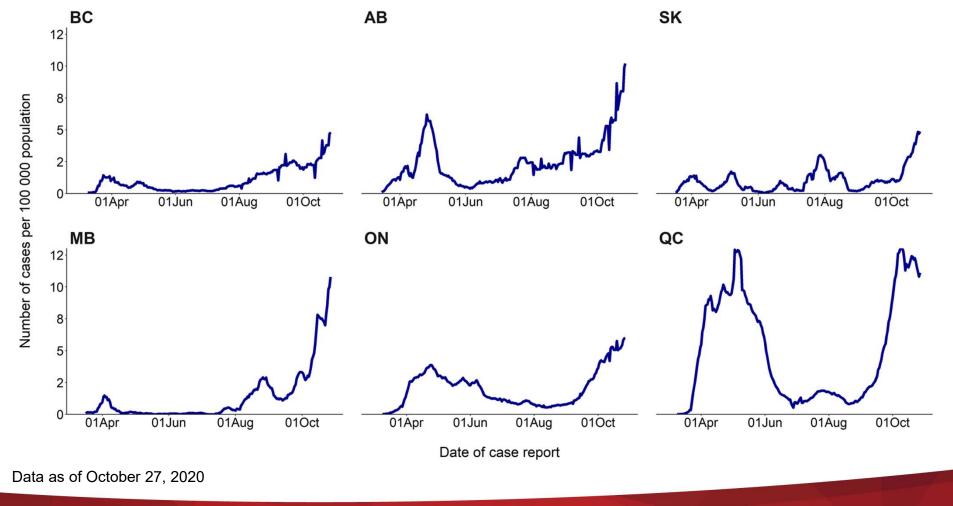


Daily case counts of COVID-19 continue to increase nationally

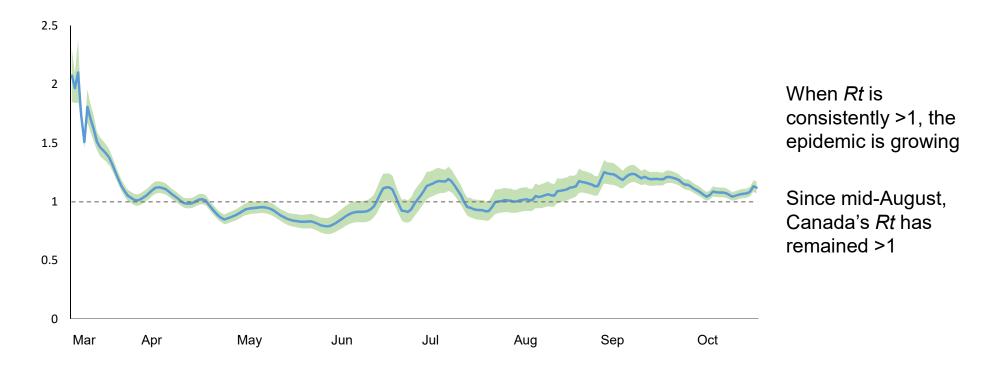


Data as of October 27, 2020

The incidence rate of COVID-19 is varying by province and region



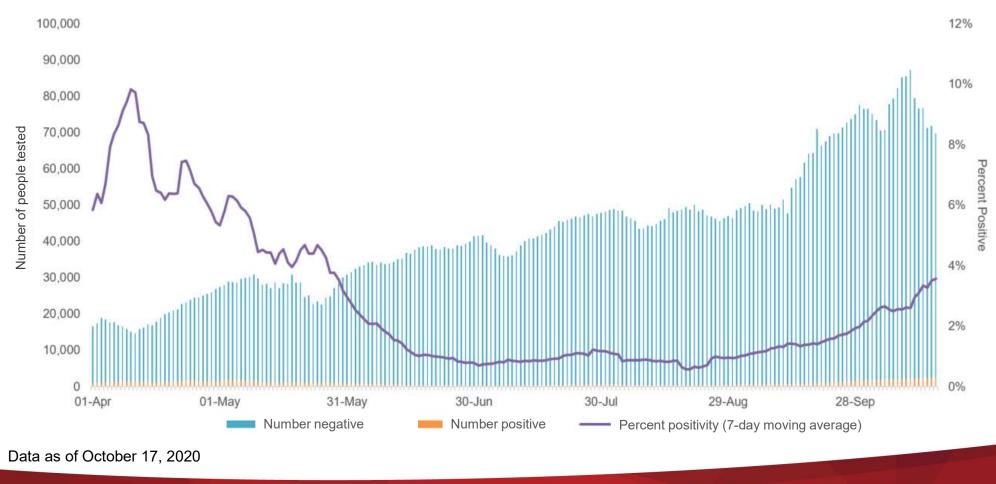
Each new case in Canada is spreading infection to more than one person, keeping the epidemic in a growth pattern



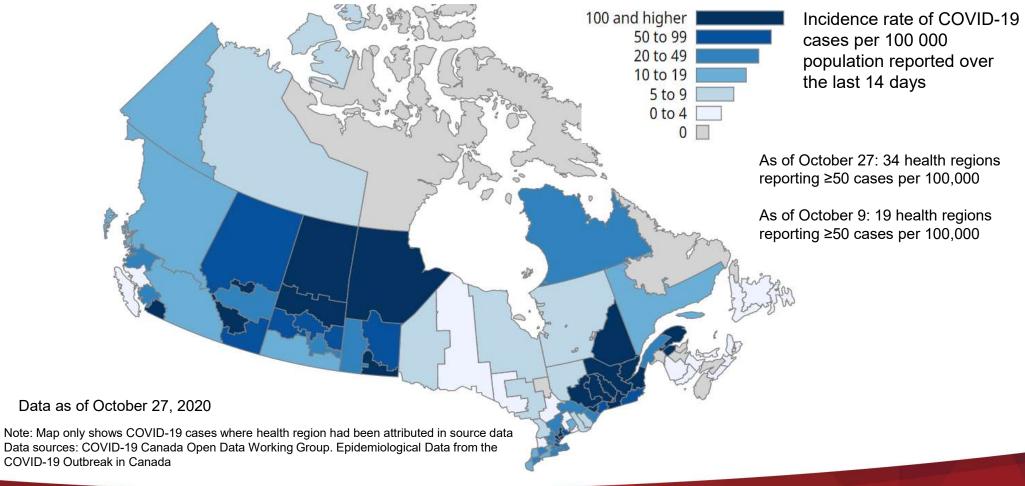
Canada's Rt over time

Data as of October 27, 2020 Calculations are based on date of case report

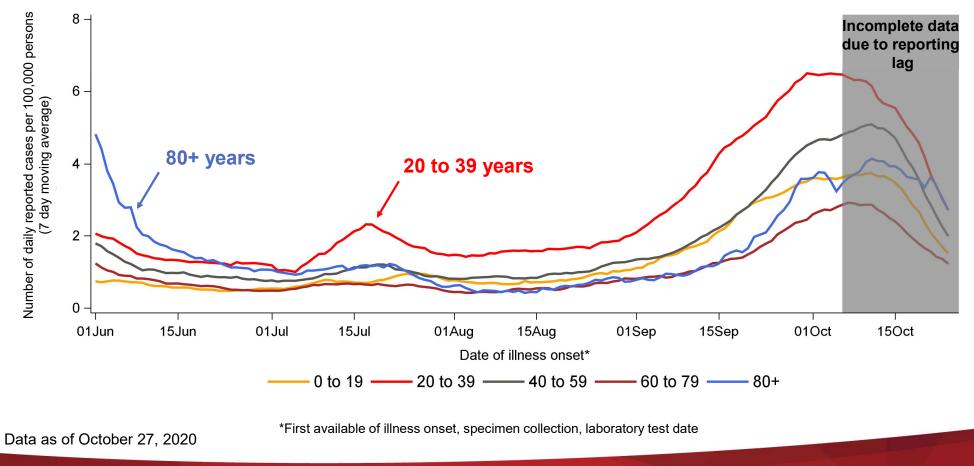
Canada continues to test at a high rate but recent spread has increased the percentage of people testing positive



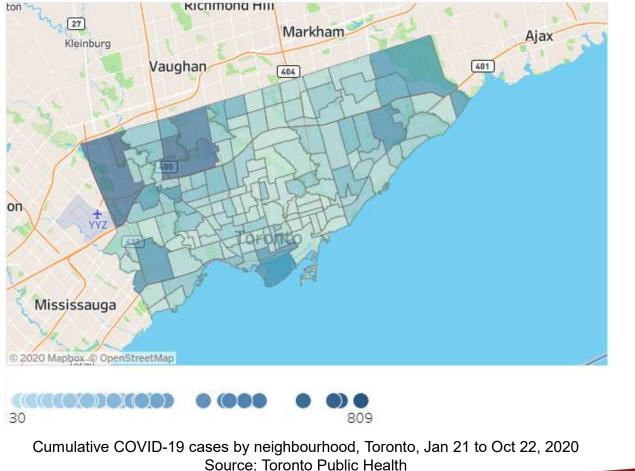
Over the past two weeks, more health regions are reporting higher rates of COVID-19 infection



Incidence of COVID-19 is increasing across all age groups but remains highest among those under 40 years of age



Health inequities are shaping the distribution of the pandemic in Canada



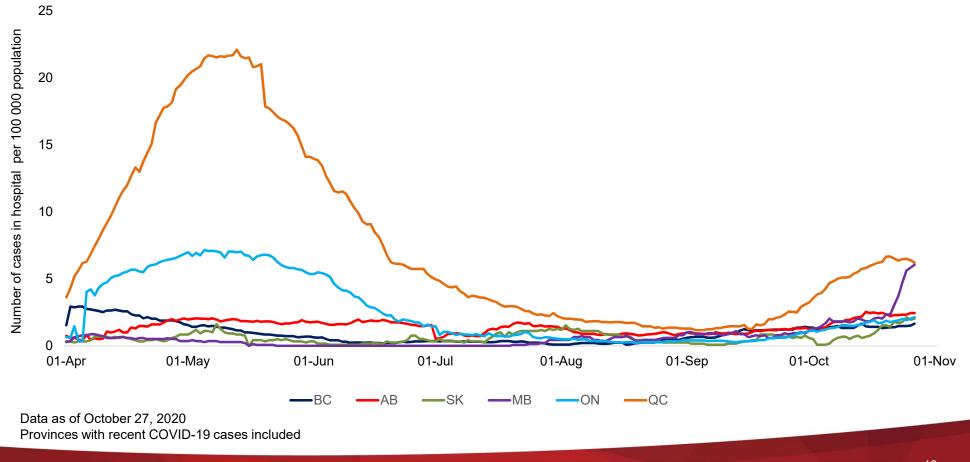
Source: https://www.toronto.ca/home/ covid-19/covid-19-latest-cityof-toronto-news/covid-19status-of-cases-in-toronto/

More outbreaks are occurring but they are smaller in size

Average number of cases per outbreak

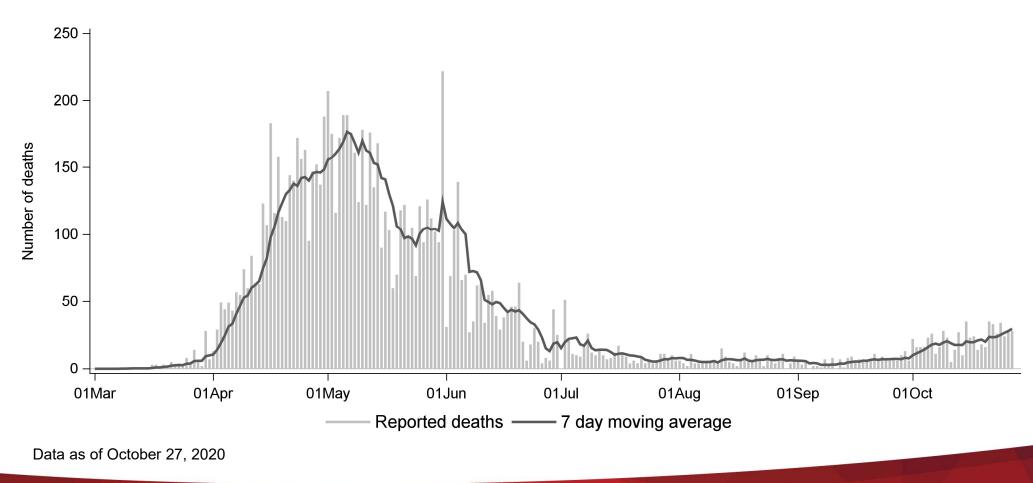
| Long term care and retirement residences | | | March to June | July to October |
|--|---|--|------------------|--------------------|
| | | Corrections, shelter and congregate living | 18 | 6 |
| | School & childcare centre | Healthcare | 14 | 13 |
| | | Industrial (including agricultural) | 86 | 12 |
| | and retirement residences Social gatherings | Long term care and retirement residences | 20 | 7 |
| | and other | Social gatherings, office workplaces, personal care and other settings | 8 | 3 |
| | | School & childcare centre | 16 | 7 |
| March-June | July-October | | | |
| Proportion of ou | ta sources: Provincial/territorial website ote school outbreaks include only those | | | |
| Data as of October 27 | | | | |
| | | | | |

Hospitalizations have increased following the increase in reported cases



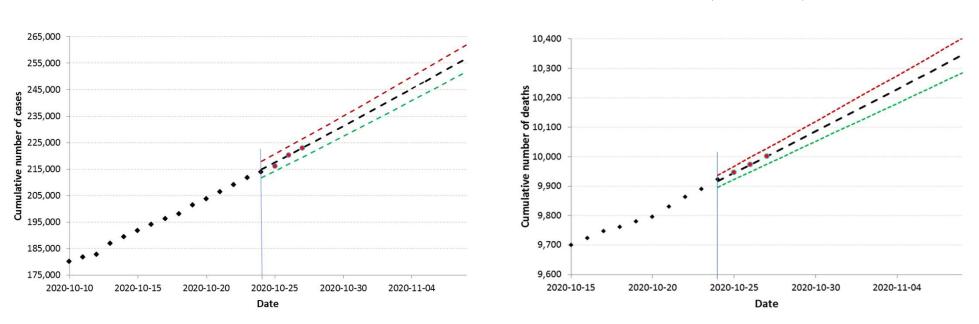
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Daily number of COVID-19-related deaths, which lag behind infections, is also gradually increasing



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The latest short-term forecast suggests a continuation of growth



Cumulative cases predicted to November 8: 251,800 to 262,000

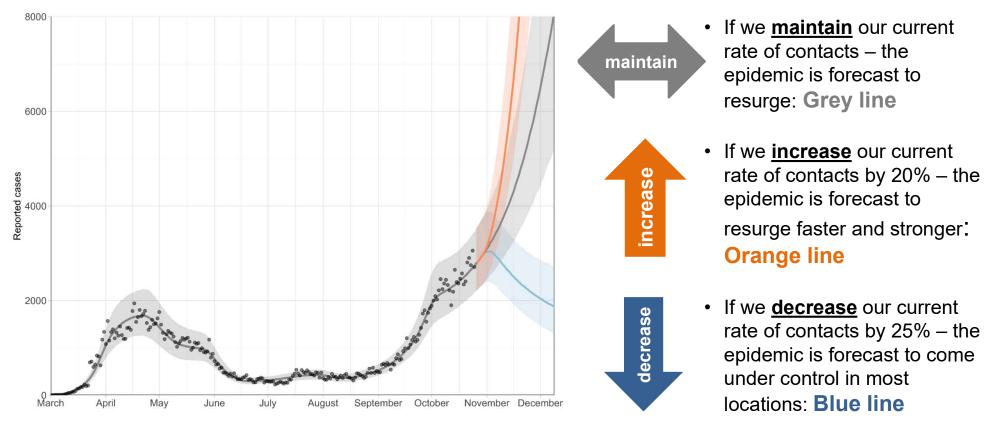
Cumulative deaths predicted to November 8 : 10,285 to 10,400

Cumulatively reported cases in Canada by October 24 - Prediction to November 08 ---Lower 95% prediction limit --- Upper 95% prediction limit

• Cases added since October 24 when the prediction was made

Extrapolation based on recent trends using a forecasting model (with ranges of uncertainty)

Long-range forecast indicates that a stronger response is needed now to slow the spread of COVID-19



Methods: Anderson SC, Edwards AM, Yerlanov M, Mulberry N, Stockdale J, Iyaniwura SA, Falcao RC, Otterstatter MC, Irvine MA, Janjua NZ, Coombs D, Colijn C. 2020. Estimating the impact of COVID-19 control measures using a Bayesian model of physical distancing. https://www.medrxiv.org/content/10.1101/2020.04.17.20070086v1

Celebrating fall events more safely

- Do your part to slow the spread and prevent new outbreaks
- Limit your contacts and avoid gatherings with those outside your consistent, trusted contacts
- Celebrate creatively with virtual gatherings and physically distanced outdoor activities
- Consistently maintain good public health practices: Stay home if sick, handwashing, physical distancing and wear a mask as appropriate
- Follow guidance from your local public health authorities

Help limit the spread. Download the COVID Alert app.

