

BMJ Open Public health measures to reduce the risk of SARS-CoV-2 transmission in Canada during the early days of the COVID-19 pandemic: a scoping review

Julie Polisená ¹, Maria Ospina,² Omolara Sanni,³ Brittany Matenchuk,³ Rachel Livergant,³ Sana Amjad,³ Igor Zoric,³ Nisrine Haddad,⁴ Andra Morrison,⁵ Kumanan Wilson,^{4,6} Isaac Bogoch,⁷ Vivian A Welch^{4,8}

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For numbered affiliations see end of article.

Correspondence to

Dr Julie Polisená;
jpolis22@hotmail.com

ABSTRACT

Objective The main objectives of this study were to synthesise and compare pandemic preparedness strategies issued by the federal and provincial/territorial (P/T) governments in Canada and to assess whether COVID-19 public health (PH) measures were tailored towards priority populations, as defined by relevant social determinants of health.

Methods This scoping review searched federal and P/T websites on daily COVID-19 pandemic preparedness strategies between 30 January and 30 April 2020. The PROGRESS-Plus equity-lens framework was used to define priority populations. All definitions, policies and guidelines of PH strategies implemented by the federal and P/T governments to reduce risk of SARS-CoV-2 transmission were included. PH measures were classified using a modified Public Health Agency of Canada Framework for Canadian Pandemic Influenza Preparedness.

Results A total of 722 COVID-19 PH measures were issued during the study period. Of these, home quarantine (voluntary) (n=13.0%; 94/722) and retail/commerce restrictions (10.9%; n=79/722) were the most common measures introduced. Many of the PH orders, including physical distancing, cancellation of mass gatherings, school closures or retail/commerce restrictions began to be introduced after 11 March 2020. Lifting of some of the PH orders in phases to reopen the economy began in April 2020 (6.5%; n=47/722). The majority (68%, n=491/722) of COVID-19 PH announcements were deemed mandatory, while 32% (n=231/722) were recommendations. Several PH measures (28.0%, n=202/722) targeted a variety of groups at risk of socially produced health inequalities, such as age, religion, occupation and migration status.

Conclusions Most PH measures centred on limiting contact between people who were not from the same household. PH measures were evolutionary in nature, reflecting new evidence that emerged throughout the pandemic. Although ~30% of all implemented COVID-19 PH measures were tailored towards priority groups, there were still unintended consequences on these populations.

INTRODUCTION

In December 2019, a novel coronavirus was first identified among a cluster of

Strengths and limitations of this study

- Our study presents a comprehensive synthesis of the public health (PH) communication and outreach measures the federal and provincial/territorial (P/T) governments issued in the first 90 days of the COVID-19 pandemic.
- The results provide important insights on the categories, volume, timing, level of implementation and consideration of equity issues of the PH measures issued by federal and P/T jurisdiction.
- The timeframe for the study precludes us from identifying possible long-term trends on the PH measures implemented during the 90-day period and their potential impact on priority populations.
- It is possible that PH measures announced only through media releases may have been missed, but most announcements would have been issued by the government press releases.

pneumonia cases in Wuhan City, Hubei Province, China. The virus was named SARS-CoV-2 and represents the causative agent of a potentially fatal infectious disease known as COVID-19.¹ The severity ranges from mild to severe illness or death for confirmed COVID-19 cases.²

On 30 January 2020, the WHO declared the COVID-19 epidemic a global health emergency, and by 11 March 2020 declared COVID-19 a global pandemic. The reproduction numbers (R_0) of the infectious disease were estimated to be between 2.24 and 3.58 in the early phases of the outbreak in mainland China, resulting in the exponential growth and subsequent spread of the virus across the world.³ As of 26 January 2021, the Public Health Agency of Canada (PHAC) reported 757022 confirmed cases and 19403 deaths within Canada, with large variations across jurisdictions.⁴



Canada is a high-income country located in North America with a population of approximately 37.9 million.⁵ The country is divided into 10 provinces and 3 territories. In Canada, the federal government is responsible for administering the national principles under the *Canada Health Act*, which are criteria and conditions for health insurance plans that the provinces and territories must meet so they can receive federal cash transfers. The Canadian government provides financial support to provincial and territorial (P/T) governments to aid in the delivery of programmes and services, including healthcare. The provinces and territories therefore administer and deliver most of Canada's healthcare services within their jurisdiction. Healthcare decision-making and priority settings in the healthcare system are decentralised and occur at various levels, including regional and local.

In response to the COVID-19 pandemic, Canadian public health (PH) officials at all levels of administration issued response interventions to contain and mitigate SARS-CoV-2 transmission at a population level and prepare the health systems' response to the infectious disease. The definitions and scope of these PH measures vary by federal and P/T governments in their characteristics, target populations, time of initiation in the pandemic curve and duration of implementation since they may change over time in response to the dynamics in the epidemic curve.⁶ Different strategies, however, may be warranted in response to growth curves or other triggers.

The pandemic situation unveiled persisting health inequalities rooted in multiple, structural and intersecting determinants of the conditions in which people live—particularly increasing the vulnerability of the most socially and economically disadvantaged groups.⁷⁻⁹ As the COVID-19 pandemic continues to unfold, it is important to understand which measures work under specific circumstances. We must also expand our knowledge about the potential impact of these population-level mitigation and containment strategies on priority populations rooted in well-known social, economic and structural determinants of health. Racism and discrimination, income, education, occupation, gender and others are such determinants.¹⁰ Results from this work can help to

inform equitable, effective and coordinated responses to future pandemics across Canada and in other jurisdictions in the design and planning of strategies to mitigate negative impacts and maximise positive impacts of PH measures.

Our study objectives were twofold: (1) to identify and systematically describe and compare the PH pandemic preparedness strategies for COVID-19 issued by the Canadian federal and P/T governments; and (2) to assess whether COVID-19 PH measures were tailored towards priority populations, as defined by relevant social determinants of health in Canada.

METHODS

Search strategy and eligibility criteria

We conducted a scoping review of COVID-19 PH measures adopted across Canadian provinces and territories.¹¹ The search strategy consisted of daily hand searching of information on COVID-19 PH preparedness strategies released on federal and P/T websites on a daily basis between 30 January and 30 April 2020 (online supplemental file 1). For our study, electronic searches of the scientific literature were not conducted. The selection criteria of evidence included definitions, policies and guidelines of PH strategies implemented by the federal and P/T governments to reduce the risk of SARS-CoV-2 transmission and prepare the communities for the COVID-19 pandemic. PH measures issued at the regional or municipal level were not included. Federal and P/T financial plans to individuals, families or businesses during the COVID-19 pandemic were also excluded. Additional details on eligibility criteria are outlined in [table 1](#).

Data abstraction and synthesis of results

We used the PHAC framework for Canadian Pandemic Influenza Preparedness to classify all PH measures identified in the search strategy.¹² We also incorporated additional measures not included in the PHAC framework, such as contact tracing and testing. COVID-19 PH measures were characterised by level of implementation

Table 1 Eligibility criteria

Criterion	Description
Population	▶ General population in Canada, including paediatrics and adults.
Intervention	▶ Recommendations, policy, guidance, guiding principles or guidelines that describe PH measures to contain and/or mitigate the risk of transmission of COVID-19 in Canada. PH measures were categorised according to the PHAC framework for Canadian Pandemic Influenza Preparedness measures. ¹² ▶ Examples of PH measures may include social or physical distancing measures; self-isolation; quarantines; school, university or daycare closures; working from home; limited visitation hours in healthcare or long-term facilities; or travel restrictions and bans.
Setting(s)	▶ All Canadian provinces and territories.
Timing	▶ Documentation of PH measures implemented between 30 January 2020 and 30 April 2020.

PH, public health; PHAC, Public Health Agency of Canada.

(ie, mandatory or recommended), timing (ie, date) of implementation and target populations.

Priority populations in this scoping review were defined as population groups at risk of socially produced health inequities.¹³ We used the PROGRESS-Plus equity-lens framework to classify these populations according to the following social determinants of health: place of residence; race/ethnicity/culture/language (including Indigenous identities); occupation/employment/working conditions; gender and sex; religion background; education; socioeconomic status (eg, income, housing, single-parent family, food and home security); and social capital and networks (eg, neighbourhood characteristics, community supports). The Plus refers to other characteristics potentially associated with discrimination: age groups, immigration status and disability.¹³

One reviewer extracted data from press releases on the government websites for their assigned jurisdiction(s), and a second reviewer checked for the accuracy of the extracted data. As well, a reviewer compared our data with the results of the COVID-19 Intervention Scan conducted by the Canadian Institutes for Health Information (CIHI) to verify that no PH measures were omitted.¹⁴ Online supplemental file 2 lists the individual data elements that were extracted for all COVID-19 PH measures issued across Canadian jurisdictions between 30 January and 30 April 2020.

PH measures were classified according to two major categories: PH communication and education (eg, communication campaigns to maintain social distancing) and PH orders (eg, prohibition on mass gatherings in excess of 50 people). Similarly, COVID-19 PH measures were described by their time of publication and target audience. Information about COVID-19 PH measures and priority populations identified in the scoping review were narratively synthesised and tabulated.

Ethics approval

As the information used in our scoping review was derived from public data sources, a formal ethics approval was not required.

Role of the funding source

The study sponsor(s) did not have any involvement in study design, data collection, analysis, interpretation of data, writing of the report or in the decision to submit the paper for publication.

Patient and public involvement

As our study used secondary data sources, patients and the public were not involved in our scoping review.

RESULTS

The scoping review identified a total of 722 PH measures issued by federal and P/T governments between 30 January and 30 April 2020.

Public health communication and education

All federal and P/T jurisdictions (n=14) issued individual PH measures (20.6% of all measures) between 30 January and 30 April with respect to home quarantine (voluntary) (n=14/14), followed by self-isolation (voluntary) (n=13/14) (table 2). These measures targeted individuals who experienced COVID-19 symptoms or had returned from domestic or international travel. Fewer jurisdictions communicated measures specific to, or solely focused on, environmental cleaning (home/personal environment) (n=3/14) or respiratory etiquette (7/14). Home quarantine (voluntary) (n=13.0%; 94/722) was the most common PH measure issued by the federal and P/T governments that targeted COVID-19 spread at the individual level.

Public health orders

PH orders on physical distancing measures (n=13/14), border and travel measures (n=13/14), healthcare settings (n=13/14), and childcare or school closures (n=13/14) were common across jurisdictions. Announcements related to environmental cleaning (public spaces) (n=12/14), assisted living facilities (eg, group homes, private and public long-term care facilities, private and public senior residences, shelters) (n=12/14), cancellations of mass gatherings (n=12/14), and case contact or tracing management measures (n=12/14) were also relatively common. Fewer jurisdictions explicitly addressed community/faith-based organisations (eg, restrictions or cancellations) (n=8/14) or workplace functioning (eg, workspace restrictions, remote work) (n=9/14). Manitoba and the Yukon were the sole jurisdictions to release a PH measure related to remote and isolated communities. Many mandatory PH measures announced by the federal government centred on international border and travel restrictions given their authority to issue them. The most common PH orders issued across Canada centred on retail/commerce restrictions (10.9%; n=79/722), closely followed by border and travel measures, including both international and interprovincial travel (10.8%; n=78/722).

Time of publication

Several jurisdictions made communication and education announcements in late January on individual measures. For instance, Quebec issued a PH measure on hand hygiene respiratory etiquette on 30 January 2020. Most PH communication and education measures on hand hygiene, voluntary self-isolation and voluntary home quarantine were issued in March 2020 across numerous jurisdictions (table 2). Communication on the use of masks was initiated in April 2020 across the P/T jurisdictions.

Many of the PH orders, such as physical distancing, cancellation of mass gatherings, school closures and retail/commerce restrictions, were introduced after 11 March 2020. Lifting of some of the PH orders in phases to reopen the economy began in April 2020 (6.5%; n=47/722).



Table 2 Announcement dates of public health measures by jurisdiction

Public health measure	Federal	BC	AB	SK	MB	ON	QC	NS	NB	PEI	NL	YK	NWT	NU
Public health communication and education														
Hand hygiene	9 April	31 January	17 March				30 January		5 March	28 February		27 March	5 February	4 March
Respiratory etiquette	9 April	31 January				30 January		5 March	5 March			30 March	5 February	4 March
Environmental cleaning (home/personal environment)		29 February			2 April									11 March
Voluntary self-isolation	16 March	31 January	18 March	20 March	16 March	7 February	7 February	19 March	5 March	28 February	22 March	27 March	5 February	18 March
Voluntary home quarantine	16 March	31 January	18 March	20 March	16 March	30 March	7 February	22 March	5 March	28 February	22 March	27 March	5 February	18 March
Use of masks	18 March		28 March	17 April	21 April		7 April		1 April	6 April		6 April	27 April	29 April
Public health orders														
Environmental cleaning (public spaces)	18 March	24 March	13 March	23 April	20 April	15 March			13 March	17 March	13 March	1 April	10 April	13 March
Physical distancing measures		3 March	20 March	19 March	20 March	18 March	15 March	22 March	12 March	13 March	19 March	27 March	16 March	4 March
School closures		17 March	15 March	17 March	20 April	12 March	13 March	30 March	13 March	27 March	27 March	2 April	16 March	16 March
University closures			30 April			13 March	13 March	19 March	19 March					
Childcare closures			15 March	23 March	14 April		27 April	28 April	13 March	15 March	16 March	6 April	24 April	16 March
Cancellation of mass gatherings		3 March	12 March	17 March		13 March	11 March	17 March	12 March	9 April	28 March	3 April	10 April	13 March
Assisted living facilities	12 April	11 March	15 March	17 March	16 March	16 March	12 March	27 March	9 March	15 March	23 March		16 March	
Workplace (remote work)		29 February	20 March			21 March	13 March		16 March	16 March	10 March		14 March	16 March
Healthcare settings	18 March	16 March	18 March	23 March	16 March	15 March	14 March	18 March	11 March	15 March	12 March	27 March	16 March	
Community/faith-based organisations		7 March	15 March	19 March	20 March	23 April	16 March		12 March		24 March			
Retail/commerce restrictions		16 March	17 March	19 March	20 March	17 March	13 March	13 March	16 March	17 March	13 March	3 April	10 April	
Remote and isolated communities														
Border and travel measures	3 February	3 February	12 March	24 April	16 March		11 March	4 March	18 March	10 March	6 March	1 April	16 March	4 March
Case and contact or tracing management measures	9 February	3 February	12 April		17 April	11 March		5 April	15 March	23 April	22 March	6 April	14 March	30 April
Justice services			16 March		16 March	13 March		14 March	13 March		16 March		22 April	
Government services		7 April	17 March		19 March	17 March	17 March	17 March	17 March	17 March	15 March	30 March		30 March
Social services			21 March	23 March	10 April	23 April	15 March		18 March	24 March	23 March	22 April		19 March

AB, Alberta; BC, British Columbia; LTC, long-term care; MB, Manitoba; NB, New Brunswick; NL, Newfoundland and Labrador; NS, Nova Scotia; NU, Nunavut; NWT, Northwest Territories; ON, Ontario; PEI, Prince Edward Island; QC, Quebec; SK, Saskatchewan; YU, Yukon.

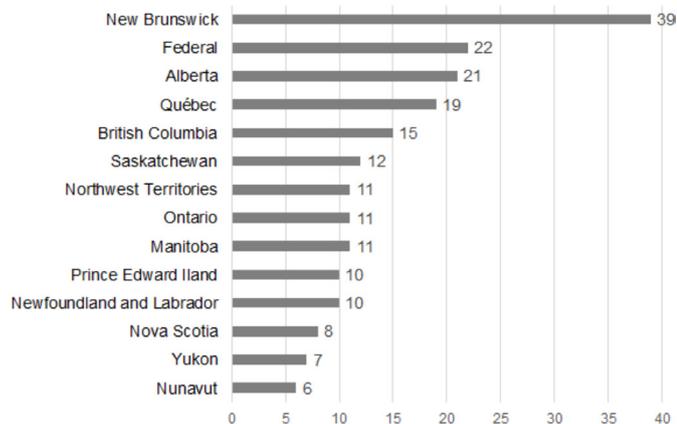


Figure 1 Individual public health measures that scoped priority populations across jurisdictions: number of public health measures issued that target priority populations.

Level of intervention

Based on the language used in the press releases, 68% (n=491) of the COVID-19 PH announcements were deemed as mandatory, while 32% (n=231) were recommendations. Although many of the measures classified as PH communication and education were determined to be recommendations by governments, measures related to voluntary self-isolation and home quarantine were primarily mandatory (online supplemental file 3).

The majority of PH orders that focused on cancellation of mass gatherings, school closures and assisted living facilities were mandatory. While numerous border and travel measures and retail/commerce restrictions were considered mandatory, several related measures were recommendations.

Target population

The general public was the target for 68% (n=490/722) of the issued COVID-19 PH measures. Other targets included children aged <17 years (8.4%, n=61/722), healthcare provider groups (7.1%, n=51/722), individuals aged >65 years (5.0%, n=35/722) and those with physical disabilities (4.4%, n=32/722) and mental health problems (1.1%, n=8/722).

Public health measures tailored towards priority populations

Of the 722 PH measures identified in the scoping review, 28.0% (n=202/722) were tailored to priority populations. **Figure 1** shows the distribution of PH measures that scoped priority populations across jurisdictions. The PH measures targeted a variety of groups defined by major social determinants of health (**figure 2**). Of all 722 PH measures, 13.4% (n=97/722) were tailored to groups defined by age, while COVID-19 PH measures were less frequently tailored towards groups based on occupation (5.7%, n=41/722) or migration status (3.7%, n=27/722). Other priority groups less frequently targeted included those defined by income and home security conditions (1.5%, n=11/722); religious background (1.4%, n=10/722); race, ethnicity and/or language groups (1.0%, n=7/722), including Indigenous populations

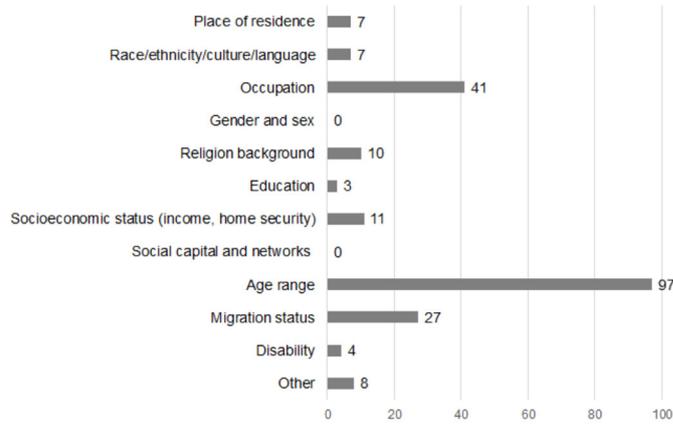


Figure 2 Priority populations target by COVID-19 public health measures in Canada: number of public health measures issued for each priority population identified.

(0.7%, n=5/722); and individuals with disabilities (0.5%, n=4/722). Other COVID-19 PH measures targeted ‘vulnerable’ populations that were not further defined (1.1%, n=8/722). None of the measures targeted populations defined by sex and gender.

DISCUSSION

Our scoping review is a descriptive study, so a quantitative assessment of the impact of PH measures was outside the scope. Furthermore, our objective was to identify, describe, classify and compare the experiences in implementing PH measures at the national and P/T levels during the early stages of the pandemic. The results present a comprehensive synthesis of the PH communication, outreach activities and PH orders in Canada by jurisdiction. They also provide insights on the categories, volume, timing, level of implementation and consideration in equity issues of the PH measures issued by the federal and P/T governments.

This scoping review identified a total of 722 PH measures that were implemented by federal and P/T governments across Canada during the first 90 days of the COVID-19 pandemic. These measures were implemented to slow the growth rate of infections and to reduce the risk of an overburdened healthcare system.¹⁵ The study results showed that many of the measures focused on home quarantine (voluntary) and retail/commerce restrictions, targeted towards the general public.

From an equity-based perspective, approximately one-third of all COVID-19 PH measures implemented in federal and P/T jurisdictions were specifically tailored towards priority groups as defined by the social determinants of health.^{16,17} None of the PH measures specifically targeted sex and gender (**figure 2**), but some of the PH measures in place, such as school closures, disproportionately affected women both at home and in the workplace.¹⁸ Although social capital and networks impact the spread of COVID-19, our review did not identify any PH measures issued in the early days of the pandemic that

targeted this domain.¹⁹ Other PH measures focused on restrictions of large gatherings for targeted groups or in specific locations. For instance, PH measures targeting religious groups centred on prohibiting large gatherings through closures of places of worship or cancellations of religious festivities.

Similar to our scoping review, the results of a descriptive study on non-pharmaceutical interventions (NPIs) implemented in Canada reported that jurisdictions issued many of their PH measures after 11 March 2020.⁶ This date coincides with the WHO's pandemic declaration. The authors also observed some consistency with Europe and Asia in the order of NPI implementation, and less variation across Canada in the implementation of NPIs compared with the USA.⁶

As new evidence on preventive measures emerged for this novel coronavirus, recommendations on the use of face masks were revised from limiting their use to front-line healthcare worker, symptomatic individuals and caregivers to include the general public.²⁰ This observation is evident in [table 2](#), where initial communication on face mask use began in April in many jurisdictions. Our findings indicate that geography also influenced the timing of the introduction of the PH measures. As the first outbreak of COVID-19 was reported in China, British Columbia, which borders the Pacific Ocean, issued measures that restricted large gatherings or travel in early February or March. British Columbia was the first province to introduce contact tracing measures on 3 March, while the other Canadian jurisdictions issued similar measures later in March or as late as 30 April. In addition, the data support the idea that the virus is highly contagious and thrives on close interactions in enclosed spaces where physical distancing is not feasible. As such, PH orders that influenced human behaviours outside the individual's personal environment were issued mostly in March across Canada, and thus, targeted lowering risk of exposure. Finally, the timing of the PH measures plays an important role in curbing the spread of the virus. For instance, questions have been raised as to whether Canada could have acted sooner in closing its international borders to non-essential travel. This delay may have resulted in missed opportunities to curb viral spread during the earlier days of the pandemic.²¹

Obtaining real-time epidemiological data about the number of individuals who have the disease, and their demographic and clinical characteristics, including age, sex, ethnicity and comorbidities remains a priority. To help address this gap, CIHI proposed an interim ethnicity-based data collection standard to help harmonise and facilitate quality data collection.²² In contrast to uniform PH measures, this data system can provide insights on necessary measures customised to incorporate social and economic inequities among priority populations, helping to effectively lower their risk of infection and disease severity.²³ Moreover, this data system can help inform ineffective measures in mitigating or containing the novel coronavirus, in order to revise future policies

accordingly.²⁴ This approach is particularly crucial in light of the growing body of evidence on how lockdown measures and the closing of essential businesses have disproportionately affected low income and other vulnerable groups.²⁵

PH communication and education (eg, physical distancing, hand hygiene and use of masks) as well as other augmented PH orders (ie, case and contact management or tracing management) that were in place in the early stages of the pandemic to slow the virus transmission must continue to be part of the strategy to lifting restrictions (eg, reopening of businesses and restaurants). Some improvements in testing and contact tracing were observed, as well as increased availability of personal protective equipment in Canada since the beginning of the pandemic.²⁶ In addition to self-isolation and support, increased testing capacity and faster turnaround times of test results coupled with sufficient resources for efficient and timely contact tracing are necessary to closely monitor the virus transmission and take appropriate actions to contain the spread.²⁷ Although outbreaks will continue to occur, they need not necessarily lead to full lockdown measures, such as those issued in March 2020.²⁶ Overall, the adherence and investment in the fundamental pillars of epidemic response are essential to keeping COVID-19 at bay.²⁷

Inequalities are a long-standing challenge that have been documented during the current COVID-19 pandemic and other health crises in the past.^{28 29} An increasing body of evidence is emerging in relation to the unequal impacts of the COVID-19 pandemic on infection and mortality rates towards priority groups defined by social determinants of health.^{8 9} While the role of social inequalities in the dynamics of the COVID-19 pandemic remains to be elucidated, future PH measures should explicitly and consistently adopt an equity-lens to promote intersectional and multifaceted strategies for pandemic preparedness and response actions that prioritise the needs of vulnerable groups.

Limitations

Our study timeframe precludes us from identifying possible long-term trends on the PH measures implemented during the 90-day period and their potential impact on priority populations. It is possible that PH measures announced only through the media may have been missed in our study. Most announcements, however, would have been issued by the government press releases. As the majority of the identified PH measures issued by the federal or P/T governments did not seem to target priority populations, the authors acknowledge that PH orders at the regional or municipal levels may have addressed these gaps. The authors also recognise that PH measures issued at the municipal level are important contributions to contain and mitigate COVID-19 transmission since they have the ability to police social distancing or bans of mass gatherings and mobilise community centres for quarantine orders and homeless populations.

The volume of measures collectively provided by the municipalities, however, precluded us from collecting data and gathering information at the local level in the specified timeframe. Moreover, our scoping review did not assess enforcement measures, strategies to adhere to the mandatory PH orders, or if sick leave benefits for stay-at-home orders among individuals in quarantine that were in place in the early stages of the pandemic; thus, further investigation is merited.

Directions for future research

The results of our scoping review can be used to compare Canada's initial response to the pandemic with the PH measures issued in other countries during the same period. Due to the novelty of the virus, data continue to be collected and verified. A better understanding of the transmission dynamics is important for the planning, development and evaluation of effective control policies.³⁰ As such, a comparative analysis on the evolution of the COVID-19 PH orders within Canada compared with other countries as the pandemic progresses is warranted. Once the data on the number of hospitalisations, admissions to the intensive care unit and mortality rates become available for research purposes, an investigation on epidemiological indicators of COVID-19 before and after the implementation of PH measures by jurisdiction would complement the findings in our study. A focus on intended and unintended consequences for priority populations of these PH measures over a longer period merits additional research. For instance, school closures and work from home measures were intended to help reduce the spread of the virus, but these prolonged measures have also resulted in social isolation and increased mental health morbidities in households.

CONCLUSIONS

In the absence of an effective treatment or vaccine for SARS-CoV-2 during the early phase of the pandemic, the federal and P/T governments relied on the introduction of PH measures to mitigate the adverse effects of COVID-19. Our findings indicate that PH measures were influenced, in part, by the availability of the evolving evidence, geographical location of the jurisdiction and the aim to modify human behaviours outside an individual's personal environment. While most PH measures centred on limiting contact between people who are not living in the same household, they were also reflective of new evidence on preventive measures emerging in the earlier phase of the pandemic—as highlighted by direction on mask use. Although nearly one-third of all implemented COVID-19 PH measures were tailored towards priority groups, none were specific to sex and gender or social capital and networks. However, several of the PH measures issued would have resulted in unintended consequences for these populations, such as deterioration in mental health. While the role of social inequalities in the COVID-19 pandemic remains to be elucidated,

future PH measures should adopt an equity-lens as data continues to be collected that prioritises the needs of priority populations.

Author affiliations

¹Health Technology Assessment Division, International Federation for Medical and Biological Engineering, Ottawa, Ontario, Canada

²Faculty of Medicine & Dentistry, University of Alberta, Edmonton, Alberta, Canada

³School of Public Health, University of Alberta, Edmonton, Alberta, Canada

⁴School of Epidemiology and Public Health, University of Ottawa, Ottawa, Ontario, Canada

⁵Canadian Agency for Drugs and Technologies in Health, Ottawa, Ontario, Canada

⁶Clinical Epidemiology Program, Ottawa Hospital Research Institute, Ottawa, Ontario, Canada

⁷Divisions of General Internal Medicine and Infectious Diseases and Department of Medicine, University Health Network, Toronto, Ontario, Canada

⁸Centre for Global Health, Bruyere Research Institute, Ottawa, Ontario, Canada

Twitter Maria Ospina @MariaBOspina

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ORCID iD

Julie Polisena <http://orcid.org/0000-0002-1560-3651>

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SUPPLEMENTAL FILE 1: DATA AND INFORMATION SOURCES BY JURISDICTION

Jurisdiction/Organization	Website
Federal	https://www.canada.ca/en/public-health/services/diseases/2019-novel-coronavirus-infection/canadas-reponse.html
British Columbia	https://news.gov.bc.ca/
Alberta	https://www.alberta.ca/announcements.cfm
Saskatchewan	https://www.saskatchewan.ca/government/news-and-media
Manitoba	https://news.gov.mb.ca/news/index.html
Ontario	https://news.ontario.ca/archive/en
Quebec	http://www.fil-information.gouv.qc.ca/Pages/RechercheAvancee.aspx?idMenuItem=8&lang=en
New Brunswick	https://www2.gnb.ca/content/gnb/en/news/recent_news.html
Nova Scotia	https://novascotia.ca/news/
Prince Edward Island	https://www.princeedwardisland.ca/en/news
Newfoundland & Labrador	https://www.gov.nl.ca/releases/
Nunavut	https://www.gov.nu.ca/news
Northwest Territories	https://www.gov.nt.ca/newsroom
Yukon Territory	https://yukon.ca/news

SUPPLEMENTAL FILE 2: DATA ELEMENTS EXTRACTED ON PUBLIC HEALTH MEASURES ISSUED BY FEDERAL AND PROVINCIAL/TERRITORIES GOVERNMENTS

Data Elements	Description
Name of jurisdiction	Federal (including populations covered under the federal jurisdiction: Indigenous People of Canada, federal offenders, the Canadian Armed Forces, veterans, and refugees) British Columbia Alberta Saskatchewan Manitoba Ontario Quebec Nova Scotia New Brunswick Prince Edward Island Newfoundland and Labrador Yukon Northwest Territories Nunavut
Description of each PH measure issued by provinces/territories	Narrative description
Category of PH measure (<i>available in dropdown list</i>) (PHAC categories)	Individual measures - Hand hygiene - Respiratory etiquette - Environmental cleaning (home/personal environment) - Voluntary self-isolation and home quarantine - Use of masks Community measures - Environmental cleaning (public spaces) - Physical distancing measures - School closures - University closures - Childcare closures - Cancellation of mass gatherings - Assisted living facilities - Workplace (remote work) - Health care settings - Community/Faith-based organizations - Retail/commerce restrictions - Remote and isolated communities - Border and travel measures

Data Elements	Description
	<ul style="list-style-type: none"> - Case and contact or tracing management measures - Justice services - Government services - Social services
Date(s) of PH measure announcement	Day and month
Level of implementation	Mandatory (Yes/No), Recommended (Yes/No), Unclear (Yes/No)
Target population	<ul style="list-style-type: none"> General public (Yes/No) Physicians/health care workers (Yes/No) Adults (17-65 years old) (Yes/No) Children (17 years and under) (Yes/No) Elderly (Seniors, >65 years old) (Yes/No) Pregnant women (Yes/No) Chronic disease populations (Yes/No) Other (Specify)
Socially disadvantaged population targeted by the PH measure	Yes/No
If yes, check whether any of the following (dropdown list):	<ul style="list-style-type: none"> - Place of residence (i.e., urban, rural) - Race/ethnicity/culture/language - Occupation - Gender and sexual orientation - Religion background - Education - Socioeconomic status (including income, housing, single-parent family, food security) - Social capital and networks (e.g., married or common-law partner, neighbourhood characteristics, community supports) - Age (range) - Migration status - Disability <p>**long term care home/retirement residence **prisons **cruise ship **Indigenous communities</p>

P/T=Provincial/territorial

SUPPLEMENTAL FILE 3: SUMMARY OF PUBLIC HEALTH MEASURES BY JURISDICTION

Province/ Territory	Category of related public health measures (n)	Date of initial public health measurement announcement	Level of implementation (n)	Target Population (n)
Federal	PUBLIC COMMUNICATION AND EDUCATION			
	Hand hygiene (1)	April 9	Recommended (1)	General public (1)
	Respiratory etiquette (1)	April 9	Recommended (1)	General public (1)
	Voluntary self-isolation (4)	March 16	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (3) 	General public (4)
	Voluntary home quarantine (4)	March 16	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (3) 	General public (4)
	Use of masks (4)	March 18	Recommended (4)	General public (4)
	PUBLIC HEALTH ORDERS			
	Environmental cleaning (public spaces) (1)	March 18	Mandatory (1)	General public (1)
	Assisted living facilities (1)	April 12	Recommended (1)	Seniors (>65 years old) (1)
	Health care settings (2)	March 18	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (1) 	Physicians and health care workers (2)
	Government services (1)	April 7	Mandatory (1)	Indigenous peoples (1)
	Border and travel measures (21)	February 3	Mandatory (21)	General public (21)
	Case and contact management measures (1)	February 9	Mandatory (1)	General public (1)
BC	PUBLIC COMMUNICATION AND EDUCATION			
	Hand hygiene (5)	January 31	<ul style="list-style-type: none"> • Mandatory (4) • Recommended (1) 	<ul style="list-style-type: none"> • General public (3) • Adults (17 to 65 years old) (1) • Children (17 years old and under) (1)
	Respiratory etiquette (3)	January 31	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (2) 	<ul style="list-style-type: none"> • General public (2) • Children (17 years old and under) (1)
	Environment cleaning of individual spaces (3)	February 29	Recommended (3)	<ul style="list-style-type: none"> • General public (1) • Adults (17 to 65 years old) (2)
	Voluntary self-isolation (9)	January 31	<ul style="list-style-type: none"> • Mandatory (3) • Recommended (6) 	<ul style="list-style-type: none"> • General public (8) • Adults (17 to 65 years old) (1)
	Voluntary home quarantine (9)	January 31	<ul style="list-style-type: none"> • Mandatory (3) 	<ul style="list-style-type: none"> • General public (8)

Province/ Territory	Category of related public health measures (n)	Date of initial public health measurement announcement	Level of implementation (n)	Target Population (n)
			• Recommended (6)	• Adults (17 to 65 years old) (1)
	PUBLIC HEALTH ORDERS			
	Environmental cleaning of public spaces (2)	March 24	• Mandatory (1) • Recommended (1)	General public, including Indigenous peoples (2)
	Physical distancing measures (9)	March 3	• Mandatory (3) • Recommended (6)	General public (9)
	School closures (1)	March 17	Mandatory (1)	Children (<17 years old) (1)
	Cancellation of mass gatherings (5)	March 3	• Mandatory (3) • Recommended (2)	• General public (4) • Adults (17 to 65 years old) (1)
	Assisted living facilities (2)	March 11	• Mandatory (1) • Recommended (1)	Seniors (>65 years old) (2)
	Workplace (remote work) (2)	February 29	Recommended (2)	Adults (17 to 65 years old) (2)
	Health care settings (3)	March 16	• Mandatory (1) • Recommended (2)	• Physicians and healthcare workers (1) • Physical illness/chronic populations (2)
	Community/faith-based organizations (1)	March 7	Recommended (1)	General public (1)
	Retail and commerce restrictions (6)	March 16	• Mandatory (4) • Recommended (2)	• General public (4) • Adults (17 to 65 years old) (2)
	Border and travel measures (4)	February 3	Recommended (4)	General public (4)
	Case and contact management measures (6)	February 3	• Mandatory (4) • Recommended (2)	• General public (5) • Adults (17 to 65 years old) (1)
AB	PUBLIC COMMUNICATION AND EDUCATION			
	Hand hygiene (1)	March 17	Mandatory (1)	General public (1)
	Voluntary self-isolation (10)	March 18	• Mandatory (3) • Recommended (7)	• General public (8) • Children (<17 years old) (1) • Seniors (>65 years old) (1)
	Voluntary home quarantine (9)	March 18	• Mandatory (2) • Recommended (7)	General public (9)
	Use of masks (6)	March 28	• Mandatory (2) • Recommended (4)	• General public (1) • Physicians and health care workers (4) • Seniors (>65 years old) (1)

Province/ Territory	Category of related public health measures (n)	Date of initial public health measurement announcement	Level of implementation (n)	Target Population (n)
	PUBLIC HEALTH ORDERS			
	Environmental cleaning (public spaces) (9)	March 13	<ul style="list-style-type: none"> • Mandatory (8) • Recommended (1) 	General public (9)
	Physical distancing (4)	March 20	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (3) 	<ul style="list-style-type: none"> • General public (3) • Seniors (>65 years old) (1)
	School closures (2)	March 15	Mandatory (2)	Children (<17 years old) (2)
	University closures (1)	April 30	Recommended (1)	Adults (17 to 65 years old) (1)
	Childcare closures (3)	March 15	Mandatory (3)	Children (<17 years old) (3)
	Cancellation of mass gatherings (5)	March 12	Mandatory (5)	General public (5)
	Assisted living facilities (10)	March 15	<ul style="list-style-type: none"> • Mandatory (6) • Recommended (4) 	<ul style="list-style-type: none"> • Children (<17 years old) (1) • Seniors (>65 years old) (6) • Physical illness/chronic disease populations (2) • Population with mental health illness (1)
	Workplace (remote work) (1)	March 20	Mandatory (1)	Adults (17 to 65 years old) (1)
	Health care settings (13)	March 18	<ul style="list-style-type: none"> • Mandatory (11) • Recommended (2) 	<ul style="list-style-type: none"> • General public (4) • Physicians and health care workers (2) • Children (<17 years old) (1) • Seniors (>65 years old) (2) • Physical illness/chronic populations (4)
	Community/faith organizations (1)	March 15	Mandatory (1)	General public (1)
	Retail/commerce restrictions (6)	March 17	Mandatory (6)	<ul style="list-style-type: none"> • General public (3) • Adults (17 to 65 years old) (3)
	Border and travel measures (3)	March 12	Mandatory (3)	General public (3)
	Case and contact management measures (1)	April 12	Mandatory (1)	General public (1)
	Justice services (3)	March 16	Mandatory (3)	<ul style="list-style-type: none"> • General public (2) • Inmates (1)
	Government services (6)	March 17	Mandatory (6)	<ul style="list-style-type: none"> • General public (5) • Seniors (>65 years old) (1)

Province/ Territory	Category of related public health measures (n)	Date of initial public health measurement announcement	Level of implementation (n)	Target Population (n)
	Social services (1)	March 21	Mandatory (1)	Homeless population (1)
SK	PUBLIC COMMUNICATION AND EDUCATION			
	Voluntary self-isolation (5)	March 20	Mandatory (5)	General public (5)
	Voluntary home quarantine (5)	March 20	Mandatory (5)	General public (5)
	Use of masks (1)	April 17	Mandatory (1)	Physicians and health care workers (1)
	PUBLIC HEALTH ORDERS			
	Environmental cleaning (public spaces) (6)	April 23	Mandatory (6)	General public (6)
	Physical distancing measures (5)	March 19	<ul style="list-style-type: none"> • Mandatory (3) • Recommended (2) 	<ul style="list-style-type: none"> • General public (3) • Physicians and healthcare workers (1) • Adults (17 to 65 years old) (1)
	School closures (2)	March 17	Mandatory (2)	Children (<17 years old) (2)
	Childcare closures (3)	March 23	Mandatory (3)	Children (<17 years old) (3)
	Cancellation of mass gatherings (6)	March 17	Mandatory (6)	General public (6)
	Assisted living facilities (2)	March 17	Mandatory (2)	<ul style="list-style-type: none"> • General public (1) • Seniors (>65 years old) (1)
	Healthcare settings (6)	March 23	<ul style="list-style-type: none"> • Mandatory (5) • Recommended (1) 	<ul style="list-style-type: none"> • General public (5) • Physicians and healthcare workers (1)
	Community/faith-based organizations (1)	March 19	Mandatory (1)	General public (1)
	Retail/commerce restrictions (7)	March 19	<ul style="list-style-type: none"> • Mandatory (6) • Recommended (1) 	General public (7)
	Border and travel measures (2)	April 24	Mandatory (2)	Indigenous peoples (2)
Social services (1)	March 23	Mandatory (1)	General public (1)	
MB	PUBLIC COMMUNICATION AND EDUCATION			
	Voluntary self-isolation (3)	March 16	Mandatory (3)	<ul style="list-style-type: none"> • General public (1) • Physicians and health care workers (2)
	Voluntary home quarantine (2)	March 16	Mandatory (3)	<ul style="list-style-type: none"> • General public (1) • Physicians and health care workers (2)
	Use of masks (1)	April 21	Recommended (1)	General public (1)

Province/ Territory	Category of related public health measures (n)	Date of initial public health measurement announcement	Level of implementation (n)	Target Population (n)
	PUBLIC HEALTH ORDERS			
	Environmental cleaning (public spaces) (2)	April 20	Mandatory (2)	General public (2)
	Physical distancing (8)	March 20	<ul style="list-style-type: none"> • Mandatory (4) • Recommended (4) 	<ul style="list-style-type: none"> • General public (7) • Adults (17 to 65 years) (1)
	School closures (1)	April 20	Mandatory (1)	Children (<17 years old) (1)
	Childcare closures (1)	April 14	Recommended (1)	Children (<17 years old) (1)
	Assisted living facilities (2)	March 16	Mandatory (2)	Physical illness/chronic disease populations (2)
	Health care settings (5)	March 16	<ul style="list-style-type: none"> • Mandatory (3) • Recommended (2) 	<ul style="list-style-type: none"> • Physicians and healthcare workers (3) • Physical illness/chronic disease populations (2)
	Community/faith-based organizations (1)	March 20	Mandatory (1)	General public (1)
	Retail/commerce restrictions (10)	March 20	<ul style="list-style-type: none"> • Mandatory (8) • Recommended (2) 	<ul style="list-style-type: none"> • General public (9) • Adults (17 and 65 years old) (1)
	Remote and isolated communities (1)	April 17	Mandatory (1)	General public (1)
	Border and travel measures (3)	March 16	<ul style="list-style-type: none"> • Mandatory (2) • Recommended (1) 	General public (3)
	Case and contact management (6)	April 17	Recommended (6)	General public (6)
	Justice services (3)	March 16	Mandatory (3)	<ul style="list-style-type: none"> • General public (1) • Inmates (2)
	Social services (1)	April 10	Recommended (1)	Homeless population (1)
ON	PUBLIC COMMUNICATION AND EDUCATION			
	Voluntary home quarantine (1)	March 30	Recommended (1)	General public (1)
	Environmental cleaning (home/personal environment) (1)	April 2	Mandatory (1)	General public (1)
	PUBLIC HEALTH ORDERS			
	Environmental cleaning (public spaces) (5)	March 15	Mandatory (5)	General public (5)
	Physical distancing (3)	March 18	<ul style="list-style-type: none"> • Mandatory (2) 	General public (3)

Province/ Territory	Category of related public health measures (n)	Date of initial public health measurement announcement	Level of implementation (n)	Target Population (n)
			• Recommended (1)	
	School closures (4)	March 12	Mandatory (4)	Children (<17 years old) (4)
	University closures (1)	March 13	Mandatory (1)	Adults (17 to 65 years old) (1)
	Cancellation of mass gatherings (4)	March 13	Mandatory (4)	General public (4)
	Assisted living facilities (7)	March 16	Mandatory (7)	<ul style="list-style-type: none"> • General public (1) • Physicians and healthcare workers (5) • Vulnerable populations (1)
	Workplace (remote work) (3)	March 21	Mandatory (3)	Adults (17 to 65 years old) (3)
	Health care settings (5)	March 15	<ul style="list-style-type: none"> • Mandatory (4) • Recommended (1) 	<ul style="list-style-type: none"> • Physicians and health care workers (4) • Physical illness/chronic populations (1)
	Community/faith-based organizations (1)	April 23	Mandatory (1)	General public (1)
	Retail/commerce restrictions (3)	March 17	Mandatory (3)	General public (1)
	Case and contact management measures (4)	March 11	<ul style="list-style-type: none"> • Mandatory (3) • Recommended (1) 	<ul style="list-style-type: none"> • General public (3) • Priority groups (details not provided) (1)
	Justice services (4)	March 13	Mandatory (4)	<ul style="list-style-type: none"> • Inmates (2) • Inmates and visitors (1) • Individuals charged with an offence (1)
	Government services (3)	March 19	Mandatory (3)	<ul style="list-style-type: none"> • General public (1) • Adults (17 to 65 years old) (1) • Physical illness/chronic populations (1)
	Social services (1)	April 23, 2020	Mandatory (1)	Adults (17 and 65 years old) (1)
QC	PUBLIC COMMUNICATION AND EDUCATION			
	Hand hygiene (4)	January 30	Recommended (4)	General public (4)
	Respiratory etiquette (4)	January 30	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (3) 	General public (3)
	Voluntary self-isolation (11)	February 7	<ul style="list-style-type: none"> • Mandatory (8) • Recommended (3) 	<ul style="list-style-type: none"> • General public (9) • Adults (17 to 65 years old) (1)

Province/ Territory	Category of related public health measures (n)	Date of initial public health measurement announcement	Level of implementation (n)	Target Population (n)
				• Seniors (>65 years old) (1)
	Voluntary home quarantine (14)	February 7	• Mandatory (7) • Recommended (7)	• General public (10) • Adults (17 to 65 years old) (1) • Seniors (>65 years old) (4)
	Use of masks (2)	April 7	Recommended (2)	General public (2)
PUBLIC HEALTH ORDERS				
	Physical distancing (4)	March 15	• Mandatory (3) • Recommended (1)	General public (4)
	School closures (4)	March 13	Mandatory (4)	Children (<17 years old) (4)
	University closures (1)	March 13	Mandatory (1)	Adults (17 to 65 years old) (1)
	Childcare closures (1)	April 27	Mandatory (1)	Children (<17 years old) (1)
	Cancellation of mass gatherings (8)	March 11	Mandatory (8)	• General public (7) • Children (<17 years old) (1)
	Assisted living facilities (6)	March 12	• Mandatory (3) • Recommended (3)	• General public (1) • Physicians and healthcare workers (2) • Seniors (>65 years old) (2) • Children (<17 years old) (1)
	Workplace (remote work) (2)	March 13	Mandatory (2)	Adults (17 to 65 years old) (2)
	Health care settings (2)	March 14	Mandatory (2)	General public (2)
	Community/faith-based organizations (1)	March 16	Mandatory (1)	General public (1)
	Retail/commerce restrictions (12)	March 13	• Mandatory (10) • Recommended (2)	• General public (10) • Adults (17 to 65 years old) (2)
	Border and travel measures (8)	March 11	• Mandatory (6) • Recommended (2)	• General public (7) • Adults (17 to 65 years old) (1)
	Government services (4)	March 17	Mandatory (4)	• General public (2) • Adults (17 to 65 years old) (1) • Children (<17 years old) (1)
	Social services (2)	March 15	Mandatory (2)	• Children (<17 years old) (1) • Victims of domestic violence (1)

Province/ Territory	Category of related public health measures (n)	Date of initial public health measurement announcement	Level of implementation (n)	Target Population (n)
NS	PUBLIC COMMUNICATION AND EDUCATION			
	Voluntary self-isolation (1)	March 19	Mandatory (1)	General public (1)
	Voluntary home quarantine (1)	March 22	Recommended (1)	Seniors (>65 years old) (1)
	PUBLIC HEALTH ORDERS			
	Physical distancing measures (1)	March 22	Mandatory (1)	Physicians and healthcare workers (1)
	School closures (3)	March 30	Mandatory (3)	Children (<17 years old) (3)
	University closures (1)	March 19	Mandatory (1)	Adults (17 to 65 years old) (1)
	Childcare closure (1)	April 28	Mandatory (1)	Children (<17 years old) (1)
	Cancellation of mass gatherings (1)	March 17	Mandatory (1)	General public (1)
	Assisted living facilities (3)	March 27	Mandatory (3)	<ul style="list-style-type: none"> • Physicians and healthcare workers (1) • Seniors (>65 years old) (1) • Vulnerable populations (1)
	Health care settings (3)	March 18	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (2) 	<ul style="list-style-type: none"> • General public (1) • Physicians and healthcare workers (2)
	Retail/commerce restrictions (7)	March 13	Mandatory (7)	<ul style="list-style-type: none"> • General public (6) • Adults (17 to 65 years old) (1)
	Boarder and travel measures (3)	March 4	Mandatory (3)	<ul style="list-style-type: none"> • General public (1) • Adults (17 to 65 years old) (2)
	Case and contact management measures (2)	April 5	Mandatory (2)	General public (2)
	Justice services (2)	March 14	Mandatory (2)	General public (2)
Government services (2)	March 17	Mandatory (2)	Adults (17 to 65 years old) (2)	
NB	PUBLIC COMMUNICATION AND EDUCATION			
	Hand hygiene (4)	March 5	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (3) 	<ul style="list-style-type: none"> • General public (3) • Clients and staff in homeless shelters (1)
	Respiratory etiquette (1)	March 5	Recommended (1)	General public (1)
	Voluntary self-isolation (16)	March 5	<ul style="list-style-type: none"> • Mandatory (2) • Recommended (14) 	<ul style="list-style-type: none"> • General public (12) • Physicians and health care workers (2) • Adults (17 to 65 years old) (1) • Seniors (>65 years old) (1)

Province/ Territory	Category of related public health measures (n)	Date of initial public health measurement announcement	Level of implementation (n)	Target Population (n)
	Voluntary home quarantine (16)	March 5	<ul style="list-style-type: none"> • Mandatory (2) • Recommended (14) 	<ul style="list-style-type: none"> • General public (12) • Physicians and health care workers (2) • Adults (17 to 65 years old) (1) • Seniors (>65 years old) (1)
	Use of masks (2)	April 1	Recommended (2)	General public (2)
PUBLIC HEALTH ORDERS				
	Environmental cleaning (public spaces) (11)	March 13	Mandatory (11)	<ul style="list-style-type: none"> • General public (10) • Children (<17 years old) (1)
	Physical distancing measures (13)	March 12	<ul style="list-style-type: none"> • Mandatory (5) • Recommended (8) 	<ul style="list-style-type: none"> • General public (10) • Children (<17 years old) (2) • Adults (17 to 65 years old) (1)
	School closures (2)	March 13	Mandatory (2)	Children (<17 years old) (2)
	University closures (2)	March 19	Mandatory (2)	Adults (17 to 65 years old) (2)
	Childcare closures (2)	March 13	Mandatory (2)	Children (<17 years old) (2)
	Cancellation of mass gatherings (3)	March 12	Mandatory (3)	General public (3)
	Assisted living facilities (6)	March 9	<ul style="list-style-type: none"> • Mandatory (4) • Recommended (2) 	<ul style="list-style-type: none"> • General public (2) • Physicians and healthcare workers (1) • Seniors (>65 years old) (3)
	Workplace (remote work) (5)	March 16	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (4) 	Adults (17 to 65 years old) (5)
	Health care settings (10)	March 11	<ul style="list-style-type: none"> • Mandatory (3) • Recommended (7) 	<ul style="list-style-type: none"> • General public (3) • Physicians and health care workers (7)
	Community/faith-based organizations (4)	March 12	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (3) 	General public (4)
	Retail/commerce restrictions (9)	March 16	<ul style="list-style-type: none"> • Mandatory (6) • Recommended (3) 	<ul style="list-style-type: none"> • General public (8) • Adults (17 to 65 years old) (1)
	Border and travel measures (7)	March 18	<ul style="list-style-type: none"> • Mandatory (4) • Recommended (3) 	<ul style="list-style-type: none"> • General public (6) • Adults (17 to 65 years old) (1)

Province/ Territory	Category of related public health measures (n)	Date of initial public health measurement announcement	Level of implementation (n)	Target Population (n)
	Case and contact management measures (10)	March 15	<ul style="list-style-type: none"> • Mandatory (3) • Recommended (7) 	<ul style="list-style-type: none"> • General public (8) • Physicians and health care workers (2)
	Justice services (3)	March 13	Mandatory (3)	General public (3)
	Government services (8)	March 17	<ul style="list-style-type: none"> • Mandatory (7) • Recommended (1) 	<ul style="list-style-type: none"> • General public (7) • Children (<17 years old) (1)
	Social services (3)	March 18	Recommended (3)	<ul style="list-style-type: none"> • General public (1) • Children (<17 years old) (1) • Homeless population (1)
PEI	PUBLIC COMMUNICATION AND EDUCATION			
	Hand hygiene (1)	February 28	Recommended (1)	General public (1)
	Voluntary self-isolation (10)	February 28	<ul style="list-style-type: none"> • Mandatory (4) • Recommended (6) 	<ul style="list-style-type: none"> • General public (9) • Children (<17 years old) (1)
	Voluntary home quarantine (10)	February 28	<ul style="list-style-type: none"> • Mandatory (4) • Recommended (6) 	<ul style="list-style-type: none"> • General public (9) • Children (<17 years old) (1)
	Use of masks (1)	April 6	Recommended (1)	General public (1)
	PUBLIC HEALTH ORDERS			
	Environmental cleaning (public spaces) (1)	March 17	Mandatory (1)	General public (1)
	Physical distancing measures (3)	March 13	<ul style="list-style-type: none"> • Mandatory (2) • Recommended (1) 	General public (3)
	School closures (2)	March 27	Mandatory (2)	Children <17 years old (2)
	Childcare closures (3)	March 15	Mandatory (3)	Children <17 years old (3)
	Cancellation of mass gatherings (2)	April 9	Mandatory (2)	General public (2)
	Assisted living facilities (1)	March 15	Mandatory (1)	General public (1)
	Workplace (remote work) (3)	March 16	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (2) 	General public (3)
	Health care settings (7)	March 15	Mandatory (7)	<ul style="list-style-type: none"> • General public (1) • Physical illness/chronic populations (3) • Population with mental health illness (3)

Province/ Territory	Category of related public health measures (n)	Date of initial public health measurement announcement	Level of implementation (n)	Target Population (n)
	Retail/commerce restrictions (7)	March 17	<ul style="list-style-type: none"> • Mandatory (6) • Recommended (1) 	<ul style="list-style-type: none"> • General public (6) • Seniors (>65 years old) (1)
	Border and travel measures (7)	March 10	<ul style="list-style-type: none"> • Mandatory (5) • Recommended (2) 	<ul style="list-style-type: none"> • General public (6) • Children (<17 years old) (1)
	Case and contact management measures (1)	April 23	Mandatory (1)	Physicians and health care workers (1)
	Government services (2)	March 17	Mandatory (2)	<ul style="list-style-type: none"> • General public (1) • Adults (17 to 65 years old) (1)
	Social services (1)	March 24	Recommended (1)	General public (1)
NL	PUBLIC COMMUNICATION AND EDUCATION			
	Voluntary self-isolation (3)	March 22	Recommended (3)	General public (3)
	Voluntary home quarantine (3)	March 22	Recommended (3)	General public (3)
	PUBLIC HEALTH ORDERS			
	Environmental cleaning (public spaces) (6)	March 13	Mandatory (6)	General public (6)
	Physical distancing measures (2)	March 19	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (1) 	General public (2)
	School closures (1)	April 2	Mandatory (1)	Children (<17 years old) (1)
	Childcare closures (3)	March 16	Mandatory (3)	Children (<17 years old) (3)
	Cancellation of mass gatherings (1)	March 28	Mandatory (1)	General public (1)
	Assisted living facilities (1)	March 23	Mandatory (1)	Seniors (>65 years old) (1)
	Workplace (remote work) (2)	March 10	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (1) 	Adults (17 to 65 years old) (2)
	Health care settings (3)	March 12	<ul style="list-style-type: none"> • Mandatory (2) • Recommended (1) 	<ul style="list-style-type: none"> • Physicians and health care providers (1) • Physical illness/chronic populations (2)
	Community/faith-based organizations (1)	March 24	Mandatory (1)	General public (1)
	Retail/commerce restrictions (10)	March 13	<ul style="list-style-type: none"> • Mandatory (8) • Recommended (2) 	General public (10)

Province/ Territory	Category of related public health measures (n)	Date of initial public health measurement announcement	Level of implementation (n)	Target Population (n)
	Border and travel measures (5)	March 6	<ul style="list-style-type: none"> • Mandatory (4) • Recommended (1) 	<ul style="list-style-type: none"> • General public (3) • Adults (17 to 65 years old) (2)
	Case and contact management measures (1)	March 22	Mandatory (1)	• General public (1)
	Justice services (1)	March 16	Mandatory (1)	Inmates (1)
	Government services (9)	March 15	<ul style="list-style-type: none"> • Mandatory (8) • Recommended (1) 	<ul style="list-style-type: none"> • General public (8) • Adults (17 to 65 years old) (1)
	Social services (3)	March 23	Recommended (3)	<ul style="list-style-type: none"> • General public (1) • Seniors (>65 years old) (1) • Homeless population (1)
YK	PUBLIC COMMUNICATION AND EDUCATION			
	Hand hygiene (3)	March 27	Recommended (3)	General public (3)
	Respiratory etiquette (3)	March 30	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (2) 	<ul style="list-style-type: none"> • General public (2) • Adults (17 to 65 years old) (1)
	Voluntary self-isolation (4)	March 27	<ul style="list-style-type: none"> • Mandatory (3) • Recommended (1) 	General public (4)
	Voluntary home quarantine (4)	March 27	<ul style="list-style-type: none"> • Mandatory (3) • Recommended (1) 	General public (4)
	Use of masks (1)	April 6	Recommended (1)	General public (1)
	PUBLIC HEALTH ORDERS			
	Physical distancing (12)	April 1	<ul style="list-style-type: none"> • Mandatory (10) • Recommended (2) 	<ul style="list-style-type: none"> • General public (11) • Adults (17 to 65 years old) (1)
	School closures (1)	March 27	Mandatory (1)	Children (<17 years old) (1)
	Childcare closures (2)	April 7	Mandatory (2)	Children (<17 years old) (2)
	Cancellation of mass gatherings (1)	April 3	Mandatory (1)	General public (1)
	Health care settings (2)	March 27	Mandatory (2)	General public (2)
	Retail/commerce restrictions (1)	April 3	Mandatory (1)	General public (1)
Remote and isolated communities (3)	March 30	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (2) 	General public (3)	

Province/ Territory	Category of related public health measures (n)	Date of initial public health measurement announcement	Level of implementation (n)	Target Population (n)
	Border and travel measures (6)	April 1	Mandatory (6)	General public (6)
	Case and contact management measures (3)	April 6	Mandatory (3)	General public (3)
	Government services (2)	March 30	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (1) 	<ul style="list-style-type: none"> • General public (1) • Adults (17 to 65 years old) (1)
	Social services (1)	April 22	Recommended (1)	Adults (17 to 65 years old) (1)
NWT	PUBLIC COMMUNICATION AND EDUCATION			
	Respiratory etiquette (2)	February 5	Recommended (2)	General public (2)
	Voluntary self-isolation (13)	February 5	<ul style="list-style-type: none"> • Mandatory (8) • Recommended (5) 	<ul style="list-style-type: none"> • General public (8) • Adults (17 to 65 years old) (5)
	Voluntary home quarantine (13)	February 5	<ul style="list-style-type: none"> • Mandatory (8) • Recommended (5) 	<ul style="list-style-type: none"> • General public (8) • Adults (17 to 65 years old) (5)
	Use of masks (1)	April 27	Mandatory (1)	Adults (17 to 65 years old) (1)
	PUBLIC HEALTH ORDERS			
	Environmental cleaning (public spaces) (1)	April 10	Mandatory (1)	General public (1)
	Physical distancing measures (10)	March 16	<ul style="list-style-type: none"> • Mandatory (5) • Recommended (5) 	<ul style="list-style-type: none"> • General public (7) • Adults (17 to 65 years old) (3)
	School closures (2)	March 16	Mandatory (2)	Children (<17 years old) (2)
	Childcare closures (1)	April 24	Mandatory (1)	Children (<17 years old) (1)
	Cancellation of mass gatherings (1)	April 10	Mandatory (1)	General public (1)
	Assisted living facilities (1)	March 16	Mandatory (1)	Physicians and healthcare workers (1)
	Workplace (remote work) (2)	March 14	Mandatory (2)	Adults (17 to 65 years old) (2)
	Health care settings (1)	March 16	Mandatory (1)	Physicians and health care workers (1)
	Retail/commerce restrictions (1)	April 10	Mandatory (1)	General public (1)
Border and travel measures (6)	March 16	<ul style="list-style-type: none"> • Mandatory (4) • Recommended (2) 	<ul style="list-style-type: none"> • General public (3) • Physicians and health care workers (1) • Adults (17 to 65 years old) (1) • Children (<17 years old) (1) 	

Province/ Territory	Category of related public health measures (n)	Date of initial public health measurement announcement	Level of implementation (n)	Target Population (n)
	Case and contact management measures (3)	March 14	Mandatory (3)	General public (3)
	Justice services (1)	April 22	Mandatory (1)	Inmates (1)
NU	PUBLIC COMMUNICATION AND EDUCATION			
	Hand hygiene (1)	March 4	Recommended (1)	General public (1)
	Respiratory etiquette (1)	March 4	Recommended (1)	General public (1)
	Environmental cleaning (home/personal environment) (1)	March 11	Recommended (1)	General public (1)
	Voluntary self-isolation (2)	March 18	Mandatory (2)	<ul style="list-style-type: none"> • General public (1) • Adults (17 to 65 years old) (1)
	Voluntary home quarantine (2)	March 18	Mandatory (2)	<ul style="list-style-type: none"> • General public (1) • Students (1)
	Use of masks (1)	April 29	Recommended (1)	General public (1)
	PUBLIC HEALTH ORDERS			
	Environmental cleaning (public spaces) (2)	March 13	Mandatory (2)	<ul style="list-style-type: none"> • General public (1) • Adults (17 and 65 years old) (1)
	Physical distancing measures (5)	March 4	<ul style="list-style-type: none"> • Mandatory (1) • Recommended (4) 	<ul style="list-style-type: none"> • General public (3) • Adults (17 and 65 years old) (2)
	School closures (2)	March 16	Mandatory (2)	Children (<17 years old) (2)
	Childcare closures (2)	March 16	Mandatory (2)	Children (<17 years old) (2)
	Cancellation of mass gatherings (1)	March 13	Mandatory (1)	General public (1)
	Workplace (remote work) (4)	March 16	Mandatory (4)	Adults (17 and 65 years old) (4)
	Border and travel measures (3)	March 4	Mandatory (3)	General public (3)
	Case and contact management measures (1)	April 30	Mandatory (1)	General public (1)
	Government services (1)	March 30	Mandatory (1)	General public (1)
	Social services (1)	March 19	Mandatory (1)	Homeless population (1)

AB=Alberta; BC=British Columbia; LTC=Long-term care; MB=Manitoba; NA=Not applicable; NB=New Brunswick; NL=Newfoundland and Labrador; NWT=Northwest Territories; NS=Nova Scotia; NU=Nunavut; ON=Ontario; PEI=Prince Edward Island; QC=Quebec; SK=Saskatchewan; YU=Yukon.

