



NORTHEAST
BUSINESS GROUP ON HEALTH

COVID-19 Update

Dr Mark Cunningham-Hill

Medical Director, NEBGH

Monday, February 14th, 2022



Therapeutics

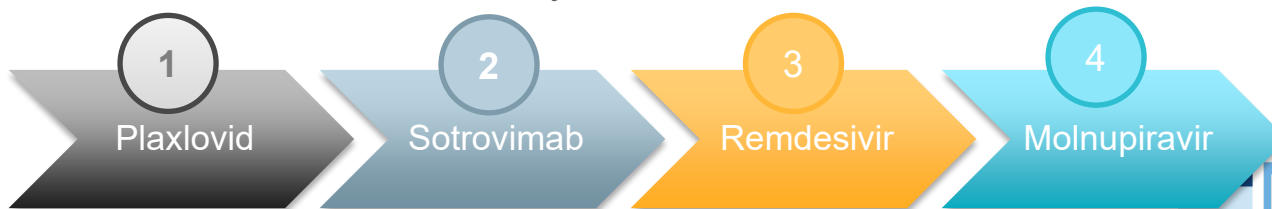


Antivirals:

- **Plaxlovid** – High-risk Patients
 - 88% reduction in hospitalization and death if given in first 5 days and effective against Omicron
 - \$5.3 billion supply deal and improving availability
- **Molnupiravir** – High-risk Patients
 - 30% effective at reducing hospitalization
 - Only use in high-risk patients when other treatments not available
- **Remdesivir**
 - 3-day course may reduce hospitalization by 87%
 - Use when paxlovid or sotrovimab are not available

Monoclonal Antibodies:

- **Sotrovimab** –
 - Reduced risk of hospitalization or death by 79%
 - Works against Omicron – use if Paxovid not available
- **Bamlanivimab and etesevimab** – only use if not Omicron





Locations

25

ALTO PHARMACY
100 PARK AVE, NEW YORK, NY 10017
Molnupiravir [Qty 24], Product #0006-5055-06
812/0 (Available/Allotted)

ALTO PHARMACY
100 PARK AVE, NEW YORK, NY 10017
Paxlovid, Product #0069-1085-30
2,506/5,560 (Available/Allotted)

BAYONNE MEDICAL CENTER
29 East 29th Street, Bayonne, NJ 07002
Evusheld, Product #0310-7442-02
72/72 (Available/Allotted)

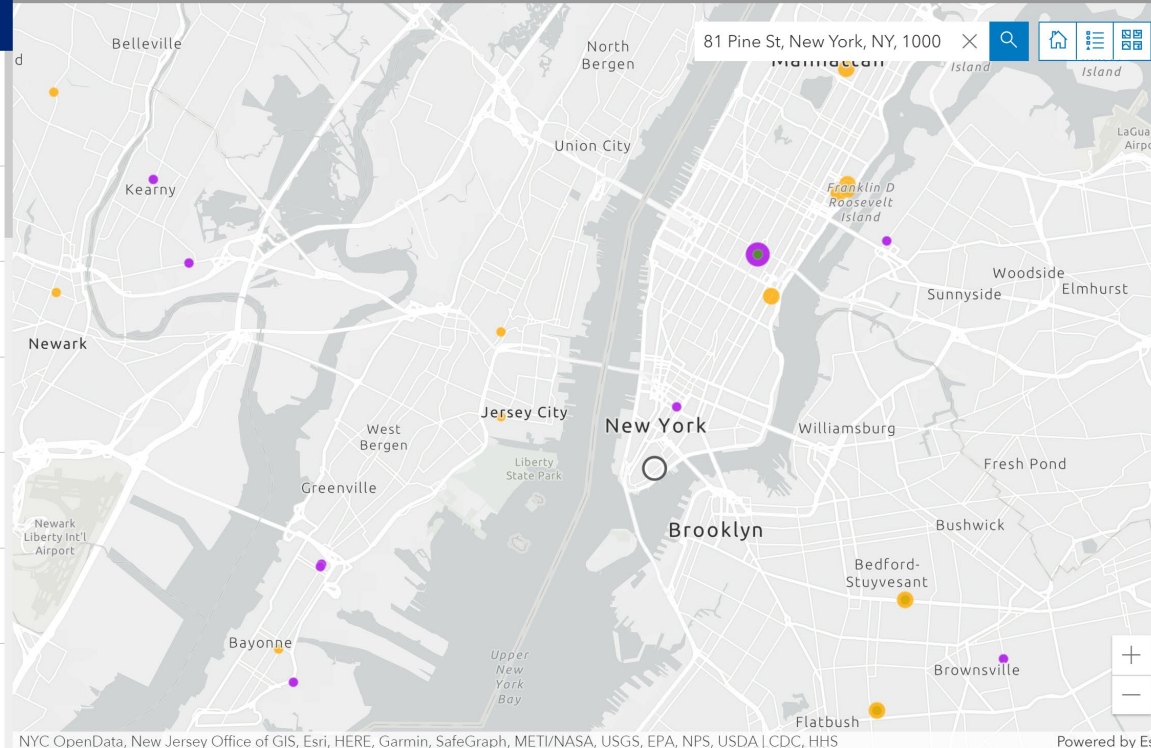
Brownsville Multi-Service Fam HC
592 Rockaway Avenue, Brooklyn, NY 11212
Paxlovid, Product #0069-1085-30
20/60 (Available/Allotted)

CHARLES B WANG Comm Hlth Ctr
268 Canal St, New York, NY 10013
Paxlovid, Product #0069-1085-30
37/60 (Available/Allotted)

CHRIST HOSPITAL-JERSEY CITY
176 Palisade Ave, JERSEY CITY, NJ 07306
Evusheld, Product #0310-7442-02
72/72 (Available/Allotted)

HOSPITAL FOR SPECIAL SURGERY
535 East 70th street, New York, NY 10021
Molnupiravir [Qty 24], Product #0006-5055-06
80/0 (Available/Allotted)

Use search glass below to find locations near an address.



Available Evusheld Courses

2,986

Total Allotted: 3,864

Available Molnupiravir Courses

15,492

Total Allotted: 0

Available Paxlovid Courses

2,754

Total Allotted: 5,900

Therapeutics Locator <https://covid-19-therapeutics-locator-dhhs.hub.arcgis.com/>

Drugs for Severely ill or are Promising/Pipeline

- **Evusheld (AZD7442)** – AZ, Intended to provide long-lasting protection to immunocompromised people, consists of 2 molecules, given IM. FDA EUA
- **Dexamethasone** –widely used for ventilated patients and those with supplemental oxygen
- **Baricitinib** - anti-inflammatory drug for rheumatoid arthritis. Baricitinib combined with dexamethasone for hospitalized patients
- **Tocilizumab** or **sarilumab** (anti arthritis drug) for severely ill patients
- **S-217622** - Shionogi – Antiviral drug directed against the same viral protease protein targeted by paxlovid - Japan is expected to authorize it soon
- **Recombinant ACE-2** – promising in the lab – studies underway

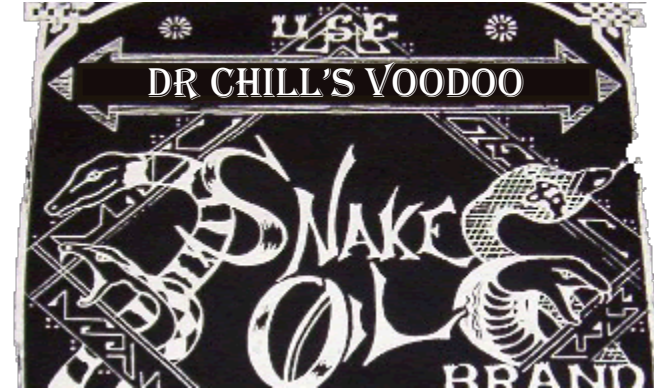
Other treatments

Unknown effect:

- **Vitamin D** - important for health, promoting good bone health and helping immune cells function. Some studies have found an association between low levels of vitamin D and higher rates of Covid-19. Studies however have not shown effectiveness with COVID
- **Zinc** and **Vitamin C** – while play some role in fighting off infections studies don't show a benefit with COVID

Not Recommended

- **Ivermectin** – Rx for parasitic worms, multiple studies show no benefit. More studies underway
- **Oleandrin** is a compound produced by the oleander shrub
- **Hydroxychloroquine** and **chloroquine** – thought to stop viral replication but studies showed no real benefit and serious risk of side-effects
- **Bleach, UV light** and **Silver**



High-Risk Populations

Certain populations may be unable to mount a sufficient protective response from a vaccine due to an underlying health condition or medication they take that compromises or suppresses their immune system, meaning they remain susceptible to contracting COVID-19.



Blood cancers



Active chemotherapy



Transplant



Dialysis



Taking immunosuppressants



Primary immune deficiency

Do Not Forget

- Elderly and those with significant comorbidities
- Children under 5 not expected to be eligible for vaccination until at least April 2021

e.g. medicines for
non-Hodgkin's lymphoma,
lupus, multiple sclerosis,
rheumatoid arthritis

Protecting High-Risk Populations

- Receiving a **4th dose** of vaccine
- Ensuring those around them are **vaccinated** and **boosted**
- Ensuring access to **testing**
- Access to **therapeutics** such as **Evusheld*** to help protect and **plaxlovid** within first 5 days of infection
- Availability of high-quality **masks** N95 or KN95 for them and those around them
- Allowing the vulnerable and those they live with more **flexibility** to work from home where possible
- Consider **additional services** such as grocery delivery to reduce community exposure

* Evushelid Resource finder :

https://rrelyea.github.io/evusheld/?campaign_id=9&emc=edit_nn_20220214&instance_id=53116&nl=the-morning®i_id=133683995&segment_id=82663&te=1&user_id=2d08c44db6a3f80e304af188898e5f61&state=NY

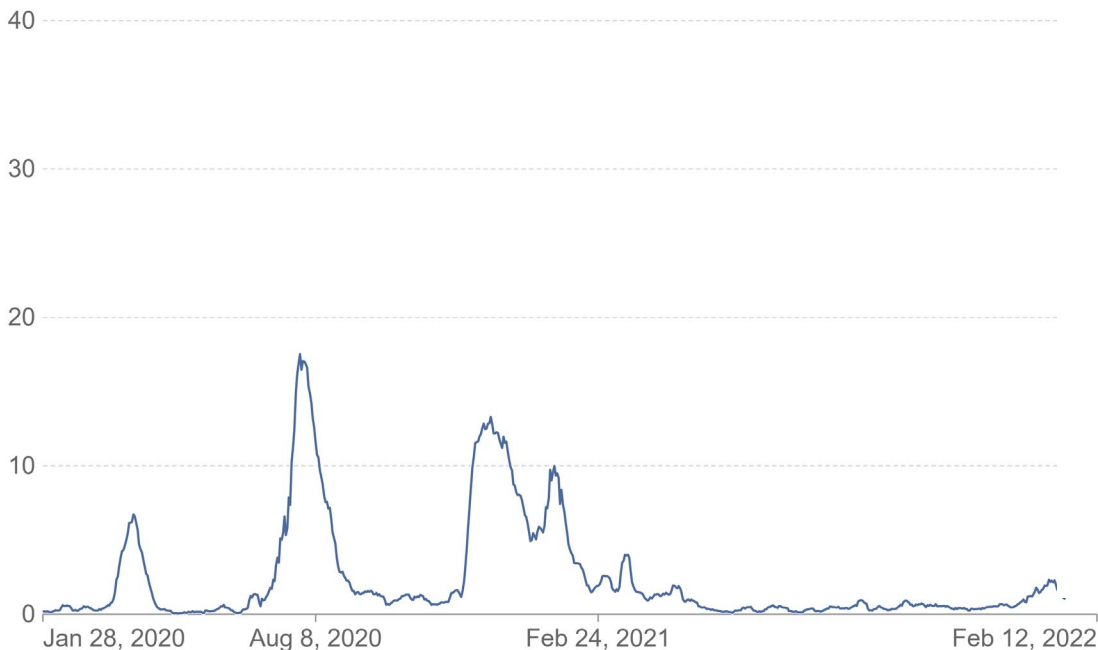
Hong Kong Zero COVID Policy



Hong Kong has a Zero COVID Policy

Daily new confirmed COVID-19 cases per million people

7-day rolling average. Due to limited testing, the number of confirmed cases is lower than the true number of infections.



Source: Johns Hopkins University CSSE COVID-19 Data

Hong Kong – Zero COVID policy

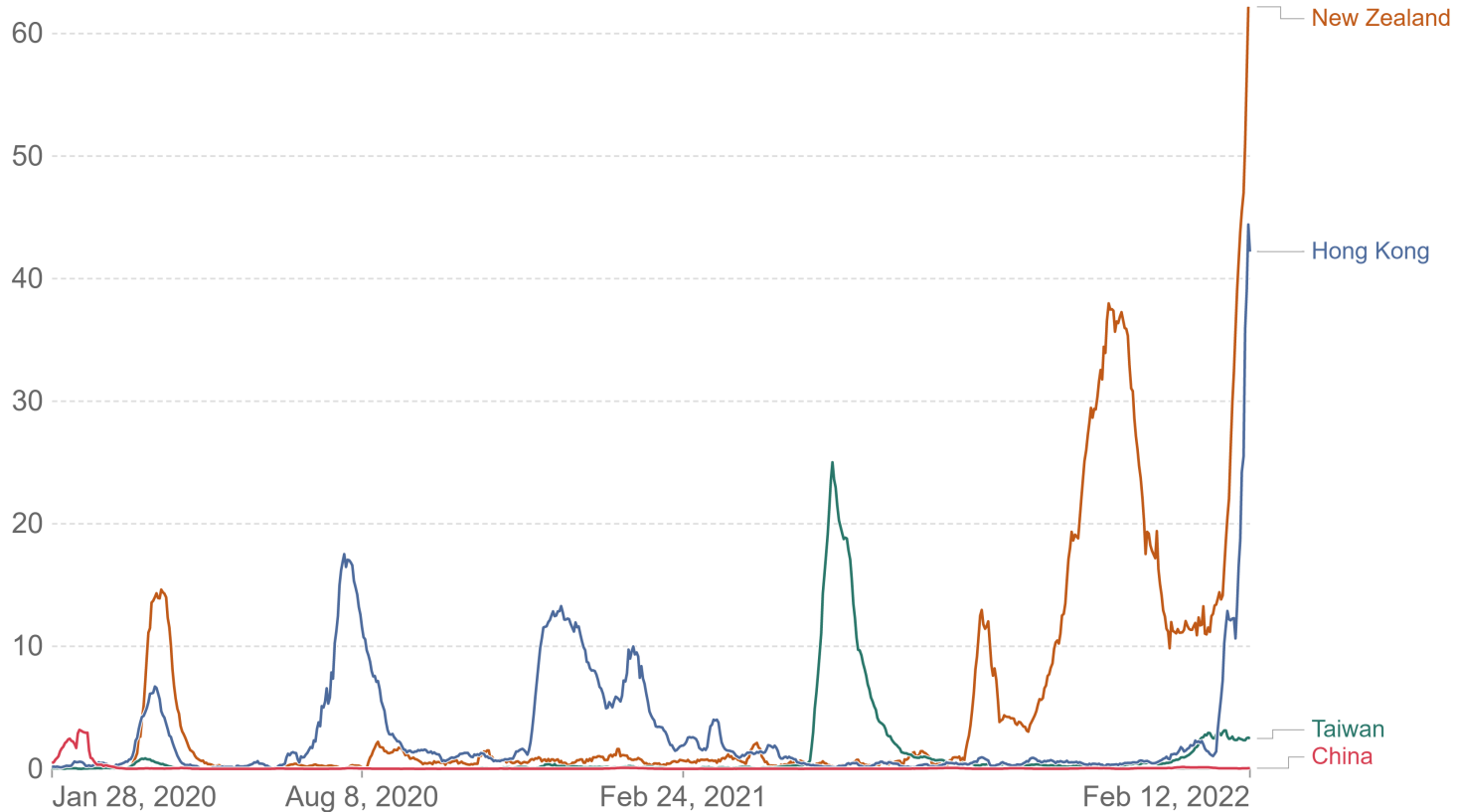


- Always maintained strict controls:
 - 21-day quarantines – recently reduced to 14 days
 - Hospitalized if test positive for COVID
 - Extensive testing programs
 - Restricted flights from certain countries
 - Vaccinations were initially slow but have increased:
 - 7.3% partially vaccinated
 - 65% fully vaccinated
 - 14% boosted
- Recent Surge:
 - Too many cases to admit all to hospital so now admissions on a prioritized basis – others under home isolation
 - Temporarily closing salons and houses of worship
 - Adding malls and grocery stores to a long list of public places that will require vaccination to enter
 - Some food supply issues

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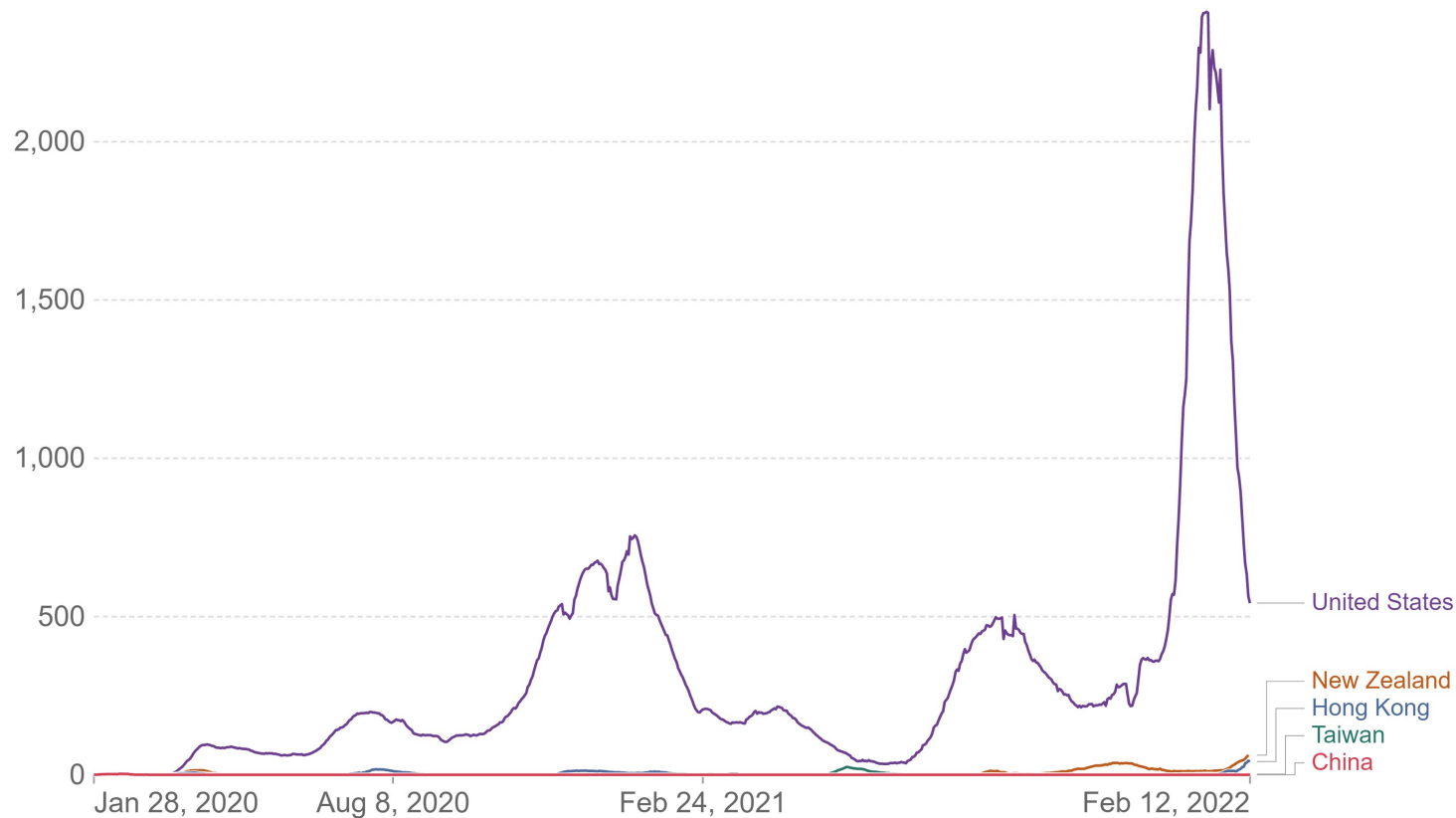
Our World
in Data



Source: Johns Hopkins University CSSE COVID-19 Data

Daily new confirmed COVID-19 cases per million people

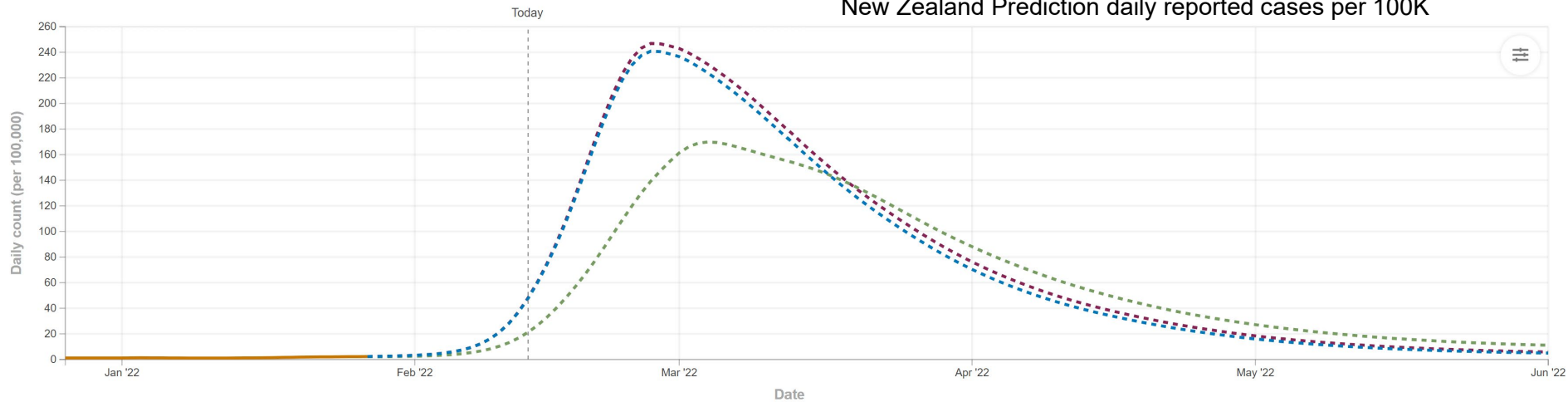
7-day rolling average. Due to limited testing, the number of confirmed cases is lower than the true number of infections.



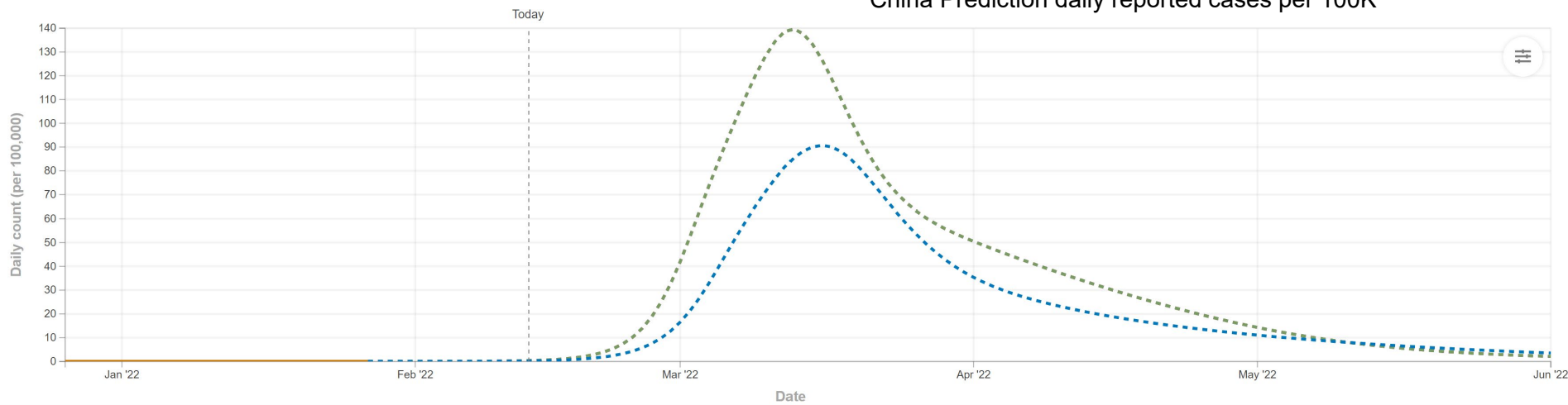
Source: Johns Hopkins University CSSE COVID-19 Data

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New Zealand Prediction daily reported cases per 100K



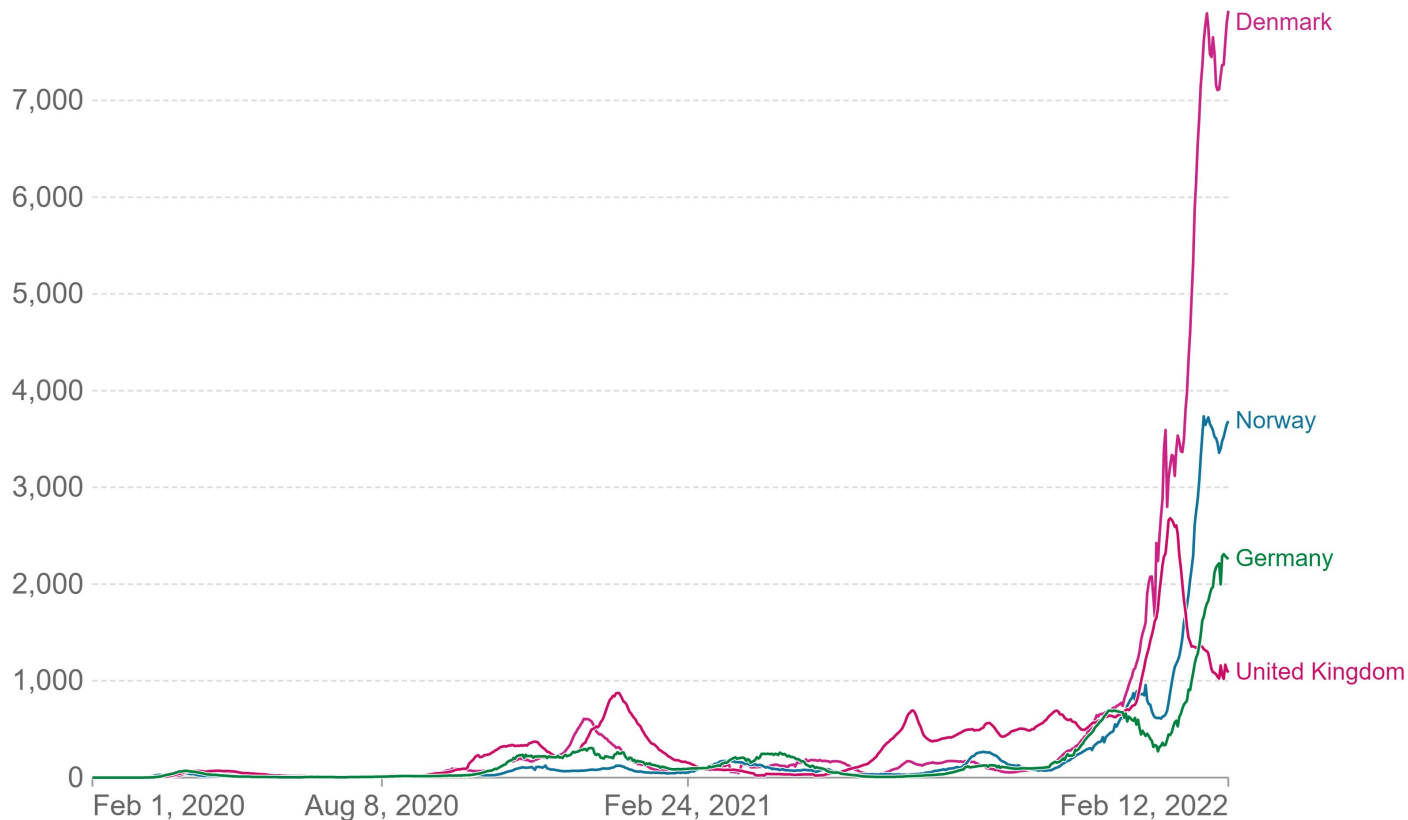
China Prediction daily reported cases per 100K



Daily new confirmed COVID-19 cases per million people

7-day rolling average. Due to limited testing, the number of confirmed cases is lower than the true number of infections.

Our World
in Data



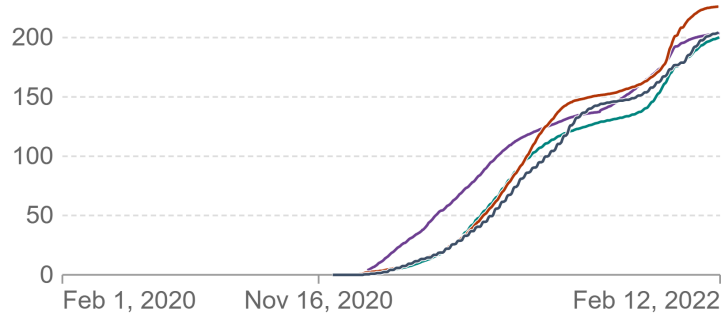
Source: Johns Hopkins University CSSE COVID-19 Data

COVID-19 vaccine doses, ICU patients, and confirmed deaths

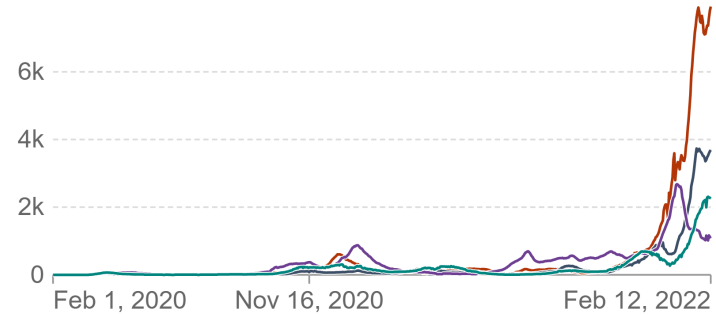
Limited testing and challenges in the attribution of cause of death means the cases and deaths counts may not be accurate.

■ Norway ■ Denmark ■ Germany ■ United Kingdom

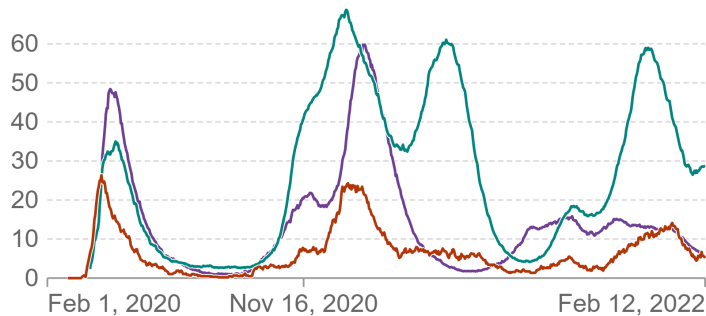
Vaccine doses (per 100)



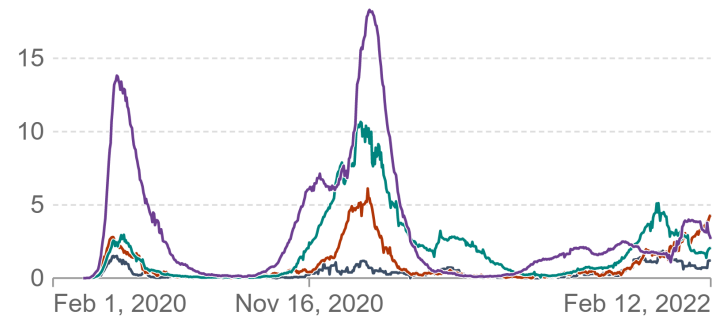
New cases (per 1M)



Patients in ICU (per 1M)



New deaths (per 1M)



The Fire is
past its peak
– it's safe to
go back in
now!





Be Patient



Questions

Upcoming NEBGH virtual events:

- Feb. 21 – NO Monday COVID-19 Update w/ Dr. Mark
- Feb. 27 –Monday COVID-19 Update w/ Dr. Mark
- Mar. 22 - Prevention and Support for Substance Use Struggles