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PLANETARY HEALTH WEEKLY



CURRENT NEWS ON ECOLOGICAL WELLNESS AND GLOBAL HEALTH

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Hi,

One thing I learned many years ago was not to blame the patient. One cannot blame those who get sick, despite the circumstances. They need and want our compassion, not scorn. There are always many circumstances not understood, with each person being unique, each having specific social determinants. Even if one's habits and lifestyle may have influenced the outcome, all need healing and compassion. These days, though, I seem to be summoning my patience, more than usual, with the spreading disease, which continues to ravage the entire world - with about 700,000 new cases every day now, and continued severe social and economic disruption.

What's happening across much of Canada, the USA and in too many other countries is scandalous. Those still not wanting to join in the fight against the virus and preventing further spread and illness should reassess and join in. Why would anyone not want to do that? With hospitals filling and people's lives so disrupted due to further lockdowns and restrictions, why would anyone, if properly informed, choose not to show compassion and join in to get this under control. Is it because there is such tremendous misunderstanding, on both sides, or is there also willful ignorance, a warped notion of freedom and too much self-centredness?

I feel like we're still living in a giant fog, obscuring truth and life (see END SHOTS). But at least a bit of the fog was lifted this last week with the U.S. governance situation getting better sorted out. Let's keep working to steer our lives through the fog until it lifts, which it surely will. In today's **Planetary Health Weekly** there is much fog but also a little sunshine peeking through...In it you'll read about:

- Banks pouring trillions of dollars into biodiversity loss,
- CORONAVIRUS UPDATES with
 - Don't let the pandemic erase decades of progress for girls' education,
 - How to limit your COVID-19 risk during holiday travel,

- UK government ramps up ‘moonshot’ mass testing,
- Sweden abandons its herd immunity approach as cases soar,
- Canada’s three-layer face mask recommendations make sense,
- India trains more than 100,000 nurses to fight Covid-19,
- Global Covid-19 infections may be six times higher than reported,
- Coronavirus immunity may last years,
- The long endgame begins a year since the first recorded case,
- The FDA authorizes the first at-home Covid-19 test, and
- Meat packer managers bet money on how many workers would get Covid-19, THEN
- Antarctica is Earth’s one virus-free continent and science fights to keep it that way,
- Canada approves HIV self-test for the first time,
- Fires in Brazil’s Amazon rainforest jump, now worst in ten years (and Paraguay also burns),
- The perils of post-colonial medicine in Madagascar,
- European renewables just crushed fossil fuels,
- Renewables outpace coal in US energy consumption for first time since 1885,
- In a shifting pandemic, can clinical practice keep up?
- What is PM Trudeau’s new net-zero emissions legislation?
- Quebec invests \$15 million to improve care for Indigenous patients,
- Where Indigenous patients can get health care without feeling afraid,
- A quote on a coup for social determinants of health,
- The McGill Summer Institute of Infectious Diseases and Global Health,
- A photographer’s 30 year record of dreamlike icescapes and hues in Antarctica,
- Confronting carbon inequality – putting climate justice at the heart of the Covid-19 recovery,
- Stroke systems of care and rehab around the world,
- The growing gap in early death rates between rich and poor,
- New book by Thomas Homer-Dixon “Commanding Hope: The Power We Have to Renew a World in Peril,”
- Battling fake science – University of Alberta launches free online science literacy course, and
- END SHOTS of trying to see through the fog amid Covid-19 stats and charts.

Do keep reading.

Best, david

David Zakus, Editor and Publisher



Photo Credit and Design: Jessica Krause

PREPARING FOR QUIET HOLIDAYS - GETTING INTO THE MOOD -- NOVEMBER 24, 2020

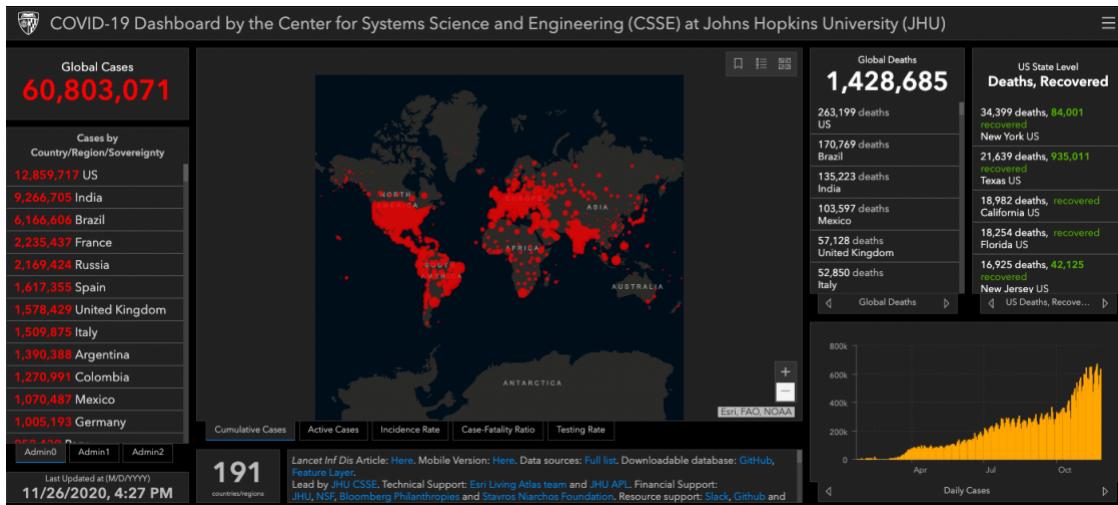
**50 Big Banks Pour \$2.6 Trillion Into
Biodiversity Loss As 'Era Of Pandemics'
Looms**



Credit: Wildlife Service/wikimedia commons

Fifty major banks poured US\$2.6 trillion into industrial activities last year that drove species and ecosystems toward extinction, according to a report that coincides with warnings of an “era of pandemics” if humanity fails to protect nature and biodiversity. “Banks are starting to realize that if they invest in sectors that cause climate change, that will hurt their returns,” said portfolio.earth Director Liz Gallagher. “Banks need to understand that the same holds true for destroying biodiversity. Imagine a world in which projects can only raise capital when they have demonstrated that they will contribute meaningfully and positively to restoring the planet’s bounty and a safe climate for all,” said University of British Columbia environmental scientist Kai Chan, one of the lead authors of last year’s blockbuster study by the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES), which [found](#) that a million species are at immediate risk of extinction. “That’s the future this report envisions and builds toward.” Daszak called for a “much greater focus on prevention, in addition to reaction,” in counterpoint to what scientists see as the “slow and uncertain path” of reacting to outbreaks by trying to contain them with new treatments or vaccines. [Read More at The Energy Mix](#)

SARS-CoV-2 & COVID-19 UPDATES



It's been another terrible week, perhaps the worse yet, with over 4 million new confirmed cases and 72,000 deaths globally. Many parts of Canada, the USA and elsewhere (e.g. Greece) continue to set daily and weekly records. What a colossal continuing disaster. More than ever, we must keep our discipline, as we wait for the saving vaccines. (See more COVID-19 stats and charts in the foggy END SHOTS at the end of this newsletter.)

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

Don't Let The Pandemic Erase Decades Of Progress For Girls' Education



Credit: Plan International Canada

COVID-19 has made access to education a unifying, global concern. At one point, over 90% of students worldwide were affected, including 743 million girls. More than 100 million of those girls live in developing countries where accessing education was already difficult. According to the World Bank, barriers that block girls from completing 12 years of education cost countries \$15 to \$30 trillion in lost lifetime productivity and earnings. Where learning goes online, the gendered digital divide must be narrowed, including providing free and low-cost mobile internet access and digital literacy training for girls. Low-tech learning options must be provided, such as radio and television broadcasts or sending learning materials home, coupled with regular information and at-home-learning guidance for caregivers. COVID-19 could leave the world far worse off, or it could be the catalyst to address long-ignored inequalities. Now is the time to prioritize girls' education, for the benefit of their families and communities, for the benefit of reaching global goals to end poverty, and most importantly — for girls themselves, to unleash their full potential. [Read More at National Observer](#)

SEE MORE COVID-19 STORIES:

At National Geographic: [How to Limit Your COVID-19 Risk During Holiday Travel](#)

At BMJ: [Covid-19: U.K. Government Ramps Up “Moonshot” Mass Testing](#)

At News Hub: [Sweden Abandons Herd Immunity Approach as Cases Soar, introduces Strict COVID-19 Restrictions](#)

At The Star: [Experts Say Canada’s Three-layer Face Mask Recommendations Make Sense](#)

At Economic Times: [More Than 100,000 Nurses Trained Across India to Fight Against Covid-19](#)

At Economic Times: [Global Covid-19 Infections May be Six Times Higher Than Reported](#)

At NY Times: [Immunity to the Coronavirus May Last Years, New Data Hint](#)

At Undark: [A Year Since First Recorded Covid-19 Case, Long Endgame Begins](#)

At NYTimes: [The F.D.A. Authorizes the First At-home Coronavirus Test](#)

At Desmoines Register: [Lawsuit: Tyson \(Meat Packer\) Managers Bet Money on How Many Workers Would Contract COVID-19](#)

Antarctica Is Earth's One Virus-Free Continent: Science Fights To Keep It That Way



Credit: Pete Bucktrout/British Antarctic Survey

This week, 40 men and women will emerge from quarantine and board the Royal Research Ship James Clark Ross as it prepares to sail from Harwich in Essex to the South Atlantic. Their mission is straightforward. They will attempt to salvage scientific operations in Antarctica while also keeping it Covid-free. The continent is the only place on Earth that is still untouched by the pandemic – though keeping the virus at bay there has come at a cost. All major research projects in the Antarctic have been halted. As a result, no senior British scientist will have embarked on a mission to the

continent this year for the first time in decades. "Most of us left jobs to come to Antarctica – with the assumption that when we got back things would be fairly similar to when we left. It's clear that this will not be the case," said Robert Taylor, a field guide based at [Rothera, the British Antarctic Survey's main station](#). "In one way, we have been fortunate because we are currently at no risk of Covid and can interact with one another in the pre-Covid fashion." [Read More at The Guardian](#)

Canada Approves HIV Self-Test For The First Time



Credit: YURI MARKAROV/UNITY HEALTH TORONTO via CP

The long-awaited device can test for the virus in a minute. Federal regulators have approved the first [HIV](#) self-test in Canada in a long-awaited move that experts have called critical to reaching people who don't know they have the virus.

Health Canada granted a medical device licence on November 2 to a one-minute, finger-prick blood test manufactured by bioLytical Laboratories, which is based in Richmond, B.C. The principal investigator of a study that was submitted to regulators as part of their review says the approval of HIV self-testing could "open incredible doors" to increasing access to life-extending treatments and preventing the spread of infection in Canada. Dr. Sean Rourke, a scientist with the Centre for Urban Health Solutions at St. Michael's Hospital in Toronto, says he's working with community organizations across the country to launch a telehealth program in January that will distribute 60,000 self-tests and connect people with care. Rourke says the need for

self-testing has become even more important as a recent survey of roughly 300 front-line providers suggests the [COVID-19](#) crisis has cut access to clinical HIV testing services nearly in half. [Read More at Huffington Post](#)

Fires In Brazil's Amazon Rainforest Jumped In October



Credit: Ueslei Marcelino/Reuters

Fires in Brazil's Amazon rainforest surged in October and the number of blazes is up 25% in the first 10 months of 2020, compared with a year ago, data from government space research agency INPE showed. The agency recorded 17,326 hot spots in the world's largest rainforest in October, more than double the number of fires detected in the same month last year. Destruction of the forest has soared since President Jair Bolsonaro took office in 2019. Advocacy group WWF-Brasil blamed the government for failing to stop those who cut down the forest. "With the rate of deforestation increasing in recent years, the government has ignored the warnings of researchers: deforestation and forest fires go together," WWF-Brasil science manager Mariana Napolitano said in a statement. In the year through October 25, 28% of the wetland has burned, according to the Federal University of Rio de Janeiro, an area nearly the size of Denmark. But Napolitano said that with the rainy season arriving in the Amazon and Pantanal, there were signs that the pace of destruction was slowing. [Read More at Aljazeera](#)

See Also at Aljazeera: [Fires in Brazil's Amazon worst in 10 years, data shows](#)

and **at The Guardian:** [Wildfires tear through drought-racked Paraguay amid record heat](#)

The DJ And The Miracle Cure - The Perils Of Postcolonial Medicine In Madagascar



Credit:TVM Malagasy, YouTube

On March 16, Madagascar's state-owned TV station aired an [18-minute documentary](#). Narrated by two airline pilots, it re-enacts a November 2019 visit to the island nation by an anonymous Brazilian woman purported to be a prophet. "Joana," as she is dubbed in the film, crosses the island in two flights, one south-to-north and the other east-to-west, tracing the shape of a crucifix. She has been sent by God, she confides in the pilots, to make a protective cross over Madagascar, and to deliver a warning. The world would soon be besieged by biological warfare, she predicts, and Madagascar alone held a remedy that could protect the Malagasy people and bring desperately needed economic relief to a country where 75% of the population lives below the international poverty line. There was one condition: the people had to reaffirm their belief in God. In September, in a direct response to President Rajoelina's campaign, a WHO committee endorsed a protocol to expand and encourage clinical trials for traditional medicine against coronavirus. "If a traditional medicine product is found to be safe, efficacious and quality-assured," regional WHO director Prosper Tumusiime said, "WHO will recommend (it) for a fast-tracked, large-scale local manufacturing." [Read More at The Drift](#)

GOOD NEWS

European Renewables Just Crushed Fossil Fuels. Here's How It Happened

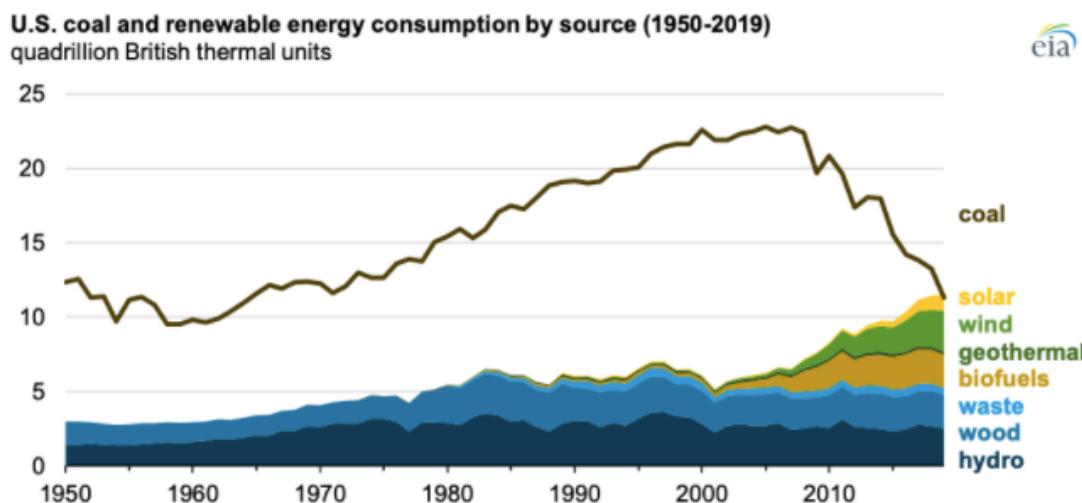


Credit: DPA/PICTURE ALLIANCE VIA GETTY IMAGES

It's official: in the first half of 2020, and for the first time, Europe generated more electricity from renewable sources than from fossil fuels. Not only that, but electricity is proving cheaper in countries that have more renewables. From January to June, wind, solar, hydro and bioenergy generated 40% of the electricity across the European Union's 27 member states, while fossil fuels generated 34%. In the United States, by way of contrast, fossil fuels generated more than 62% of electricity last year, while renewables accounted for less than 18%. In the EU, the €40 billion (\$46 billion) Just Transition Fund is intended to help achieve that. Britain, despite sailing away from the EU into uncharted waters, is kind of, sort of making the right noises about a green recovery. But climate change is a global problem, and it won't be solved by Europe alone. If the EU is to be the test bed for low-carbon economies, the international community needs to pay close attention. [Read More at Forbes](#)

MORE GOOD NEWS

Renewables Outpace Coal In U.S. Energy Consumption For First Time Since 1885



Source: U.S. Energy Information Agency.

Credit: U.S. Energy Information Agency

After a 134-year reign as the leading energy source in the U.S., King Coal has been toppled from the throne, replaced by wind, solar and other renewables. In 2019, the nation consumed more energy from renewable sources than coal for the first time since 1885, according to new data from the federal Energy Information Agency, or EIA. The agency said the shift “mainly reflects the continued decline in the amount of coal used for electricity generation over the past decade as well as growth in renewable energy, mostly from wind and solar.” During the 2016 campaign, Trump repeatedly told coal miners he would “stop the war on coal” and restore it as the country’s dominant energy source. “The communities in coal country are worse off today than they were four years ago, when Trump promised he’d bring back coal, and if they continue clinging to that empty promise, things will only get worse,” said Cook. “Hardworking miners and their families should demand the president and Congress pass stimulus legislation to create good-paying jobs in renewables to replace coal jobs that are gone for good.” Another milestone was reached with wind-generated electricity becoming the most-used source of renewable energy, surpassing hydropower for the first time. [Read More at EWG](#)

OPINION

In A Shifting Pandemic, Can Clinical Practice Keep Up?



Credit: The Canadian Press

In 2008, Julia Farries, a pharmaceutical sales representative, realized she could no longer lug her wares between the various hospitals where she saw clients. Her joints felt like they were “on fire,” she said. Within months, the pain stopped her from doing other things, too: pruning her plants, feeding her chickens, carrying her purse, clapping in applause. “That’s when people began to see me as ‘Sick Julia,’” she said. Over the next eight years, Farries, now 55, sought treatment for what her doctors presumed to be lupus, an autoimmune disease. But her condition continued to deteriorate. Three surgeries later, she was diagnosed with a different autoimmune condition called psoriatic arthritis. In science, old hypotheses are continuously stressed, strained, disproven, and replaced by new ones; the wheel of scientific literature is constantly turning. Patients like Farries exemplify the price we pay in exchange for rigor and certainty in clinical practice. But somewhere in the space between certainty and conjecture, between peer review and public relations, may lie a more nimble way to translate scientific literature into practice during tumultuous times like these. [Read More at Undark](#)

SPOTLIGHT ON POLICY

What Is Trudeau’s New Net-zero Emissions Legislation?



Credit:Garth Lenz / The Narwhal

Bill C-12 would make net-zero emissions by 2050 law and require government to legislate climate targets every five years starting in 2030 — but experts are concerned about its shortfalls. Environmental groups welcomed the introduction of climate accountability legislation in the House of Commons Thursday but warned the bill as written doesn't have the teeth needed to ensure Canada meets its climate targets. If the government fails to meet one of its legislated targets, the minister is only required to explain why and describe the actions the government is taking or will take to meet it. Isabelle Turcotte, the federal policy director at the Pembina Institute, said Bill C-12 will enable businesses "to confidently make investments needed today to create jobs in the competitive economy of tomorrow." Bank of Canada Governor Tiff Macklem warned this week that Canada needs to move quickly to both minimize the threat climate change poses and to take hold of the business opportunities it presents. [Read More at The Narwhal](#)

SPOTLIGHT ON INDIGENOUS WELLNESS

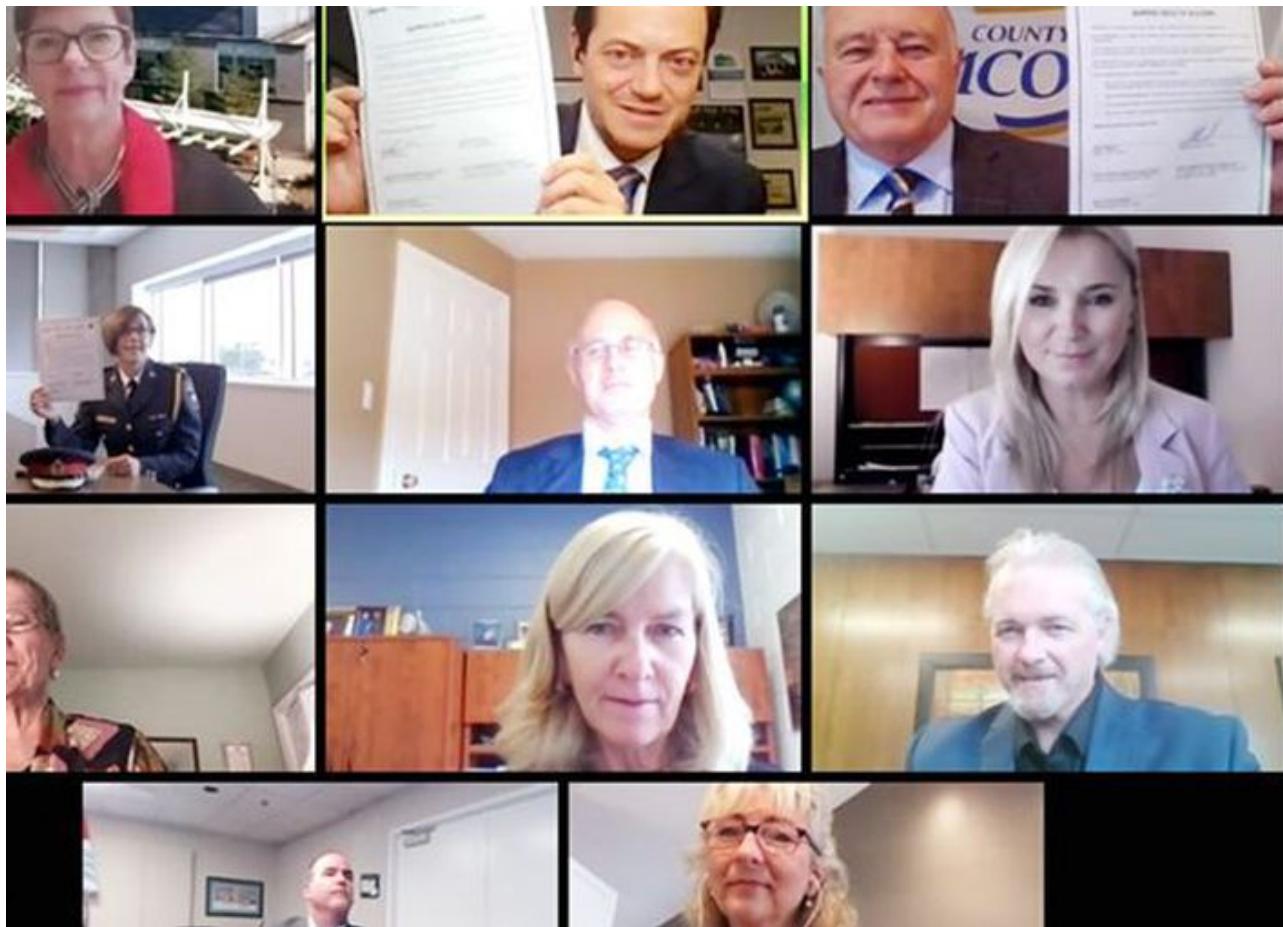
Quebec Invests \$15 Million To Improve Care For Indigenous Patients



Credit: The Canadian Press/Jacques Boissinot

Quebec is investing \$15 million into the province's health-care system to increase cultural security among First Nations and Inuit communities. The concept of cultural security refers to a way of operating that ensures that health care is provided with respect for the cultural identity of the patient. Health Minister Christian Dubé says the investment spread out over five years will be used to familiarize hospital staff with the concept. The announcement comes following the death of Joyce Echaquan, a 37-year-old Atikamekw woman and mother of seven who captured on video the insults she was subjected to by staff as she lay dying in a Joliette hospital bed in late September. "The introduction of an approach that meets their needs as well as their realities in the Quebec health and social services network is the first in a long series of measures that should help advance the fight against racism, as well as the respect for the dignity to which everyone has a right within the public services," Lafreniere said. The \$15 million will come from \$200 million set aside to respond to the Viens recommendations. The Assembly of First Nations Quebec-Labrador welcomed the announcement, but also urged that the measures be taken seriously. [Read More at National Observer](#)

See Also at National Observer: [Where Indigenous People Can Get Health Care Without Feeling Afraid](#)



Credit: Chris Simon/Torstar

Quote Of The Week

Ontario Simcoe County Warden George Cornell's analogy for the sweeping new multidisciplinary accord on Social Determinants of Health,

"The day you plant the seed is not the day you eat the fruit. It will take root. I am convinced it will grow and flourish."

'An unparalleled step': Barrie, Simcoe County, RVH, health unit and city police sign historic accord to address social determinants of health.

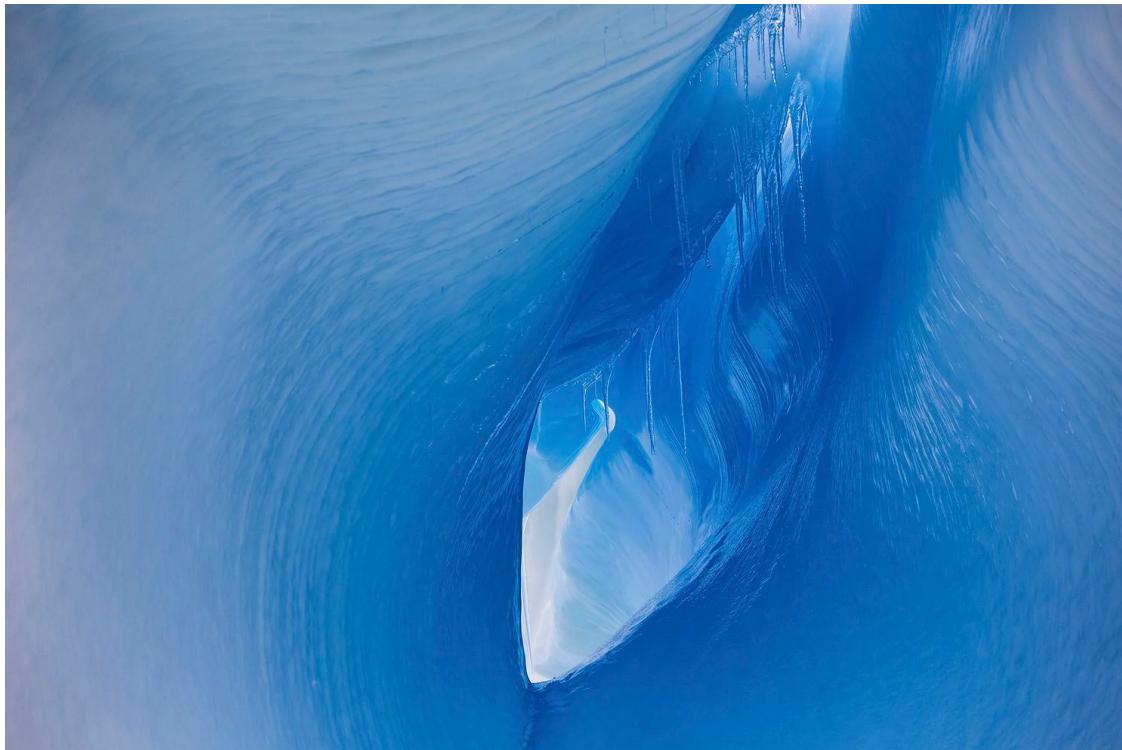
Read More at Simcoe

Upcoming Events

- November 30 - December 5: [19th International Anti-Corruption Conference](#) (online version, hosted by the Republic of Korea)
- March 12th-14th: [Consortium of Universities for Global Health Virtual Conference](#)
- April 8-11, 2021: [Global Health & Innovation Conference](#) (Virtual Event)
- May 31 - June 18, 2021: [The McGill Summer Institute of Infectious Diseases and Global Health](#) (100% online)
- June 7th-9th 2021: [Executive Course: Global Health Diplomacy](#) (University of Toronto, Canada)
- [2020 UN Climate Change Conference](#) (UNFCCC COP26 - Glasgow, Scotland) - Postponed until latter 2021

FYI#1 SPOTLIGHT ON MEDIA

'I Feel As If I Am In The Studio Of A Genius': A Photographer's 30-Year Record Of Dreamlike Icescapes And Hues In Antarctica



Credit: Ira Meyer

If you asked photographer Ira Meyer what should be at the top of your travel bucket list, he'd tell you Antarctica. His answer isn't related to climate change. Rather, it's because the sooner you visit the icy continent, the longer you'll remember the journey and savour the experience. Since 1991, Meyer has made nearly 40 trips there. An \$880 fee got him a spot on the trip, when such a journey on a travel cruise would normally cost tens of thousands of dollars. When Meyer made it to Antarctica, he said he was "gobsmacked" by the beauty. On his second trip, in 2005, he joined a friend who worked for a travel company that had bought a ship to take trips to Antarctica.

"We think of ice, and we think of Antarctica, and we think of white," Meyer said. "But there are so many hues and shapes and colours ... I feel as if I am in the studio of a genius but mad ice sculptor. The shapes and forms and colours are just fascinating." The ice is just one of the things that keeps Meyer coming back. He said that he loves the air and that it is crisp, pure and "delicious to breathe." But the most profound part of Antarctica for Meyer is the stillness.

Read More at Washington Post

FYI #2

Confronting Carbon Inequality - Putting Climate Justice At The Heart Of The Covid-19 Recovery



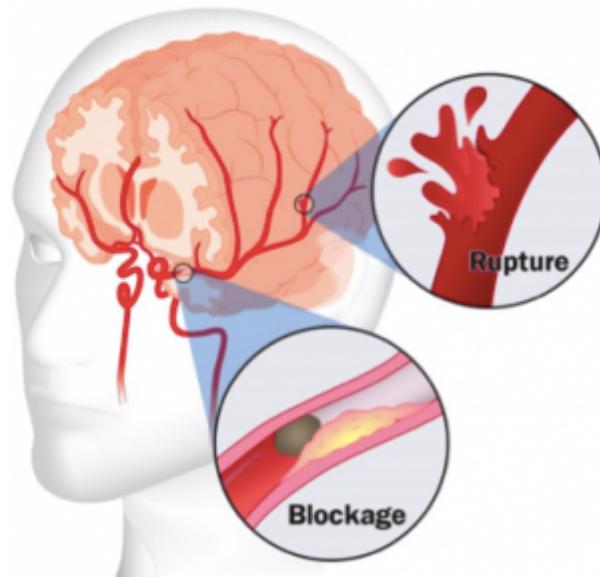
Credit: OXFAM

Despite sharp falls in carbon emissions in 2020 linked to the COVID-19 pandemic, the climate crisis – which is driven by the accumulation of emissions in the atmosphere over time – continued to grow. This briefing describes new research that shows how extreme carbon inequality in recent decades has brought the world to the climate brink. It sets out how governments must use this historic juncture to build fairer economies within the limits our planet can bear.

Read More at Below2C

FYI #3

Stroke Systems Of Care In Low and Middle-income Countries: Challenges And Opportunities



Credit: Infinitygraphics.com

The burden of stroke is higher in low and middle-income countries (LMICs) than in high-income countries and is rising. Even though there are global policies and guidelines for implementing stroke care, there are many challenges in setting up stroke services in LMICs. Despite these challenges, there are many models of stroke care available in LMICs—e.g., multidisciplinary team care led by a stroke neurologist, specialist-led care by neurologists, physician-led care, hub and spoke models incorporating stroke telemedicine (i.e., telestroke), and task sharing involving community health workers. Alternative strategies have been developed, such as reorganizing the existing hospital infrastructure by training health professionals to implement protocol-driven care. The future challenge is to identify what elements of organized stroke care can be implemented to make the largest gain. Simple interventions such as swallowing assessments, bowel and bladder care, mobility assessments, and consistent secondary prevention can prove to be key elements to improving post-discharge morbidity and mortality in LMICs.

See Also at The Lancet: [Stroke rehabilitation in low-income and middle-income countries: A call to action](#)

and

[Stroke systems of care in high-income countries: What is optimal?](#)

Read More at The Lancet

FYI #4

Gap In Early Death Rates Between Rich And Poor In Canada Is Growing



Credit: [Castanet](#)

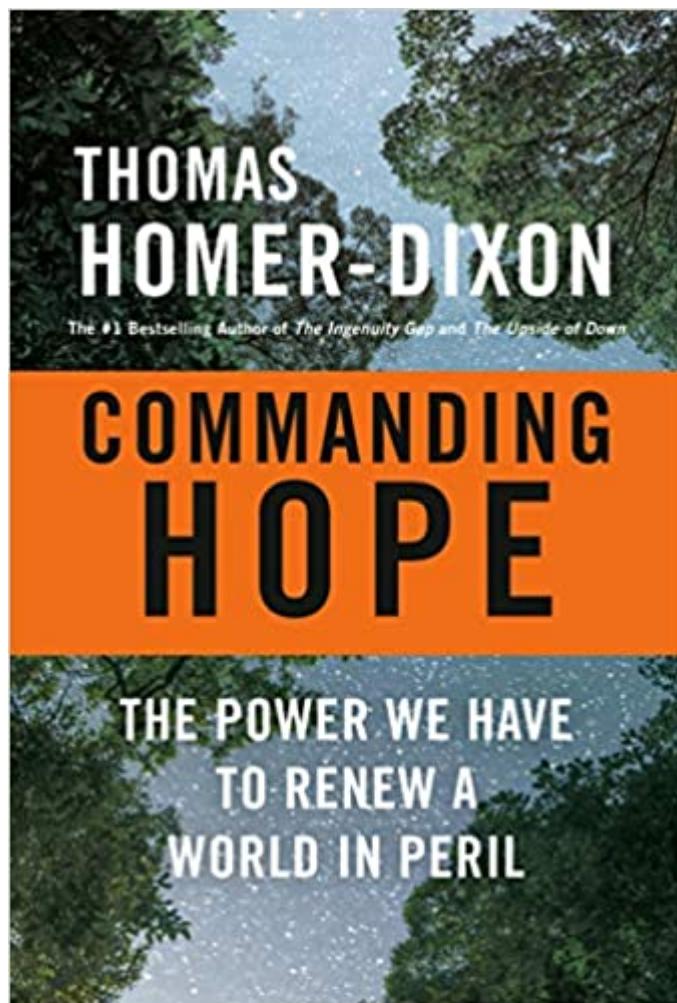
Poor Canadians stand a greater chance of dying early than the well off and that gap has been growing for decades, says a detailed new analysis. The study, published recently in the *Canadian Medical Association Journal*, found the chances of dying before age 75 of avoidable causes has been declining for almost everyone. But they've been declining for the rich much faster than for the poor and have been doing so for a

generation. The gap is growing for both women and men, and the chances of an early, avoidable death for women with the least education are actually growing. "We've made no overall progress towards reducing overall health inequality," said Faraz Shahidi of the Institute for Work and Health in Toronto. "The size of these inequalities in mortality are even larger than we previously thought." "It's in a large part through lack of policy action that we have allowed, as a society, these inequalities to grow over time," said Shahidi. "These health inequalities are fundamentally rooted in everyday conditions. And everyday social and economic conditions are what they are for people, because of the political decisions policy-makers make."

[Read More at National Post](#)

FYI #5: AUTUMN READING - NEW BOOK

**Commanding Hope: The Power We
Have to Renew a World in Peril by
Thomas Homer-Dixon**



Credit: Book Cover

For three decades, the renowned author of *The Upside of Down: Catastrophe, Creativity, and the Renewal of Civilization*, and *The Ingenuity Gap: Can We Solve the Problems of the Future?*, has examined the threats to our future security--predicting a deteriorating global environment, extreme economic stresses, mass migrations, social instability and wide political violence if humankind continued on its current course. He was called The Doom Meister, but we now see how prescient he was. Today just about everything we've known and relied on (our natural environment, economy, societies, cultures and institutions) is changing dramatically--too often for the worse. Without radical new approaches, our planet will become unrecognizable as well as poorer, more violent, more authoritarian. *Commanding Hope* marshals a fascinating, accessible argument for reinvigorating our cognitive strengths and belief systems to affect urgent systemic change, strengthen our economies and cultures, and renew our hope in a positive future for everyone on Earth.

[Read More at Amazon](#)

FYI#6: SPOTLIGHT ON EDUCATION

Battling Fake Science: University Of Alberta Launches Free Online Science Literacy Course



Credit: David Bloom /Postmedia

Thinking critically is not a superpower. But the University of Alberta is offering a boost to critical thinking about science with a free online course — how to tell the difference between sound scientific studies and pseudoscience. “The purpose of this course is to teach people about the process of science and how it is used to acquire knowledge,” course host Claire Scavuzzo, researcher in the Department of Psychology, said in a release. “By the end of the course, learners will be able to understand and use scientific evidence to challenge claims based on misinformation and engage the process of science to ask questions to build our knowledge.” An offshoot of the

COVID-19 pandemic — and the fluid nature of understanding it — has been growing mistrust of science, she notes. The five modules of the course are presented with practice quizzes, reflective quizzes, and interactive learning objects that are all available for free.

“Students can expect to finish this course with well-polished critical thinking skills. Rather than ‘science knowledge,’ students will build the skill of thinking scientifically, so they are ready to engage in the process of science,” said Scavuzzo. “It may expose some of your biases and it may also help you recognize the value of challenging your biases by being skeptical, asking questions, and evaluating evidence. It will change the way you interact with and absorb content on social media. It will make you realize that these skills can —and should — be used every day.”

To access the course: <https://www.ualberta.ca/admissions-programs/online-courses/science-literacy.html>

See Also: [In-Country/In-Region Scholarship Programmes for Eastern Africa](#)

Read More at Edmonton Journal

ENDSHOTS

SEEING THROUGH THE FOG??
NOVEMBER 26, 2020



Hawkrigg Lane, Humphrey, Ontario - November 26, 2020

COVID-19 CORONAVIRUS PANDEMIC

Last updated: November 26, 2020, 20:47 GMT

[Graphs](#) - [Countries](#) - [Death Rate](#) - [Symptoms](#) - [Incubation](#) - [Transmission](#) - [News](#)

Coronavirus Cases:

61,187,447

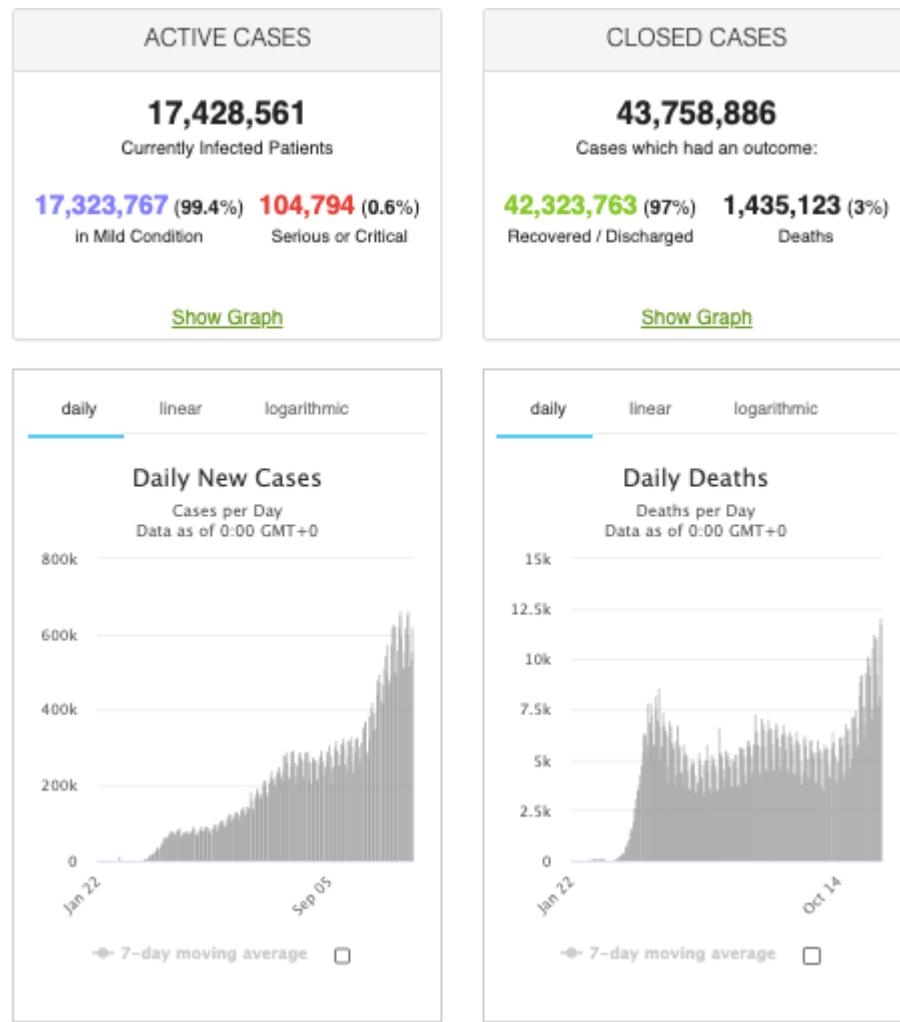
[view by country](#)

Deaths:

1,435,123

Recovered:

42,323,763



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



COUNTRIES RANKED BY RATE OF NEW COVID-19 CASES AND DEATHS/CAPITA (NOVEMBER 19-26, 2020) Source:

https://www.washingtonpost.com/graphics/2020/world/mapping-spread-new-coronavirus/?itid=sf_coronavirus

Case and death counts by country			
	Deaths	Cases	Adj. for population
Country	Reported cases per 100k	New cases in last 7 days per 100k	Change in daily cases in last 7 days
Andorra	8,233	432	▼ -11%
Montenegro	5,174	507	▼ -9%
Luxembourg	5,079	470	▼ -22%
Belgium	4,892	139	▼ -45%
Qatar	4,868	50	▼ -9%
Czech Republic	4,710	255	▼ -10%
Armenia	4,364	292	▼ -13%
U.S.	3,829	318	▲ 8%
Moldova	3,749	268	▲ 12%
Panama	3,696	167	▲ 11%
Israel	3,659	55	▲ 8%
Switzerland	3,609	336	▼ -19%
Spain	3,388	148	▼ -21%
Kuwait	3,357	68	▼ -30%
Slovenia	3,319	495	▲ 1%
France	3,290	135	▼ -41%
Georgia	3,088	685	▲ 13%
Argentina	3,075	94	▼ -20%
Liechtenstein	3,046	281	▼ -10%
Austria	2,935	437	▼ -19%
Peru	2,930	38	▼ -15%
Brazil	2,899	82	▲ 4%
Netherlands	2,893	188	▲ 0%
Chile	2,866	45	▼ -3%
Croatia	2,744	514	▲ 15%
North Macedonia	2,696	295	▲ 1%
Costa Rica	2,639	122	▲ 5%
Portugal	2,617	318	▼ -12%
Bosnia	2,524	235	▼ -14%
Colombia	2,508	88	▼ -2%
Oman	2,464	29	▼ -4%
Poland	2,435	399	▲ 1%
Italy	2,413	303	▼ -11%
Britain	2,308	163	▼ -26%

Canada is in 69th place in the case rate ranking above; basically no change from last week..

Case and death counts by country

Deaths	Cases	Adj. for population	Totals
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Jump to a country:

Country	Reported deaths per 100k	New deaths in last 7 days per 100k	Change in daily deaths in last 7 days
Belgium	139	8	▼ -23%
Peru	110	1.1	▲ 14%
Andorra	99	0	-
Spain	93	3.5	▲ 2%
Italy	85	6.8	▲ 14%
Britain	84	3.8	▲ 6%
Argentina	83	2.4	▼ -27%
Moldova	82	4.4	▲ 10%
Brazil	81	1.3	▼ -16%
Mexico	81	2.5	▲ 20%
Chile	80	1.2	▼ -6%
U.S.	79	2.9	▲ 32%
Bolivia	78	0.5	0%
Ecuador	76	1.2	▲ 81%
France	75	5.3	▼ -5%
North Macedonia	75	7.9	0%
Bosnia	74	10.3	▼ -9%
Montenegro	72	5.8	▼ -22%
Colombia	71	2.2	▲ 4%
Panama	70	1.9	▲ 11%
Czech Republic	70	7.1	▼ -20%
Armenia	69	6.8	▼ -6%
Sweden	63	1.7	▲ 15%
Slovenia	57	13.4	0%
Iran	56	3.9	0%
Romania	54	5.7	▲ 7%
Netherlands	53	2	▼ -13%
Switzerland	51	6.7	▼ -1%
Bulgaria	46	10	▲ 29%
Luxembourg	46	5.6	▼ -14%
Hungary	42	7.5	▲ 6%
The Bahamas	42	0	-
Ireland	41	0.4	▼ -20%
Portugal	39	4.1	▼ -5%

Canada is in 39th place in the death rate ranking above.



WHERE CASES AND DEATHS ARE SURGING (NOVEMBER 19-26, 2020)

Source:

https://www.washingtonpost.com/graphics/2020/world/mapping-spread-new-coronavirus/?itid=sf_coronavirus

Where the virus is surging

Deaths	Cases	Adj. for population	Totals	Since last week	Cumulative
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**Where the virus is surging**

Deaths	Cases	Adj. for population	Totals	Since last week	Cumulative
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Global hot spots for reported cases per capita

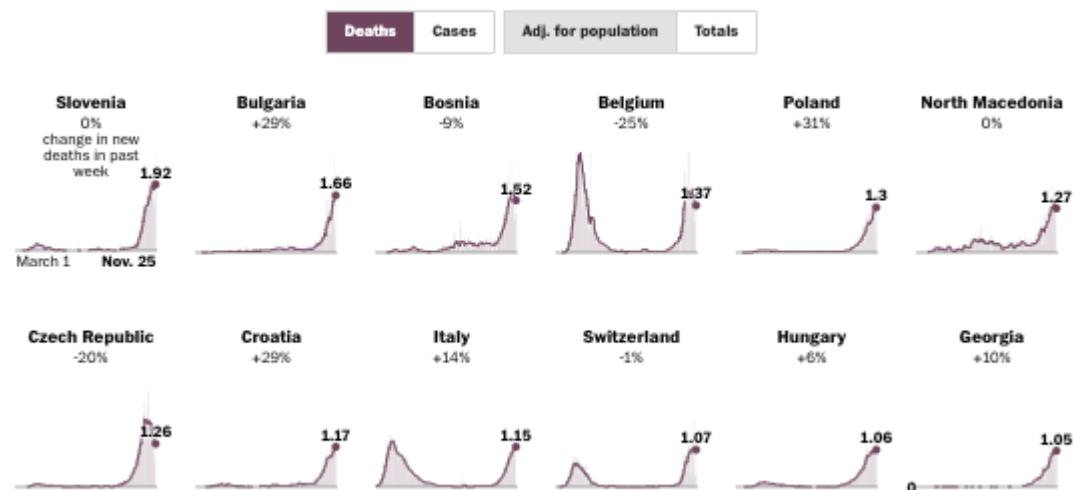
— 7-day rolling average of daily new reported cases per 100,000 residents



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



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



Compare countries by new daily reported cases per 100k

Deaths Cases Adj. for population Totals

Select a country:

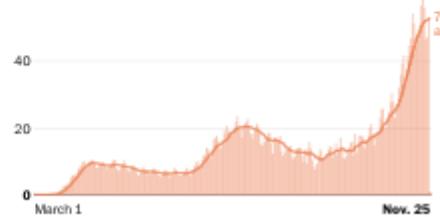
Canada

At least 346,013 have been reported since Feb. 29.

Select a country:

U.S.

At least 12,569,468 have been reported since Feb. 29.



Compare countries by new daily deaths reported per 100k

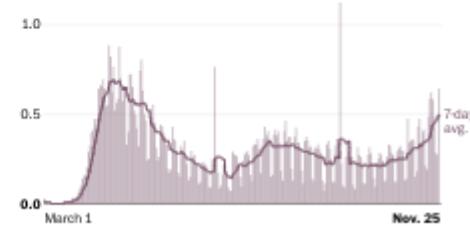
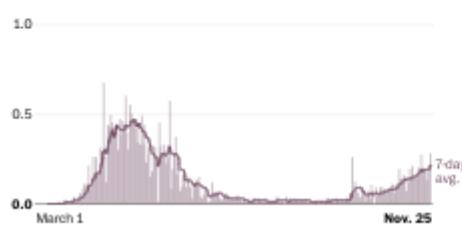
Deaths **Cases** **Adj. for population** **Totals**

Select a country:

Canada

Select a country:

U.S.

At least 11,676 have been reported since Feb. 29.At least 259,050 have been reported since Feb. 29.



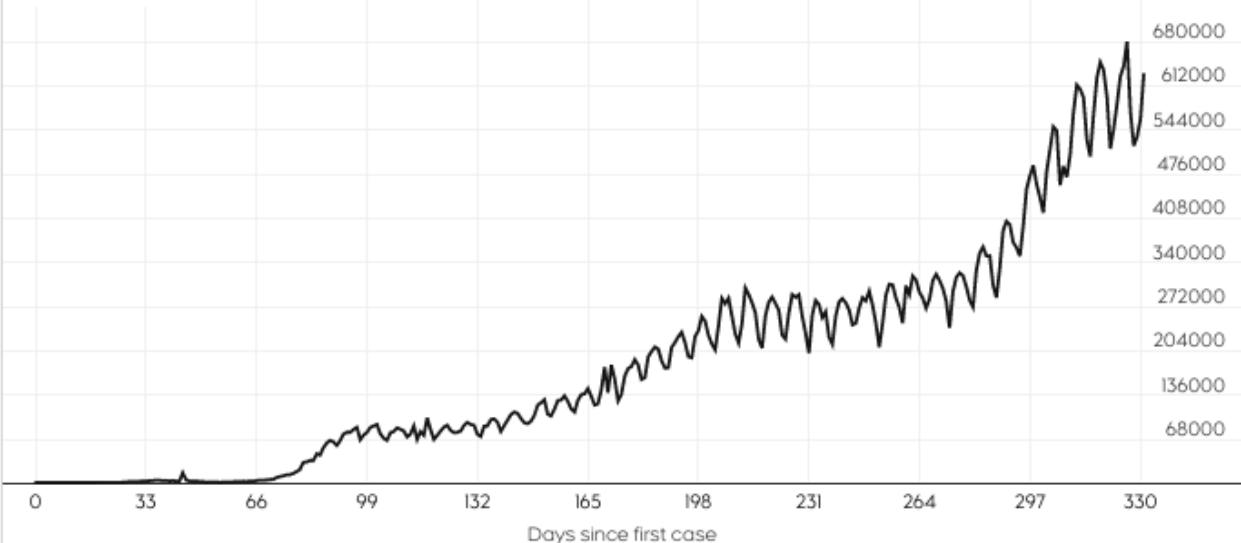
Source of data below on November 26, 2020:

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

COVID-19 Cases (Daily)

Cases Deaths Total Daily 7-Day Raw /100K

— World



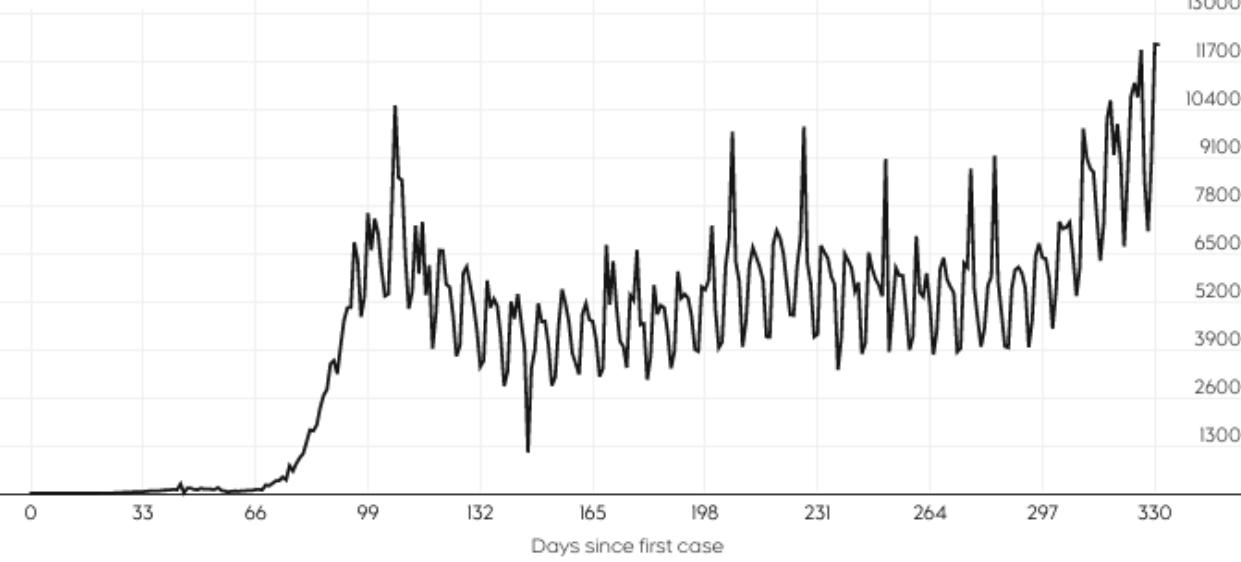
Source: European Center for Disease Control and Prevention (ECDC) via Our World in Data

CTV NEWS

COVID-19 Deaths (Daily)

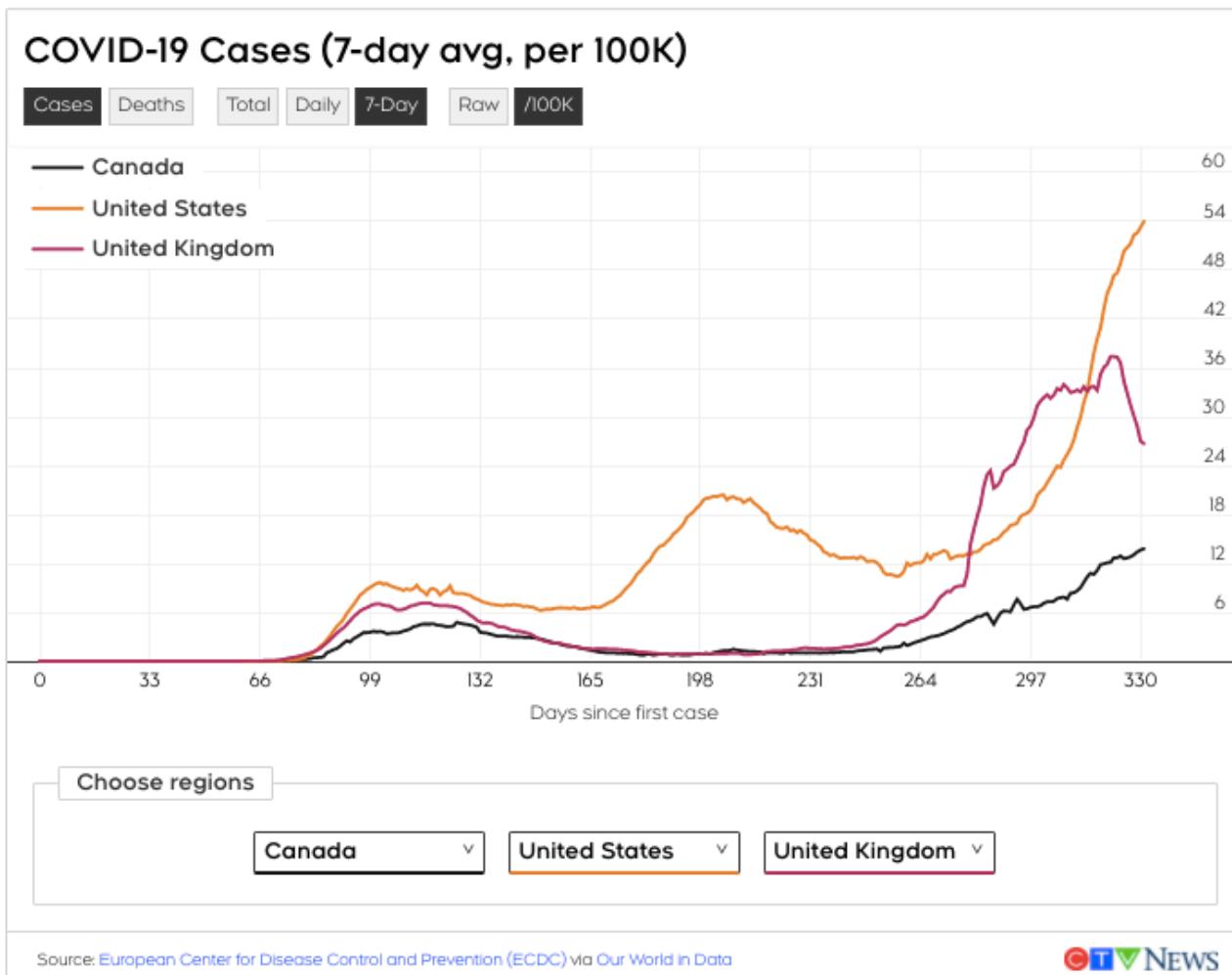
Cases Deaths Total Daily 7-Day Raw /100K

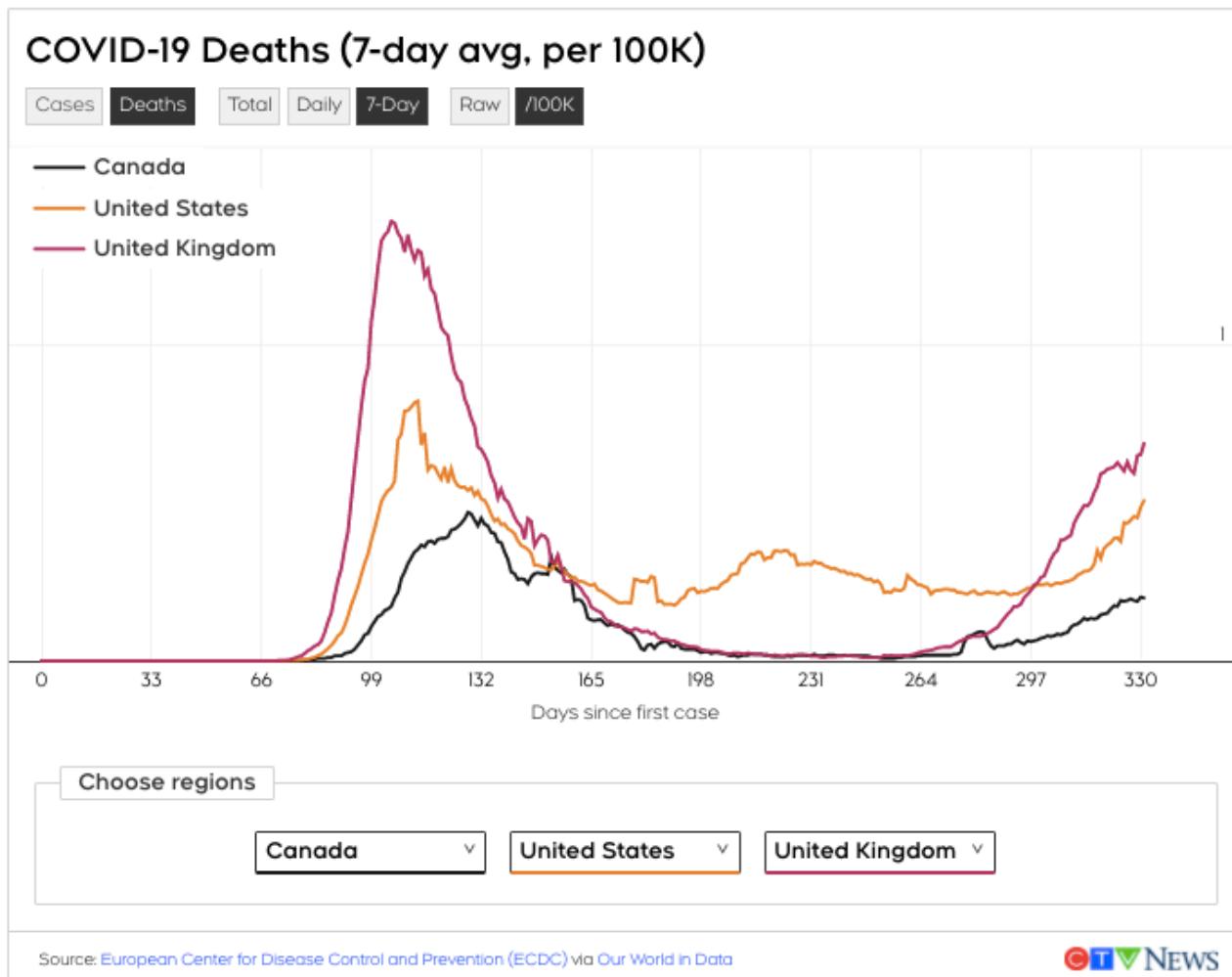
— World



Source: European Center for Disease Control and Prevention (ECDC) via Our World in Data

CTV NEWS

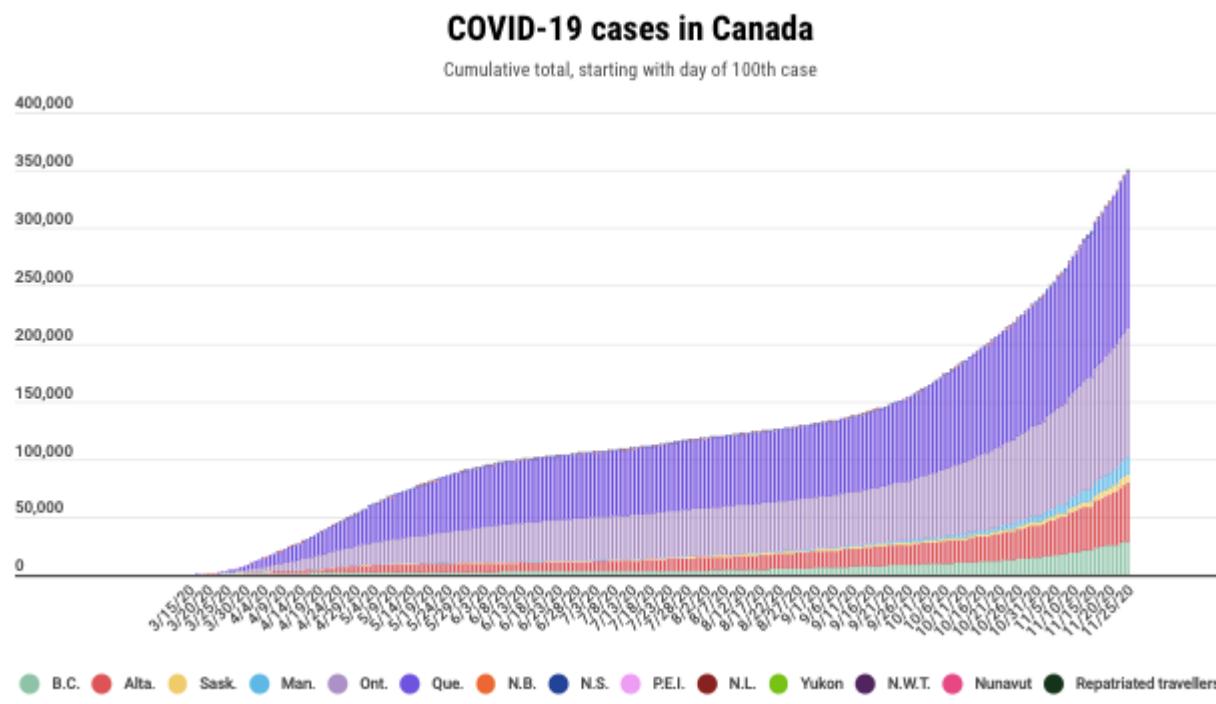
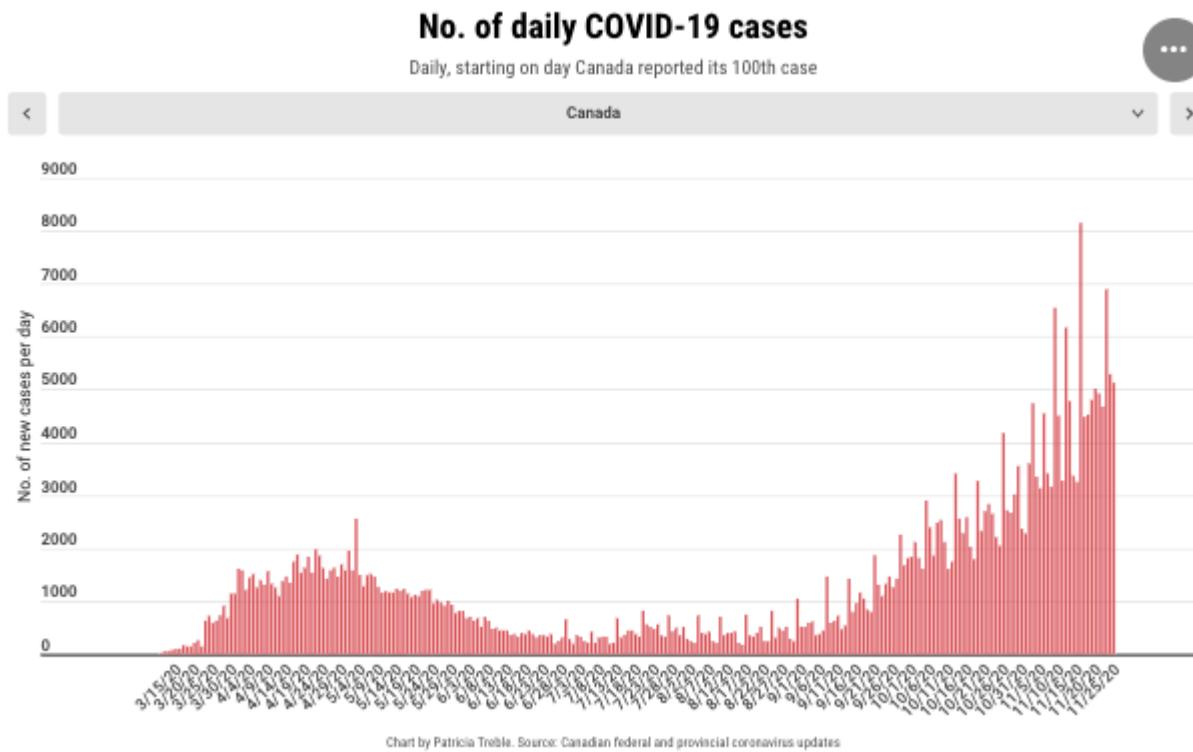




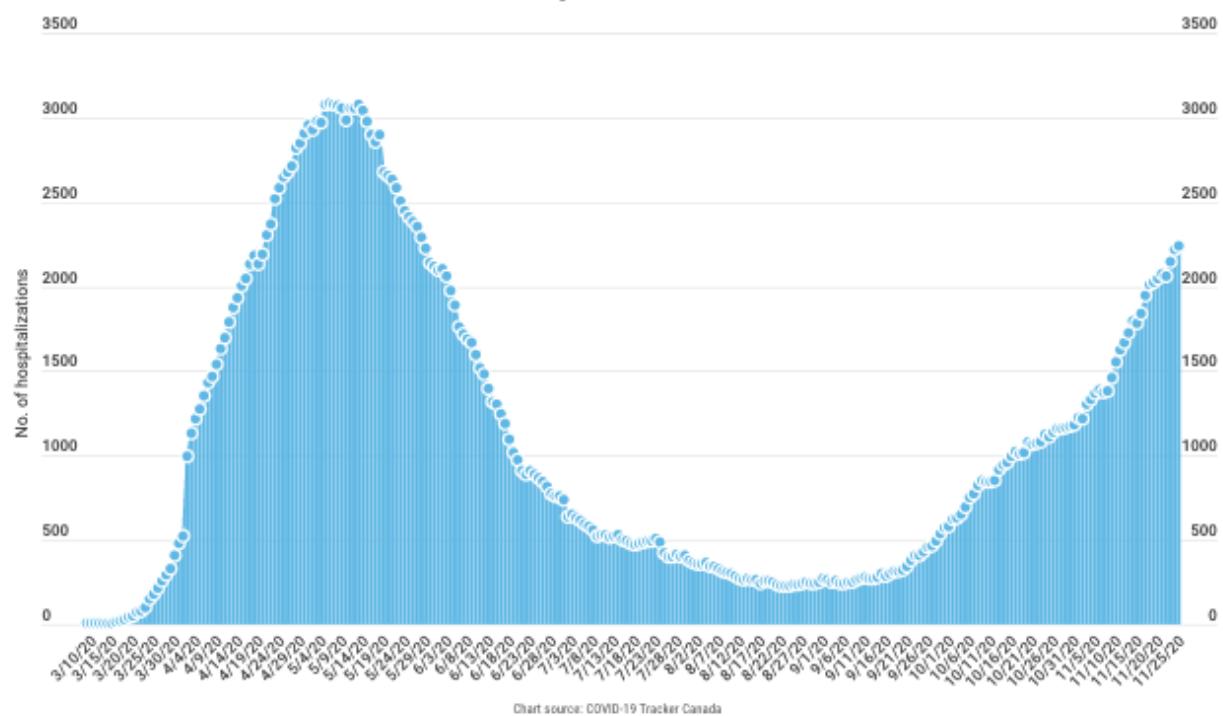


Source of Canadian data below (November 26, 2020):

<https://www.macleans.ca/society/health/coronavirus-in-canada-these-charts-show-how-our-fight-to-flatten-the-curve-is-going/>

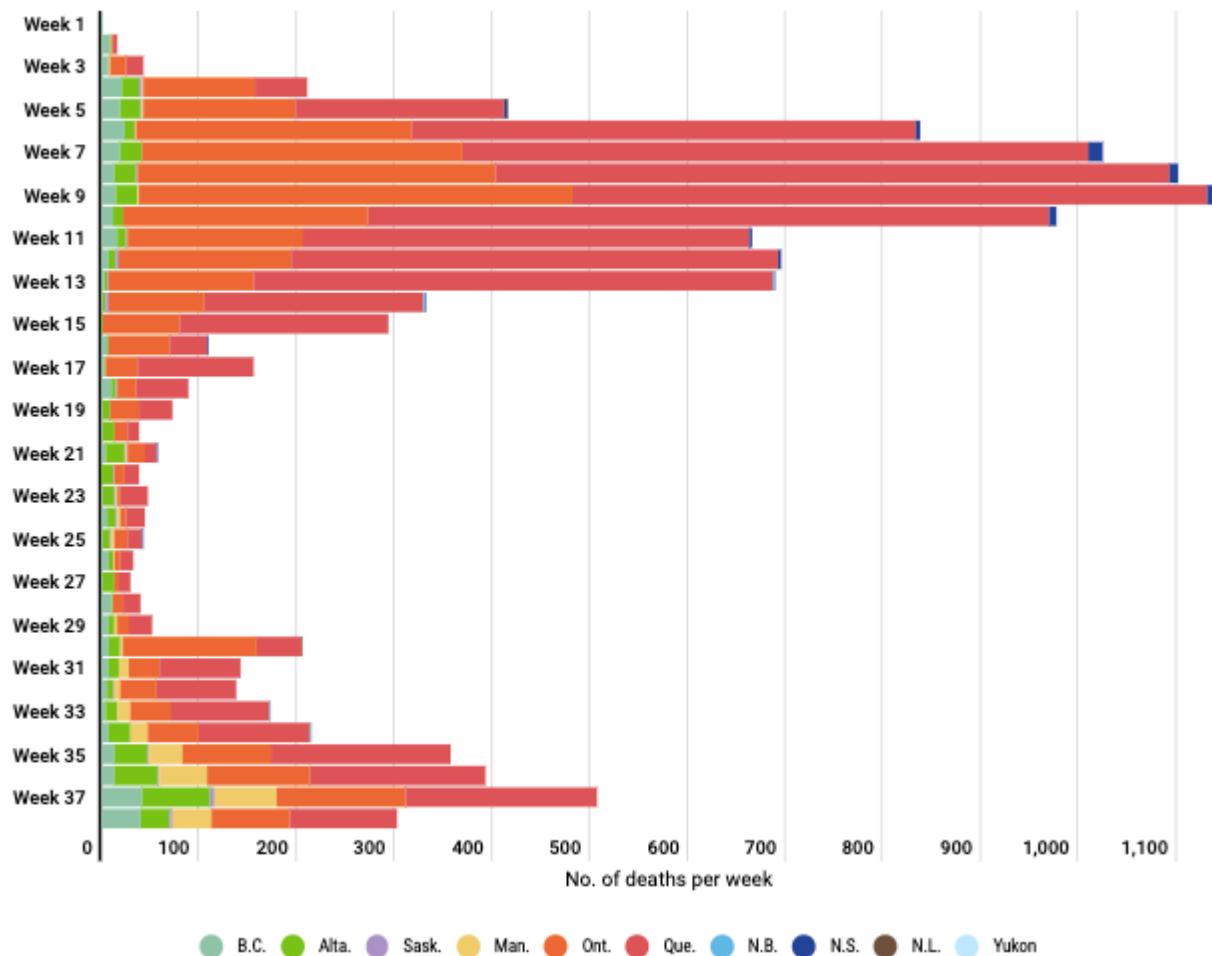


COVID-19 hospitalizations in Canada



COVID-19 deaths in Canada

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



*week to date **Toronto added 117 historical deaths to its Week 30 tally. Excluding those deaths, Ontario recorded 20 deaths in Week 30.



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