Coronavirus: The view from China and Canada April 8th, 2020

GDI The Integrated Facility Services MRP CAPTIVATE REEF Genetice

i

Please contact relevant public health authorities for medical/public health advice. Neither BOMA Canada nor the individuals presenting herein are providing such advice. **BOMA** bomacanada.ca/coronavirus

Welcome from BOMA Canada



Benjamin Shinewald President and CEO BOMA Canada



bomacanada.ca/coronavirus



CORONAVIRUS

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COVID19 Back to Work Preparation for Commercial Buildings



Dominic Lau Executive Director BOMA China





新型冠状病毒医疗卫生应急处置预案

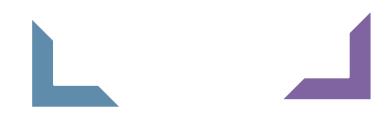
广州国际金融中心 Guangzhou International Finance Center

2020年1月编制



COVID19 Back to Work Preparation for Commercial Buildings

Guangzhou International Finance Center



6





Guangzhou International Finance Center

Guangzhou International Finance Center is a 103-story, 438.6 m (1,439 ft) skyscraper, completed in 2010. Total office floor area is 2,692,000 sq. ft.

Daily occupants 7,000 and 1,800 visitors



Emergency COVID19 taskforce to provide pandemic plan training to all personnel.

- Taskforce will review latest information on COVID19 status and condition, for material and resource allocation.
- All contract personnel must report their travel record and health declaration to their company. The company must provide this report to IFC management office 24 hours in advance for verification.
- All personnel must go through temperature check (max 37.2 C), disinfection procedure and wear proper PPE before each shift.









Any person returned from Wuhan/Hubei must isolate for 14 days, and submit their health declaration and proof of health to IFC management for approval before resume work.

- 7 entrances will be opened and equipped with body temperature scanner
- All people entering the building are required to wear facemask and body temperature check.

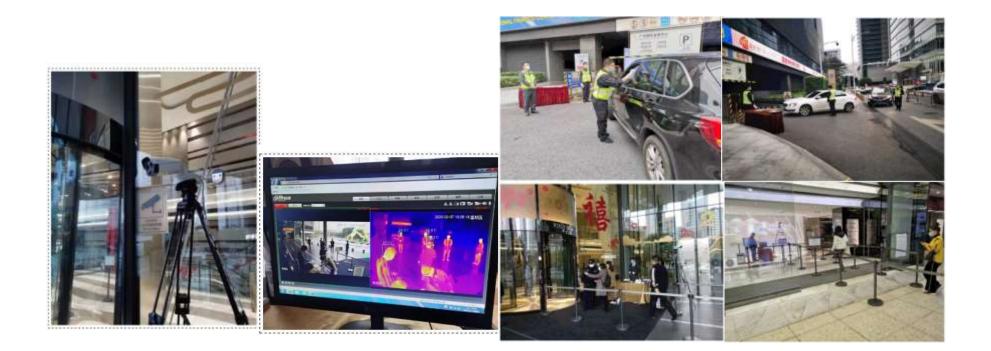




④友谊商店北门 ⑤友谊商店西门 (西侧员工通道) ⑥ 1号车道 (卸货区) ⑦ 2号车道

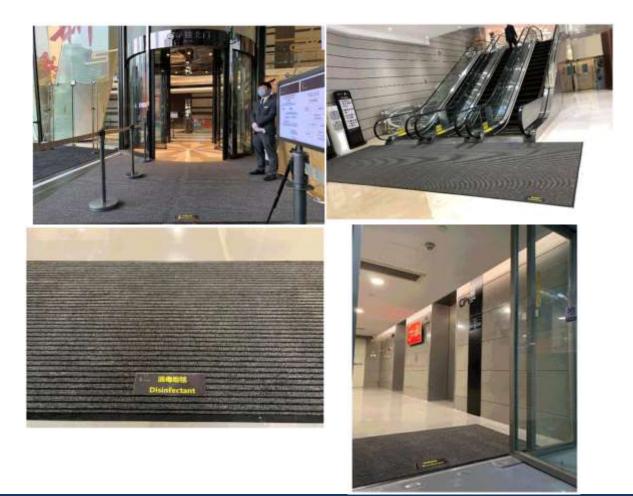


7 Entrances to IFC includes parking entrances - 3 main entrances are equipped with infrared temperature scanner to handle higher traffic volume, while other entrances are equipped with handheld temperature scanner for security.





• All entrances have disinfectant floor mat



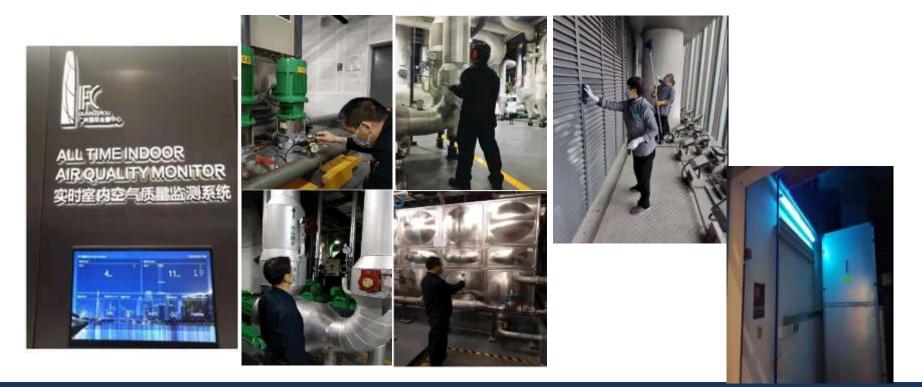




Building Owners and Managers Association China / 国际建筑业主与管理者协会 (中国) Every Opportunity to Succeed

02 HVAC

- ① Increase fresh air circulation 2X, and start ventilation system 2 hours early
- ② Disinfect ventilation system weekly
- ③ Additional ultraviolet disinfection equipment to ventilation system, and monitor IAQ continuously.
- ④ Make contingency plans in advance. As soon as there are suspected cases, immediately shut down the airconditioning air cabinet, fresh air and exhaust valve, retain the toilet exhaust, start the fire exhaust fan, so that the floor can maintain negative pressure, to prevent the spread of viruses and germs. Lock the elevator button to this floor to prevent people from straying in.





03 Environment

Guangzhou IFC uses German import brand Depei wash 3000 multi-functional disinfection liquid, concentration is automatically dispensed through MSDS chemical dispenser.

- a. In addition to daily cleaning, building's public areas, restrooms, parking lots and other locations is disinfected every hour during office hour;
- b. Disinfection during peak hours lobby front desk, security gates, escalator handrails, elevator lobbies and buttons, tearoom, garbage cans, nursing room, floor restrooms and other high-frequency contact points. Also disinfection spray will be applied twice daily in common area.
- c. During weekend and holiday, disinfection frequency will be adjusted to once every 2 hours, and the disinfection spray will be once a day.











03 Environment

• Health and safety message posting at front desk, elevator car, public area screen and other locations. Hand sanitizer are placed at the front desk and elevator hall.



• In addition, Guangzhou IFC provides customers with a free spray disinfection service.





03 Environment

• Used facemask disposal container is placed at entrances and elevator lobbies. The containers are disinfected twice daily. Used facemasks are collected and disinfected before disposal.







04 Elevator

• Keep the number of people per elevator to a maximum of 10



05 Food and courier deliveries

• Designated area for food and courier deliveries





IFC ventilation system

- Fresh air and return air are separate vent, there is no return air circulation between floors to avoid cross contamination.
- VAV system filters and sterilizes The air entering the building through G4 crude filtration, electrostatic dust removal, F7 medium filtration, dehumidification and other multiple processing, effective filtration diameter of about 0.08 microns of the coronavirus, 2.5 micron diameter sprigs of PM2.5 and diameter of more than 5 microns of droplets, and the use of photocatalytic devices to kill more than 90% of the virus and bacteria, before being sent to the customer unit.



06 Tenant

In order to better serve the building occupants, IFC implemented online work resumption declaration, personal health declaration, "temporary access card" and other initiatives to ensure safety and orderly operation of buildings.

1、Tenant declaration

All tenant must complete the "business resumption" application for resumption of work, complete the company filing procedures required by authority.





06 Tenant

2、Personnel Health Control

- Guangzhou IFC asked tenant to urge all staff to provide 14 days of personal trajectory record, health declaration and daily body temperature check, the establishment of staff "one person one file" system.
- Employee will be issued a temporary access card to the building upon review of the trajectory and health declaration.
- For employees who are asymptomatic after 14-day home isolation, IFC requires approval and consent to resume work by the tenant company, at least one day in advance before returning to the building to resume work.





06 Tenant

3、Visitor Control

IFC strongly recommend the use of video conferencing, remote collaboration to reduce visitor traffic to the building. If necessary, visitors are required to provide health declaration and personal trajectory proof one day in advance, and to show to the front desk, check and register before entering the building.







07 Communication

• Personal protection during an outbreak





07 Communication

• Personal protection during an outbreak





07 Communication

• How to wash your hands ?





Thank you BOMA

Building Owners and Managers Association China 国际建筑业主与管理者协会(中国)

CHINA

Tel: (86-10) 6566 3220 E-mail: info@bomachina.org Website: www.bomachina.org





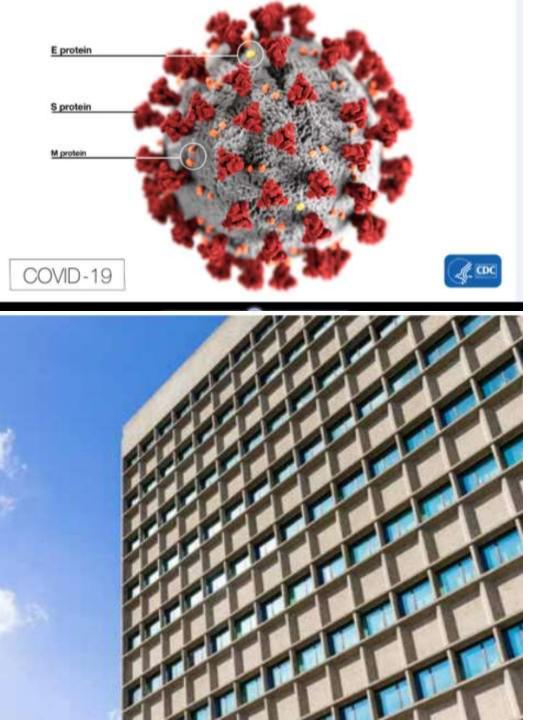
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COVID-19 in Canada



Susan Bazak Emergency Manager Bazak Consulting

Contraction of the local division of the loc



COVID-19 in Canada

SITUATION REPORT FOR

COMMERCIAL REAL ESTATE: APRIL 8, 2020



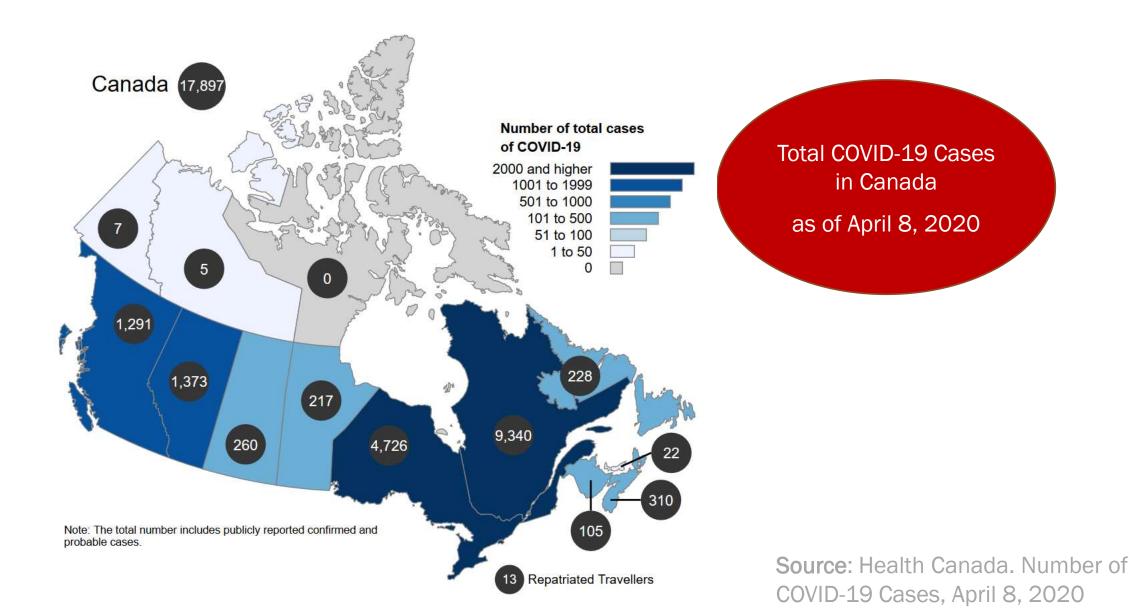
"You've got to understand... you don't make the timeline, the virus makes the timeline."

DR. ANTHONY FAUCI

HEAD, U.S. NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES HUFFPOST, MARCH 26, 2020

Overview

- 1. Current situation
- 2. Summary of what we know about COVID-19
- 3. Impacts, challenges, key concerns
- 4. Resources
- 5. Anticipating what's ahead



Compared to one week ago...

55

		April 1, 2020	April 8, 2020
	Total confirmed cases in Canada	9,017	17,897
	Total number of deaths in Canada	108	380

Source: Government of Canada. *Number of COVID-19 Cases*, April 1 & 8, 2020

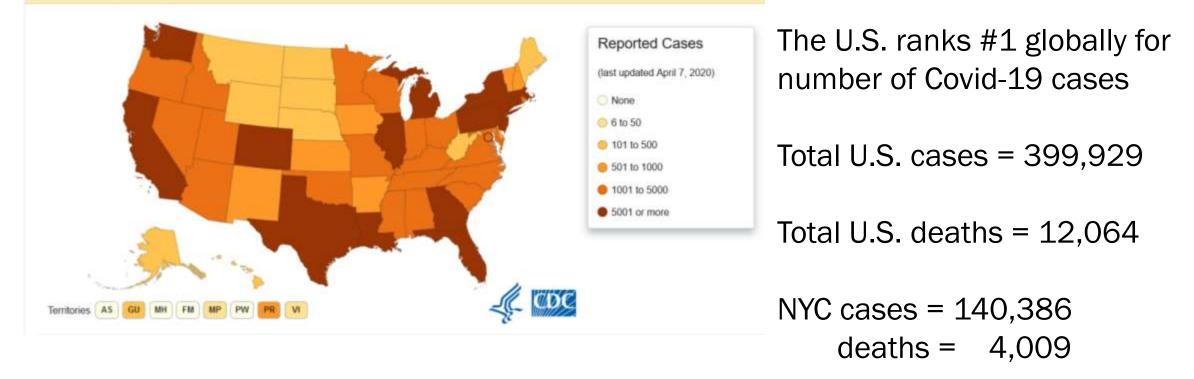


Model forecasting

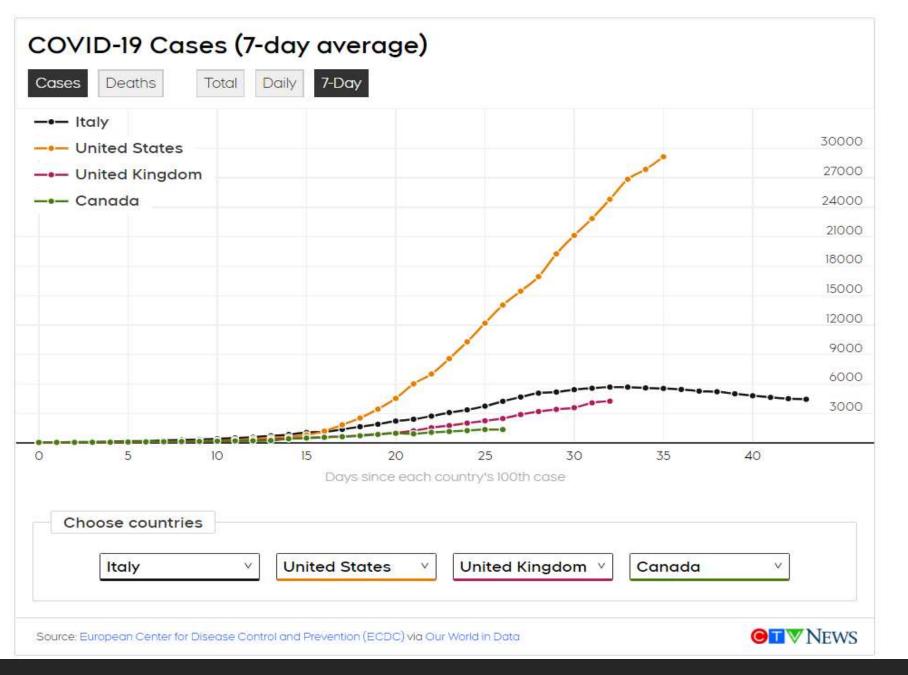
- Ontario, British Columbia, Alberta and Quebec have revealed their best and worst case scenario modeling
- Saskatchewan's modeling expected later today
- Ontario expects that 1,600 people will die by the end of this month, with 80,000 cases
- Alberta's projections of 400 3,100 people dead by the end of summer; peak expected by mid-May
- •Quebec's cases to peak mid month; projecting 1,263 8,860 deaths by end of this month
- Premiers reiterate that these numbers can be reduced if people physically isolate

What's happening in the U.S.

States Reporting Cases of COVID-19 to CDC*



Source: Centers for Disease Control & Prevention, Reported cases, April 8, 2020; John Hopkins University, April 8/20



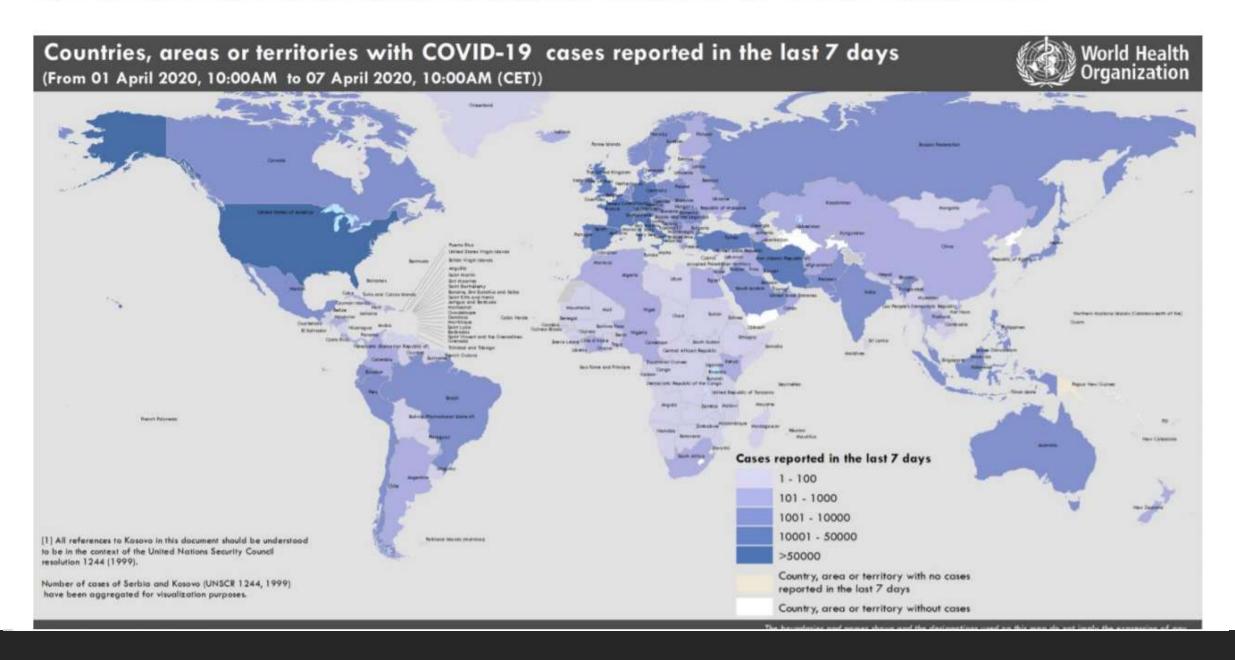
Source: CTV News, Plotting the trajectories of every country, April 6, 2020

What's happening around the world

		April 1, 2020	April 8, 2020	
	Total global confirmed cases	883,225	1,446,242	COUNTRIES WITH HIGHEST CASE #s
				1. U.S. 399,929
	Total global number of deaths	44,155	84,424	 2. Spain 146,690 3. Italy 135,586 4. France 110,070

*Source: John Hopkins University, Global Cases by the Center for Systems Science & Engineering, April 1 & 8, 2020

Figure 1. Countries, territories or areas with reported confirmed cases of COVID-19, 7 April 2020



Canada's pandemic planning approach

GOALS:

1. To minimize serious illness and overall deaths

2. To minimize societal disruption among Canadians.

HEALTH SECTOR OBJECTIVE:



Minimize serious illness and overall deaths through promotion of individual and community actions to reduce the spread of infection

Canada's pandemic planning approach

1. Containment

2. Preparedness

3. Mitigation



1,IIIIde gaorit

noun

the action of reducing the severity, seriousness, or painfulness of something. "the emphasis is on the identification and mitigation of pollution" *synonyms:* alleviation, reduction, diminution, lessening, easing, weakening, lightening, assuagement, palliation, cushioning, dulling, deadening; More

Translations, word origin and more definitions

From Oxford

Feedback

Canada's mitigation efforts

Individual Measures

- Physical distancing
- Hygiene
- Stay at home
- Go outside to exercise, if...
- Non-medical masks



Photo source: Health Canada, Considerations in the use of homemade masks to protect against COVID-19

Canada's mitigation efforts

Community Measures

- Non-essential workplaces further reduced this past week
- Restrictions on mass gatherings
- School & day care closures
- Travel and border restrictions



Epidemiology: Age distribution

Table 2. Age distribution of COVID-19 cases (n=8,880) in Canada, April 7, 2020, 11 am EDT

Age group (years)	Reported cases	Proportion of cases	
≤ 19	391	4.4%	Condon
20-29	1,136	12.8%	Gender
30-39	1,335	15.0%	According to Health
40-49	1,424	16.0%	Canada,
50-59	1,704	19.2%	approximately half of
60-69	1,365	15.4%	reported cases (52%) are female
70-79	789	8.9%	are lemale
80+	736	8.3%	

Source: Health Canada, Epidemiological Summary of COVID-19 Cases in Canada, April 7, 2020

Epidemiology: Symptoms

Commonly reported symptoms include:

 \circ cough

 \circ headaches

weakness & fatigue

 \circ fever

 \circ muscle aches

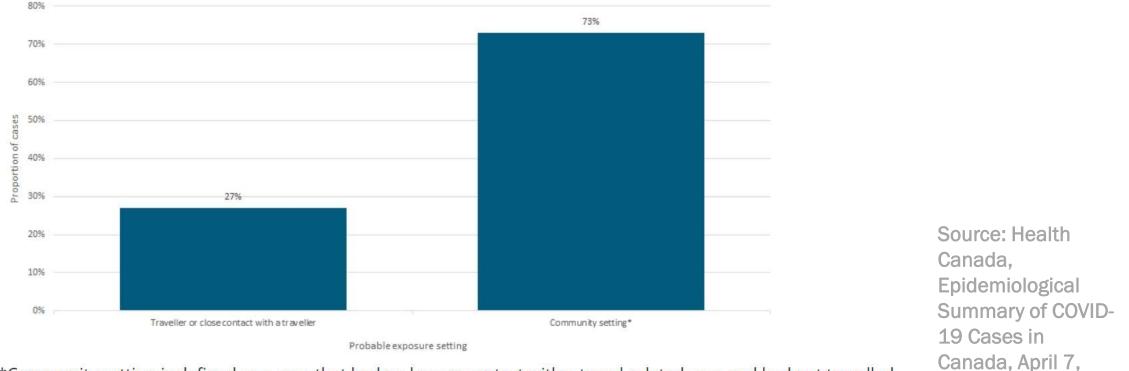
Photo: U.S. Dept. of Health & Human Services, U.S. Government Covid-19 Response Plan

WHO: virus can spread about 1-3 days before symptoms start

Sources: Health Canada, Epidemiological Summary of COVID-19 Cases in Canada, April 7, 2020; WHO, April 6, 2020

Epidemiology: Exposure

Figure 3. Probable exposure setting of COVID-19 cases (n=9,261) in Canada as of April 7, 2020, 11 am EDT.



2020

*Community setting is defined as a case that had no known contact with a travel-related case and had not travelled outside of Canada in the 14 days prior to illness onset.

Impacts: Financial

Government of Canada's response

For Individuals:

Canada Emergency Response Benefit (CERB)



- o announced Monday, April 5; almost 1 million Canadians have applied for CERB, as of April 7
- o since March 15, 3.67 million Canadians have applied for El

For Businesses:

- Canada Emergency Wage Subsidy 75 per cent wage subsidy to businesses that have lost 30% revenue
- Extended Work-Sharing Program to help employers and employees avoid layoffs by sharing available work

Health care system

- Covid-19 testing continues to be challenge testing kit shortage
- Rapid blood tests (already being used elsewhere) are not yet approved in Canada
- Personal protective equipment (PPE) and ventilators now produced in Canada
- Strain on Canada's health care system is expected at the peak of the pandemic; a system already under stress before Covid-19; ICU beds filling up

Known unknowns

- How long will strict physical distancing measures be required?
- Will the public cooperate with a lengthy shelter-in-place, especially as weather turns warm?
- How long can the economy withstand stringent public health measures?
- Will we indeed have multiple waves of the virus? At what severity?
- Will people who have had COVID-19 be immune? If so, for how long?
- When will a vaccine be available for the public? Anti-virals?
- What is the long-term strategy for Canada? What are the planning models Canada is using?

Critical business considerations

- 1. Protecting your stakeholders' health and safety
- 2. Communicating effectively
- 3. Ensuring essential business continues



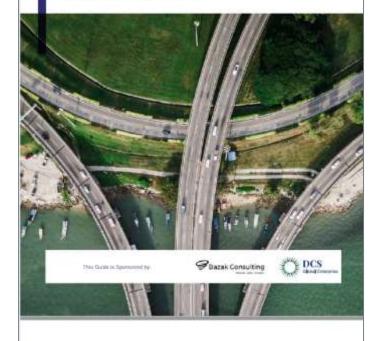
Source: CDC, Pandemic Flu Checklist: Workplace Administrators

Resources



BOMA

2019 BOMA Canada Guide to Pandemic Planning





19 March 2020

Getting your workplace ready for COVID-19 Here COVID-19 arreads

When someone who has COVID-19 and others, such as devias, tables or treinphones. People could catch COVID-16 hypothysical services and ittlects, such as devias, tables or treinphones. People could catch COVID-16 hypothysical services investe and tablects, and them touching their expert, nous, or mourth. If they are standing within 1 meters of a person with COVID-19 tapeads in a similar way to ful. Most persons indicated with COVID-19 experimence mill symptoms and recover. However, some experiment more services indicated with COVID-19 experimence mill symptoms and recover. However, some experiment more services indicated with COVID-19 expenditors in the weathered times rises with age: people over 40 seems to be more undirectable than these safet 40. People with weathered times rises with age: people with recollitions such as displayment, heart and fung disease are also more subserplate to explore all people with conditions with a single sections lines.

This document gives advice any

- 1. Simple ways to prevent the spread of CDVID-19 in your workplace
- 2. How to manage CDMD-39 miks when organizing meetings and events
- 3. Things to consider when you and your employees travel
- 4. Getting your workplace ready in case COVID-19 arrives in your community.

1. Simple ways to prevent the spread of COVID-19 in your workplace

The low-cost measures below will help prevent the spread of infections in your workplace, such as colds, flu and stamach bugs, and protect your customers, contractors, and employees.

Employers should start during these things now, even if COVID-15 has not arrived in the communities where they specade. These measures can reduce working days tool due to likees and show the specad of COVID-38 if it arrives at one of your workplaces.

- Make sure your workplaces are clean and hygeme.
 - Surfaces (e.g. desits and tables) and objects (e.g. telephones, keyboards) need to be wiped with doublectant regularly.
 - Why? Because contamination on surfaces touched by employees and customers is one of the main ways that COVID-19 spreads.

World Health Organization Coping with stress during the 2019-nCoV outbreak It is normal to feel sad, stressed, confused, scared or angry during a crisis. Talking to people you trust can help. Contact your friends and family.

If you must stay at home, maintain a healthy lifestyle including proper diet, sleep, exercise and social contacts with loved ones at home and by email and phone with other family and friends.



Don't use smoking, alcohol or other drugs to deal with your emotions.

If you feel overwhelmed, talk to a health worker or counsellor. Have a plan, where to go to and how to seek help for physical and mental health needs if required.

Get the facts. Gather information that will help you accurately determine your risk so that you can take reasonable precautions. Find a credible source you can trust such as WHO website or, a local or state public health agency.





O

Limit worry and agitation by lessening the time you and your family spend watching or listening to media coverage that you perceive as upsetting.

Draw on skills you have used in the past that have helped you to manage previous life's adversities and use those skills to help you manage your emotions during the challenging time of this outbreak.



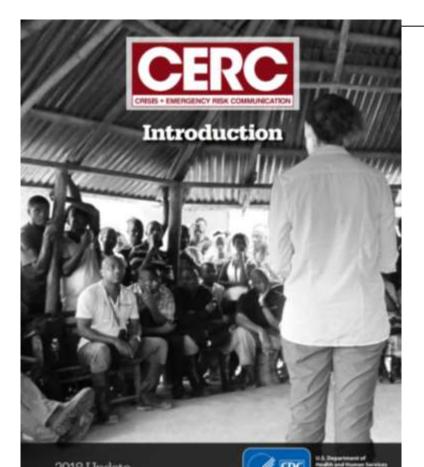
Resources



Canadian Centre for Occupational Health & Safety Institute for Real Estate Management

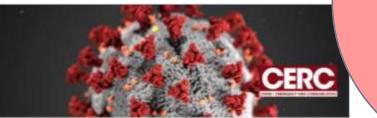
Government of Canada, Risk-Informed decision-making guidelines for workplaces & businesses during the COVID-19 pandemic Q

Resources



CDC

2018 Update



CERC in an Infectious Disease Outbreak

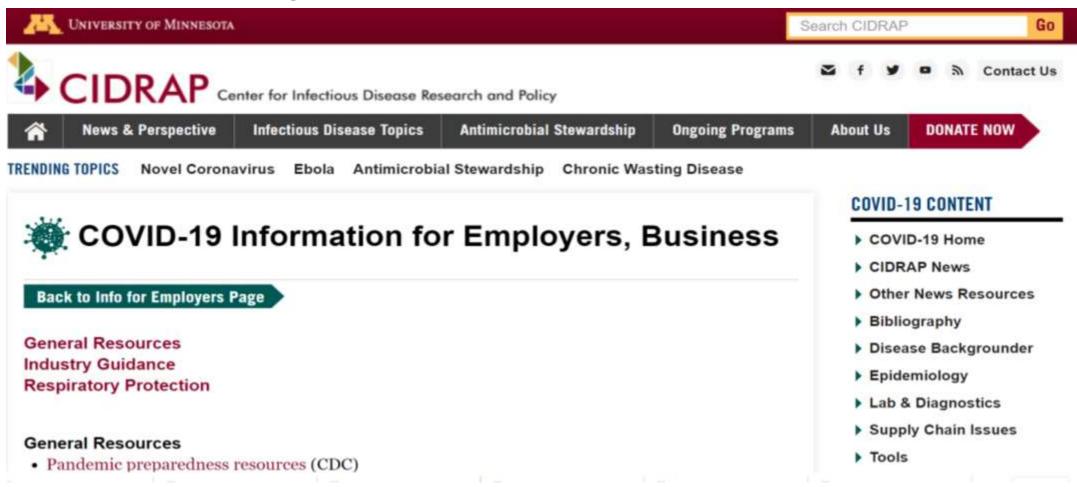
- 1. Be First: QueNy sharing information about a disease outpeak can help stop the spread of disease. and prevent and reduce itreas and even death. People often remember the first information they hear in an emergency, as the first information they receive should come from health experts.
- · Even if the cause of the outbreak or specific disease is unknown, share facts that are evaluatie. This can help you also ahead of possible numors.
- Share information about the signs and symptoms. of disease, who is at risk, treatment and care options, and when to seek medical care.
- 2. Be Night: Accuracy establishes credibility Inturnation should include what is known, what is not known, and what is being done to RE in the information cause.
- · Public health messages and medical guidance inust complement each other. For example, public health officials should not widely encourage people to ge to the disctors if ductors are furning people away and running out of medicine for critically if people.
- · Always fact check with subject-matter asperts. One incorrect message can cause harmful behaviors and may result in people lossing trust in future messages.
- 3. Be Credible: Honesh, Intelliness, and accertific evidence encourage the public to trust your information and multanew. Adversariation when you do not have anough information to answer a quedion and then work with the appropriate experts to get an anower.
- Do not make promises about anything that is not. yet certain, such as distribution of vaccines or neclications without confirmed availability
- · Circulars should be present at press or community events to prever medical questions.

- 4. Express Empethys Closics outbrashs cart. cause her and danget daily lives. Lessen-trateri or smieging diseases cause more uncertainty and anxiety. Acknowledging what people are heeing and their challenges shows that you are considering their perspectives when you give recommendations.
- For example, during a telebrishing for the communities disease 2018 response. "Being quarantined can be disruptive, hustrating, and likel scary. Expectally when the reason for quarantine is arposure to a new disease for which there may be limited information.
- Promote Actions in an infectious disease suffernals. 10 public understanding of and action on disease prevention is key to stopping the spread.
- · Keep action messages simple, short, and easy to remember, like "some your cough."
- Promote action messages in different ways to make sure they reach those with deaddrives. invited English profesency, and sarying access to information.
- 6. Show Respect: Respectul communication is perticularly important when people feet vulnerable. Respectful communication promotes cooperation and rapport. Actively laten to the issues and solutions Everything by ional communities and local leadership
- Acknowledge different cultural beliefs and practices about itseases, and work with commutaties to adapt behaviors and promote understanding.
- · Do not allamas fears or concarts. Give people a chance to talk and ask questions.



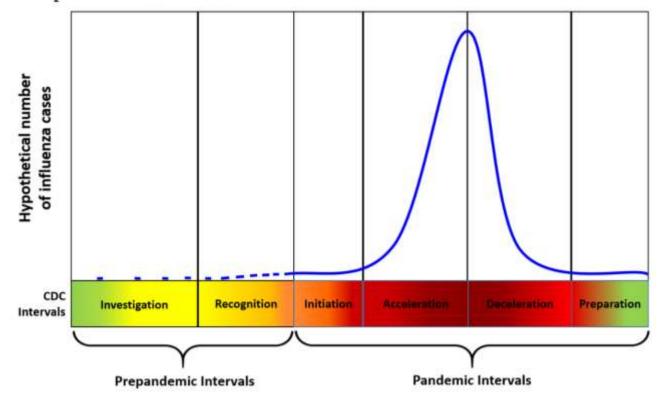
CDC, Crisis & Emergency Risk Communication

University of Minnesota, CIDRAP



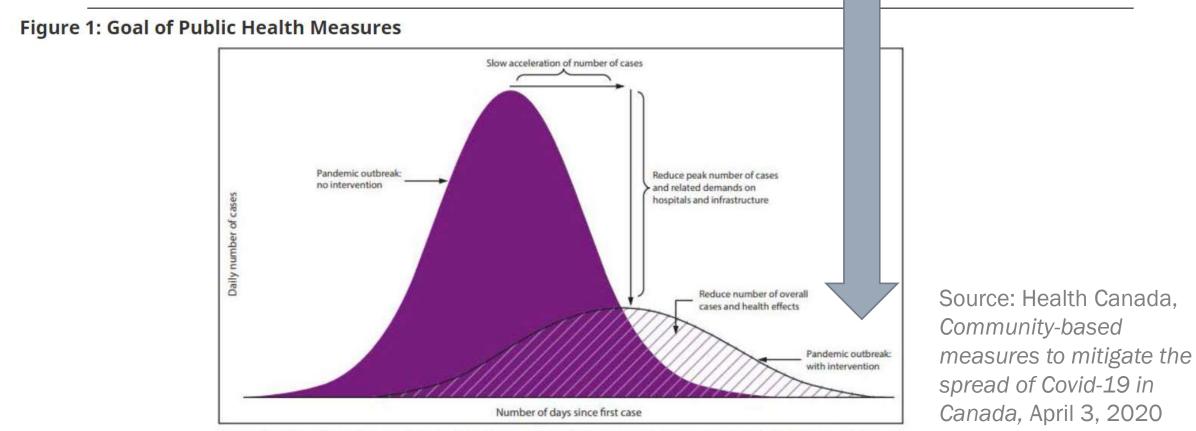
What's ahead?

Figure 1. Preparedness and response framework for novel influenza A virus pandemics: CDC intervals



Source: CDC, Pandemic Intervals Framework

Our best possible future

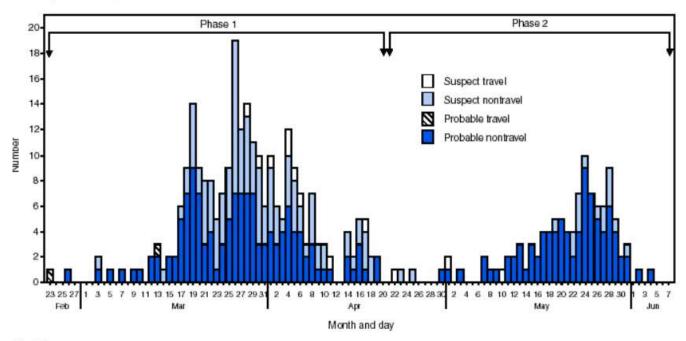


Source: Adapted from: CDC. Interim pre-pandemic planning guidance: community strategy for pandemic influenza mitigation in the United States—early, targeted, layered use of nonpharmaceutical interventions. Atlanta, GA: US Department of Health and Human Services, CDC; 2007. https://stacks.cdc.gov/view/cdc/11425.

Subsequent waves

Expect and plan for subsequent waves, with varying severity levels

FIGURE 1. Number* of reported cases of severe acute respiratory syndrome, by classification and date of illness onset — Ontario, February 23–June 7, 2003



Source: CDC, MMWR Weekly, Update: Severe Acute Respiratory Syndrome Toronto, Canada, 2003

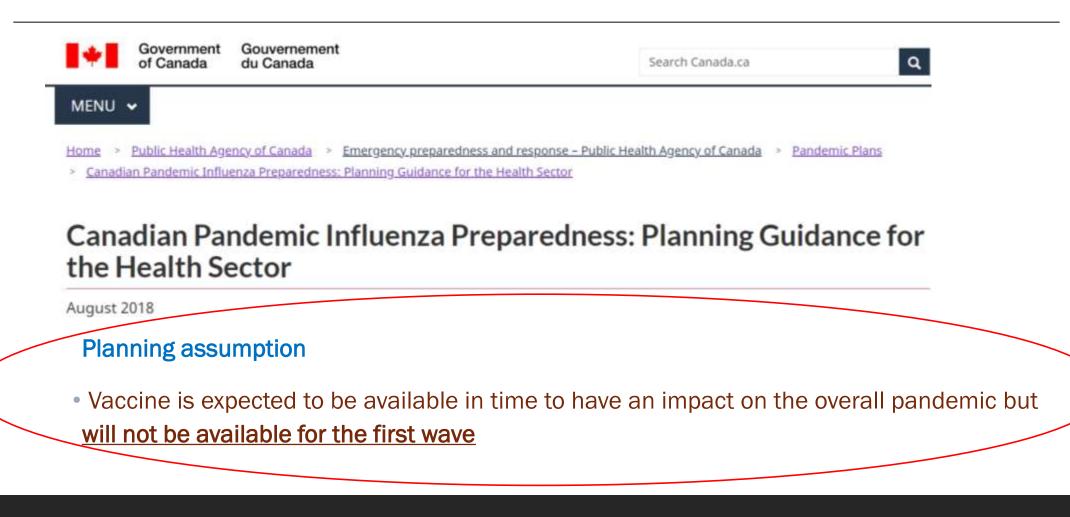
U.S. Government Planning Assumptions

- Pandemic can last 18 months or longer
- Could include multiple waves of illness
- Supply chain and transportation impacts
- Will likely result in significant shortages for government, private sector, and individual consumers



PanCAP Adapted U.S. Government COVID-19 Response Plan March 13, 2020

This could take a while...



Vaccine development

- 15 pharmaceutical companies racing to develop a COVID-19 vaccine
- Previous coronavirus research (SARS, MERS) has laid the foundation; hoping this will enable faster development
- Estimated availability within 18 months

More to follow

- Expect to see more infectious disease outbreaks in future
- With increasing trade, travel, population density, human displacement, migration and deforestation, as well as climate change, a new era of the risk of epidemics has begun
- Frequency and diversity of disease outbreaks are expected to grow steadily as they have for past 30 years



Outbreak Readiness and Business Impact

Protecting Lives and Livelihoods across the Global Economy

January 2019				
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Big picture implications

- We need to include the growing risk of infectious diseases in planning to reduce our exposure & improve our resilience
- We need to look for opportunities for enhanced public-private cooperation to strengthen global health security and mitigate the potentially devastating impacts of infectious disease, in both human and economic terms.

	ECONOMIC
White Paper	COMMITTED TO IMPROVING THE STAT OF THE WORLD
Outbreak Readines	ss and
Business Impact	
Protecting Lives an	nd Livelihoods
across the Global E	
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In collaboration with Harvard Global Health Inst	itute
January 2013	
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Planning Implications

Government Assumptions

- Pandemic can last 18 months or longer
- Could include multiple waves of illness
- Supply chain and transportation impacts
- COVID-19 outbreak will likely result in significant shortages for government, private sector, and individual consumers

Considerations for Business

- How can your business adapt to long-term?
- Need to plan staffing for round 2 of illness
- Have ongoing conversations with suppliers
- What is your plan to cope with expected shortages?

Thank you!

ARE YOU READY?



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Question & Answer Please use the Q/A box functionality on the webinar



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Follow the conversation

@BOMA_CAN @BOMA_BEST BOMA Canada, Benjamin Shinewald

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