

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

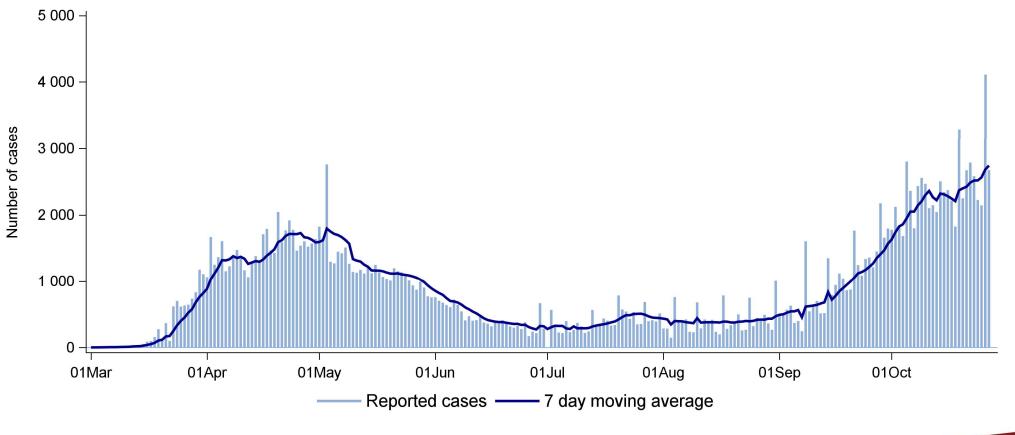


Update on COVID-19 in Canada: Epidemiology and Modelling

Oct 30th, 2020

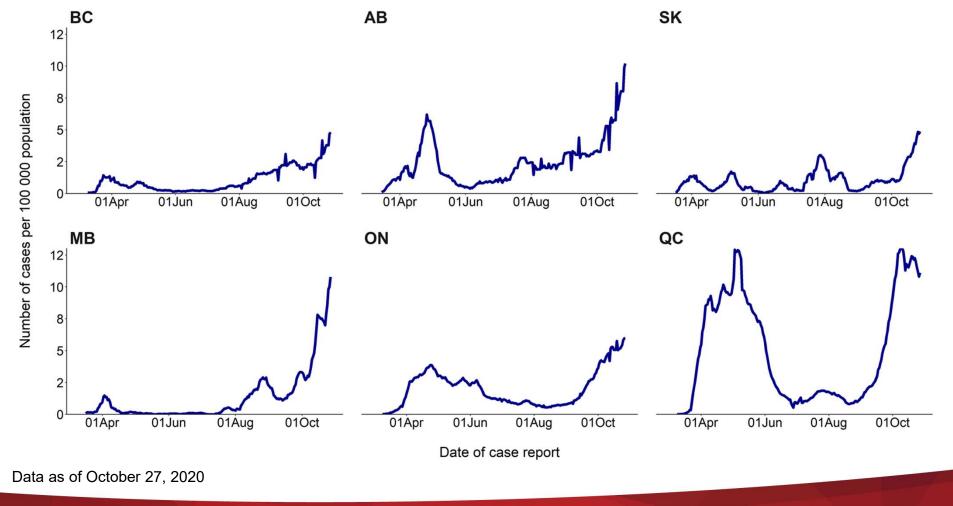


Daily case counts of COVID-19 continue to increase nationally

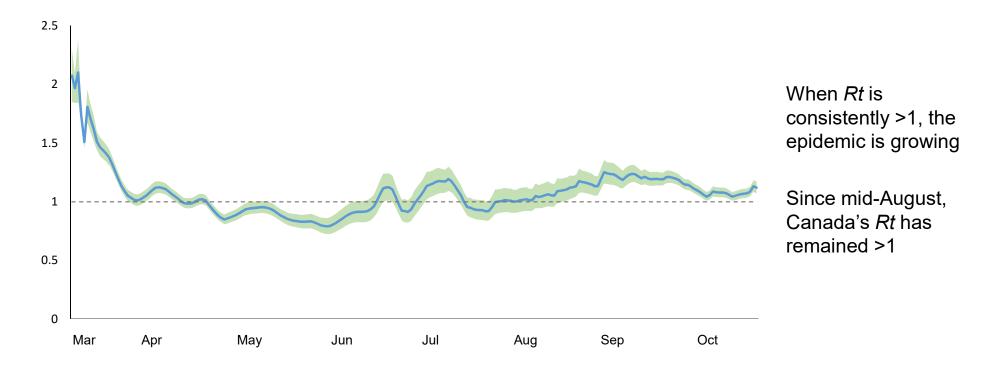


Data as of October 27, 2020

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



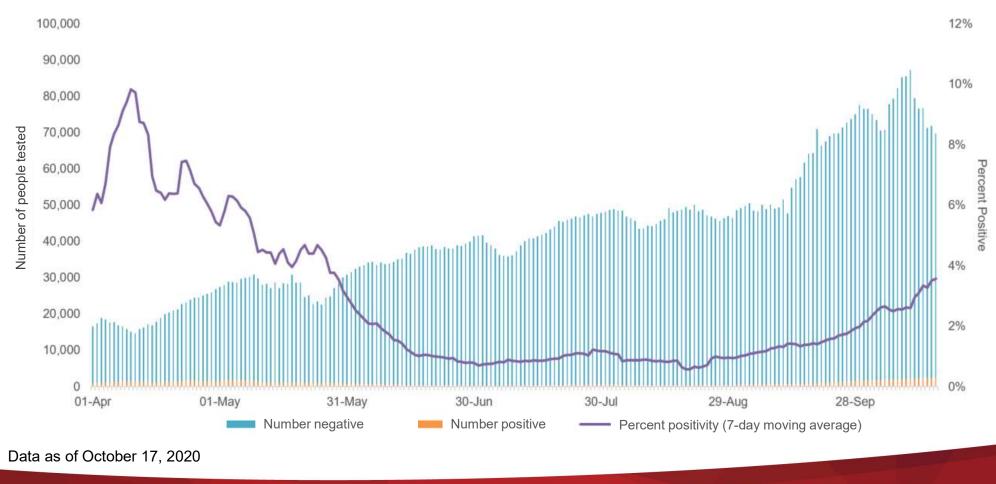
Each new case in Canada is spreading infection to more than one person, keeping the epidemic in a growth pattern



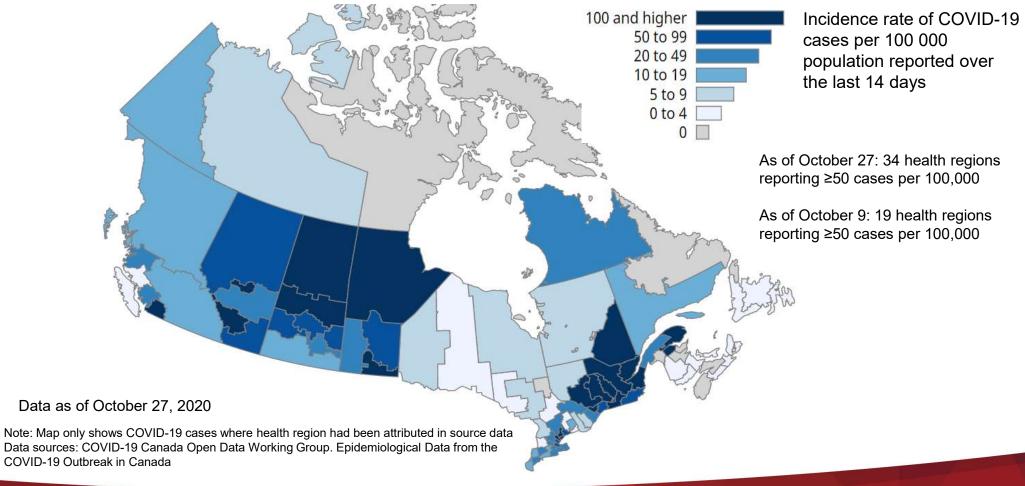
Canada's Rt over time

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

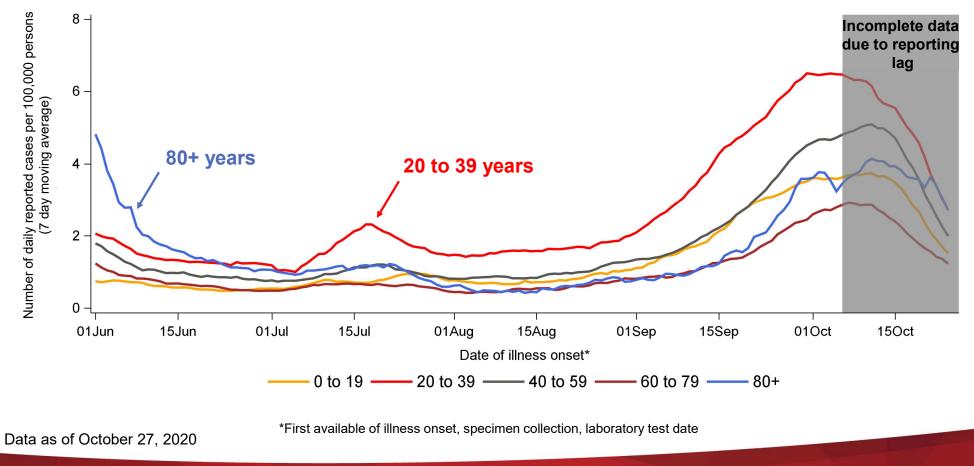
Canada continues to test at a high rate but recent spread has increased the percentage of people testing positive



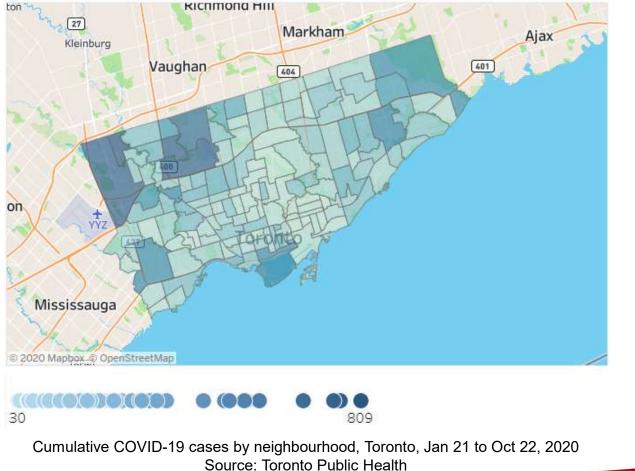
Over the past two weeks, more health regions are reporting higher rates of COVID-19 infection



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



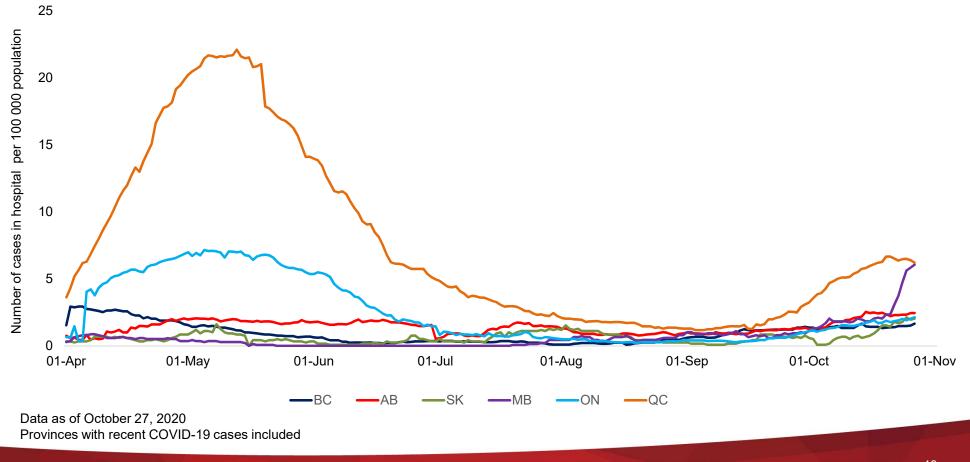
Source: https://www.toronto.ca/home/ covid-19/covid-19-latest-cityof-toronto-news/covid-19status-of-cases-in-toronto/

More outbreaks are occurring but they are smaller in size

Average number of cases per outbreak

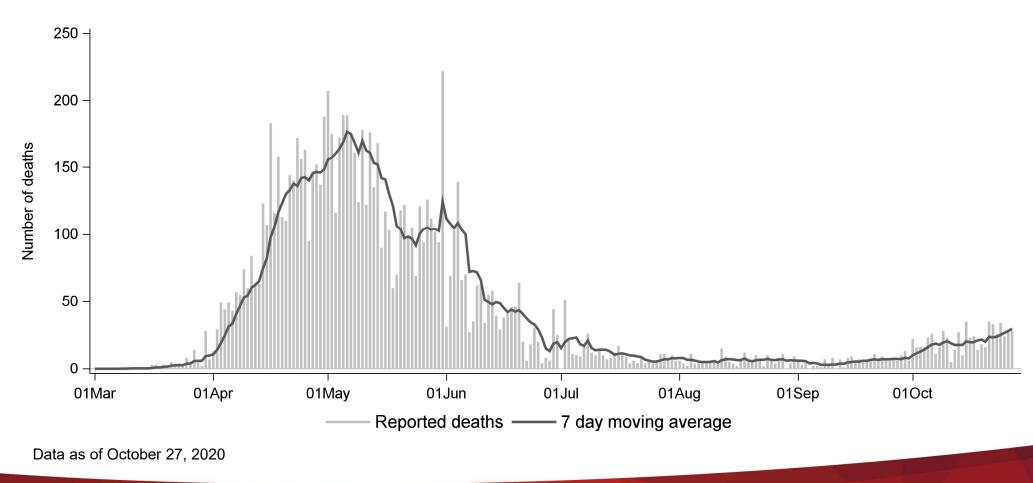
Long term care and retirement residences			March to June	July to October
		 Corrections, shelter and congregate living 	18	6
	School & childcare centre	 Healthcare 	14	13
		 Industrial (including agricultural) 	86	12
	and retirement residences Social gatherings	 Long term care and retirement residences 	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



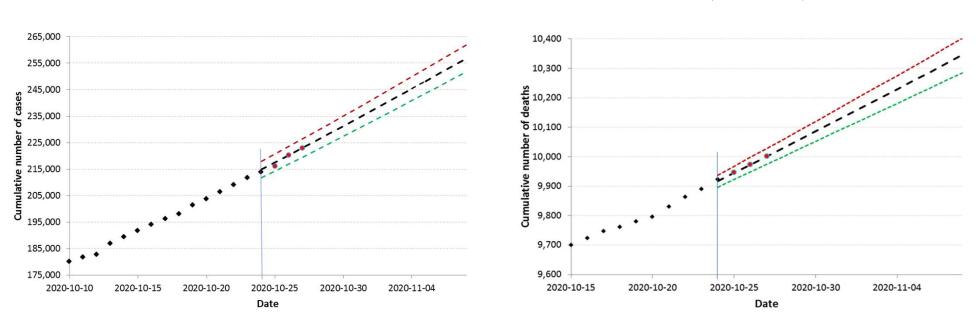
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Daily number of COVID-19-related deaths, which lag behind infections, is also gradually increasing



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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

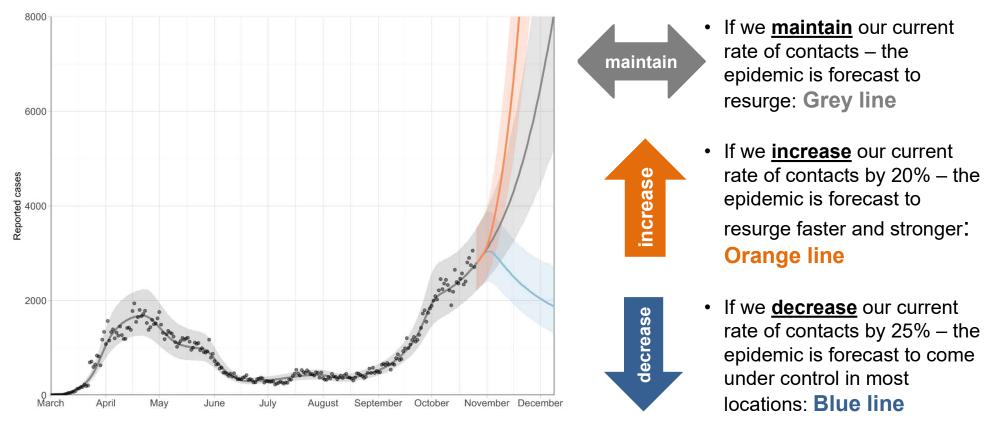
Cumulative deaths predicted to November 8 : 10,285 to 10,400

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.

