

Goals of the Pandemic Response

Minimize serious illness and overall deaths

- **Reduce the spread** of infection through promotion of individual and community actions
- **Protect the population** through provision of pandemic vaccine and implementation of other public health measures
- **Provide treatment and support** for large numbers of persons while maintaining other essential services

Minimize societal disruption

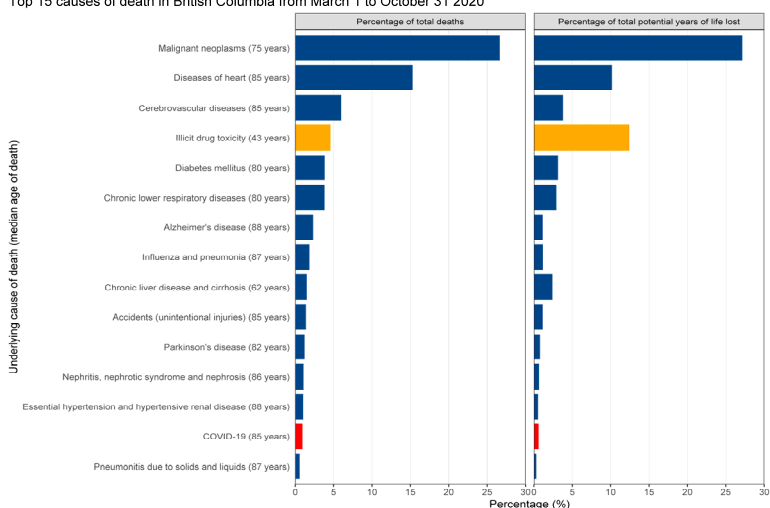
- **Support the continuity** of health care and other essential services
- **Support the continuation of day-to-day activities** as much as possible and promote a return to normal community functioning as soon as possible
- **Maintain trust and confidence** through support of evidence-informed decision-making by collection, analysis and sharing of surveillance and other scientific information; and communicate appropriate and timely advice to decision-makers, health professionals and the public
- **Support a coordinated response** by working collaboratively with all levels of government and stakeholders



BC Centre for Disease Control
Provincial Health Services Authority

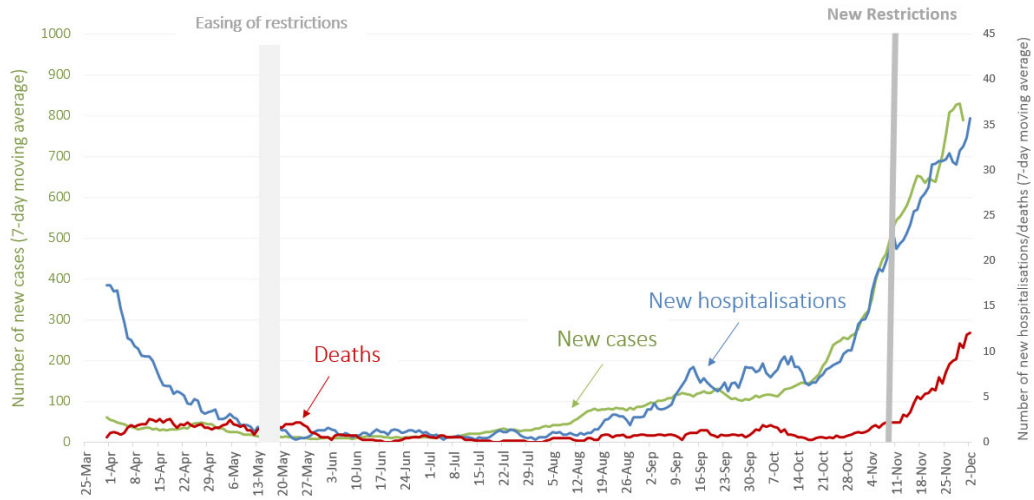
Top 15 causes of death in BC during the pandemic

Top 15 causes of death in British Columbia from March 1 to October 31 2020

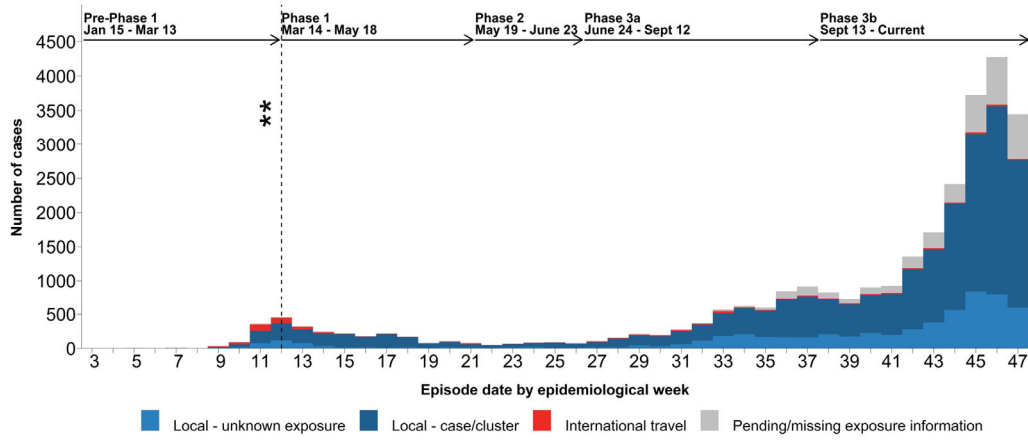


Data sources: 1) BC Vital Statistics; 2) COVID-19 deaths reported by public health; 3) Data on illicit drug toxicity deaths provided to BCCDC by BC Coroners Service and extracted on Nov 27, 2020; 4) Statistics Canada Table 13-10-0114-01 Life expectancy and other elements of the life table, Canada, reference period 2016-2018

The virus in B.C.

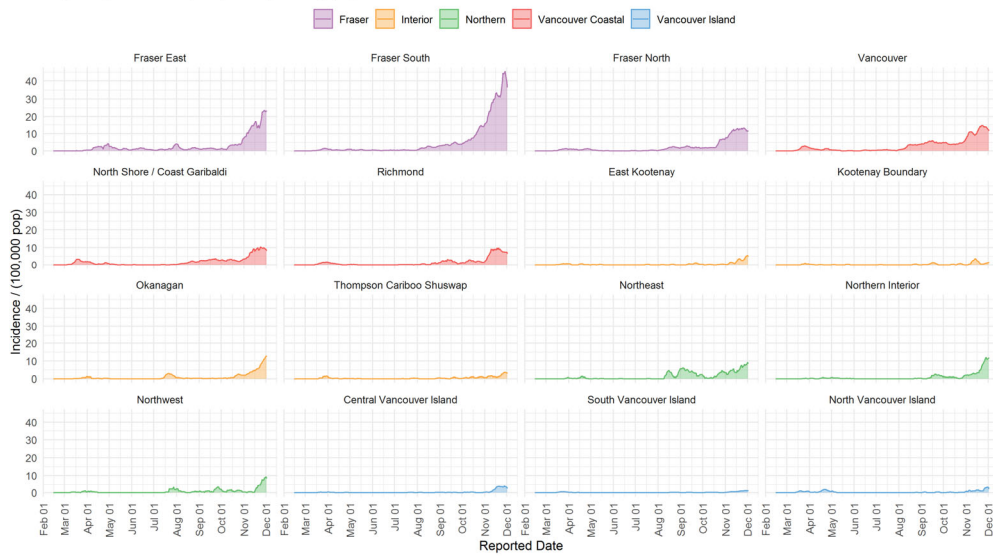


Transmission of COVID-19 in BC



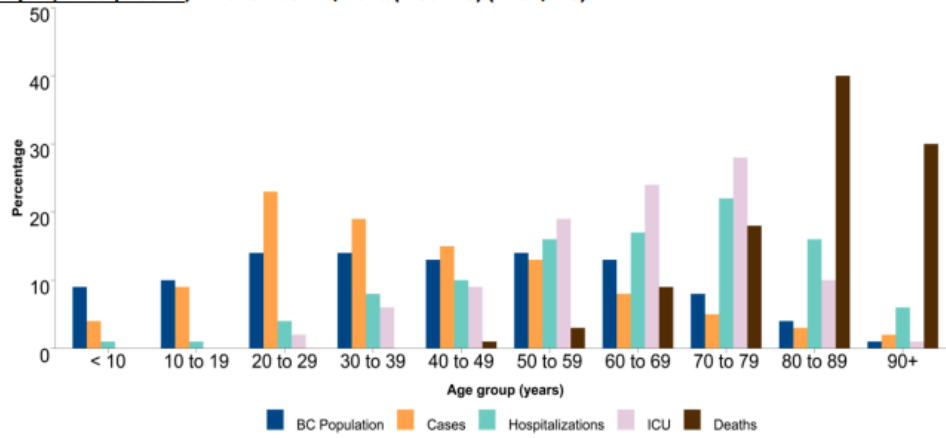
BC transmission rate varies widely

Avg. Daily Incidence (7-day rolling average) by HSDA



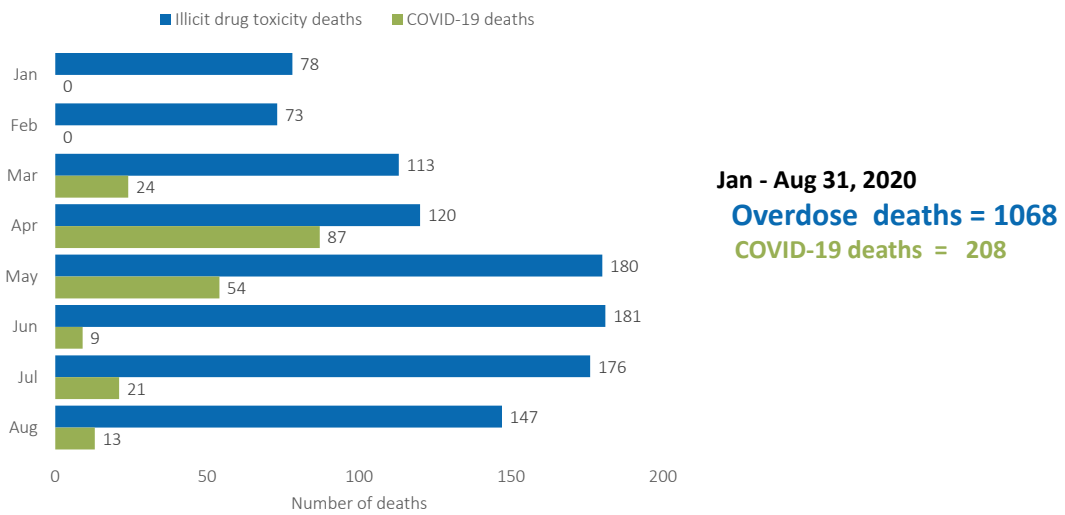
Who is at risk?

Figure 11. COVID-19 cases, hospitalizations, ICU admissions and deaths by age group, BC January 15, 2020 (week 3) – November 28, 2020 (week 48) (N=34,123)^a



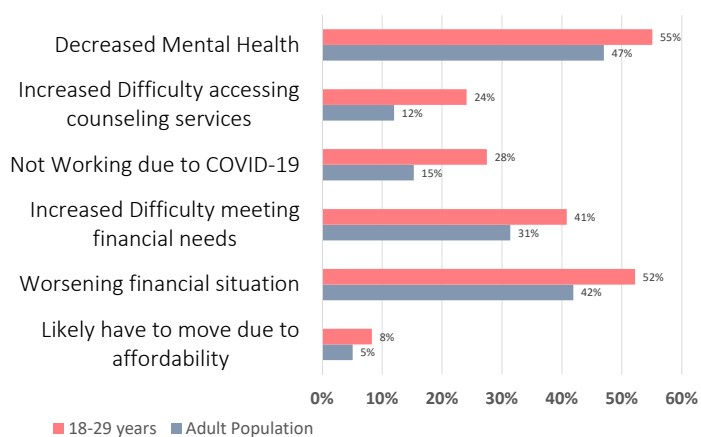
a. Among those with available age information only.

Potential unintended consequences



Source: Illicit drug toxicity death data provided to BCCDC by BC Coroners Service extracted 2020-09-18; COVID-19 death data from BCCDC

Disproportionate impact on 18-29 year olds



**Age 18-29
years and
not
working
due to
COVID-19**

1 in 2
Arts and entertainment

1 in 2
Accommodation and food services

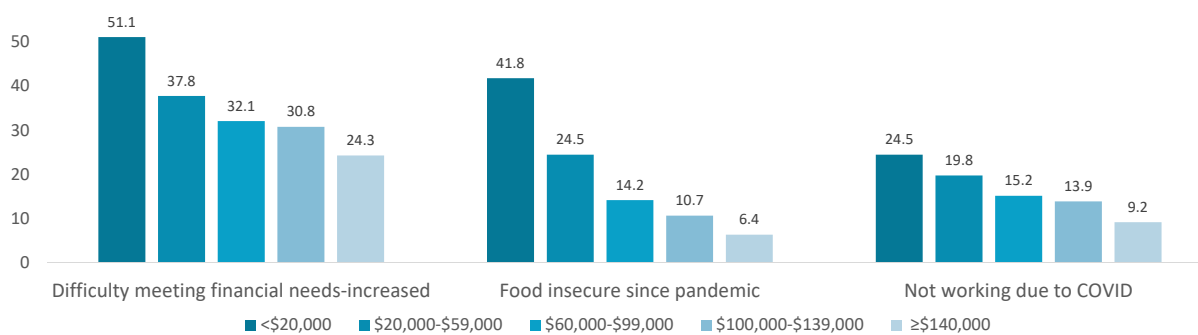
1 in 3
Retail

1 in 4
Report health condition associated with risk for severe COVID-19 illness



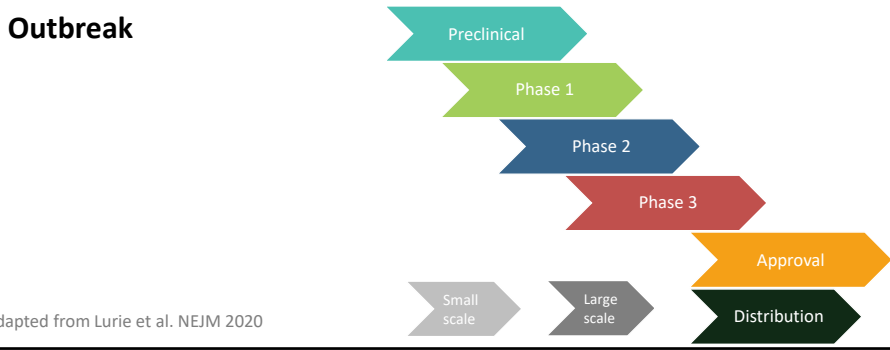
Lower income tied to worse economic & health consequences

Individuals with incomes less than \$60,000 had increased difficulty meeting financial need, were more food insecure and were more likely to be out of work.



% of respondents reporting economic impacts since pandemic

Vaccine development in a pandemic



Adapted from Lurie et al. NEJM 2020

In Canada

Agreements announced with:

Company	Vaccine type	Clinical phase	# doses (Canada)	Reported efficacy
Medicago	Subunit	Phase 2	≤76m doses	
Novavax	Subunit	Phase 3	≤76m doses	
Sanofi/GlaxoSmithKline	Subunit	Phase 2	≤72m doses	
Moderna (S-2P)	RNA	Phase 3	≤56m doses	95% (interim)*
Pfizer/BioNTech (RBD)	RNA	Phase 3	≥20m doses	95%**
Johnson & Johnson	Viral vector	Phase 3	≤38m doses	
Oxford University/Astra Zeneca	Viral vector	Phase 3	≤20m doses	

*162/170 cases in placebo group; 0 severe cases in vaccine group; 11 severe cases in placebo group

**90/95 cases in placebo group; 1 severe case in vaccine group; 9 severe cases in placebo group

