



Special Edition

COVID-19 and You

arthritis.ca



Dr. Vandana Ahluwalia

Rheumatologist Brampton, Ontario

Moderator

Dr. Siân Bevan

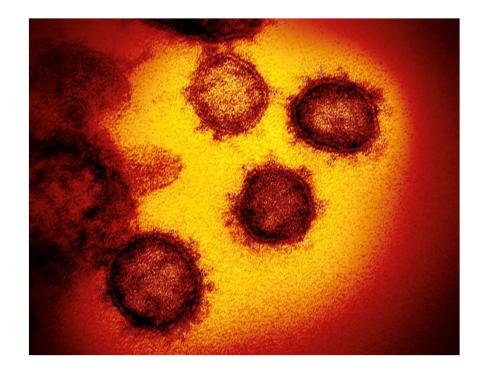
Chief Science Officer Arthritis Society



- ▼ What is COVID-19?
- What are the symptoms and how can we stop the spread?
- Commonly asked questions by people with rheumatic diseases/arthritis
- What you should do over the next 2 weeks



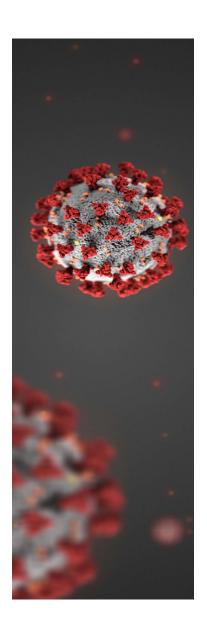
- ▼ SARS CoV-2: Virus
- ▼ COVID-19: Disease





Pandemic: What does that mean?

- A pandemic is the "worldwide spread of a new disease," according to the WHO.
- There's no cut-and-dry criteria for what reaches the level of pandemic and what does not, and there is no threshold of cases or deaths that triggers the definition.





Pandemic Coronavirus (COVID-19)

On Dec. 31, 2019, the World Health Organization (WHO) China Country Office was informed of cases of pneumonia of unknown etiology in Wuhan City, Hubei Province of China. The outbreak began in a seafood and poultry market in Wuhan, a city of 11 million in central China. Like SARS and MERS-CoV, the newly detected coronavirus has a zoonotic source. However, human-to-human transmission has been confirmed.

Researchers think the new coronavirus originated in bats, then jumped to an intermediary species — most likely pangolins, pigs or civets — that passed it to people. It can be spread among humans via respiratory droplets within six feet.



On Jan. 30, 2020, the WHO declared the 2019-nCoV outbreak a Public Health Emergency of International Concern.

On Feb. 11, 2020, the WHO announced a name for the disease: COVID-19.

On Mar. 11, 2020, the WHO declared COVID-19 a pandemic.

80%: Mild illness

15%:

Hospitalized

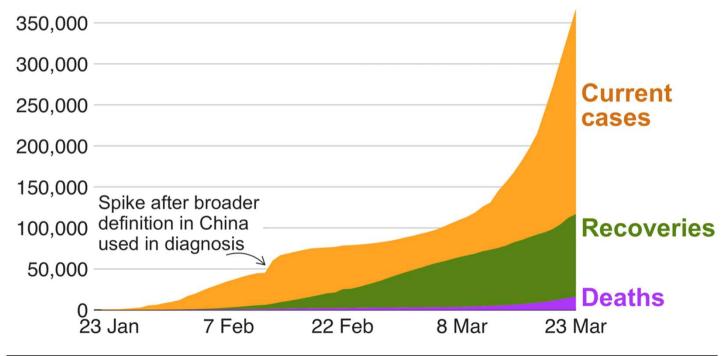
5%: Intensive

care

1-3%: Mortality

Coronavirus cases, recoveries and deaths

Of the 367,000 confirmed coronavirus cases globally, there have been 101,000 recoveries and 16,100 deaths



Source: Johns Hopkins University, updated: 23 Mar 17:00 GMT







Coronavirus COVID-19 Global Cases by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins U...

Total Confirmed

470,973

Confirmed Cases by Country/Region/Sovereignty

81,667 China

74,386 Italy

68,572 US

49,515 Spain

37,323 Germany

27,017 Iran

25,600 France

10,897 Switzerland

9,640 United Kingdom

9,137 Korea, South

Troisu, south

6,440 Netherlands

5,588 Austria

Last Updated at (M/D/YYYY)
3/25/2020, 9:52:13 PM





Total Recovered

173
countries/regions

Lancet Inf Dis Article: Here. Mobile Version: Here. Visualization: JHU CSSE. Automation Support: Esri Living Atlas team and JHU APL. Contact US. FAQ.

Data sources: WHO, CDC, ECDC, NHC, DXY, 1point3acres, Worldometers.info, BNO, state and national government health departments, and local media reports. Read more in this blog.

Confirmed

Daily Increase

As of Mar. 21, 2020, 4:13 p.m.

As of Mar. 25, 2020, 9:52 p.m.



2,814 Austria
2,118 Norway
1,763 Sweden
1,420 Denmark
1,280 Portugal
1,183 Malaysia
1,137 Canada
1,071 Australia
1,021 Brazil
1,007 Japan
925 Czechia
883 Israel
730 Pakistan
Country/Regio

Confirmed Cases by Country/Region/Sovereignty
5,588 Austria
4,937 Belgium
3,400 Canada
3,084 Norway
2,995 Portugal
2,554 Brazil
2,526 Sweden
2,433 Turkey
2,369 Israel
2,364 Australia
1,862 Denmark
1,796 Malaysia

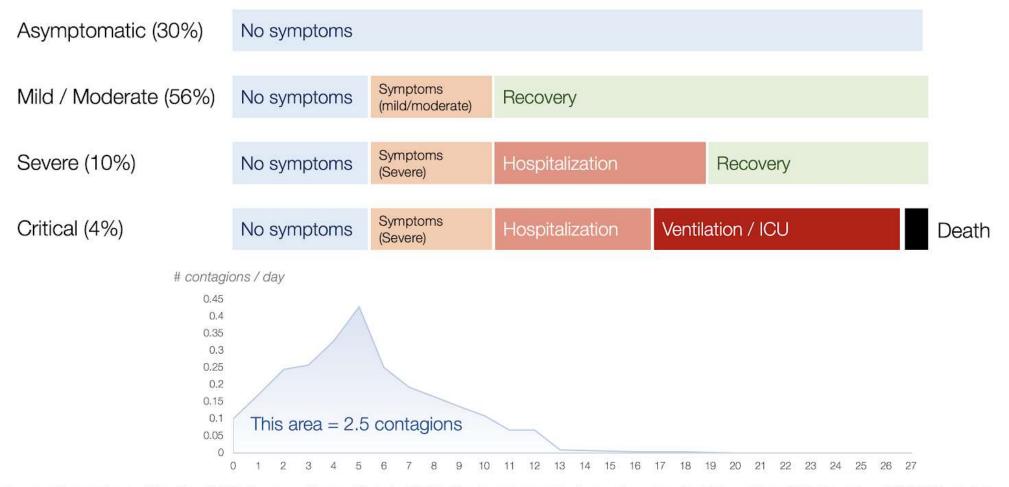


Know How it Spreads



- There is currently no vaccine to prevent coronavirus disease 2019 (COVID-19).
- The best way to prevent illness is to avoid being exposed to this virus.
- The virus is thought to spread mainly from person-toperson.
 - Between people who are in close contact with one another (within about 6 feet).
 - Through respiratory droplets produced when an infected person coughs or sneezes.
- These droplets can land in the mouths or noses of people who are nearby or possibly be inhaled into the lungs.

Chart 14: Transmission Rate during Coronavirus Stages in Patients



Source: Tomas Pueyo, John Hsu, WHO, Eurosurveillance, Medrxiv, ECDC, The Lancet, Impact of non-pharmaceutical interventions (NPIs) to reduce COVID19 mortality and

To prevent COVID-19 it is safest to avoid physical contact when greeting. Safe greetings include a wave, a nod, or a bow.

How should I greet another person to avoid catching the new coronavirus?





#Coronavirus #COVID19







Wear a facemask if you are sick

- If you are sick: You should wear a facemask when you are around other people (e.g., sharing a room or vehicle) and before you enter a healthcare provider's office. If you are not able to wear a facemask (for example, because it causes trouble breathing), then you should do your best to cover your coughs and sneezes, and people who are caring for you should wear a facemask if they enter your room. Learn what to do if you are sick.
- If you are NOT sick: You do not need to wear a facemask unless you are caring for someone who is sick (and they are not able to wear a facemask).
 Facemasks may be in short supply and they should be saved for caregivers.

Surgical mask:

Used to prevent transmission of the virus by people who may be infected or are infected



Used by HCP doing high risk procedures on people who may be infected

Must fit properly

Do NOT buy for personal use!







Surgical mask





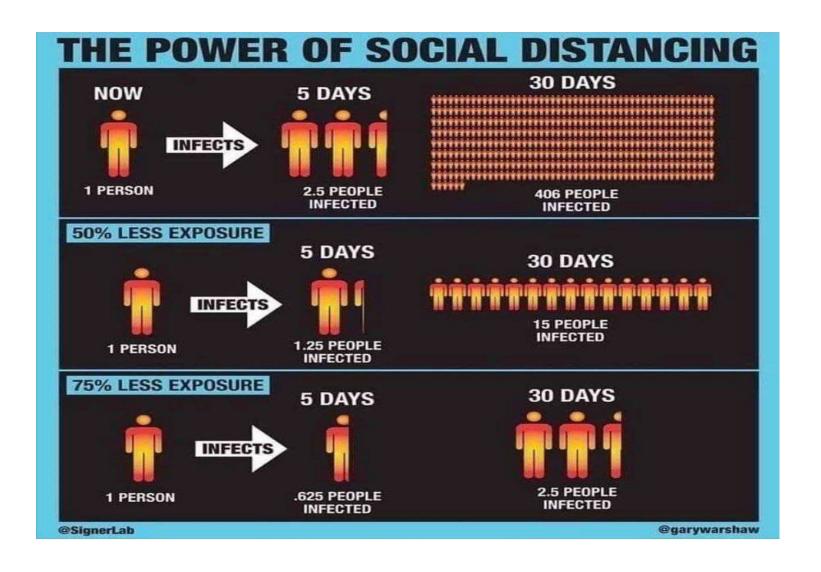


Let's see how social and physical distancing can help

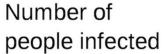
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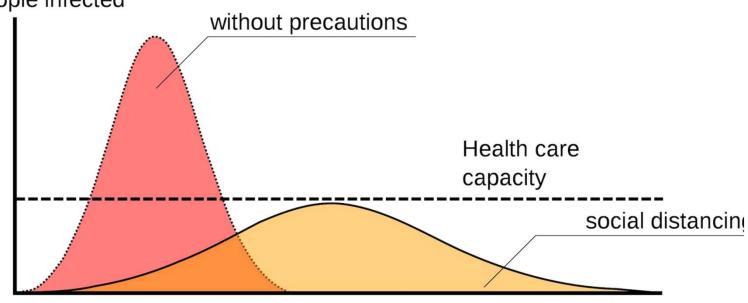
@SIOUXSIEW @XTOTL thespinoff.co.nz

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What is "flattening the curve" and will it work?





Time from the first infection





COVID-19 | STOP the spread

HOW TO PROTECT YOURSELF AND OTHERS

- · WASH your hands often with soap and water (for at least 20 seconds)
- · AVOID touching your face
- STOP greeting people by shaking hands, hugging or kissing
- LIMIT your contact with groups and close contact with people, especially those who are sick (at least 2 meters)
- CANCEL all non-essential and international travel
- · CLEAN high-touch objects and surfaces often

SYMPTOMS TO LOOK FOR











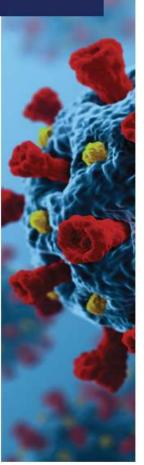
IF YOU ARE SICK

- · STAY home (even if symptoms are mild)
- · COVER coughs and sneezes with your elbow
- · DO NOT visit without CALLING first

Stay home, stop the spread

To learn more, visit canada.ca/coronavirus







Gouvernement du Canada

COVID-19 Symptom Self-Assessment Tool Outil d'auto-évaluation des symptômes COVID-19





When should I seek treatment if I develop symptoms?

If you develop COVID-19 symptoms, such as fever, cough, difficulty breathing:

isolate yourself

AND

Use one of the following options:

- Self-assessment tools on the Ministry of Health websites in your province or the Government of Canada
- Call 311 to reach Public Health: You may be directed to a hospital or a regional assessment center
- Visit your local Emergency Department if you start to experience worsening symptoms such as shortness of breath

KNOW THE DIFFERENCE: SELF-MONITORING, **SELF-ISOLATION, AND ISOLATION FOR COVID-19**

SYMPTOMS OF COVID-19







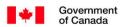


SELF-MONITORING SELF-ISOLATION ISOLATION You have: You have: no symptoms no symptoms symptoms, even if mild AND AND AND a history of possible exposure to the novel coronavirus that causes COVID-19, in the last a history of possible exposure to the novel coronavirus due to travel outside of Canada or you have been diagnosed with COVID-19 or are waiting for the results of a lab test 14 days close contact with a person for COVID-19 diagnosed with COVID-19 SELF-MONITOR means to: To be ISOLATED means to: SELF-ISOLATE means to: monitor yourself for 14 days for one or more symptoms of COVID-19 stay at home until your Public Health Authority advises you that you are no longer at risk of stay at home and monitor yourself for symptoms, even if mild, for 14 days avoid contact with other spreading the virus to others go about your day but avoid crowded places and increase your personal space from others, whenever possible people to help prevent the spread of disease in your home and in your community in the event you become symptomatic avoid contact with other people to help prevent the spread of disease in your home and in your community, particularly people at high risk of severe illness outcomes such as older adults or medically vulnerable people You need to self-monitor if: You need to isolate if: you have reason to believe you have travelled outside of you have been diagnosed you have been exposed to a person with COVID-19 Canada within the last 14 days with COVID-19 your Public Health Authority you are waiting to hear the you are in close contact with has identified you as a results of a laboratory test close contact of someone diagnosed with COVID-19 older adults or medically vulnerable people for COVID-19 vou have been advised to isolate at home for to self-monitor for any other reason by your Public Health Authority any other reason by your Public Health Authority If you develop symptoms, If you develop symptoms, isolate yourself from others immediately If your symptoms get worse, immediately contact your even if mild, stay home, avoid and contact your Public Health other people and contact your healthcare provider or Authority as soon as possible Public Health Authority as soon Public Health Authority and follow their instructions

WE CAN ALL DO OUR PART IN PREVENTING THE SPREAD OF COVID-19. FOR MORE INFORMATION:







Gouvernement du Canada



Canadä^{*}

Vaccine may be at least one year away

There is no evidence yet that the warmer weather will result in less transmission or cases.



More about the virus

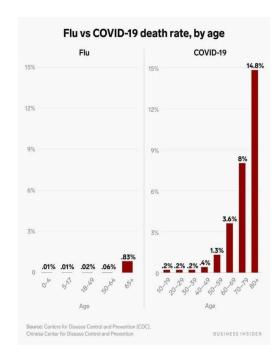
How lethal is this virus?

- Influenza: 0.1%
- COVID-19: estimated 0.7 to 4.3% (South Korea)
- New data China-NEJM-mortality: 0.25 to 3%

Are there effective treatments?

Some are being evaluated:

- Remdesivir
- Lopinavir/ Ritonavir
- Hydroxychloroquine / Chloroquine
- JAK inhibitors (Baricitinib)
- IL 6- inhibitors (Sarilumab and Tocilizumab)





What should I expect if I need to see my doctor about my autoimmune or arthritic condition?

Here are a few tips to keep in mind:

- You will need to call your doctor's office before going in as some offices may be closed or not doing face-to face visits
- Care may be delivered by phone, video or other virtual means in the upcoming days to weeks

However, until we have more information, people should take Tylenol/acetaminophen to treat the symptoms of coronavirus, unless they have been told by their doctor that it is not suitable for them



Should I stop my NSAIDs?

Ibuprofen or prescription anti-inflammatory medications

▼ UPDATED March 18, 2020 with new information — The European Medicines Agency says there is currently "no scientific evidence" that nonsteroidal anti-inflammatory drugs (NSAIDs), such as <u>ibuprofen</u>, could worsen coronavirus disease Endorsed by WHO, FDA (US), NHS (UK)



- Hydroxychloroquine/chloroquine has been showed to inhibit SARS Cov-2 viral replication
- There have also been some anecdotal reports from China (in a news release) of chloroquine treatment success and a small study in France using Hydroxychloroquine.
- There are no clear recommendations that it is to be used in the prevention or treatment of this condition

French study:

20/26 patients

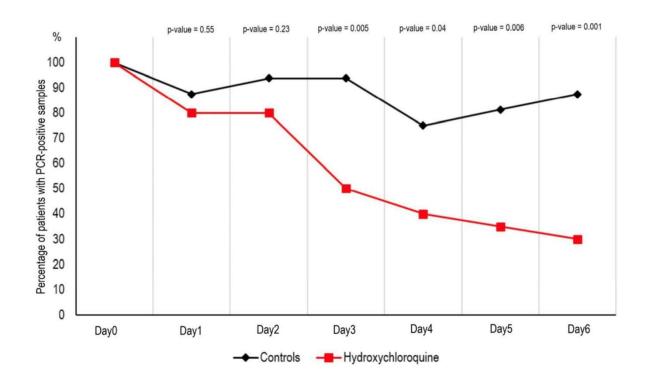
Open-label

After 6 days of treatment with a combination of hydroxychloroquine (200 mg tid) and azithromycin (z pack)

Significantly reduced SARS-CoV-2 viral load

Chinese study has not been published

Figure 1. Percentage of patients with PCR-positive nasopharyngeal samples from inclusion to day6 post-inclusion in COVID-19 patients treated with hydroxychloroquine and in COVID-19 control patients.



Please cite this work as Gautret et al. (2020) Hydroxychloroquine and azithromycin as a treatment of COVID-19: results of an open-label non-randomized clinical trial. International Journal of Antimicrobial Agents – In Press 17 March 2020 – DOI: 10.1016/j.ijantimicag.2020.105949



Ensuring an adequate supply of medications for your rheumatic condition, such as HQ and CQ or biologics

Health Canada Drug Shortage Committee

- ▼ The medications required for patients with specific diseases should be prioritized for them and not be dispensed for prevention purposes until further evidence is available
- March 23 OMA OPA and RNOA issued a statement
 - Ethical and professional practice: Need to ensure the safety of medications prescribed, ensure fairness in the use of resources and give medications based on the <u>best available scientific</u> knowledge



Am I at increased risk due to my autoimmune condition or immunosuppression?

We don't know

- Morbidity is due to immune activation and inflammation.
- Could you have an increased risk of secondary bacterial infection?
- Could immunosuppressive medications protect you?
- Some immunosuppressive therapies are being evaluated in treating serious viral complications.



Should I stop my immunosuppressive therapy at this time to protect me?

- ▼ If you are well NO
- If you have COVID-19 we don't know
 - Recommend usual interruption of DMARDs and JAKs or biologics while you are ill

What if you are receiving a biologic at an infusion center?

Recommendations are to continue to receive medications as prescribed. Some infused medications have an injectable version which you could be switched to, if requested and appropriate.



Table 1. Baseline Characteristics of 21 Patients With Coronavirus Disease 2019 at Presentation to the Intensive Care Unit

Baseline characteristics	No. (%) of patients ^a	Reference range
Preadmission comorbidities		
Asthma	2 (9.1)	
Chronic obstructive pulmonary disease	7 (33.3)	
Congestive heart failure	9 (42.9)	
Diabetes	7 (33.3)	
Rheumatologic disease	1 (4.8)	
Obstructive sleep apnea	6 (28.6)	
Chronic kidney disease	10 (47.6)	
End-stage kidney disease	2 (9.5)	
History of solid organ transplant	2 (9.5)	
Cirrhosis	1 (4.8)	
Immunosuppression ^b	3 (14.3)	
Total with ≥1 comorbidity	18 (85.7)	

Characteristics and outcomes of 21 critically ill patients with COVID-19 - Washington State (March 19)

- A total of 21 cases were included (mean age 70, 52% male) with COVID-19 between Feb. 20 and March 5, 2020
- Comorbidities were identified in 18 cases (86%), with chronic kidney disease, congestive heart failure, COPD and diabetes being the most common.
- 17 patients (81%) were admitted to the ICU less than 24 hours after hospital admission.
- Mechanical ventilation was initiated in 15 patients (71%) (Table 2).
- Acute respiratory distress syndrome (ARDS) was observed in 15 of 15 patients (100%) requiring mechanical ventilation and 8 of 15 (53%) developed severe ARDS by 72 hours.

Defined as outpatient prescription of greater than 10mg/d of prednisone or an equivalent, use of chemotherapy, or use of immunosuppressive agents for solid organ transplant or for an autoimmune disease.



The Global Rheumatology Community's Response to the Worldwide COVID-19 Pandemic

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Physician-Entered Registry

Q

Physician-Entered Registry is Now Available

Update March 24, 2020: The Physician-Entered Registry is now available!

This registry is for healthcare providers to enter data about their rheumatology patients with COVID-19 infections. It is hosted on the REDCap survey platform at UCSF. If you would like to see what kind of data is being collected, please refer to this case report form.

We are incredibly grateful to all of the people and organizations that have supported this effort. Thank you!

Also, a huge congratulations to the hundreds of people and organizations that came together and worked incredibly hard to make this project in such short time.

Our Mission:

Our mission is to create a secure, de-identified, international case reporting registry and curate and disseminate the outputs from that reaistry. It is our hope that the information

Contact

Email us: rheum.covid@gmail.com Twitter: @rheum_covid

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Official Supporters

Want to be listed? Click here.

- American College of Rheumatology (ACR)
- European League Against Rheumatism (EULAR)
- International League of Associations for Rheumatology (ILAR)
- British Society of Rheumatology
- Canadian Rheumatology Association



What should I do while I am at home?

- Work from home if you can.
- Take your medications as prescribed by your doctor.
- Exercise (you can go for a walk staying away from others) and eat healthy. Some gyms have streaming services for classes on demand and stress relief and meditation
- Read a new book, watch a movie, take up a new hobby, learn a language. Enjoy time with your family playing board games or cooking together.



What should I do while I am at home?

- Talk, FaceTime or text with friends and family.
- Limit exposure to others.
 - Ask a family member of friend to get groceries or medications for you and leave them at the front door or get them delivered
- Listen to the advice of your Public Health Agency.
- Check the Arthritis Society
 website for up-to-date and
 credible information
 www.arthritis.ca/covid19





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⟨ Coronavirus disease 2019

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Media resources

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Training

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How to cope with stress during 2019-nCoV outbreak





Download



Reputable websites for information on COVID-19

- Public Health (www.canada.ca/en/publichealth/services/diseases/2019-novel-coronavirus-infection.html)
- Government of Canada (Canada.ca)
- U.S. Centers for Disease Control (CDC.gov)
- World Health Organization (www.who.int/emergencies/diseases/novel-coronavirus-2019)
- Arthritis Society (arthritis.ca)
- Arthritis Consumer Experts (https://jointhealth.org)



Stay Home Stay Healthy Stay Safe



Questions?



Help support future information events

Visit arthritis.ca

