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LEADING INNOVATION FOR A HEALTHIER WORLD CHEF DE FILE EN INNOVATION POUR UN MONDE EN SANTÉ



Faculty of Medicine International and Global Health Office (IGHO) COVID19 Webinar Series 2020



Guest speaker: Mark Walker, MD, FRCSC, MSC, MHCM







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Program

- Welcome remarks by Moderator
 - Introduction of Guest Speaker
 - Disclosures
 - Accreditation
 - Learning Objectives
- Presentation
- Questions from participants coordinated by moderator







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Biography – Dr. Mark Walker

Dr. Walker is a healthcare executive and the current Chairman and Chief of the Department of Obstetrics and Gynecology at the University of Ottawa and The Ottawa Hospital, and has recently taken on the role of Interim Director of Global Health and Internationalization with the Faculty of Medicine.

As well as being a highly respected clinician and researcher, Dr. Walker holds a Masters in Epidemiology from the University of Toronto and a Masters in Health Care Management from Harvard University.

Dr. Walker's main research interests include health services, population health, and clinical studies in perinatology. His work in research has been as an epidemiologist, public health advocate and clinical trialist. He has published more than 330 peer reviewed articles and been awarded more than \$15 million as Principal Investigator in research.

He is currently a Senior Scientist and the Scientific Director of the Better Outcomes Registry & Network (BORN Ontario) as well as a board member of the CHEO Research Institute Dr. Walker is the co-founder of the Obstetrics & Maternal Newborn Investigations (OMNI) Research Group, at the Ottawa Hospital Research Institute (OHRI).

He has supervised 117 trainees from summer students, Post-Doctoral Fellows, Residents and Clinical Fellows.







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Disclosure of Commercial Support

• Potential for conflict(s) of interest: None









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Accreditation

- **RCPSC:** This event is an Accredited Group Learning Activity (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, and approved by the University of Ottawa's Office of Continuing Professional Development. You may claim a maximum of **1.0 hours** (credits are automatically calculated).
- **CFPC:** This one-credit-per-hour Group Learning program meets the certification criteria of the College of Family Physicians of Canada and has been certified by the University of Ottawa's Office of Continuing Professional Development for up to 1.00 Mainpro+ credits.







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COVID 19 Global Pandemic and Global Response

Dr Mark Walker, MD, MSc, MHCM, FRCS(C) University of Ottawa / Faculty of Medicine Interim Director Internationalization and Global Health

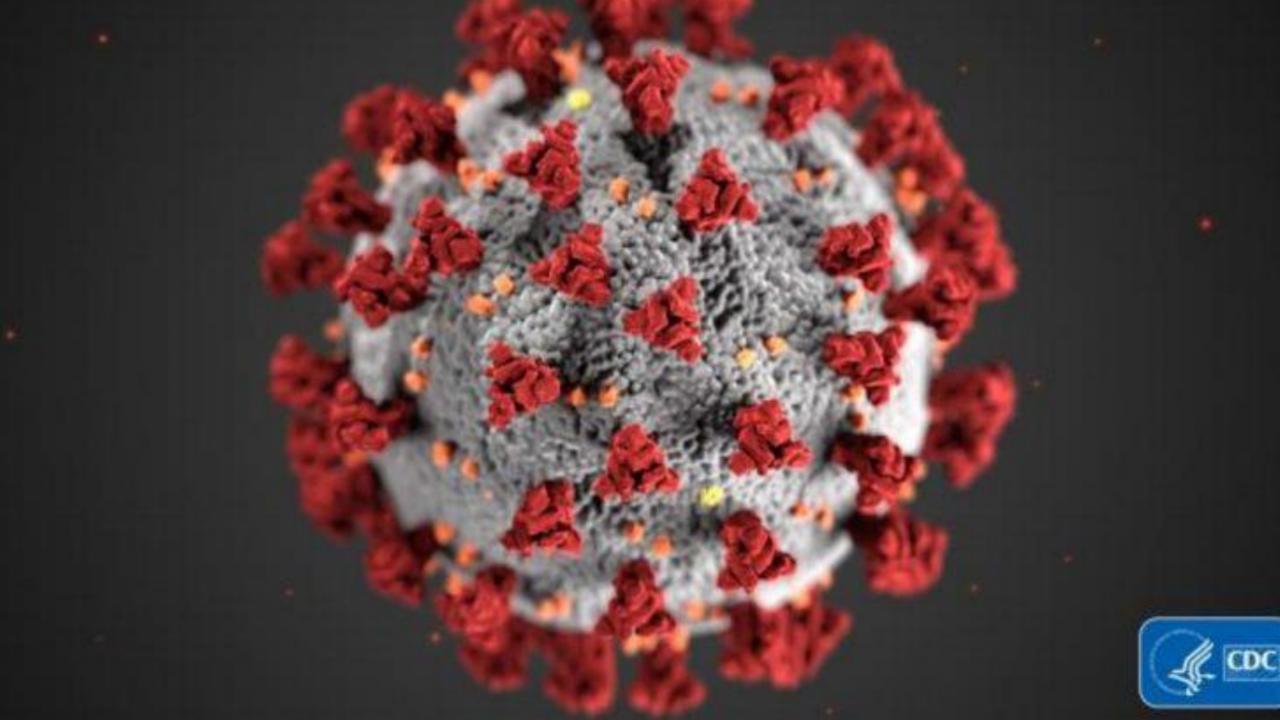
IGHO COVID-19 Webinar Series

Learning Objectives

To describe what COVID-19 is and the impact of globalization on its spread.

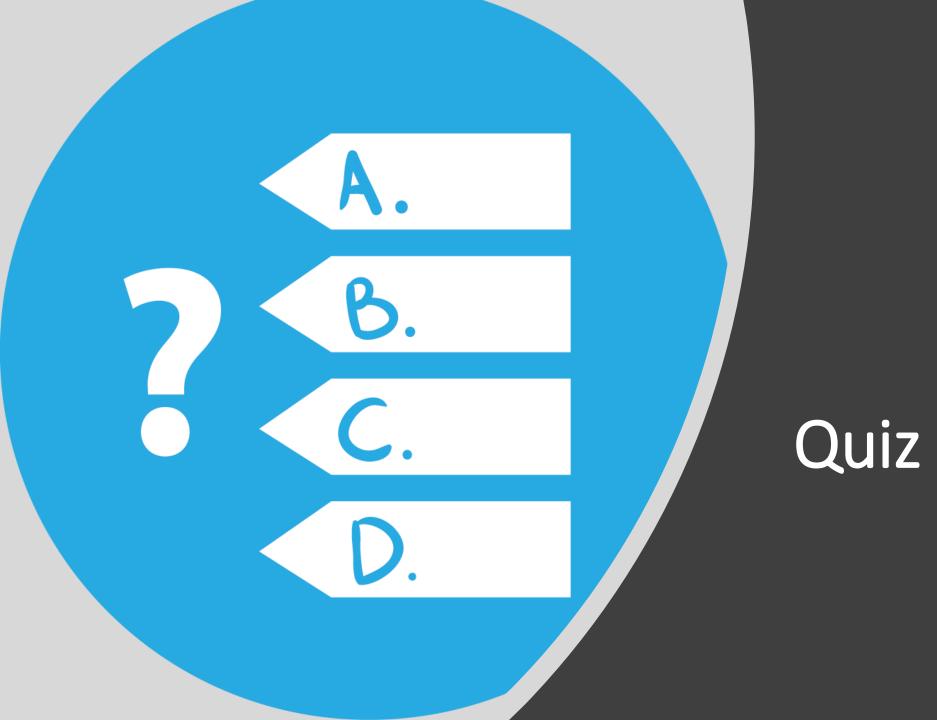
To identify how we leveraged our global resources and partnership to prepare for the pandemic.

To explain how the global community of scientists will work together for treatments and a vaccine.



Video

https://www.youtube.com/watch?v=j4Xiow30bGo









How the virus spread around the world

Red dots show new confirmed cases on featured date. Shading indicates a country's first case

26 January 22 January 31 January Daily cases 555 | Total cases 555 Daily cases 1,693 | Total cases 9,927 Daily cases 684 | Total cases 2,118 New cases in Thailand, Japan, China, South New cases in Australia and Canada New cases in Italy, Sweden, Russia and United Korea, Taiwan and US Kingdom **26 February 19 February** 3 March Daily cases 503 | Total cases 75,639 Daily cases 982 | Total cases 81,395 Daily cases 2,534 | Total cases 92,840 New cases in Iran New cases in Pakistan, Brazil, Georgia, Greece, New cases in Argentina, Chile, Jordan and North Macedonia, Norway and Romania Ukraine

9 March

Daily cases 3,766 | Total cases 113,561 New cases in Albania, Cyprus and Brunei

13 March

Daily cases 16,850 | Total cases 145,193 New cases in Kazakhstan, Ethiopia, Sudan, Guinea, Kenya and Antigua and Barb.

22 March

Daily cases 31,431 | Total cases 335,955 New cases in Dominica, Grenada, Mozambique and Syria

Current Status

Coronavirus Cases:



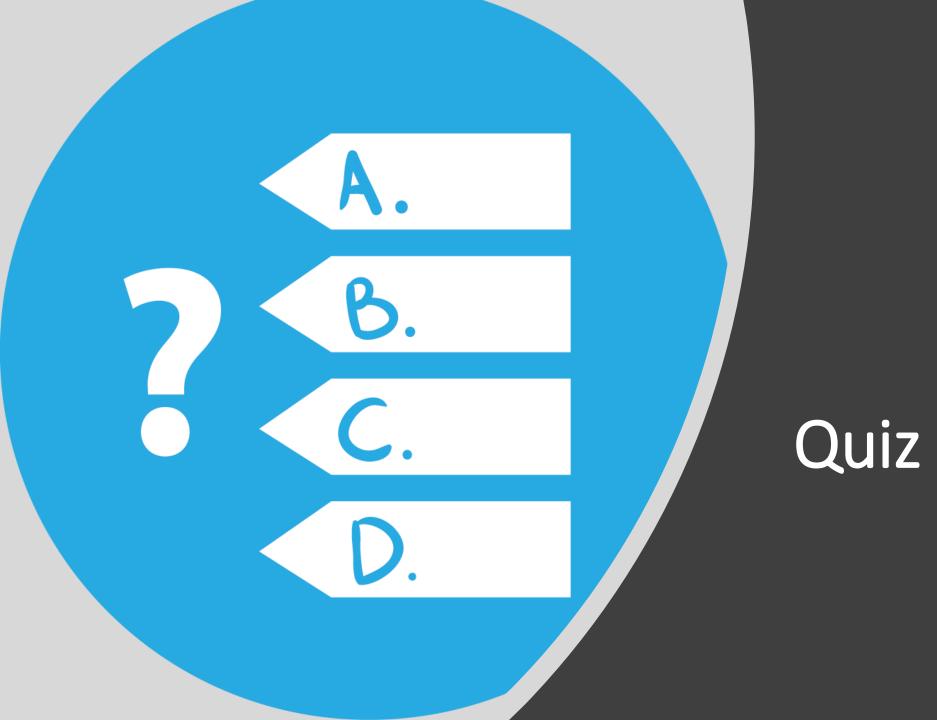
view by country

Deaths: **148,663**

Recovered: **558,440**



Questions from participants





March 11, 2020 Global Pandemic Declared by WHO

COVID-19 Update March 11, 2020 / as of 8:13 AM EST

1,016 U.S. cases **31** U.S. deaths

MDedge

121,061 Worldwide cases 4,368 Worldwide deaths

Source: CDC, WHO; JHU CSSE; Worldometers.info



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			10-19	0 (0%)	0%	
37	.3%		20-29	0 (0%)	0%	79
			30-39	4 (0.2%)	0.2%	
0-18 19 Età med		24.2	% 40-49	9 (0.5%)	0.3%	
Eta med			50-59	46 (2.7%)	1%	si
4.55			60-69	144 (8.5%)	3.2%	
	100	3	7.3 70-79	602 (35.5%)	11.8%	
			80-89	727 (42.8%)	18.8%	
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Health Care System challenges

- Be prepared:
 - The epidemic runs very fast even geographycally
 - SARS-Cov-2 is very contagious
 - · The HS may be soon overwhelmed
 - Internal coordination (Administration, Physicians, Pharmacy, Supplies, ...)
 - Individual Protective Devices (supply, correct use, etc.)
 - Diagnostic (false negative nasofaringeal swabs, BAL...)
 - Therapeutic guidelines (no established regimens)
 - Impact on other health needs



Therapeutic options

- Protease inhibitors (lopinavir? darunavir?)
- Chloroquine
- Remdesivir
- Tocilizumab
- Other IL-6 inhibitors
-

Recording





Key messages

- SARS-COV-2 spreads rapidly in geographical terms unless drastic restriction measures are taken
- SARS-COV-2 ramps very quicky in terms of epidemic curve
- Hospitals needs to have a well established emergency plan (beds, staff, equpment, supplies, etc.)
- Clinical course may be sneaky, with quick worsening of respiratory function
- Lung TC is quite typical, with basilar and peripheral infiltrates (high PPV)
- Nasopharingeal swab my be negative at first (BAL)
- High infectiousness among health care workers
- Supply stock (mask, ventilators, etc.)



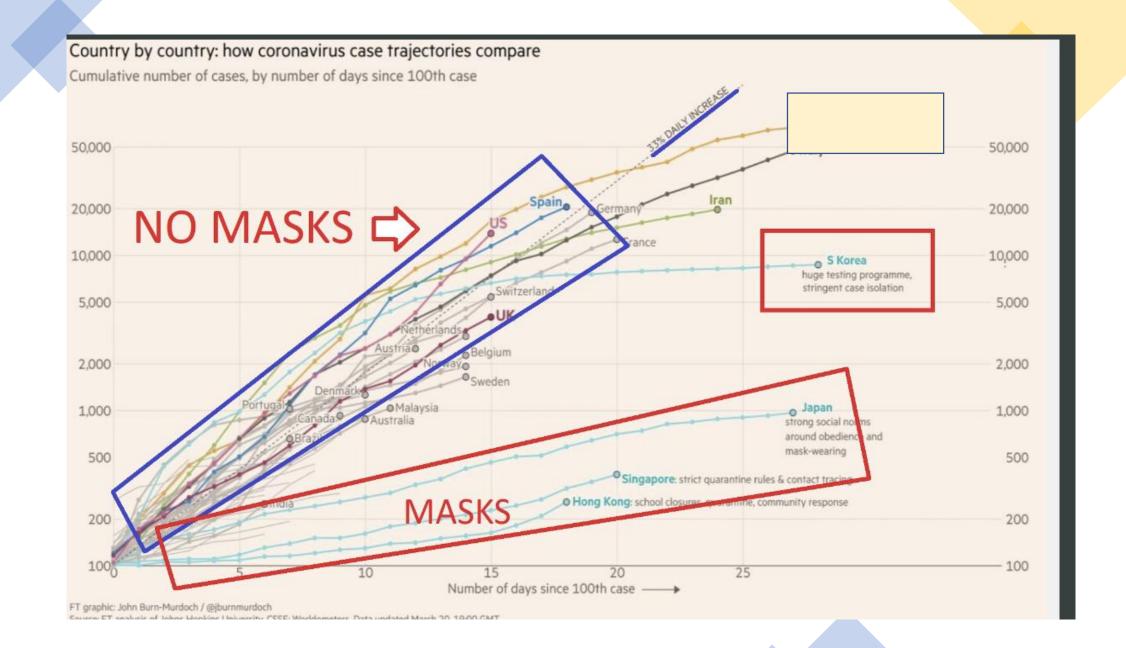
FACTORS THAT INCREASE RISK OF TRANSMISSION TO HEALTHCARE PROVIDERS

- Inadequate personal protection use at the beginning of the epidemic
- Long-time exposure to large scale of infected patients
- Shortage of PPE
- Insufficient training of frontline staff for infection prevention and control



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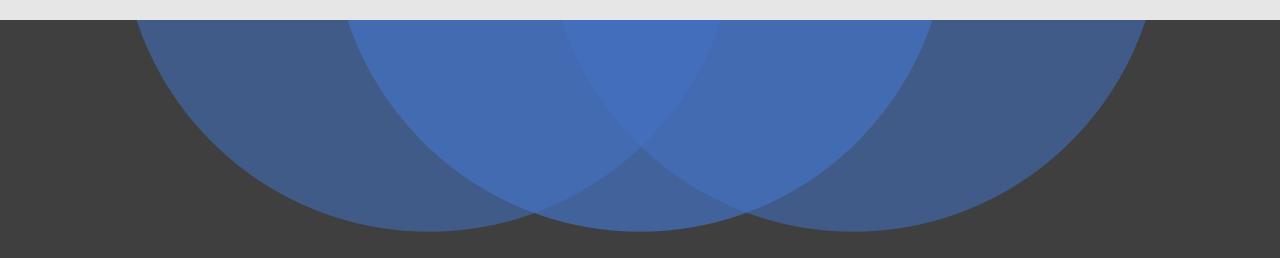


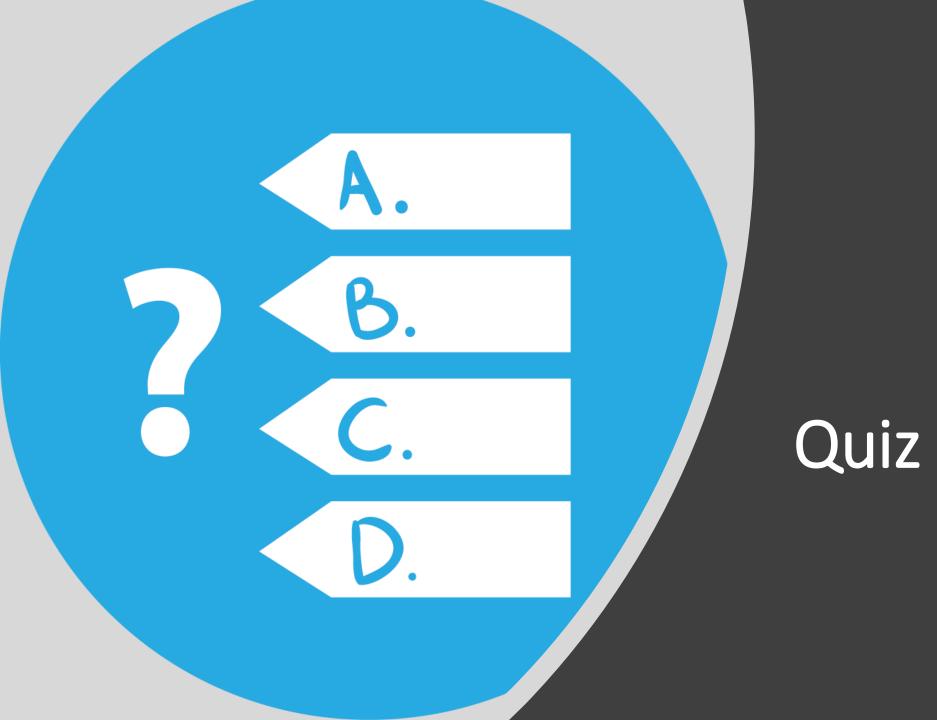


Questions from participants



Global Solutions





ICU projections

Census projections

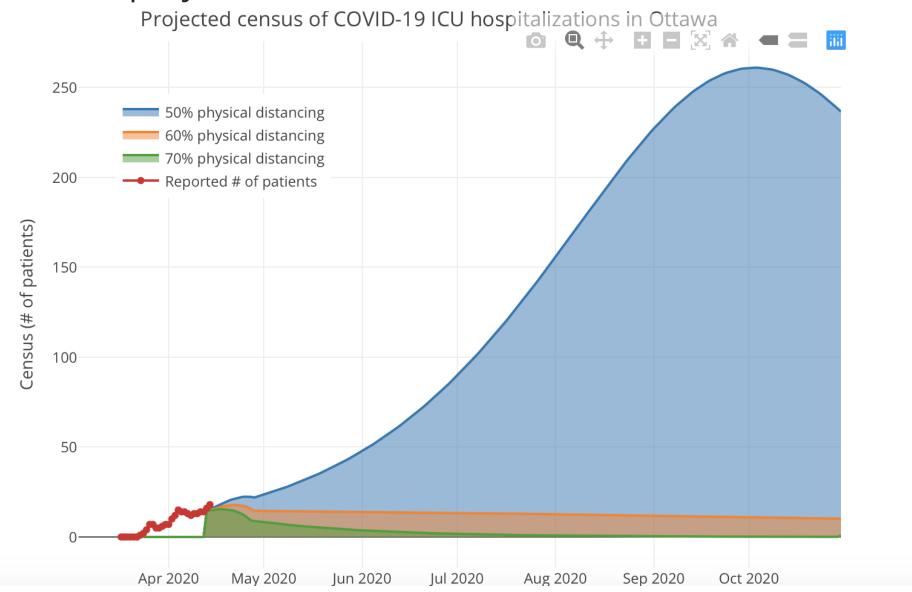
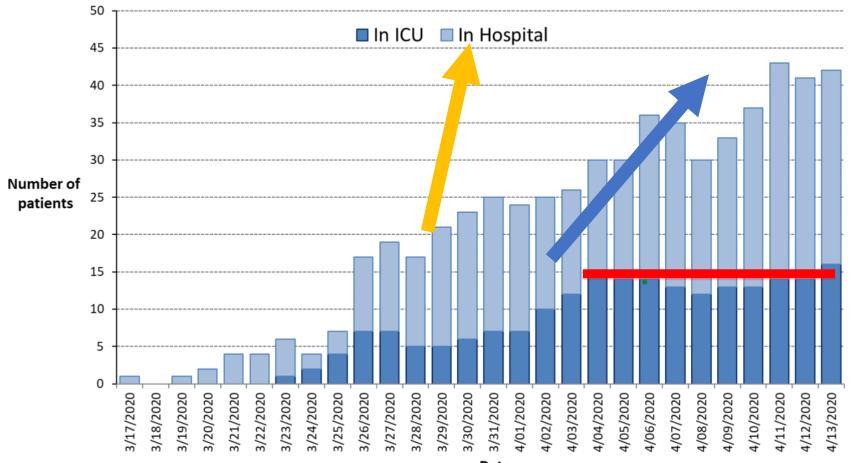


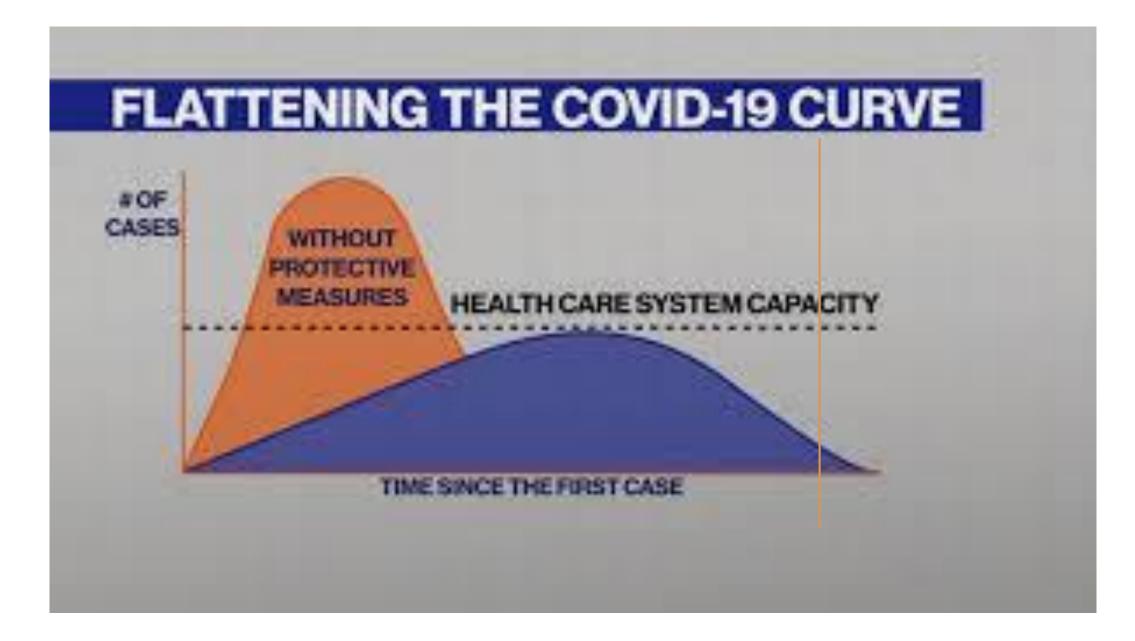
Figure 3. Confirmed Ottawa COVID-19 cases currently in hospital or intensive care, by day

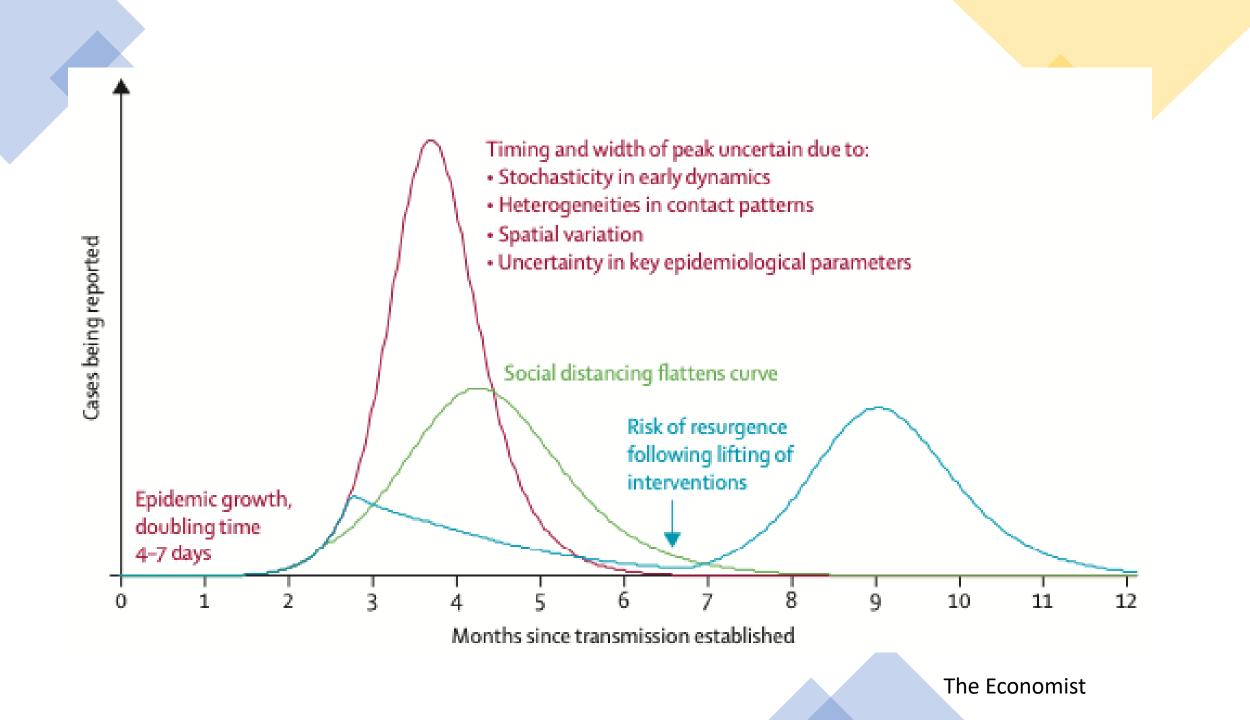


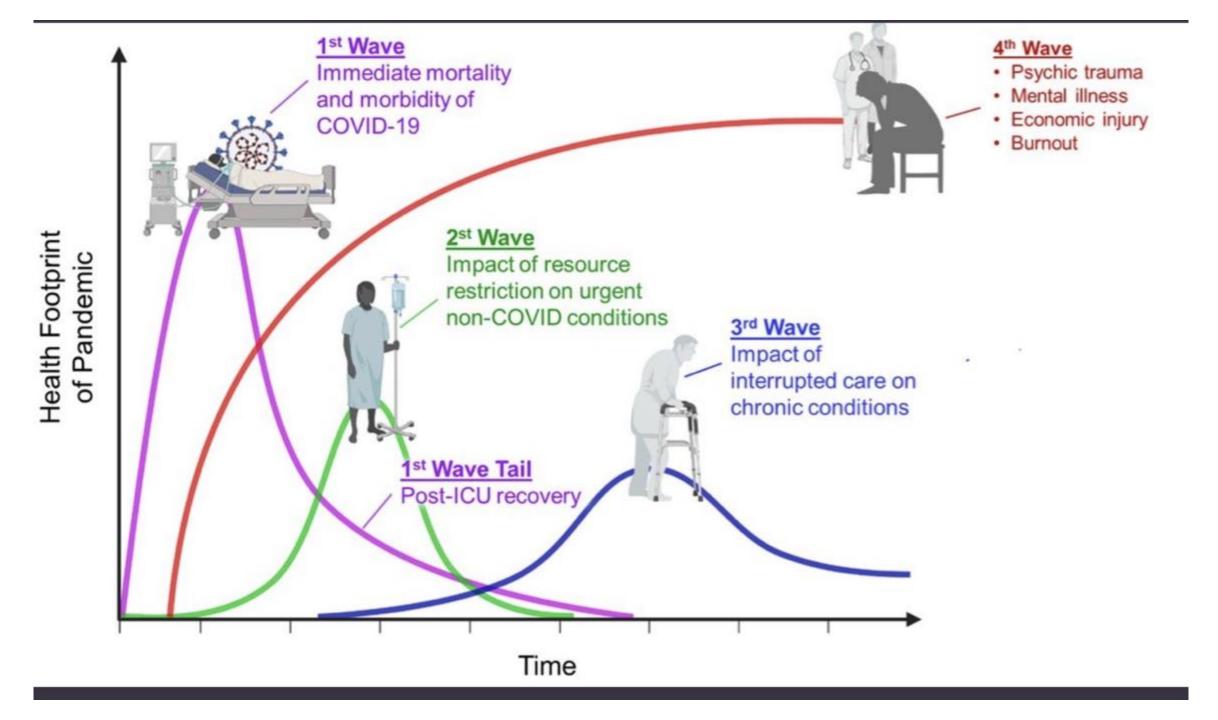
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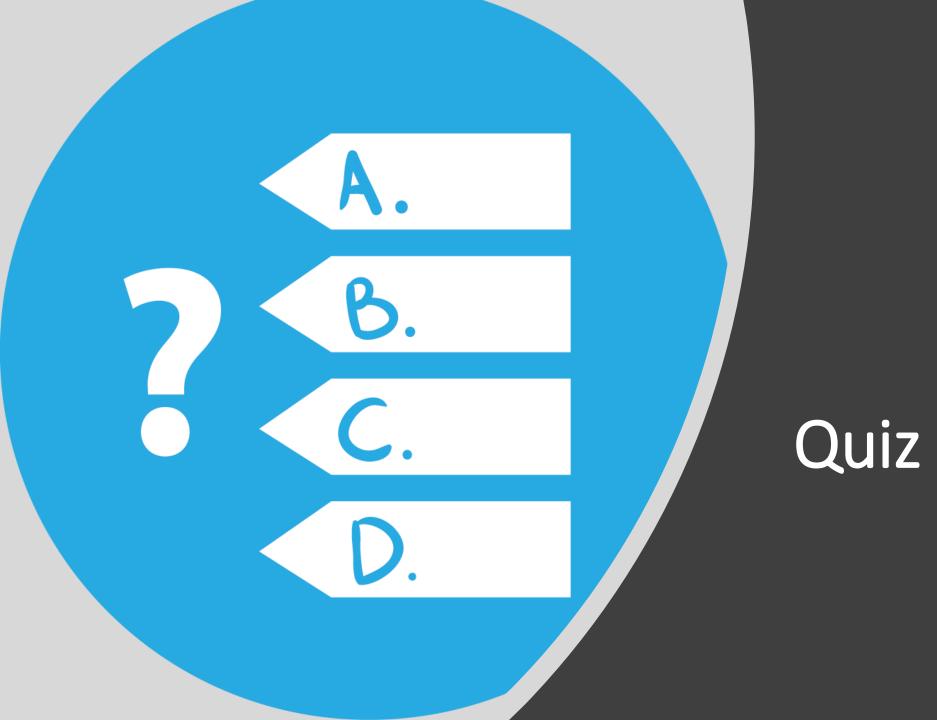


















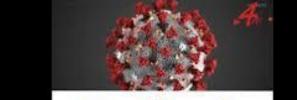
US FDA, CE-IVD, K-MFDS Product License







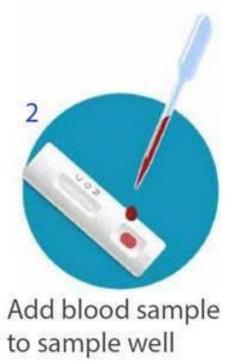














Place 2-3 drops of buffer in sample well







Questions from participants



Feedback (is very much appreciated)

- Please take a brief moment to complete the online evaluation for today's webinar
- It will be sent to you by email today
- You can also access it by clicking the link below:

https://www.surveymonkey.ca/r/IGHO-COVID19_2







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