

Public Health and COVID-19

SDMS COVID-19 Virtual Town Hall April 9, 2020

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Medical Officer of Health/CEO

Public Health Sudbury & Districts



Public Health
Santé publique
SUDBURY & DISTRICTS

Public Health and COVID-19

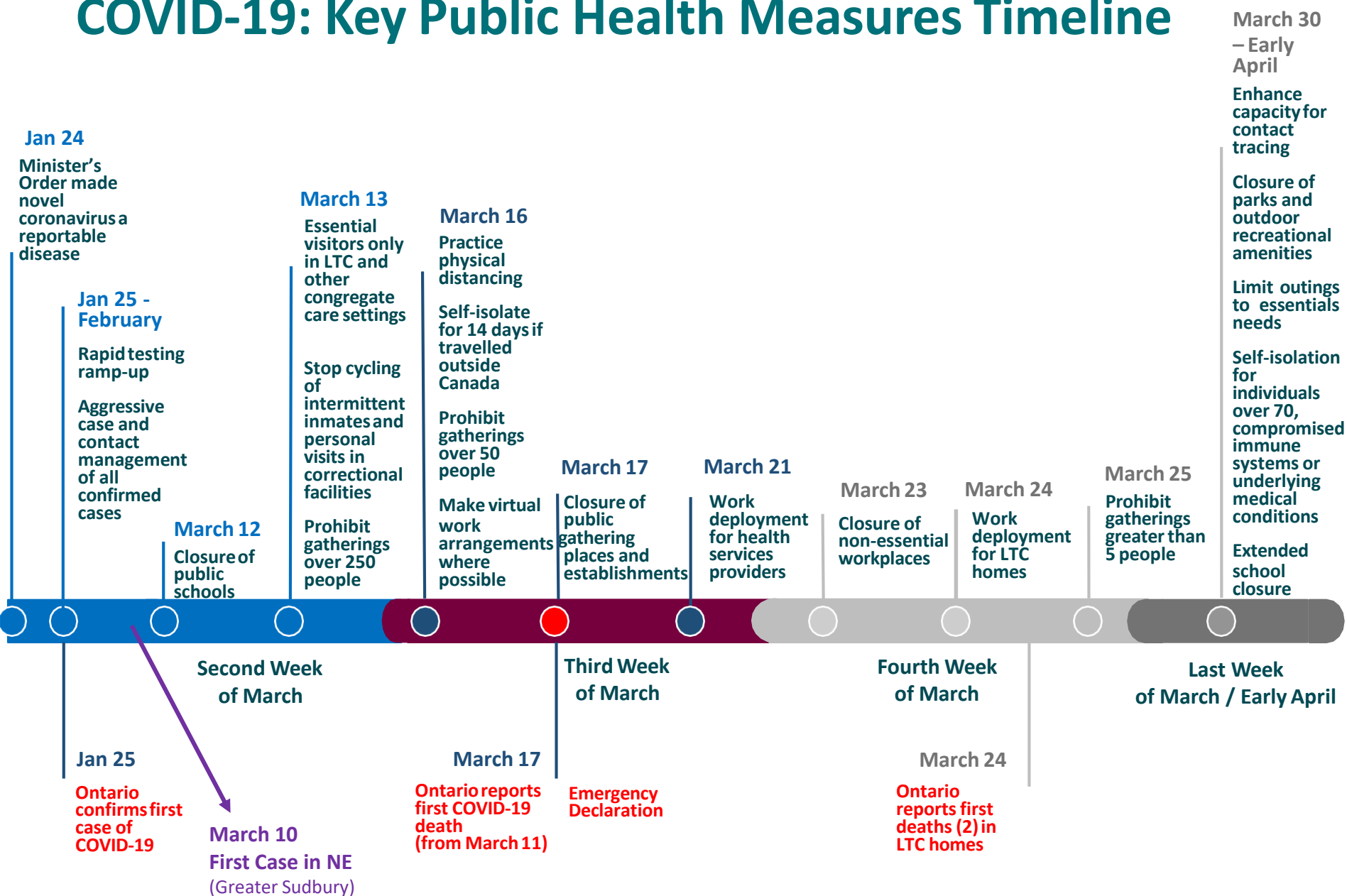
No

- Not COVID-19 *101*
- Not (very much) original material
- Not *death by powerpoint*

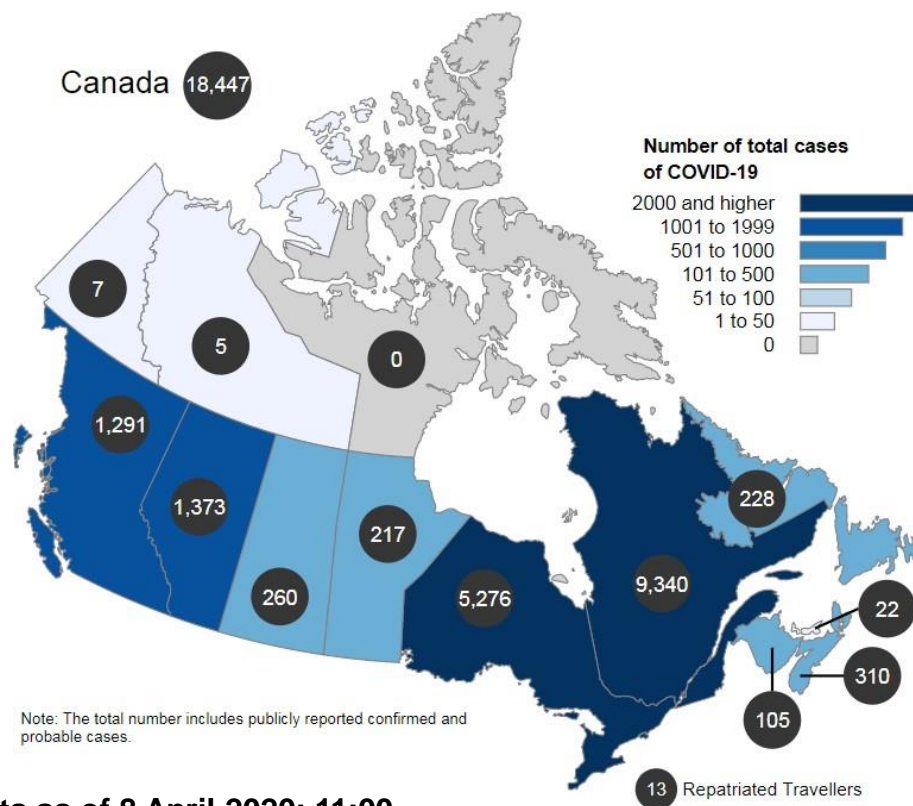
Yes

- Brief history
- Local epidemiology
- Public health measures
- Questions you may have
 - Testing

COVID-19: Key Public Health Measures Timeline



The situation today – a snapshot

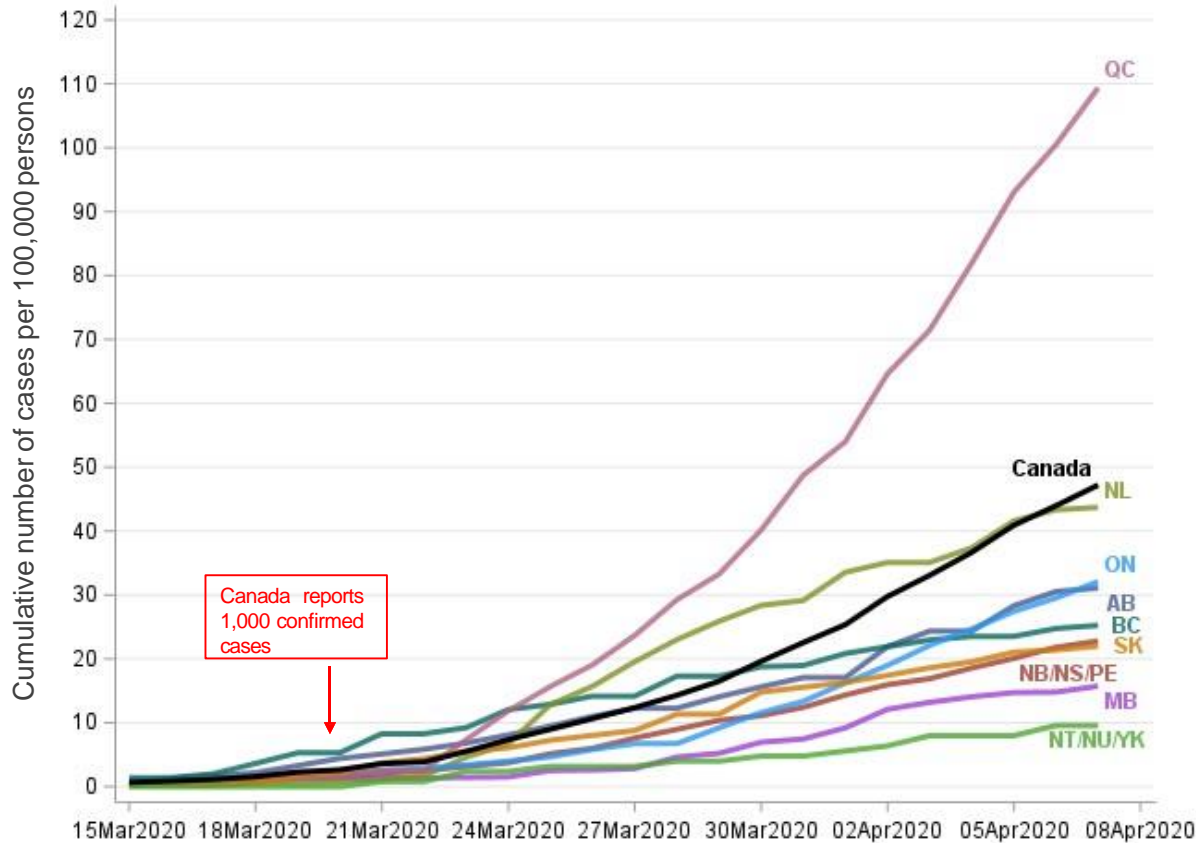


Data as of 8 April 2020: 11:00

Severity indicator	Total number	%
Deaths	401	2.2% of 18,447 (all cases)
Hospitalizations	1,118	19% of 5,823 (case reports)
Admissions to ICU	326	6% of 5,823 (case reports)

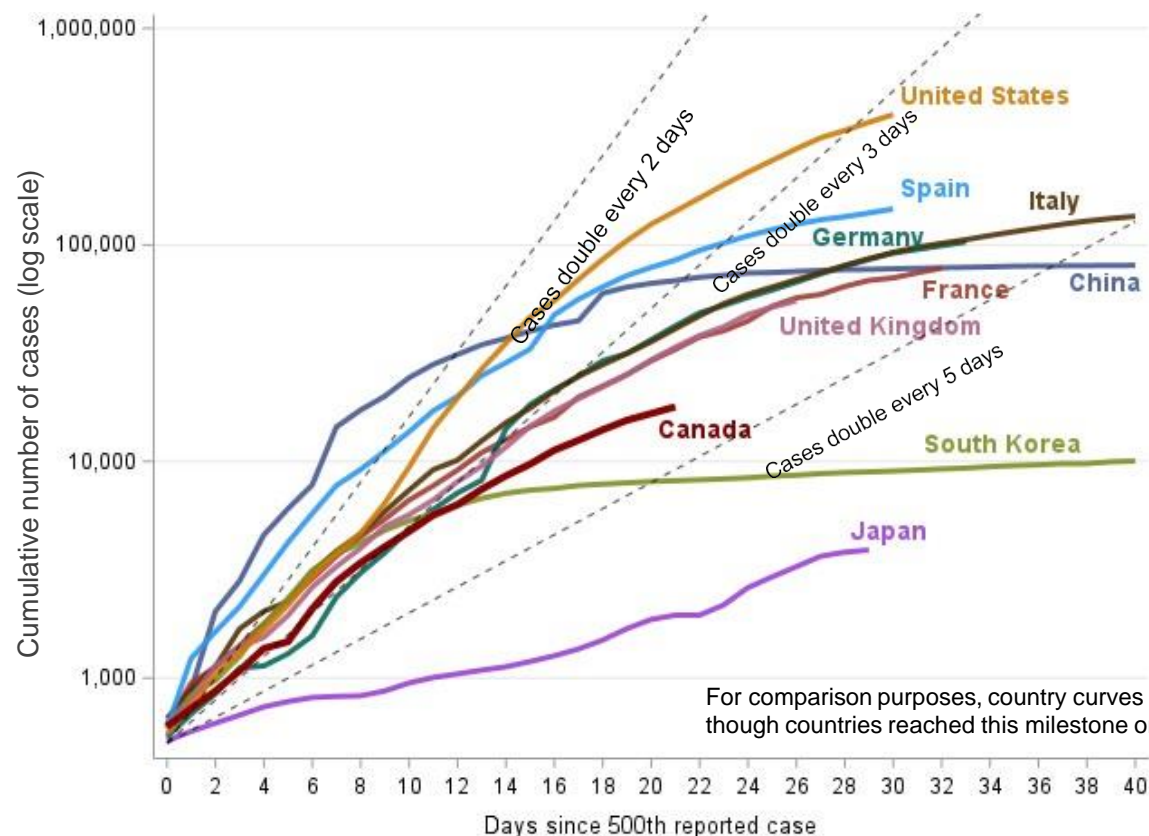
- **94% of cases are in four provinces:** Quebec, Ontario, British Columbia, Alberta
- **98% of deaths are in four provinces:** Ontario, Quebec, British Columbia, Alberta
- At least **198 deaths** among residents of long-term care homes

Canada has a series of regional epidemics



- Differences in laboratory testing and confirmation strategies explain some variation by province/territory
- Territories have very low rates of transmission so far

Community transmission started later in Canada allowing us to act early



- Canada's epidemic is in earlier stages
- Canada has a slower increase in total number of cases
- Canada's per capita testing rate is higher than most countries
- Many countries reached their first 500 cases before community transmission started in Canada
- This allowed Canada to learn from other countries' experiences and approaches and to act earlier in the epidemic's progression

COVID-19 Cases in the North

Cumulative Cases

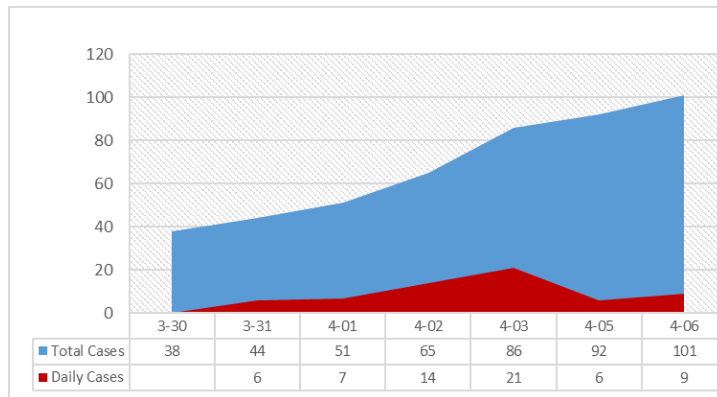
Total Confirmed Cases

101

+9 from previous day

Total Deceased

+xx from previous day



Total Cases



Daily Cases

Data as of April 6, 2020 unless specified otherwise

Active Cases in Hospital and LTC

In ICU Apr 5

3 confirmed

17 suspected

Hospitalized (incl. ICU) Apr 5

10 confirmed

85 suspected

LTC homes with confirmed cases

0 +xx from previous day

LTC homes with outbreaks

0 +x from previous day

LTC HOMES
with +ve

COVID-19 Assessment Centres^ Testing

31* COVID-19 Assessment Centres(AC) now reporting daily

2141 Assessments completed at AC

1097 Tests completed at AC

Testing results by Public Health Unit (PHU) district

PHU Districts	Positives	Negatives	Pending
Algoma (SAH, NSHN, LDHC, HCH, SJGH)	8	359	208
NBPS* (MGH, WNGH, NBRHC, WPSHC)	7	314	114
Northwestern (AGH, DRHC, LWDH, RLMCMH, RHC, SLMHC)	7	283	136
Porcupine (LMH, AGH, BMH, NDH, SH, SMRF, TDH, WAHA)	30	360	63
Sudbury & District* (HSN, SSCHS, MHC, EGH, SJCC)	26*	671	250
TBDHU (GDH, NDMH, NOSH, MGH, SJCG, TBRHC)	18	449	78
Timiskaming (KDH, TH, EDH)	5	150	31
Total (Daily)	101	2586	880

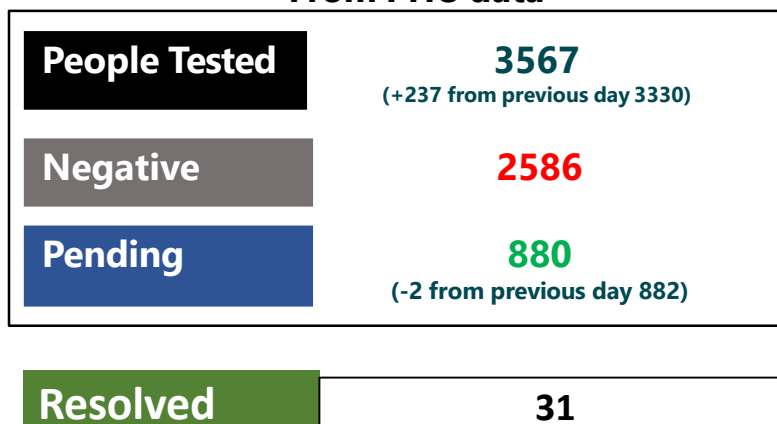
PHU report as of April 6, 2020,

*as of April 5/20 *31 ACs reporting

^AC data as of April 5/20

Data as of April 6 unless specified otherwise

Cumulative North Results As of April 6, 2020 From PHU data



Resolved

31

Northern Health Unit COVID-19 reporting

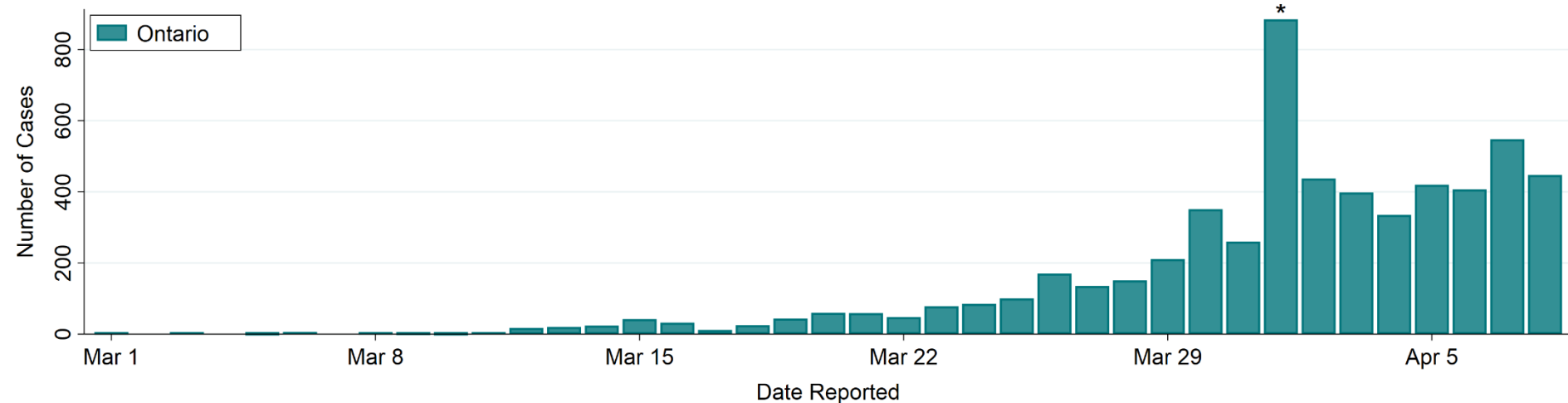
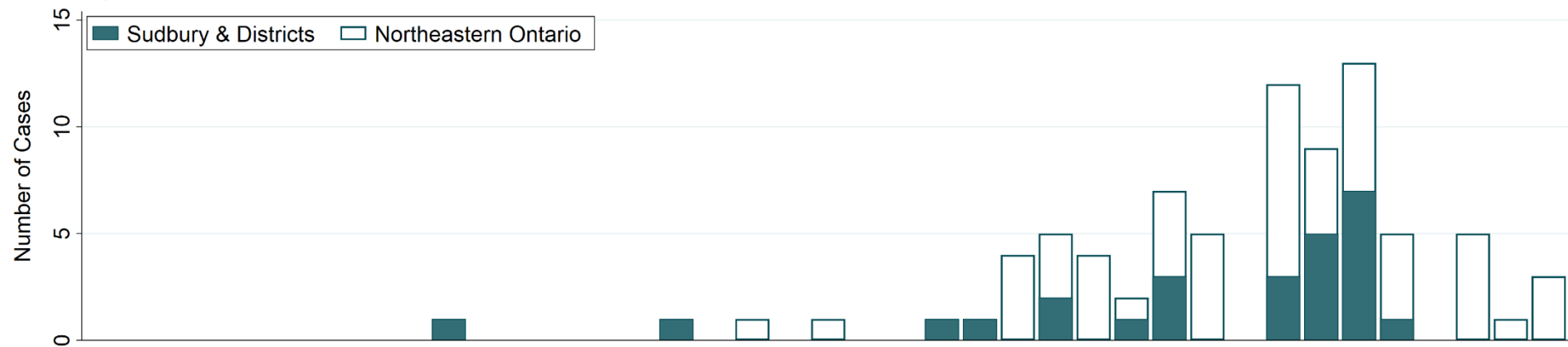
Current as of April 8, 2020

Location/PHU	Negative Tests	Positive Tests	Pending Tests	Total	Resolved	Deceased	Community Spread?
World		1,447,051				83,130	Yes
Canada		18,447		359,269	4,322	401	Yes
Ontario		5,759	1,208	88,698	2,305	200	Yes
Southern Ontario		5,648	225	84,560	2,260	197	Yes
Northern Ontario	2,559	111	983	4,138	45	3	Yes
Northwestern	307	7	223	537	2	0	No
TBDHU	458	21	113	592	8	0	No
Algoma	427	9	230	666	1	0	No
NBPS	.	8	.	493	5	0	Yes
PH Sudbury & Districts	832	28	275	1135	16	1	Yes
Porcupine	372	31	103	506	11	2	Yes
Timiskaming	163	7	39	209	2	0	No

Source: Northern Ontario Health Units, daily regional reporting to OH, Public Health Ontario, Ontario MOH Situation Report #74, Government of Canada COVID-19 Outbreak Update, Ontario MOH COVID-19 Update

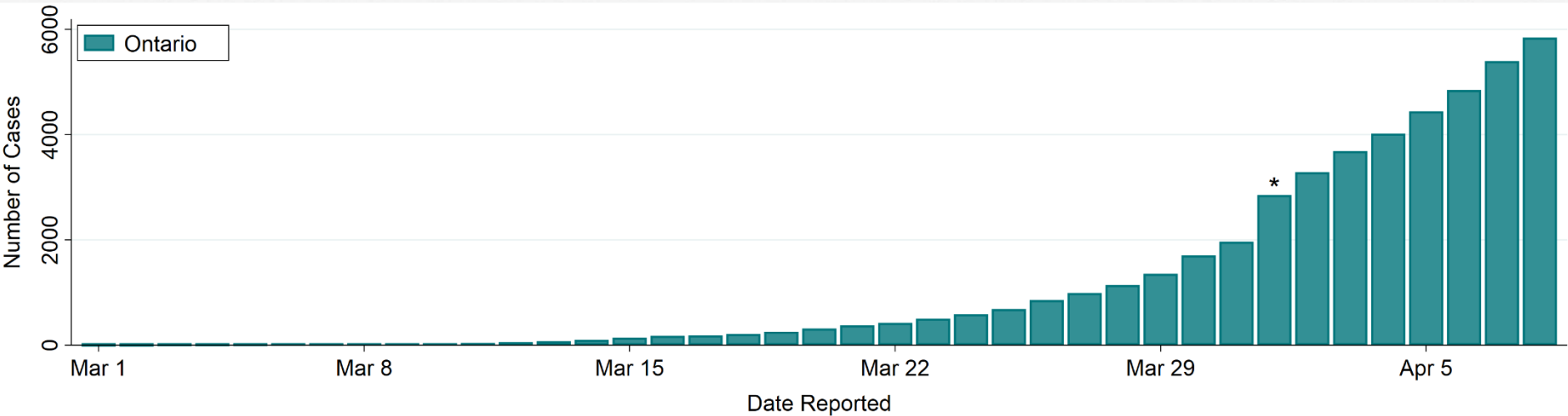
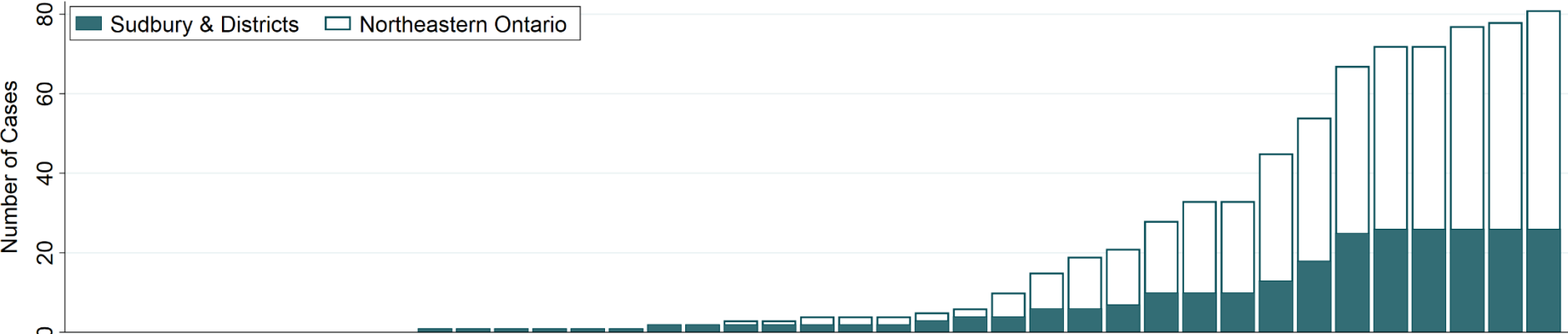
Regional Data – Sudbury & Districts and NE

New Reported Confirmed COVID-19 Cases



* Methodology change at data source
Data Source: COVID-19 Canada Open Data Working Group. <https://github.com/ishaberry/Covid19Canada>. (Access Date: April 9, 2020).

Cumulative Reported Confirmed COVID-19 Cases



* Methodology change at data source
Data Source: COVID-19 Canada Open Data Working Group. <https://github.com/ishaberry/Covid19Canada>. (Access Date: April 9, 2020).

Public Health Sudbury & Districts Confirmed Cases

Laboratory Test Results as of April 8th, 2020 @ 5pm

Cases to April 9, 2020 @ noon

Total Number of tests Conducted	1135
Results Pending	275
Negative	832
Confirmed positive (includes resolved and deceased)	28
Resolved	16
Deceased	1
<i>By Geographic Area</i>	
Greater Sudbury	24
Sudbury District	2
Manitoulin District	2

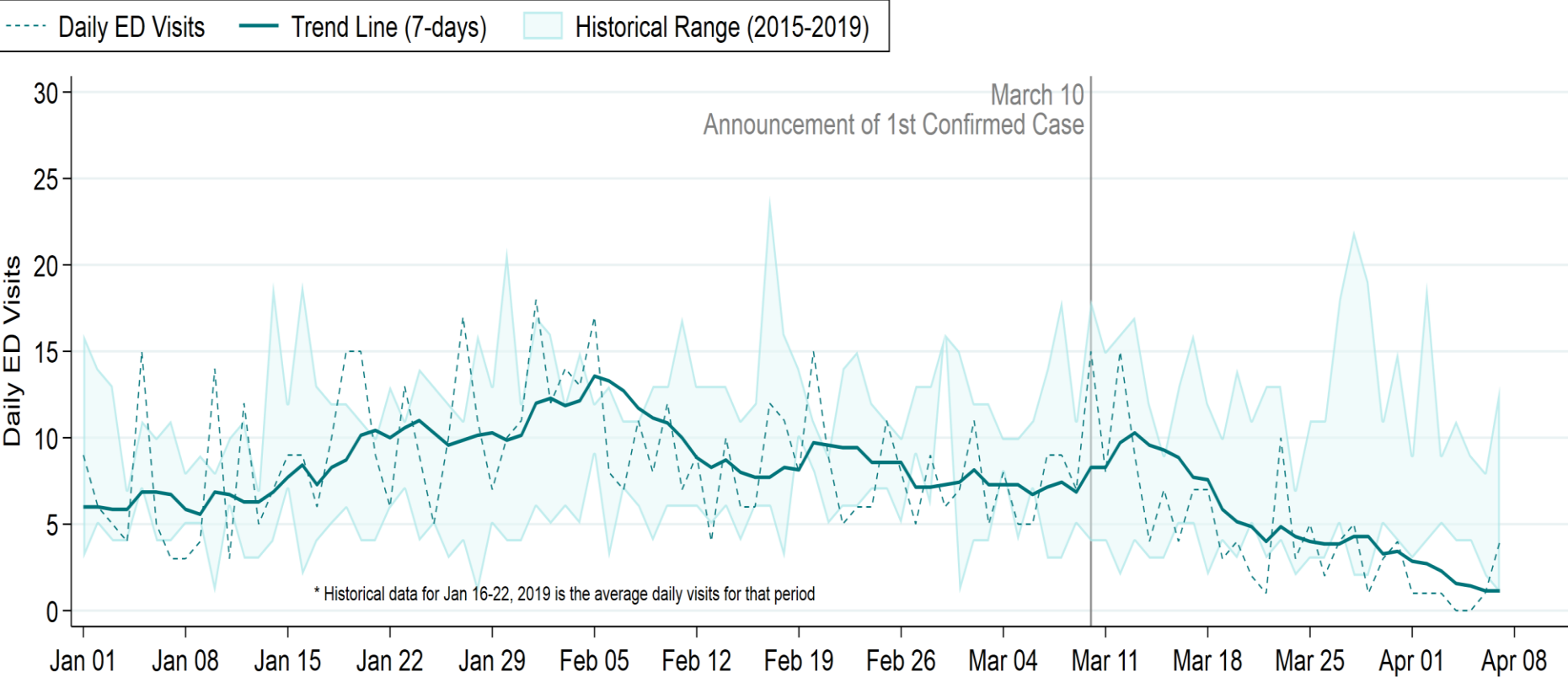
Age Group	Count (n)	Percentage (%)
0 to19	2	7
20 to 39	6	21
40 to 59	12	43
60 to 79	8	29
80+	0	0

Sex	Count (n)	Percentage (%)
Females	15	54
Males	13	46

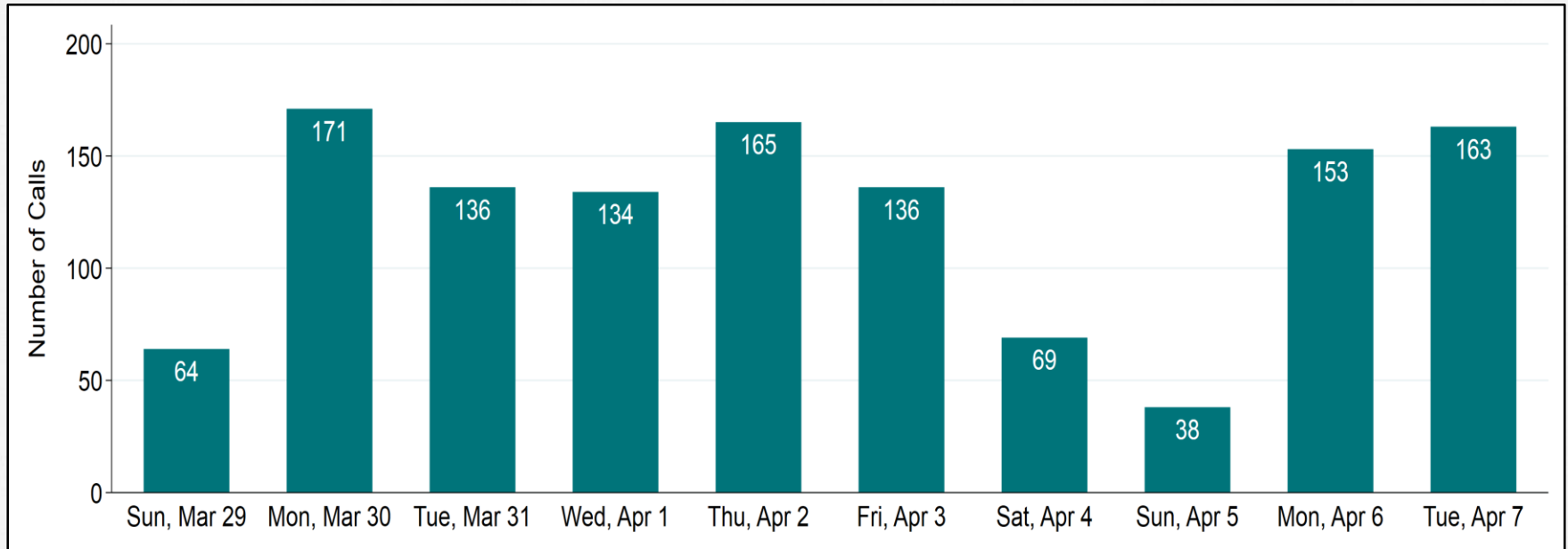
Confirmed cases by Exposure Type and Status

	Count (n)	Percentage (%)
Exposure type		
Close contact	14	50
Domestic travel	2	7
International travel	15	54
Unknown	2	7
Status		
Self-isolating	24	86
Hospitalized	3	11
Deceased	1	4

FIGURE 1: ED visits for ILI syndrome with historical range, by day, Sudbury and Manitoulin Districts



Incoming COVID-19 Calls to Public Health Sudbury & Districts Call Centre



Public Health Measures

In absence of...

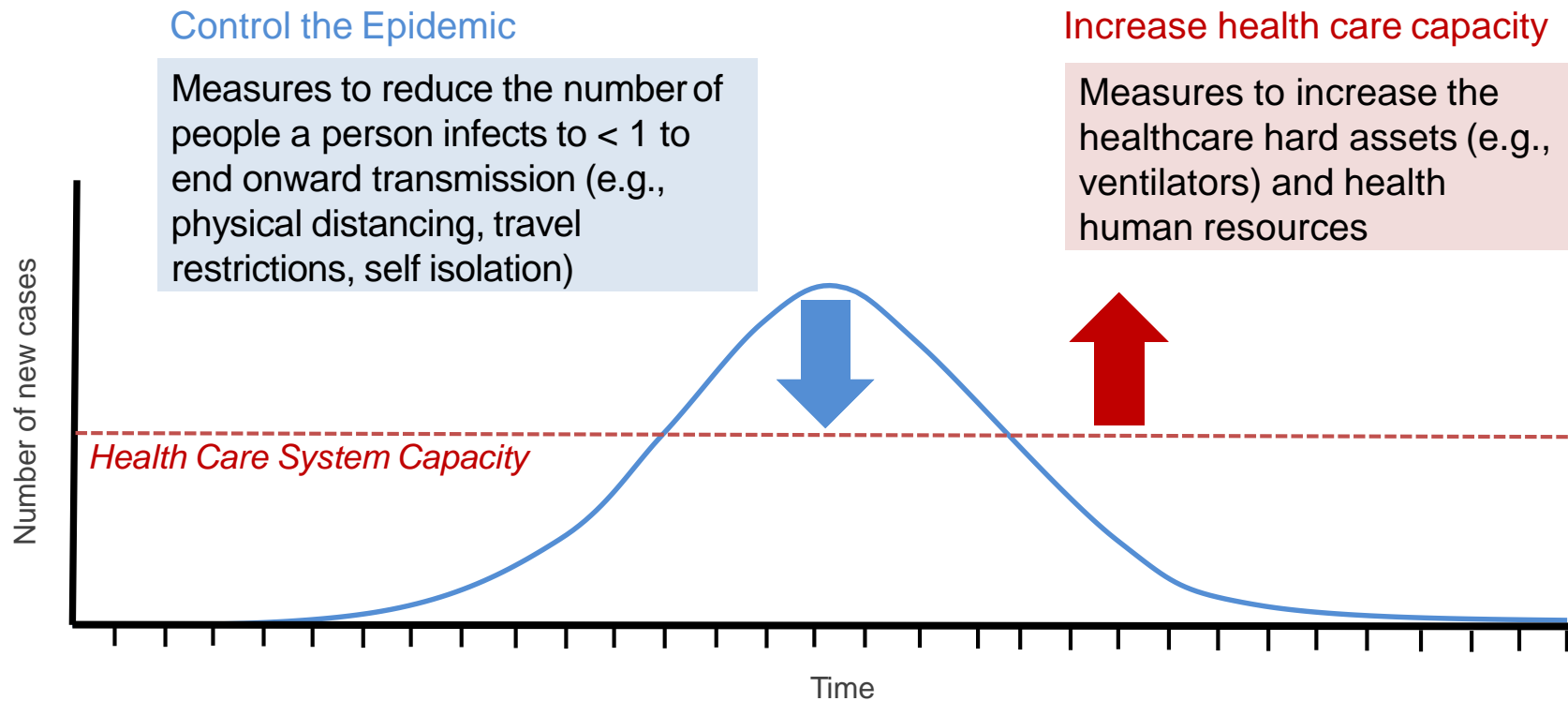
- Vaccine
- Specific treatment

**Go home.
Stay home.**

We have...

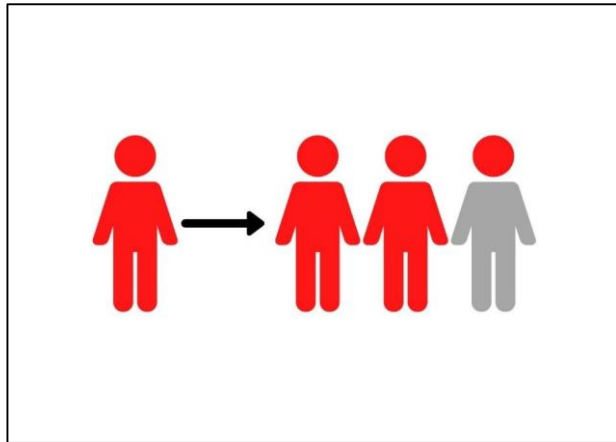
- Distance (masks)
- Hand/respiratory hygiene
- Travel restrictions
- Case detection and isolation
- Quarantine of contacts and travelers

Our strategy: Control epidemic, increase health care system capacity

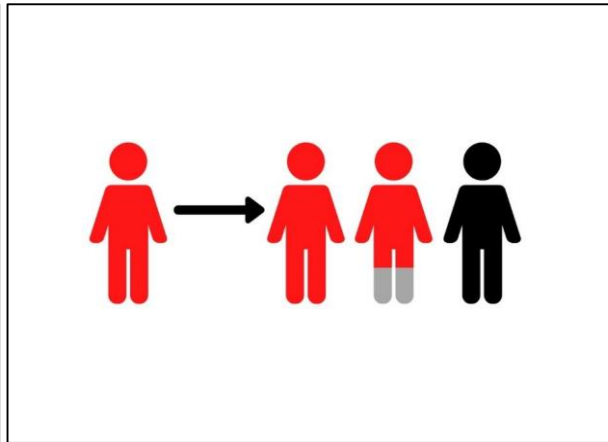


If each person infects fewer than one person on average, the epidemic dies out

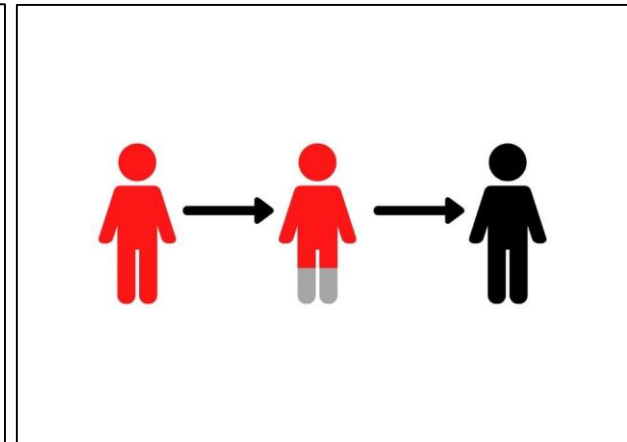
Where we've been



Prior to stronger public health measures, each infected person (case) in Canada infected 2.19 other people on average

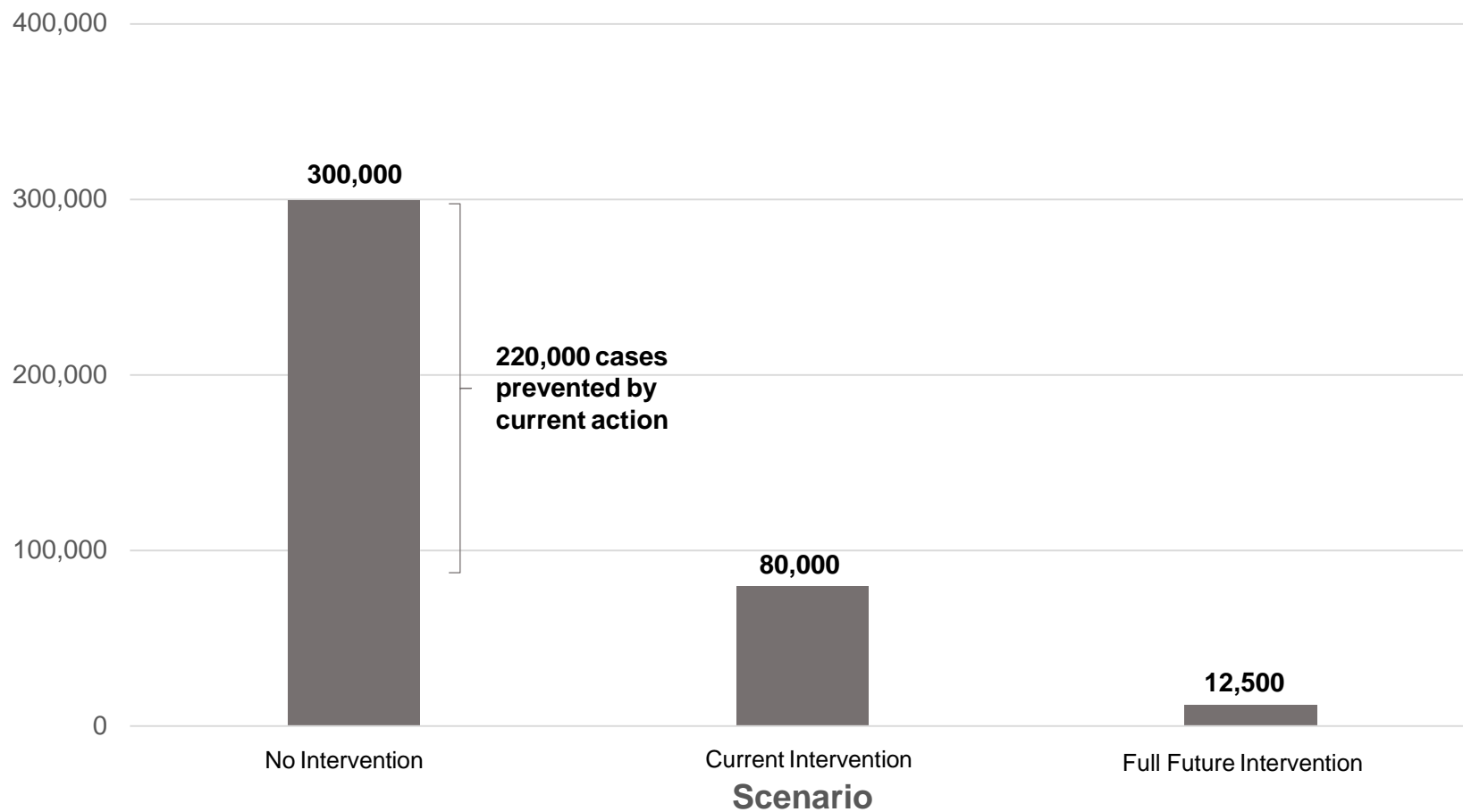


Today, stronger physical distancing and self-isolation are helping to reduce the average number of people each case infects

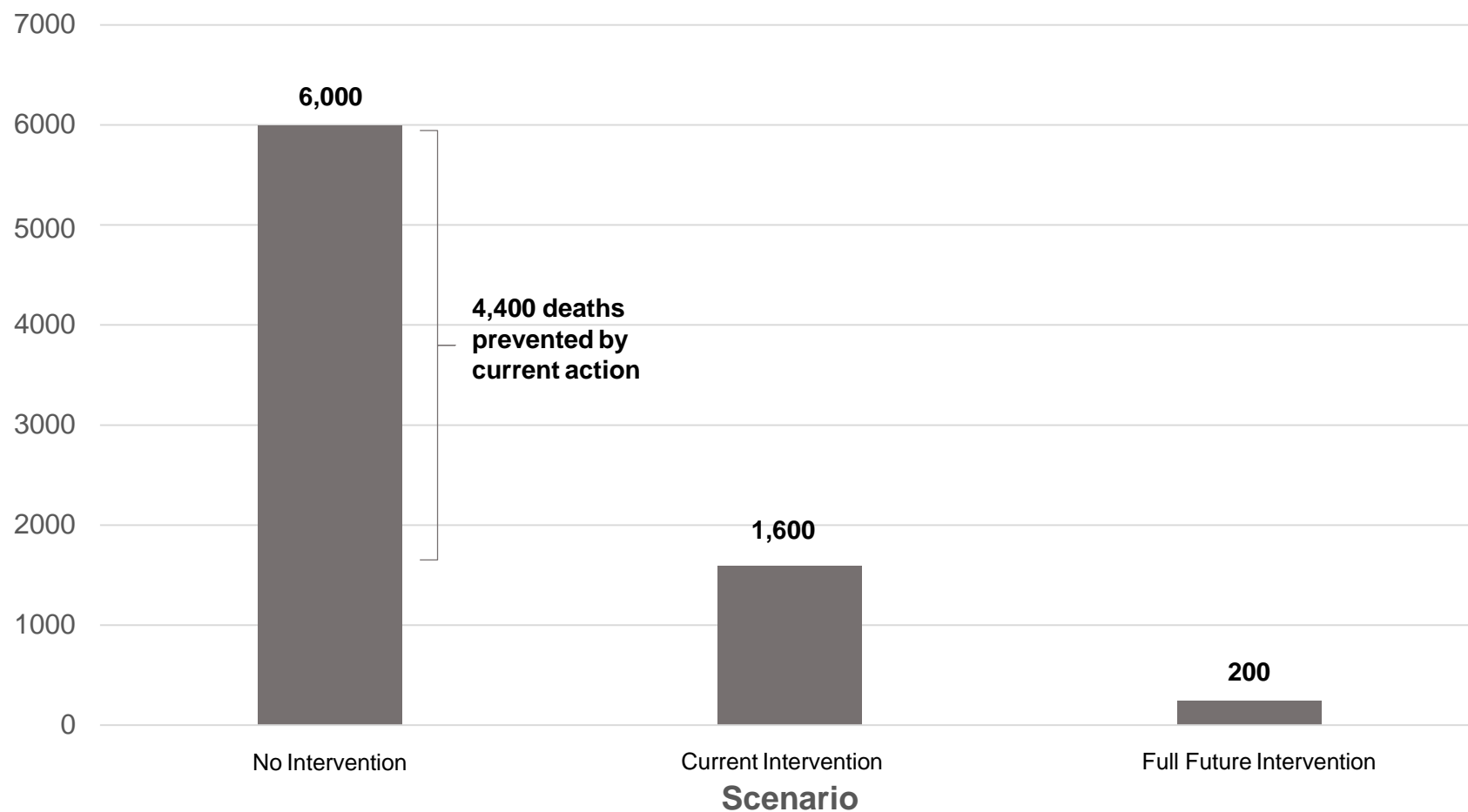


Goal: Each person infects fewer than one person on average; epidemic dies out

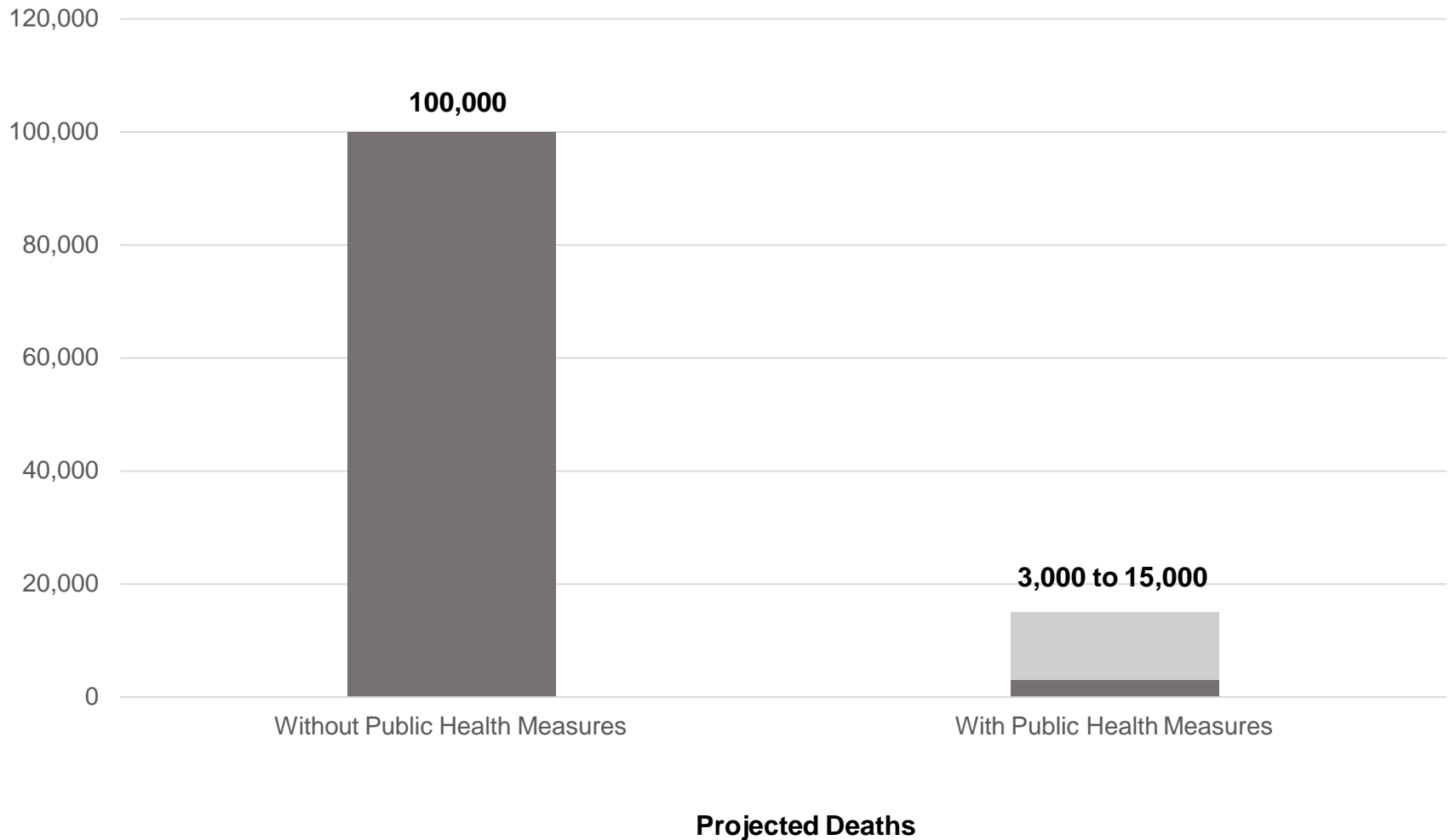
Projected Ontario Cases by April 30, 2020



Projected Ontario Deaths by April 30, 2020

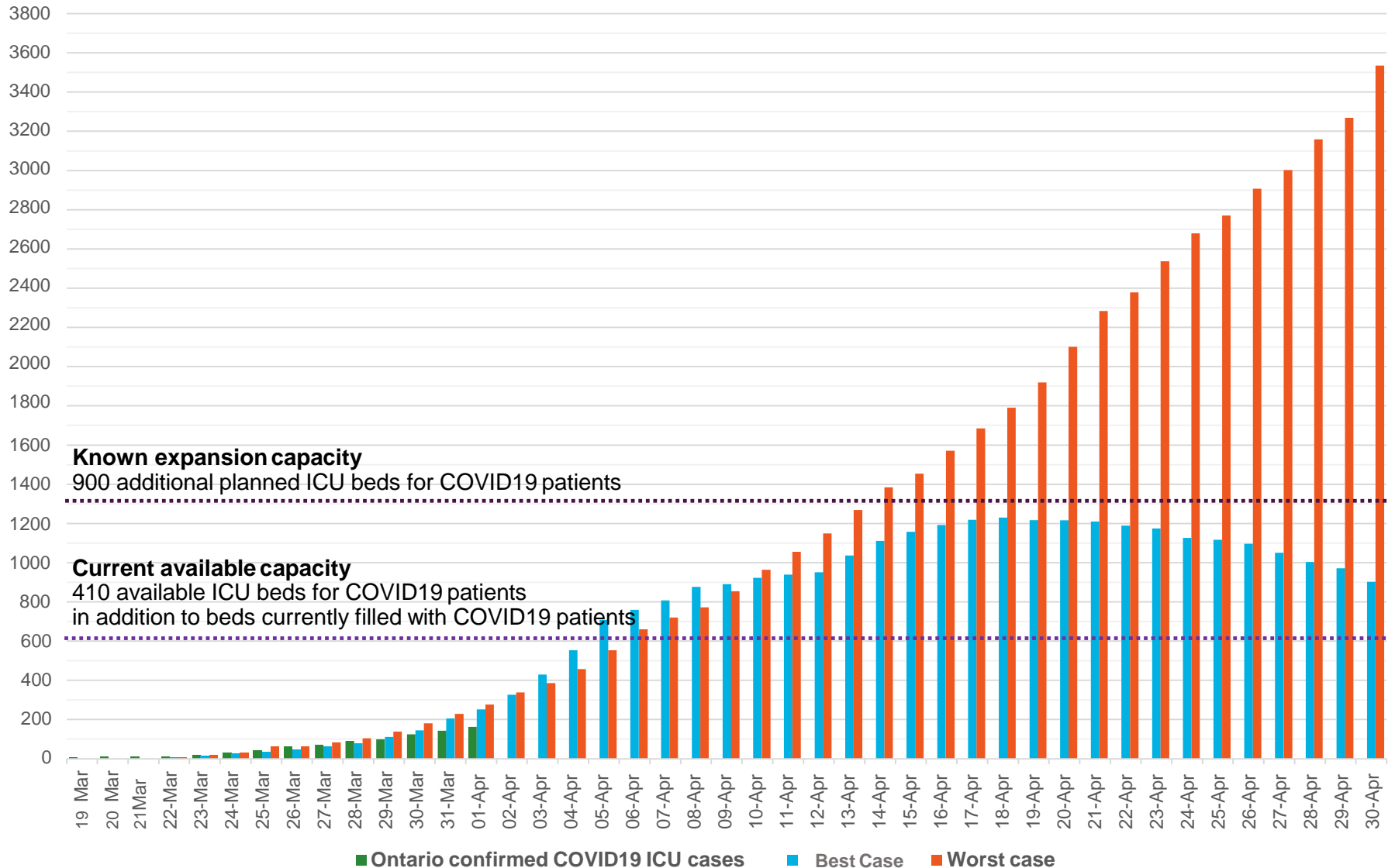


Projected Ontario Deaths over Course of Pandemic

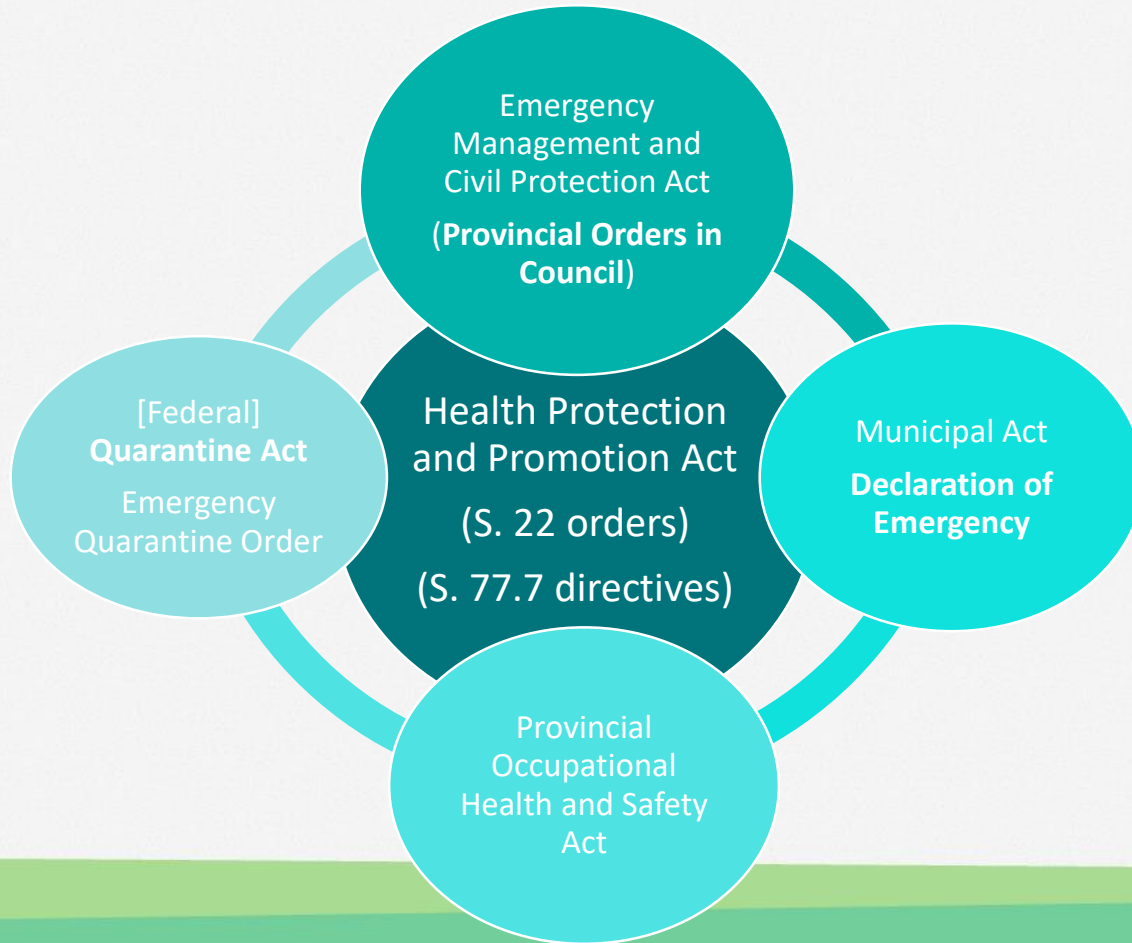


Note: Range depends on implementation of maximum public health measures

Ontario ICU Capacity for COVID-19



The Intersection of Immediate Legal Jurisdiction Exposed During a Pandemic



Provincial Emergency Orders

Emergency status on COVID-19

- **Update on March 31** In an effort to stop the spread of COVID-19 and keep people at home, the Government of Ontario has extended the Declaration of Emergency and [emergency orders](#) to April 13. These orders include the closure of non-essential workplaces and restrictions on social gatherings and events, among others.
 - No gatherings with more than 5 persons
 - Essential businesses
 - Redeployment of staff
 - Disclosures of COVID-19 cases
 - Etc.

Guidance for the Health Sector

- http://www.health.gov.on.ca/en/pro/programs/publichealth/coronavirus/2019_guidance.aspx

Health Sector Resources

- [Guidance for Primary Care Providers in a Community Setting](#)
- [Guidance for Acute Care](#)
- [Guidance for Home and Community Care Providers](#)
- [Outbreak Guidance for Long-Term Care Homes \(LTCH\)](#)
- [Guidance for Long-Term Care Homes](#)
 - [Long-Term Care Homes COVID-19 Screening Checklist](#)
- [Guidance for Paramedic Services](#)
- [Guidance for Independent Health Facilities](#)
- [Community Labs and Specimen Collection Centres](#)
- [Guidance for Community Pharmacies](#)
- [Guidance for Occupational Health and Safety](#)
- [Guidance for Consumption and Treatment Services](#)
- [Quick Reference Public Health Guidance on Testing and Clearance](#)

Health Protection and Promotion Act: Section 77.7 directives

Chief Medical Officer of Health – opinion there exists/may exist a immediate risk to health...

- [Directive #5 for Hospitals within the meaning of the Public Hospitals Act](#) March 31, 2020
- [Directive #4 for Ambulance Services and Paramedics under the Ambulance Act](#) March 30, 2020
- [Directive #3 for Long-Term Care Homes under the Long-Term Care Homes Act, 2007](#) March 30, 2020
- [Directive #2 for Health Care Providers \(Regulated Health Professionals or Persons who operate a Group Practice of Regulated Health Professionals\)](#) March 19, 2020
- [Directive #1 for Health Care Providers and Health Care Entities](#) March 30, 2020

Health Protection and Promotion Act: Section 22 orders (individuals and class)



COVID-19 FACT SHEET

COVID-19 Class Order: April 1, 2020

Under what authority did Toronto Public Health issue a class order related to the COVID-19 outbreak to require persons to self-isolate?

The *Health Protection and Promotion Act* authorizes the Medical Officer of Health to make a class order to address the risks presented by the potential spread of COVID-19 to residents of Toronto.

Why did the Medical Officer of Health issue this class order?

Based on the continuing increase in the number of people contracting COVID-19 in Toronto, and experiences in similar cities around the world, this is a targeted mandatory measure that will strengthen our ability to reduce the loss of life from COVID-19, and preserve and protect the capacity of our health care system to respond and to provide care for those who need it.

While most people who have or may have COVID-19, as well as their close contacts, have been compliant with instructions from public health authorities to self-isolate, there are individuals who do not take these measures seriously enough. This class order is a legal tool to help us ensure that everyone who needs to complies with the direction to self-isolate.

Potential Qs

- Testing? *Yes*

April 8, 2020 testing guidance update

1. Hospital inpatients and residents living in long-term care homes and retirement homes
2. Health care workers/caregivers/care providers/first responders
3. Remote/Isolated/Rural/Indigenous communities
4. Priorities in situations of resource shortages

- Masks? *Maybe*

- Travel? *No*

- How long? *Who knows...*



www.phsd.ca

<https://www.phsd.ca/health-topics-programs/diseases-infections/coronavirus>

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