



CURRENT NEWS ON ECOLOGICAL WELLNESS AND GLOBAL HEALTH

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<https://planetaryhealthweekly.com>

April 1,

Hi,

Today I finish teaching a class with 27 great students all doing a three month virtual practicum as a final requirement of their BSc degree York University's School of Global Health. It's been a really great experience and has turned out way better than my initial expectations. After all, how can you do a practicum virtually? Well, we all dug into it and made it happen to a very successful degree. I have seen similar life changes taking place in the students just as I have in previous years when supervising students doing overseas electives. While finishing up this program has taken lots of my time these last days it seems like nothing compared to the bombardment of Covid-19 news, which has overtaken the media even more now than previously.

While there continues to be good and bad Covid-19 news, with vaccine roll out and increasing cases and deaths, respectively, what's really reigning these days is confusion. I'm a scientist and educator for some 35 years now and now completely embarrassed over the way science is being presented to the public, the way it's not being discussed clearly, and the way moderately relevant scientists are being hailed as experts with their words being broadcast far and wide to a increasingly confused public. One thing that does seem certain is the demand for a vaccine. And now at least we have a consensus about the WHO investigation on the origins of the virus, but it too remains mired in doubt, just like some evidence about the positives and negatives of the various vaccines. It is truly a lesson in how not to do public health communication. Trust continues to be heralded as the link to believing scientific communications. But we seem to be losing that battle on a daily basis as Covid numbers rise and government policy and pronouncements about restrictions just either seem contradictory or confusing at best, and changing daily. Sadly, we lack strong and decisive leadership just about everywhere, including the scientific community. It really pains me to hear derogatory remarks about WHO, Health Canada, Public Health Agency of Canada, CDC, FDA, etc. etc. There just doesn't seem to be any agency left with high credibility. Regardless of whose fault it is, leadership needs to step up and pull in the reins and straighten things out, get it together. Both the misinformation campaigns and the agencies' own blunders and lack of outcomes have got us to this state. Those claiming the mantle of scientist must better reach out, keep it simple and be more precise and decisive. Trust needs to be gained and restored and we must all collaborate together.

Afterall, if people just keep continuing to do whatever they want, the virus is more than happy.

In today's ***Planetary Health Weekly*** (#13 of 2021) you'll read more about this uncertainty together with lots of great science and technology; including:

- Deforestation, degradation in Brazilian Amazon hit 12-year high,
- CORONAVIRUS UPDATES:
 - Is it OK to mix and match different vaccines?
 - CBC's Marketplace (TV show) attended a Covid-19 conspiracy boot camp to see how instructors are targeting vaccine skeptics,
 - How right-wing extremists, libertarians and evangelicals built Quebec's movement against Covid-19 restrictions,
 - Police in Germany clash with protesters against virus measures,
 - Philippines renews its coronavirus lockdown in Manila,
 - Deep-rooted mistrust feeds doubt about vaccines,
 - Dr. Upton Allen from Sickkids Hospital leads team assessing Covid-19 prevalence and risk factors among Black Canadian communities,
 - Death in the prime of life: Covid-19 proves especially lethal to younger Latinos,
 - Long Covid affects 7 in 10 patients five months later,
 - U.S. Covid response could have avoided hundreds of thousands of deaths,
 - COVAX (the global Covid vaccine program) shows how far the world has come since the H1N1 pandemic,
 - How the Caribbean can avoid becoming a Covid-19 long-hauler,
 - Why even a small increase in Covid-19 cases is so scary,
 - Over 100 fully vaccinated people contract Covid-19 in Washington state,
 - U.S. and others call for independent study of Covid-19 origin, and
 - Data withheld from WHO team probing Covid-19 origins in China, THEN
- Climate change is weakening the ocean currents that shape weather on both sides of the Atlantic,
- 'No vaccine for climate change' Red Cross warns as disasters kill 410,000 in ten years,
- Canceled Keystone XL pipeline is driving major safety changes in Canadian oil-by-rail,
- What comes next for Trump's border wall?
- A furious industry backlash greets moves by California cities to ban natural gas in new construction,
- Turning trash into natural gas – utilities fight for their future amid climate change,
- A new initiative to fight malnutrition in India,
- Yuval Harari's lessons from a year of Covid,
- Are whistleblowing laws working?
- Black Native American descendants fight for the right to belong,

- A quote from York University student Sumaire Qureshi on the importance of understanding and readiness to learn,
- Two new events on: Evidence based research in LMICs and CPHA's Public Health 2021,
- New movie "To Kid or Not to Kid,"
- Decolonizing international development (15 minute podcast),
- Planetary Health is human health with the PHW's nursing student production manager Julia Chalmers,
- Turkey pulls out of European treaty aimed at protecting women from violence,
- New book: "Fevers, Feuds, and Diamonds – Ebola and the Ravages of History" by Paul Farmer,
- Internet-access spending improves academic outcomes, and
- ENDSHOTS of Spring Beauty amid Covid-19 stats and charts.

Do keep reading. Best, david

David Zakus, Editor and Publisher



Deforestation, Degradation in Brazilian Amazon Hit 12-Year High

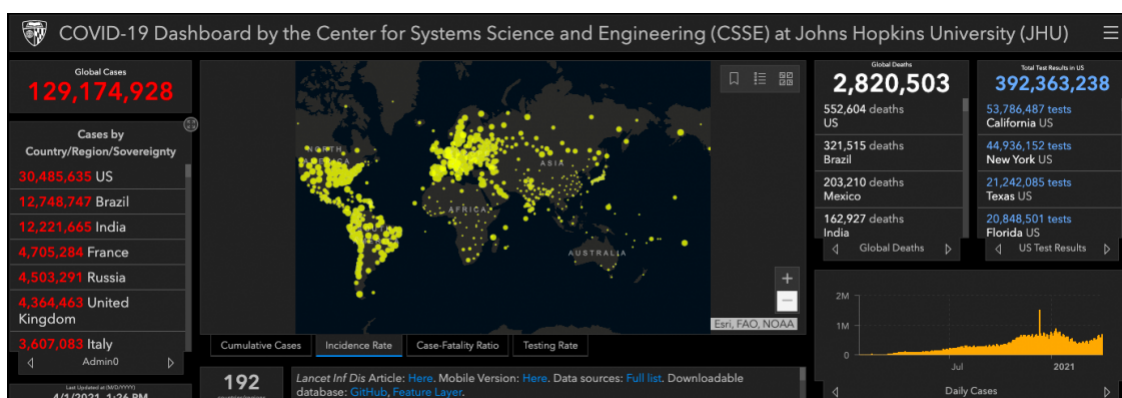


Credit: Reuter Images

Deforestation of the Brazilian Amazon has rocketed to levels not seen since 2008, thanks to the pro-development/anti-regulation regime of President Jair Bolsonaro, further endangering one of the planet's most critical carbon stores. The surge in deforestation comes in the same year that Brazil was scheduled to have fulfilled its 2009 commitment to slow the pace of deforestation to an annual 3,900 square kilometres. And scientists are placing the blame squarely at the doorstep of Bolsonaro, aka "Capitão Motoserra" (Captain Chainsaw), who since taking office in January 2019 has been relentless in his [quest](#) to turn Brazil's Amazon into a factory floor for Big Ag, with soy and wheat being key money-makers for the country.

Many life forms can flourish in one healthy square hectare of rainforest: 310 tree species, 160 bird species, 96 types of epiphytes (mosses), 44 species of fish, 33 types of amphibians, 22 types of reptiles, and 10 types of primates—and in the soil, about a billion invertebrates. Read more at [Energy Mix](#)

SARS-CoV-2 & COVID-19 UPDATES



Globally, it is not getting better; au contraire. In the last week there was a slight increases in cases to 4.1 million and deaths stayed about the same at 71,000. The light at the end of the tunnel, while there, stays dim. All public health measures and vaccine role outs must continue.

(See also ENDSHOTS at the end of this newsletter for more COVID-19 charts and stats.)

"It is the plague in seemingly all sincerity." Bob Woodward

Is It OK To Mix and Match Different Vaccines? Your COVID-19 Questions Answered



Credit: Clodagh Kilcoyne/Reuters

Health officials do not currently recommend receiving different first and second doses of the COVID-19 vaccine. However, a clinical trial out of Oxford University will help to further inform health officials on this matter. Unlike typical clinical trials comparing a vaccine to a placebo shot, the 800 volunteers aged 50 and over in England will either be given:

- A Pfizer "prime" dose followed by a "booster" from AstraZeneca.
- AstraZeneca followed by Pfizer.
- The standard approach of receiving the same vaccine twice as a comparison.

These data could help health officials develop more flexible immunization schedules. Read more at [CBC](#)

SEE MORE COVID-19 STORIES:

At CBC: [CBC's Marketplace Attended a COVID-19 Conspiracy Boot Camp To See How Instructors Are Targeting Vaccine Skeptics](#)

At CBC: [How Right-wing Extremists, Libertarians and Evangelicals Built Quebec's Movement Against COVID-19 Restrictions](#)

At Globe and Mail: [Police in Germany Clash With Protesters Against Virus Measures](#)

At SCMP: [Philippines' Renewed Coronavirus Lockdown in Manila Likely to Sharpen Criticism of Government's Response to Pandemic](#)

At Bloomberg: ['Too Many Questions': Deep-Rooted Mistrust Feeds Doubt About Vaccines](#)

At Sick Kids: [Dr. Upton Allen from Toronto's SickKids Hospital Leads Team Assessing COVID-19 Prevalence, Risk Factors among Black Canadian Communities](#)

At Washington Post: [Death in the Prime of Life: Covid-19 Proves Especially Lethal to Younger Latinos](#)

At Telegraph: [Long Covid Affects Seven in 10 Patients Five Months Later](#)

At Reuters: [U.S. COVID Response Could Have Avoided Hundreds of Thousands of Deaths](#)

At Telegraph: [COVAX Shows How Far The World Has Come Since The H1N1 Pandemic](#)

At IMF: [How the Caribbean Can Avoid Becoming a COVID-19 Long-Hauler](#)

At AppleNews: [Why even a small increase in Covid-19 cases is so scary](#); What can start small can quickly get very big

At WSJ: [U.S. and Others Call for Independent Study of Covid-19 Origin](#)

At Reuters: [Data withheld from WHO team probing COVID-19 origins in China - Tedros](#) Data was withheld from World Health Organization investigators who travelled to China to research the origins of the coronavirus epidemic, WHO Director-General Tedros Adhanom Ghebreyesus said on Tuesday. In its final report, written jointly with Chinese scientists, a WHO-led team that spent four weeks in and around Wuhan in January and February said the virus had probably been transmitted from bats to humans through another animal, and that a lab leak was "extremely unlikely" as a cause.

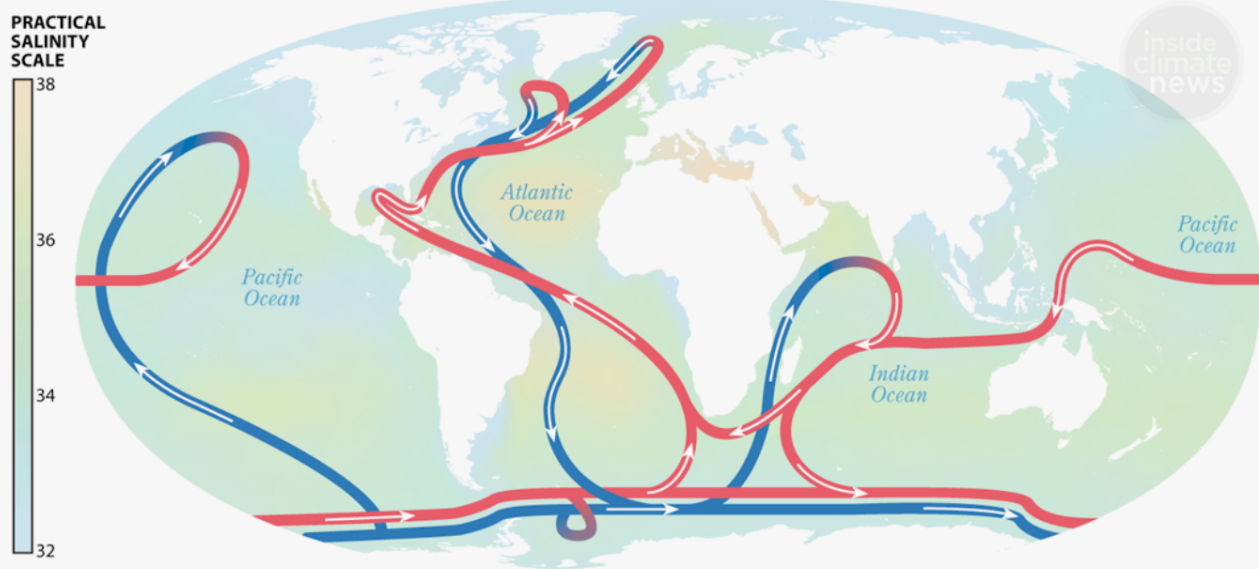
One of the team's investigators has already said China refused to give raw data on early COVID-19 cases to the WHO-led team, potentially complicating efforts to understand how the global pandemic began. "In my discussions with the team, they expressed the difficulties they encountered in accessing raw data," Tedros said. "I expect future collaborative studies to include more timely and comprehensive data sharing."

"The international expert study on the source of the SARS-CoV-2 virus was significantly delayed and lacked access to complete, original data and samples," Australia, Canada, the Czech Republic, Denmark, Estonia, Israel, Japan, Latvia, Lithuania, Norway, Korea, Slovenia, Britain, the United States and the European Union said in a joint statement.

Climate Change is Weakening the Ocean Currents That Shape Weather on Both Sides of the Atlantic

Thermohaline Circulation: The Great Ocean Conveyor Belt

Currents circulate water through the world's oceans like a giant conveyor belt, carrying heat from the tropics toward the poles and sending colder water back in deep ocean currents. Wind, temperature and salinity help drive them. This simplified map shows the pattern.



Credit: NASA

Since the end of the last ice age, a swirling system of ocean-spanning currents has churned consistently in the Atlantic, distributing heat energy along the ocean surface from the tropics toward the poles, with heavy, cold water slowly flowing back toward the equator along the bottom of the sea.

Together with [other studies](#) showing that global warming is driving the weakening, the new findings suggest that the circulation will lose even more strength in the decades ahead. That could cause heat and cold extremes in Europe and rapid sea level rise along the East Coast of the United States. As it weakens, pools of warm water form. That can lead to [ocean heat waves](#), with [increasing evidence](#) that overheating oceans are linked with droughts and heat waves on nearby land areas. Read more at [Inside Climate News](#)

"No Vaccine For Climate Change" Red Cross Warns, As Disasters Kill 410,000 in 10 Years



Credit: Pixabay

"There's no vaccine for climate change" in a world that has seen more than 100 climate disasters since the COVID-19 pandemic was declared, and where 410,000 people have lost their lives to extreme weather and other climate impacts in the last decade, the International Red Cross warned in a report last week. But the climate crisis isn't taking a break during the pandemic. It will have a more significant medium- and long-term impact on human life and on Earth, and will require much more sustained action and investment" of about US\$50 billion per year over the next decade to help 50 developing countries adapt to its impacts. Read more at [Energy Mix](#)

Canceled Keystone XL Pipeline Driving Major Safety Changes in Canadian Oil-by-Rail



Credit: AP Photo/Elaine Thompson

The Biden administration's cancellation of the Keystone XL (KXL) pipeline [in January](#) appears to be driving a revolutionary improvement in Canadian oil-by-rail safety that could protect the public from what have become known as "[bomb trains](#)." Without the KXL pipeline to help transport tar sands bitumen from Alberta to refineries in the United States, Canadian oil producers are turning to trains. And they are using a new technology to help make it more affordable — and less flammable. To do this, they're investing in new technology that removes the flammable component of the diluted bitumen mixture before putting it into rail tank cars. The process is expected to make rail transport as affordable as sending bitumen via pipeline. Read more at [DESMOG](#)

What Comes Next for Trump's Border Wall?



Credit: AP

PHOTO/MATT YORK

When President Joe Biden, on his first day in office, signed an executive order halting the construction of Trump's wall on the US-Mexico border, borderland communities and environmentalists breathed a sigh of relief. Then, they took another deep breath. The pause will last only 60 days, and construction crews are coiled and prepared to resume work as soon as that time is up.

The move is the latest development in a legal battle that has been going on for more than two years. Even if a change in administration and an end to litigation can halt further construction, environmentalists and Native American nations will be struggling for years, if not decades, to repair the damage already done. And for many of the ecosystems of the borderlands, it may be too little, too late. By the time Donald Trump left office, contractors had erected over 450 miles of border wall along the international boundary with Mexico. The San Pedro River, the last free-flowing river in Arizona, was dammed. Springs in the Coronado National Memorial and the San Bernardino National Wildlife Refuge, desert oases for animals and people alike, were pumped dry to mix concrete. And in Organ Pipe Cactus National Monument, iconic saguaro cacti that can grow taller than 60 feet were bulldozed into heaps to make way for a steel barrier half their height. Read more at [Sierra](#)

GOOD NEWS

A Furious Industry Backlash Greet Moves by California Cities to Ban Natural Gas in New Construction



Credit: Smith Collection/Gado/Getty Images

"Environmental advocates and the gas industry are competing to claim momentum in the emerging debate over the future of natural gas in our homes and businesses. Advocates want to make gas "the new coal," and hasten its demise,

while the industry wants to reassure investors and convince the public that the bans are a product of fringe politics that will never reach the mainstream.

On a summer evening in 2019, city leaders in Berkeley, California, adopted a climate policy that inspired dozens of imitators and an even bigger backlash. The famously progressive city was the first in the United States to pass an ordinance that banned natural gas hookups in new construction. Read more at [Inside Climate News](#)

SEE ALSO: [Turning Trash to Natural Gas: Utilities in Washington State Fight for Their Future Amid Climate Change](#)

MORE GOOD NEWS

A New Initiative to Fight Malnutrition in India



Credit: Nutrition International

Nutrition International announced that it will be launching [a new two-year initiative](#) to explore how social safety net programs (SSNPs) in India can be optimized to improve nutrition outcomes. Through this project, Nutrition International will provide guidance and technical advice, and generate evidence to support the governments of Gujarat and Madhya Pradesh to improve and scale up the double-fortified salt and rice fortification programs within their SSNPs. Successful implementation will serve as a model for other state governments to introduce fortified foods into their own social safety net programs. Nutrition International will also support the national government to scale up rice fortification pilots and explore diversification of the food basket provided by SSNPs. Read more at [Nutrition International](#)

OPINION

Yuval Noah Harari: Lessons From a Year

of Covid



Credit: Rafael Heygster

How can we summarize the Covid year from a broad historical perspective? Many people believe that the terrible toll coronavirus has taken demonstrates humanity's helplessness in the face of nature's might. In fact, 2020 has shown that humanity is far from helpless. Epidemics are no longer uncontrollable forces of nature. Science has turned them into a manageable challenge. Why, then, has there been so much death and suffering? Because of bad political decisions. Read more at [Financial Times](#)

SPOTLIGHT ON POLICY

Are Whistleblowing Laws Working? IBA and Government Accountability Project Publish Landmark Report



Credit: Adobe/freshidea

Although today, 48 – almost a quarter of the world’s countries – have a standalone, national whistleblowing law compared to none in 1978, a new report from the International Bar Association illustrates that whistleblowers have too often found that rights which look impressive on paper offer minimal protection in practice. The report’s core recommendation is to draft laws that reflect global best practices and implement them in good faith. However, the report also notes that best practice laws will be ineffective without public support for, and oversight of, these rights, and that that is not possible without transparency and education. Read more at [IBA](#)

SPOTLIGHT ON INDIGENOUS WELLNESS

The Black Native American Descendants Fighting for the Right to Belong



America Cohee-Webster, circa 1965, left, and Willie Cohee, circa 1896. Credit Rhonda

Grayson

For more than 40 years, Black Creek descendants have been fighting to regain citizenship in the Creek tribe. Because their lineage also harks back to the dark days of chattel slavery, these would-be members of the Creek Nation have been shut out. In a year marked by historic uprisings in support of Black lives, these Black Native Americans say now is the time to acknowledge their rights, too. Read more at [NBC News](#)

Quote Of The Week

“As someone who is going to be graduating in April with a global health degree, I think it’s crucial to come from a place of understanding and a place ready to learn, because without this approach we cannot learn and we would lose our chance to be knowledgeable or insightful about things that are important to us. We lose the chance to potentially make a difference in the world.”

Sumaire Quereshi, Graduating BSc Student, School of Global Health, York University, Toronto from IHST4300 Journal/Blog #3

Upcoming Events

- April 8-11, 2021: [Global Health & Innovation Conference](#) (Virtual Event)
- April 25-30, 2021: [Planetary Health Week](#) (A Free Virtual Conference-Festival)
- May 31 - June 18, 2021: [The McGill Summer Institute of Infectious Diseases and Global Health](#) (100% online from McGill University, Montreal, Canada)

- May 28-29, 2021: Virtual Spotlight Telemedicine International Summit on Innovation & Technology
 - June 7-9, 2021: [Executive Course: Global Health Diplomacy](#) (Dalla Lana School of Public Health, University of Toronto, Canada)
 - September 16-18, 2021: [North American Refugee Health Conference \(NARHC\)](#) (Faculty of Medicine, University of Toronto). This year's conference will be offered completely online.
 - September 27 - October 1, 2021: [12th European Congress On Tropical Medicine And International Health: Global Challenges In Health, Migration And Equity](#)
 - October 6-8, 2021: [Public Health 2021: Annual conference of the CPHA](#)
 - November 1-12, 2021: [2020/2021 UN Climate Change Conference](#) UNFCCC COP26 - Postponed in 2020 and now to be held November, 2021 (Glasgow, Scotland).
 - November 11, 2021: [Evidenced Based Research Being Carried Out in Low and Middle Income Countries](#) ADAPT will host their second online conference for Physios in Global Health. This year's theme will be 'Evidenced Based Research Being Carried Out In LMIC'.
- If you would like to contribute to this event, please contact ADAPT research officer: fiona@developingphysio.com

FYI#1 SPOTLIGHT ON MEDIA

To Kid or Not to Kid- the Movie

**TO KID OR
NOT TO KID**

From the award-winning director of the New York Times Critics' Pick *Musicwood*, To Kid Or Not To Kid bravely plunges into an aspect of reproductive choice often considered too taboo to discuss, asking the

question “Why can’t we talk about not having kids?” Tired of being made to feel like “a waste of a uterus,” one woman fights back for her right to decide whether to live a life openly without having kids.

Read and See More at [To Kid or Not to Kid](#)

FYI #2

Decolonizing International Development (15 minute podcast)



Credit: ODI Bites

"The international development sector has faced repeated calls for its decolonisation over several years, both in theory and practise. However, hegemonic understandings of development and who it should serve continue to dominate. Despite not being a new debate, too often there are issues with sources of funding, power dynamics in methodology and bias in profiling of research. There is an urgent need to reflect on what is understood by decolonising development and how we can undertake research through a decolonisation lens.

In this episode, we reflect on what decolonising development means and how we should be rethinking our research practises to truly make an impact within the communities we operate, and elevate the voices needed to build for the future.

ODI Bites is our new series set on giving you big ideas, easy to digest. These series of online conversations feature leading ODI experts exploring dynamic new research, thought leadership, and responses to global challenges.

Listen at ODI Bites

FYI #3

Planetary Health is Human Health



A nursing student from the University of the Fraser Valley joins the PHW team!!

In her final year of the Bachelor of Science Nursing (BSN) program, Julia Chalmers has a passion for planetary health.

“Planetary health examines how the declining health of our planet due to climate change, biodiversity loss, pollution, and food and water insecurity threatens the health of humans,” she explains. “Ultimately, those most vulnerable in our local and global communities – such as Indigenous peoples and those living in absolute and relative poverty – will be most negatively affected by climate change. To me, this makes climate change and planetary health a social justice issue, and therefore something that nurses need to be acutely aware of, and actively involved in.”

[Read More at UniversityFraserValley Blogs](#)

FYI #4

President Erdogan Pulls Turkey out of European Treaty Aimed at Protecting Women from Violence



President Recep Tayyip Erdogan issued a surprise decree two weeks ago withdrawing Turkey from a landmark European treaty that women's rights groups said had played a critical role in protecting Turkish women from gender-based violence. The treaty, the Istanbul Convention, sought in part to ensure equal legal protections against abuse for women across Europe. Turkey was the first country to sign the convention in 2011 when Erdogan was prime minister. But some conservative Muslims who form a critical bloc of support for the Turkish leader had criticized the treaty from the start, framing it as part of a Western plot aimed at harming the country's traditional notions of family and encouraging divorce.

[Read More on Washington Post](#)

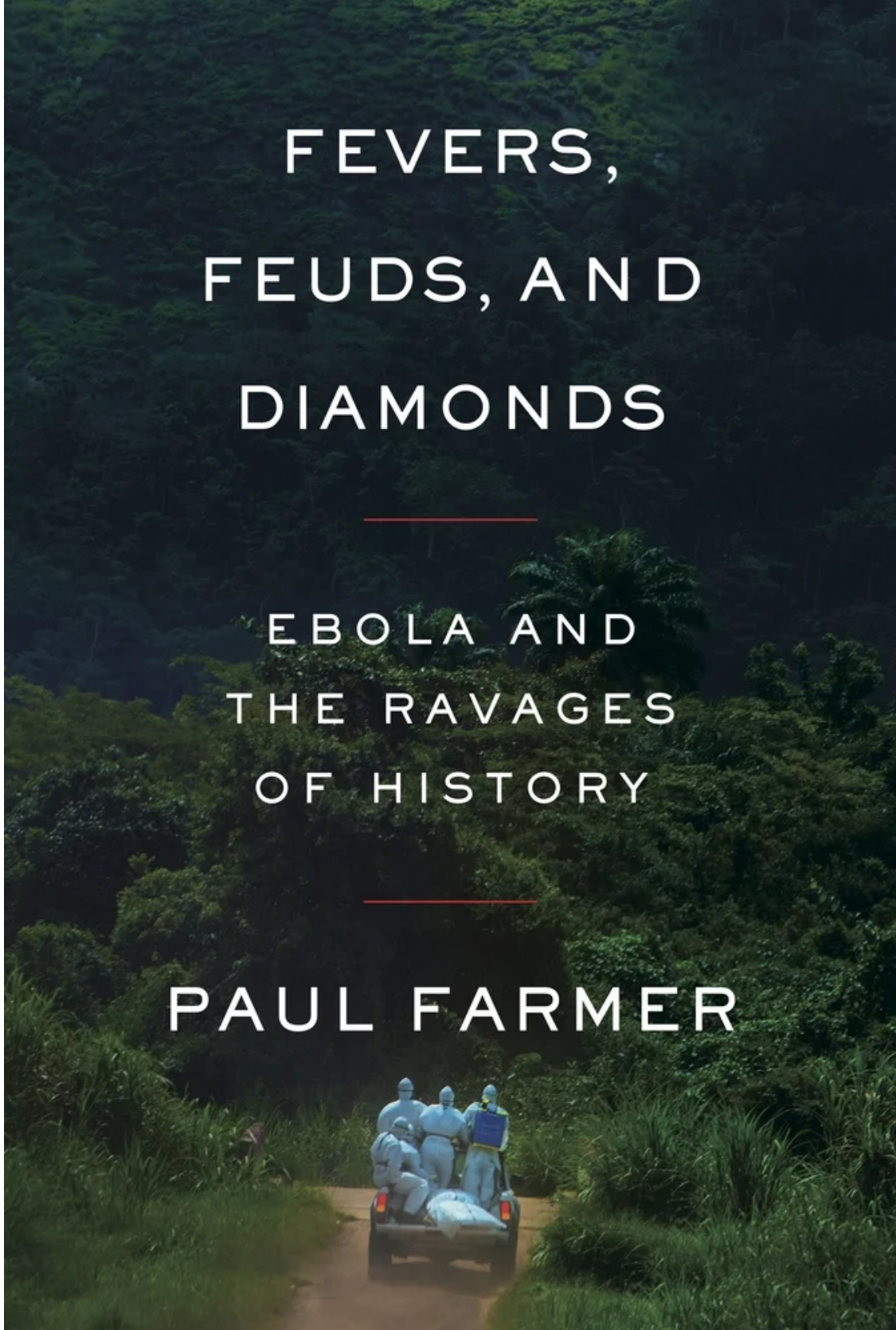
FYI #5: FIRST OF APRIL READING

Fevers, Feuds, and Diamonds- Ebola and the Ravages of History By Paul Farmer

FEVERS, FEUDS, AND DIAMONDS

EBOLA AND
THE RAVAGES
OF HISTORY

PAUL FARMER



Credit: Book Cover

In 2014, Sierra Leone, Liberia and Guinea suffered the worst epidemic of Ebola in history. The brutal virus spread rapidly through a clinical desert where basic health-care facilities were few and far between. Causing severe loss of life and economic disruption, the Ebola crisis was a major tragedy of modern medicine. But why did it happen, and what can we learn from it?

Paul Farmer, the internationally renowned doctor, educator and anthropologist, experienced the Ebola outbreak firsthand—Partners in Health, the organization he founded, was among the international responders. In *Fevers, Feuds, and Diamonds* he offers the first substantive account of this frightening, fast-moving

episode and its implications. In vibrant prose, Farmer tells the harrowing stories of Ebola victims while showing why the medical response was slow and insufficient. Rebutting misleading claims about the origins of Ebola and why it spread so rapidly, he traces West Africa's chronic health failures back to centuries of exploitation and injustice. Under formal colonial rule, disease containment was a priority but care was not – and the region's health care woes worsened, with devastating consequences that Farmer traces up to the present. This thorough and hopeful narrative is a definitive work of reportage, history and advocacy, and a crucial intervention in public-health discussions around the world.

[Read More at MacMillan Books](#)

FYI#6: SPOTLIGHT ON EDUCATION

Internet-Access Spending Improves Academic Outcomes, According to Study of Texas Public Schools



Credit: Getty Images

Increased internet-access spending by Texas public schools improved academic performance but also led to more disciplinary problems among students, a study of 9,000 schools conducted by a research team from Rice University, Texas A&M University and the University of Notre Dame shows.

The team found that increased school district internet spending is associated with not only improved graduation rates, but also higher numbers of students meeting SAT/ACT criterion and completing advanced courses. It also led to an improvement in commended performance in math, reading, writing and social studies. Interestingly, the researchers noted these improvements were stronger for students who lived in counties with greater internet access (as measured by the number of broadband providers).

On the flip side, increased school district internet spending also led to higher rates of disciplinary problems at schools, they said.

The team also calculated how much economic benefit a school district's internet access will bring students during their lifetimes. It found that a \$600,000 increase in annual internet-access spending produces a financial gain of approximately \$820,000 to \$1.8 million per school district, together with losses from disciplinary problems totalling \$25,800 to \$53,440. In other words, investments in internet access are well worth the costs."

[Read more at Science Daily](#)

ENDSHOTS

SPRING BEAUTY

Amid COVID-19 Stats and Charts

WHITEFISH LAKE, HUMPHREY, ONTARIO

March 26 - April 1, 2021



COVID-19 CORONAVIRUS PANDEMIC

Last updated: April 01, 2021, 17:28 GMT

[Graphs](#) - [Countries](#) - [News](#)

Coronavirus Cases:

129,849,213

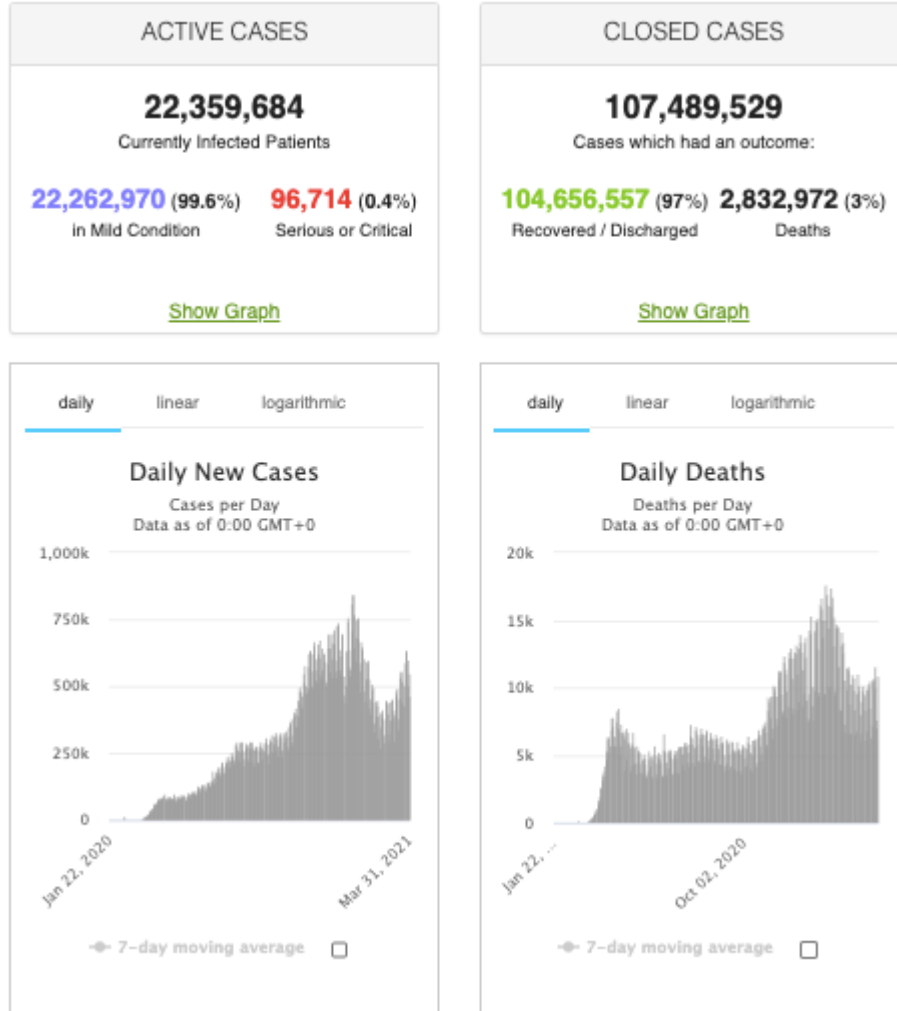
[view by country](#)

Deaths:

2,832,972

Recovered:

104,656,557



Source: <https://www.worldometers.info/coronavirus/>



COVID-19 CASES & DEATHS (March 26 - April 1, 2021) Source:
https://www.washingtonpost.com/graphics/2020/world/mapping-spread-new-coronavirus/?itid=sf_coronavirus

More than 2,820,000 people have died from the coronavirus worldwide

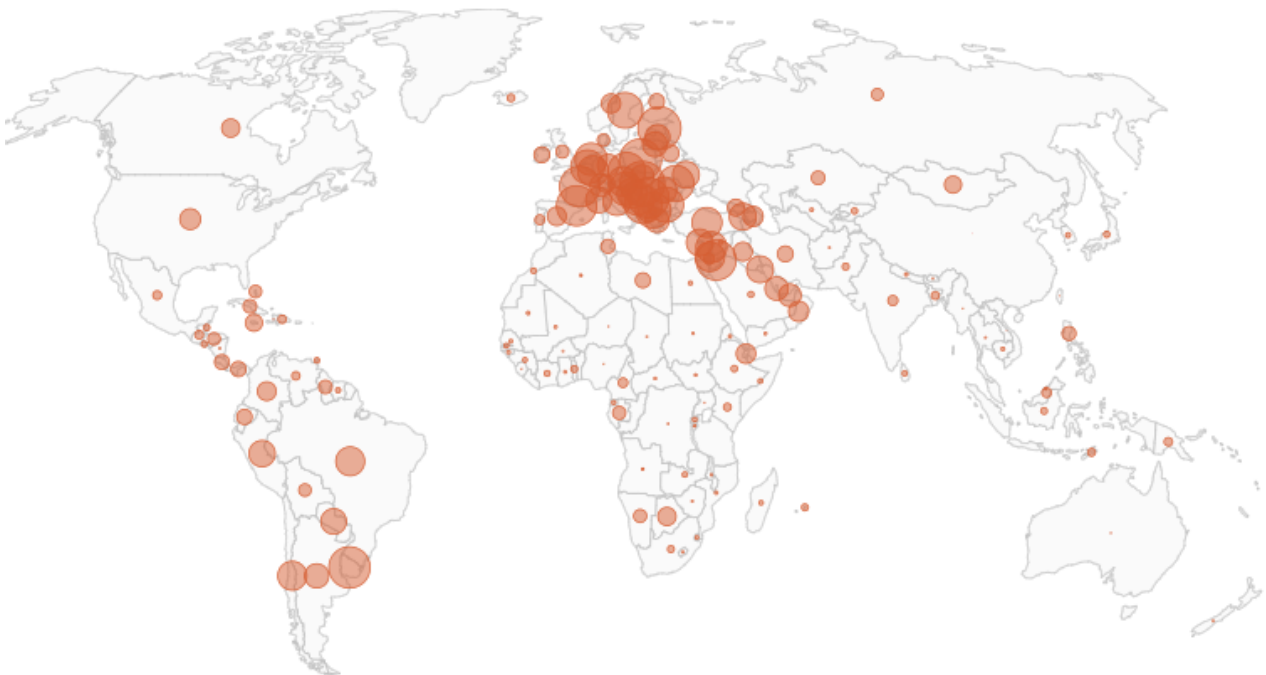
More than **129 million** cases have been reported.

Data as of April 1 at 1:30 p.m.

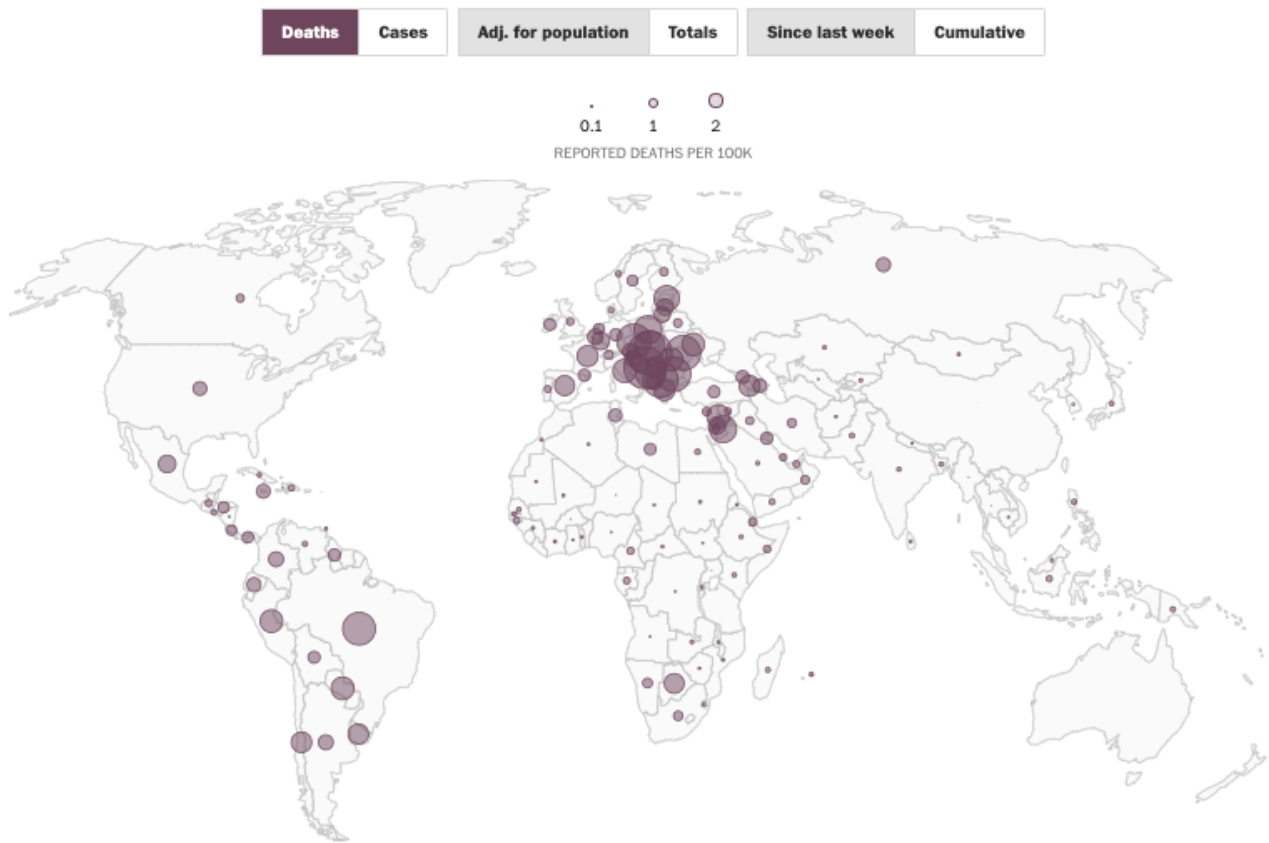
Where the virus is surging

Deaths	Cases	Adj. for population	Totals	Since last week	Cumulative
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5 25 100
REPORTED CASES PER 100K



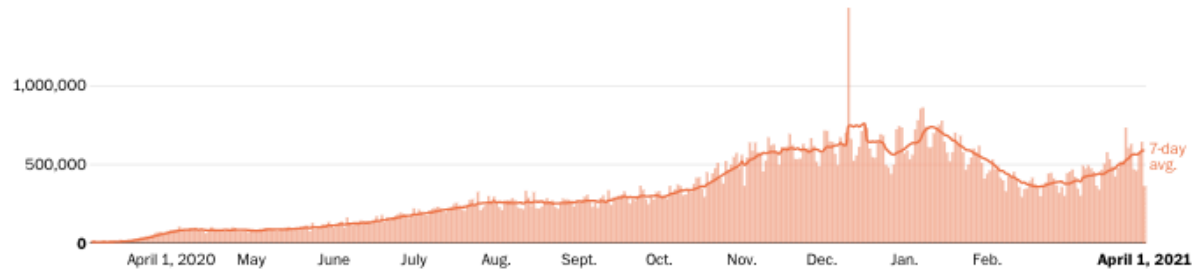
Where the virus is surging



New daily reported cases across the world

Deaths Cases

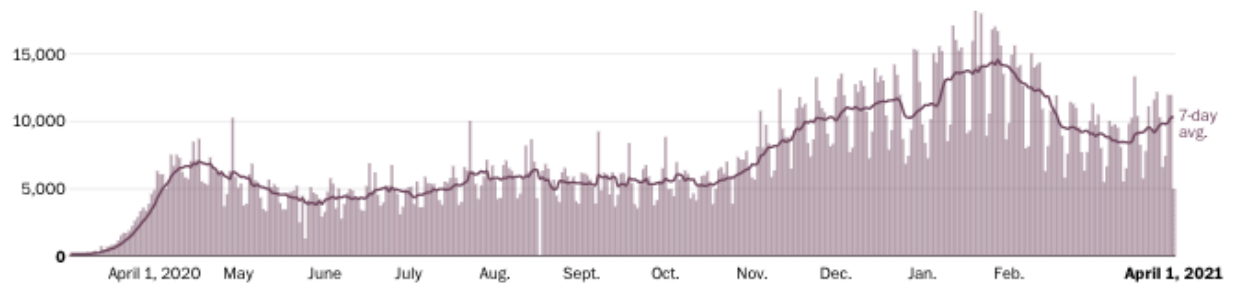
At least 129,104,247 have been reported since Feb. 29.



New daily deaths reported across the world

Deaths Cases

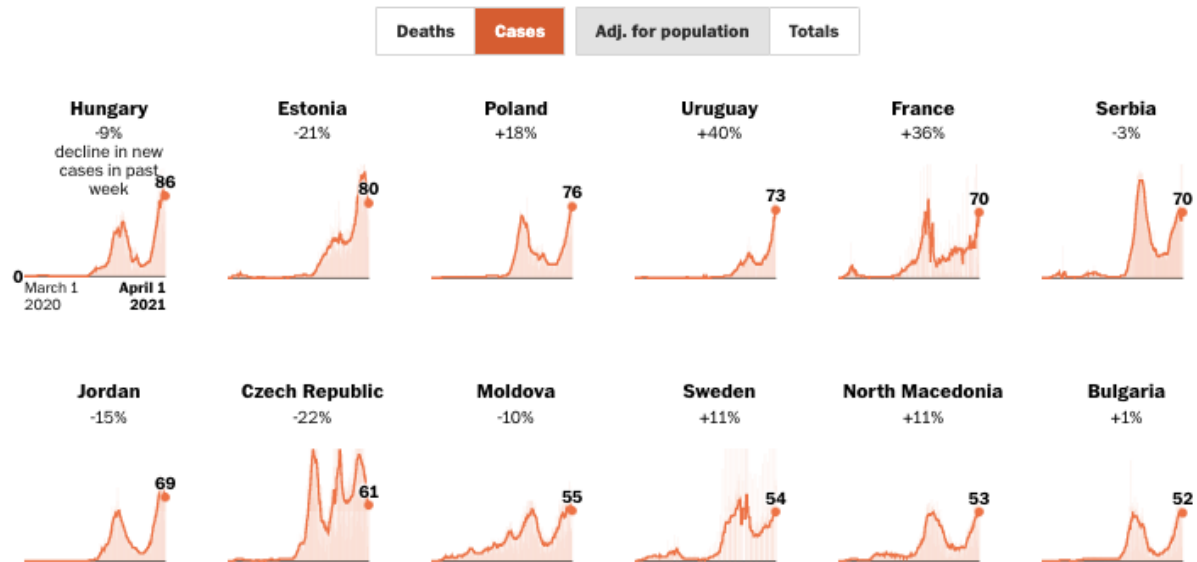
At least 2,820,355 have been reported since Feb. 29.





Global hot spots for reported cases per capita

— 7-day rolling average of daily new reported cases per 100,000 residents



Note: Only countries with a population of more than 1 million are shown.

Global hot spots for reported deaths per capita

— 7-day rolling average of daily new deaths per 100,000 residents





Doses of covid-19 vaccines administered per 100,000 residents



Doses of covid-19 vaccines administered per 100,000 residents

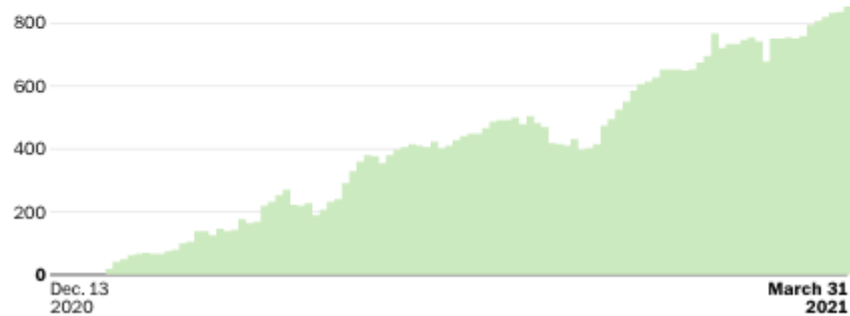
Adj. for population

Totals

Reported doses administered per day

Show by

U.S.



Country	Total doses given per 100k	Pct. of pop. partially vaccinated	Pct. of pop. completed vaccination
Israel	110,788	57.9%	52.9%
Seychelles	102,249	64.8%	37.5%
UAE	85,036	-	-
Chile	55,201	35.9%	19.3%
Britain	52,389	46.2%	6.1%
Bhutan	49,722	49.7%	-
Monaco	46,404	25.0%	21.4%
U.S.	46,275	30.0%	16.9%
Bahrain	45,036	30.0%	15.0%
Maldives	43,977	-	-
Malta	43,420	31.3%	12.1%
Serbia	35,197	20.6%	14.6%
Hungary	29,203	21.1%	8.1%
Qatar	28,830	-	-
Antigua and Barbuda	26,983	-	-
Singapore	22,544	16.1%	6.4%
Dominica	22,306	22.3%	-
Barbados	22,170	22.2%	-
Morocco	21,920	11.8%	10.1%
Iceland	20,200	13.6%	6.6%
Estonia	19,681	15.0%	4.7%
Uruguay	19,440	18.0%	1.5%
Denmark	19,083	12.6%	6.5%
Turkey	18,980	10.8%	8.2%
Lithuania	18,490	12.5%	5.9%
Austria	18,153	13.3%	4.8%
Slovakia	17,996	13.2%	4.8%
Finland	17,780	16.2%	1.6%
Slovenia	17,612	12.2%	5.5%

Norway	17,320	12.2%	5.1%
Spain	17,068	11.3%	5.8%
Italy	16,915	11.6%	5.3%
Switzerland	16,694	10.5%	6.2%
Germany	16,567	11.6%	5.0%
Ireland	16,322	11.8%	4.6%
Portugal	16,290	11.7%	4.6%
Saint Kitts and Nevis	16,117	16.1%	–
Poland	16,017	10.7%	5.3%
Czechia	15,986	11.2%	4.8%
France	15,977	11.9%	4.0%
Greece	15,862	10.2%	5.7%
Belgium	15,715	11.2%	4.5%
Sweden	15,668	10.9%	4.7%
Romania	15,654	10.3%	5.4%
Canada	15,138	13.3%	1.8%
Luxembourg	14,934	11.4%	3.5%
Liechtenstein	14,390	–	–
Kuwait	14,377	–	–
Netherlands	13,723	9.7%	4.0%
Saudi Arabia	12,884	–	–
Andorra	12,040	–	–
Cyprus	10,799	7.8%	3.0%
Croatia	10,581	8.6%	2.0%
Mongolia	9,313	–	–
Greenland	9,124	7.0%	2.1%
Brazil	9,077	7.1%	2.0%
Argentina	8,661	7.2%	1.5%
Panama	8,574	5.8%	2.7%
China	8,573	–	–
Dominican Republic	8,482	8.0%	0.5%

Canada is in 45th place globally for vaccines given per capita (47th last week)



Compare countries by new daily reported cases per 100k

Deaths

Cases

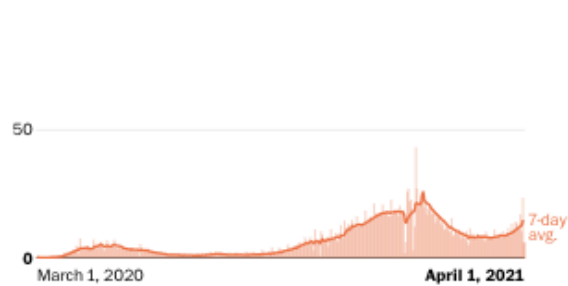
Adj. for population

Totals

Select a country:

Canada

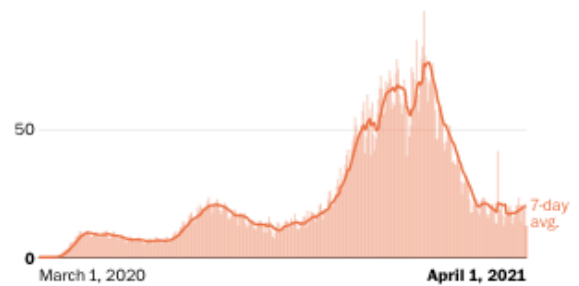
At least 990,837 have been reported since Feb. 29.



Select a country:

U.S.

At least 30,460,466 have been reported since Feb. 29.



Compare countries by new daily deaths reported per 100k

Deaths

Cases

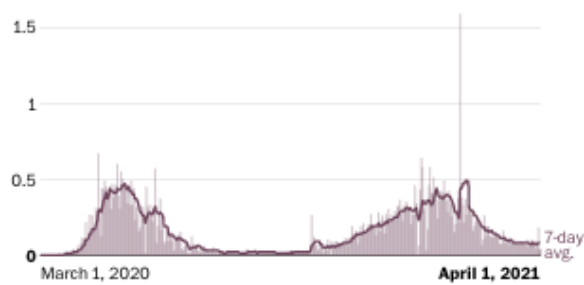
Adj. for population

Totals

Select a country:

Canada

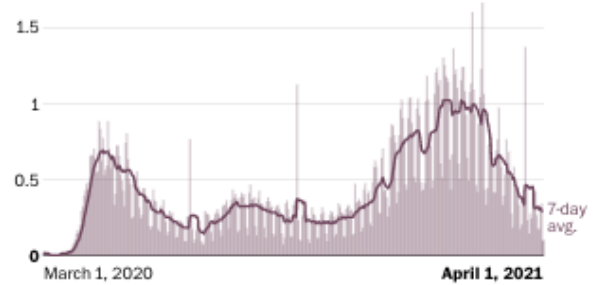
At least 22,973 have been reported since Feb. 29.



Select a country:

U.S.

At least 553,042 have been reported since Feb. 29.



Case and death counts by country

Deaths

Cases

Adj. for population

Totals

Jump to a country:

U.S.

Country	Reported cases per 100k	New cases in last 7 days per 100k	Change in daily cases in last 7 days
Andorra	15,624	482	▲ 27%
Montenegro	14,662	429	▼ -17%
Czech Republic	14,430	429	▼ -22%
Slovenia	10,390	336	▲ 13%
Luxembourg	9,944	280	▲ 13%
U.S.	9,325	130	▲ 11%
Israel	9,206	34	▼ -42%
Serbia	8,717	489	▼ -3%
Moldova	8,663	386	▼ -10%
Panama	8,361	70	▼ -3%
Estonia	8,085	559	▼ -21%
Portugal	8,007	29	▼ -7%
Sweden	7,906	378	▲ 11%
Lithuania	7,787	183	▲ 18%
Belgium	7,684	346	▲ 25%
Georgia	7,587	84	▲ 21%
Netherlands	7,504	312	▲ 7%
Switzerland	7,033	152	▲ 15%
Liechtenstein	7,023	89	▲ 55%
France	7,017	493	▲ 36%
Spain	6,977	106	▲ 41%
Lebanon	6,832	287	▼ -9%
Hungary	6,773	601	▼ -9%

Canada is in 62nd place globally for cases per capita

Case and death counts by country

Deaths

Cases

Adj. for population

Totals

Jump to a country:

U.S.

Country	Reported deaths per 100k	New deaths in last 7 days per 100k	Change in daily deaths in last 7 days
Czech Republic	249	10.9	▼ -13%
Hungary	215	18.3	▲ 12%
Montenegro	205	8	0%
Bosnia	202	16.1	▲ 28%
Belgium	200	2.2	▲ 32%
Slovenia	194	2.5	0%
Britain	190	0.5	▼ -36%
Bulgaria	189	11.2	▲ 13%
Moldova	187	11.3	▲ 30%
North Macedonia	183	11.3	▲ 38%
Italy	182	5	▲ 2%
Slovakia	179	8.4	▼ -8%
U.S.	169	1.7	▼ -6%
Portugal	164	0.4	▼ -39%
Spain	160	3.6	▲ 14%
Peru	160	4.7	▲ 35%
Mexico	159	2.8	▼ -1%
Brazil	152	9.9	▲ 30%
Andorra	149	1.3	—
Liechtenstein	147	0	—
Croatia	147	2.9	▲ 6%
Panama	144	1.2	0%
France	143	4	▲ 60%

Canada is in 56th place globally for deaths per capita



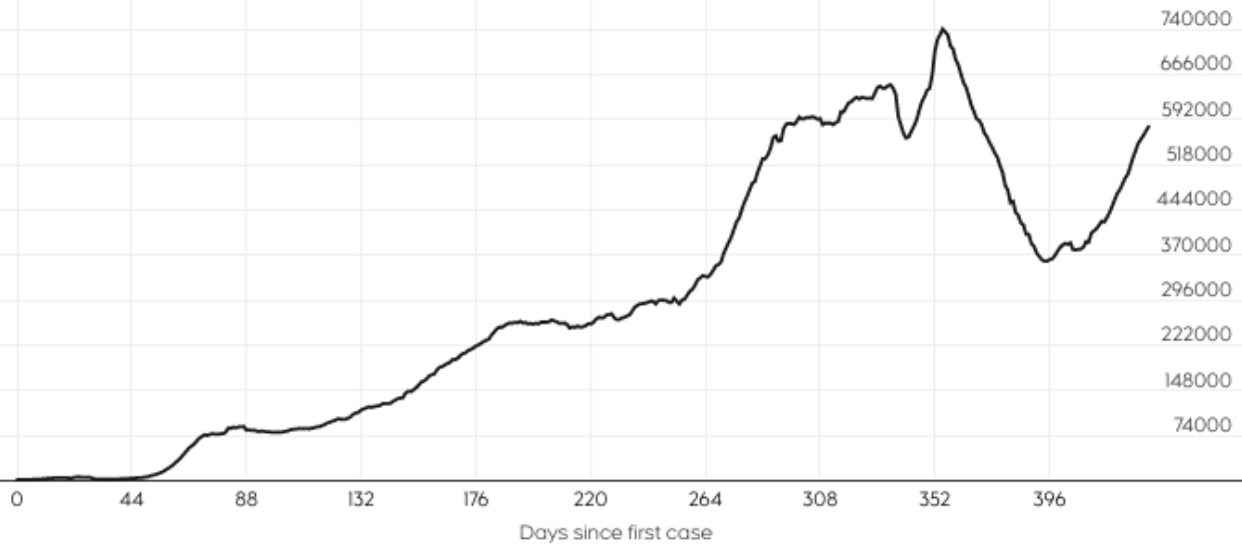
Source of World and Canadian Data Below (April 1, 2021):

<https://www.ctvnews.ca/health/coronavirus/covid-19-curves-compare-canada-and-other-key-nations-1.4881500#link-top>

COVID-19 Cases (7-day avg)

Cases Deaths Total Daily 7-Day Raw /100K

— World



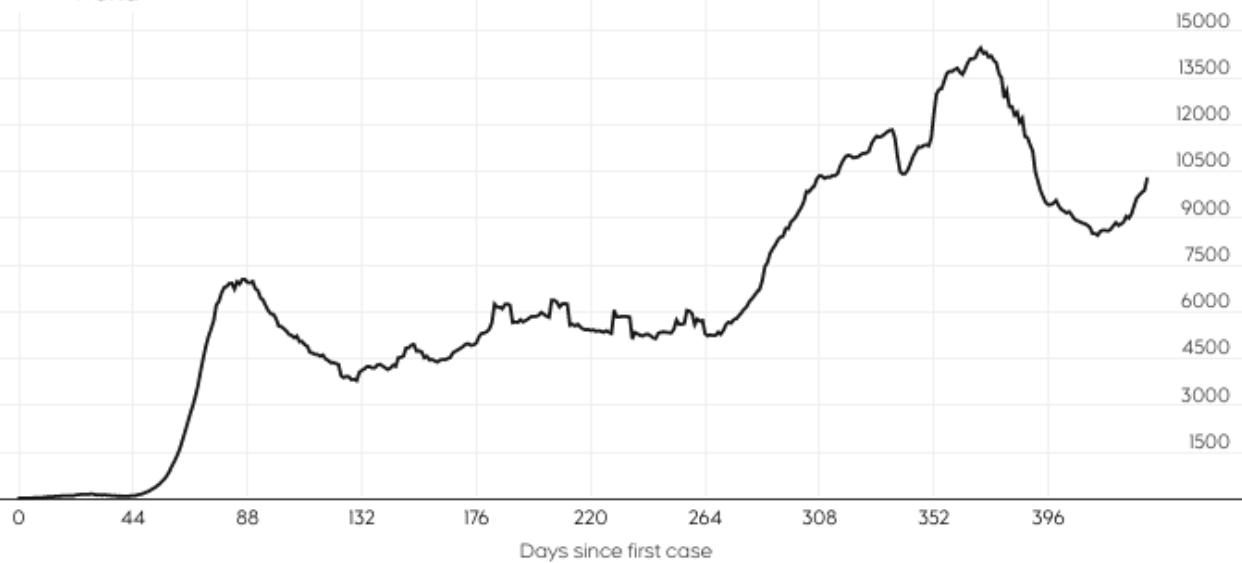
Source: Johns Hopkins University (JHU) via Our World in Data

CTV NEWS

COVID-19 Deaths (7-day avg)

Cases Deaths Total Daily 7-Day Raw /100K

— World



Source: Johns Hopkins University (JHU) via Our World in Data

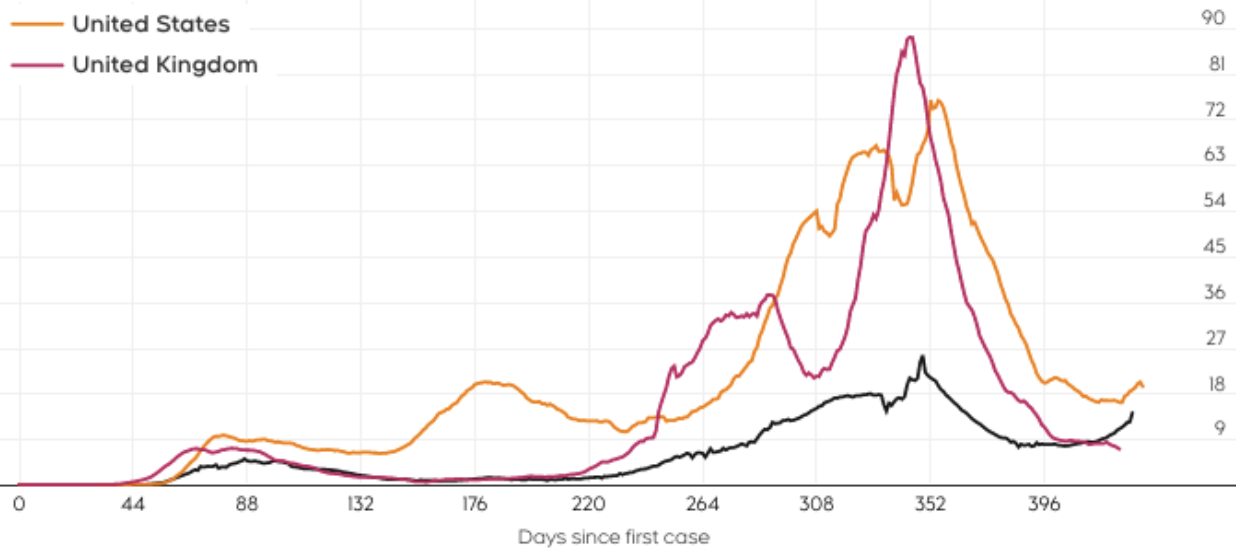
CTV NEWS



COVID-19 Cases (7-day avg, per 100K)

Cases Deaths Total Daily 7-Day Raw /100K

— Canada
— United States
— United Kingdom



Choose regions

Canada

United States

United Kingdom

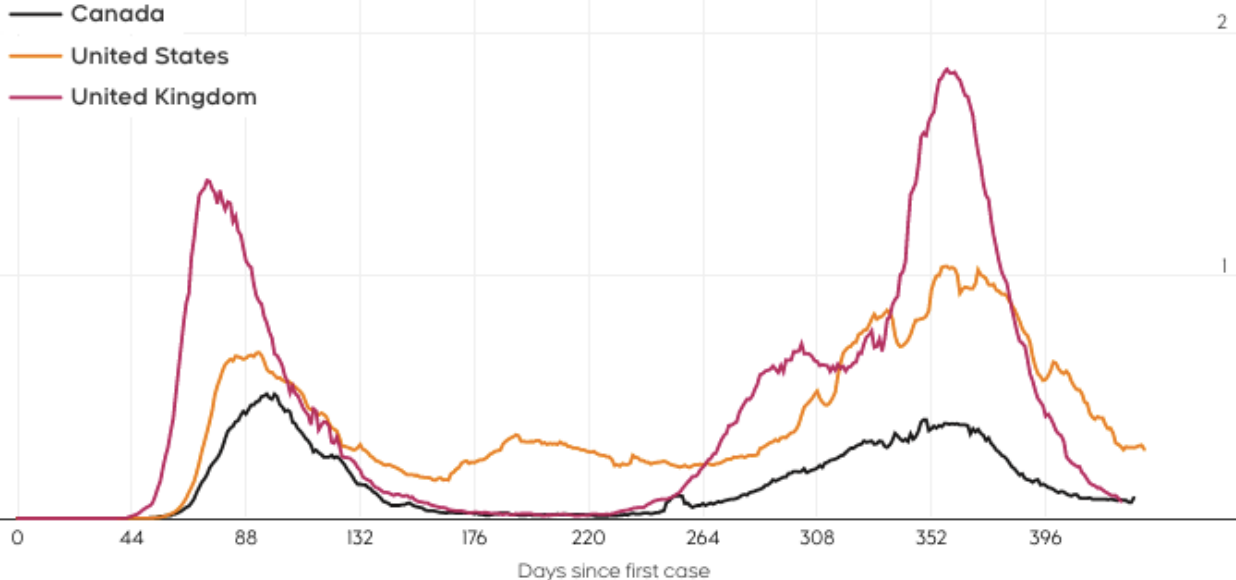
Source: [Johns Hopkins University \(JHU\)](#) via [Our World in Data](#)

CTV NEWS

COVID-19 Deaths (7-day avg, per 100K)

Cases Deaths Total Daily 7-Day Raw /100K

— Canada
— United States
— United Kingdom



Choose regions

Canada

United States

United Kingdom

Source: [Johns Hopkins University \(JHU\)](#) via [Our World in Data](#)

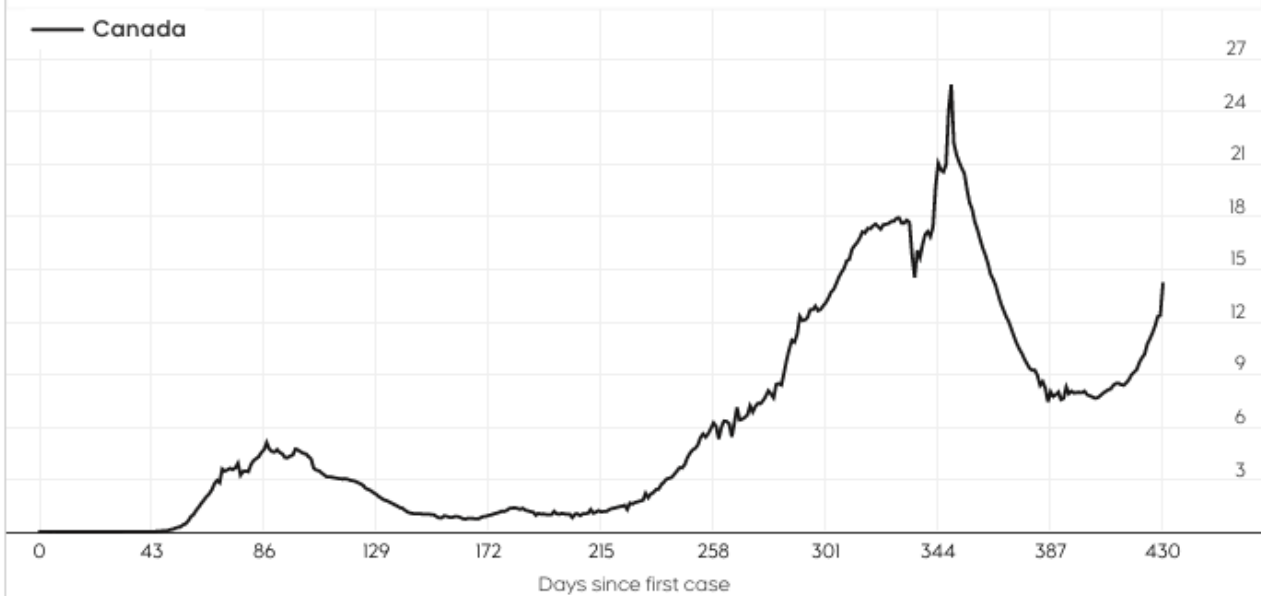
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COVID-19 Cases (7-day avg, per 100K)

Cases Deaths Total Daily 7-Day Raw /100K

— Canada



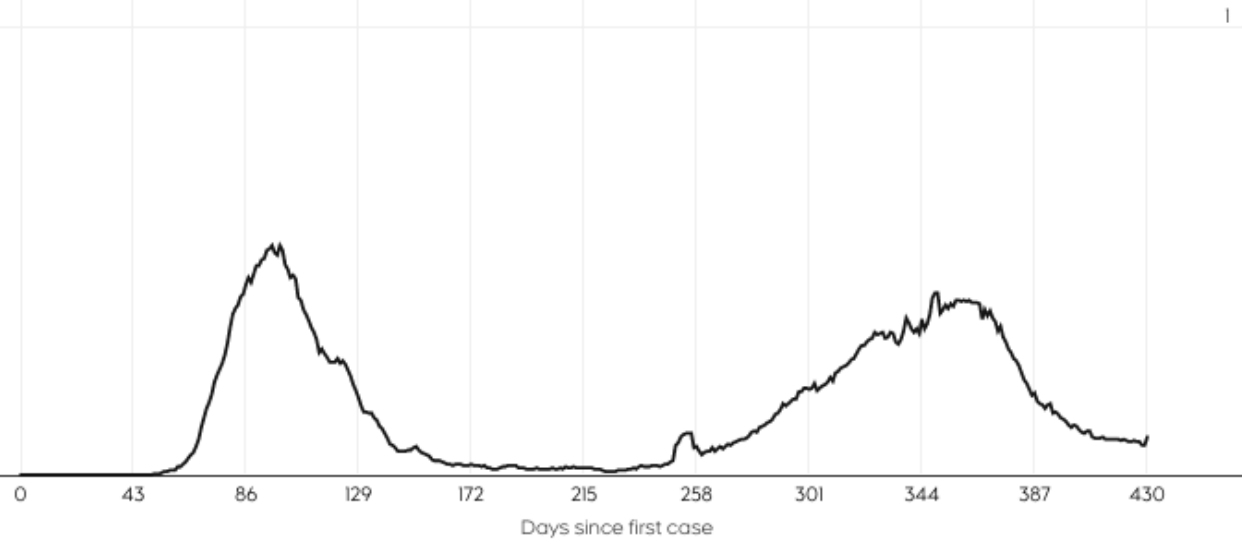
Source: [Johns Hopkins University \(JHU\)](#) via [Our World in Data](#)

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COVID-19 Deaths (7-day avg, per 100K)

Cases Deaths Total Daily 7-Day Raw /100K

— Canada



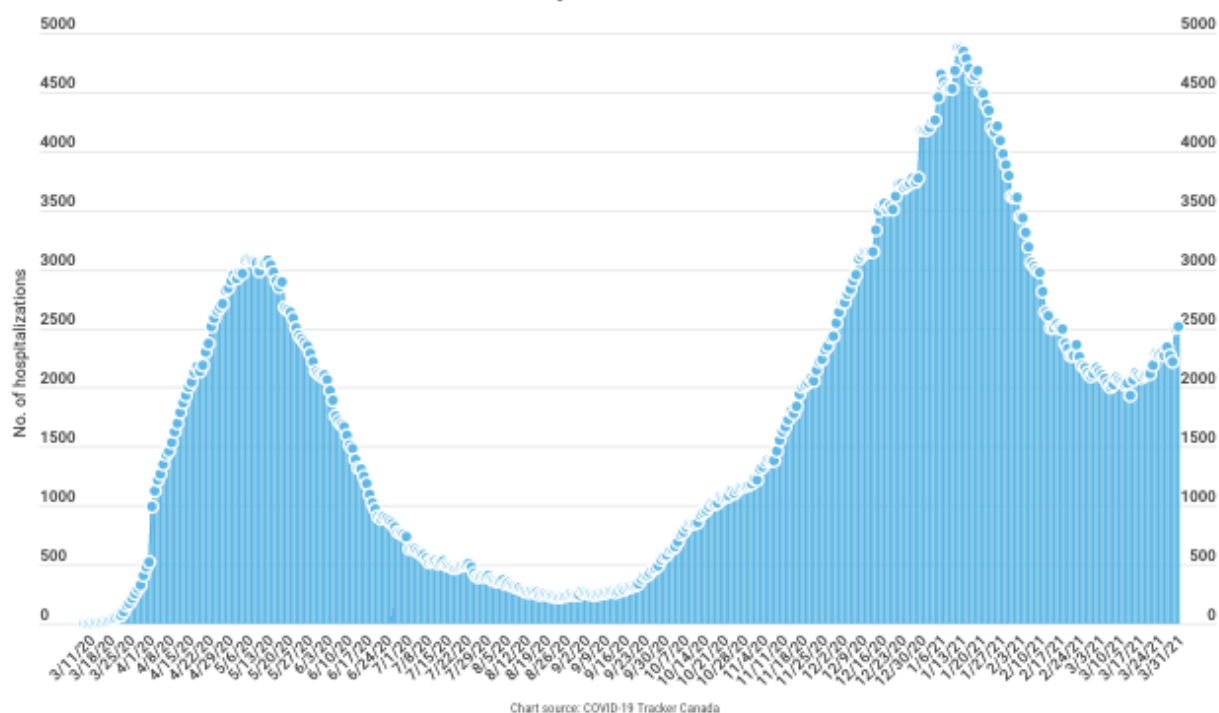
Source: [Johns Hopkins University \(JHU\)](#) via [Our World in Data](#)

CITV NEWS



Source of Canadian Data Below (April 1, 2021):
<https://www.macleans.ca/society/health/covid-19-in-canada-how-our-battle-against-the-second-wave-is-going/>

COVID-19 hospitalizations in Canada



For health experts, the sharp increase in the number of COVID-19 patients needing intensive care is a sign that the third wave is different, and more intense, than previous waves. The number of patients in ICUs retreated from its second wave high but then plateaued well above 500 patients, reaching a low of 513 only on March 13. Since then, the number has shot up and now stands at 712 patients. Experts warn that the increase is unsustainable, explaining that while hospitals can carve new ICU space out of existing wards or convert other areas into ICU units, they can't suddenly create the highly trained staff needed to support such care.

COVID-19 deaths in Canada

(starting the week of the first death on March 8)





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