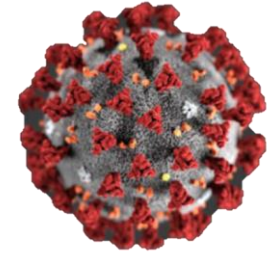


# New Hampshire Coronavirus Disease 2019 Weekly Call for Healthcare Providers and Public Health Partners



February 18, 2021

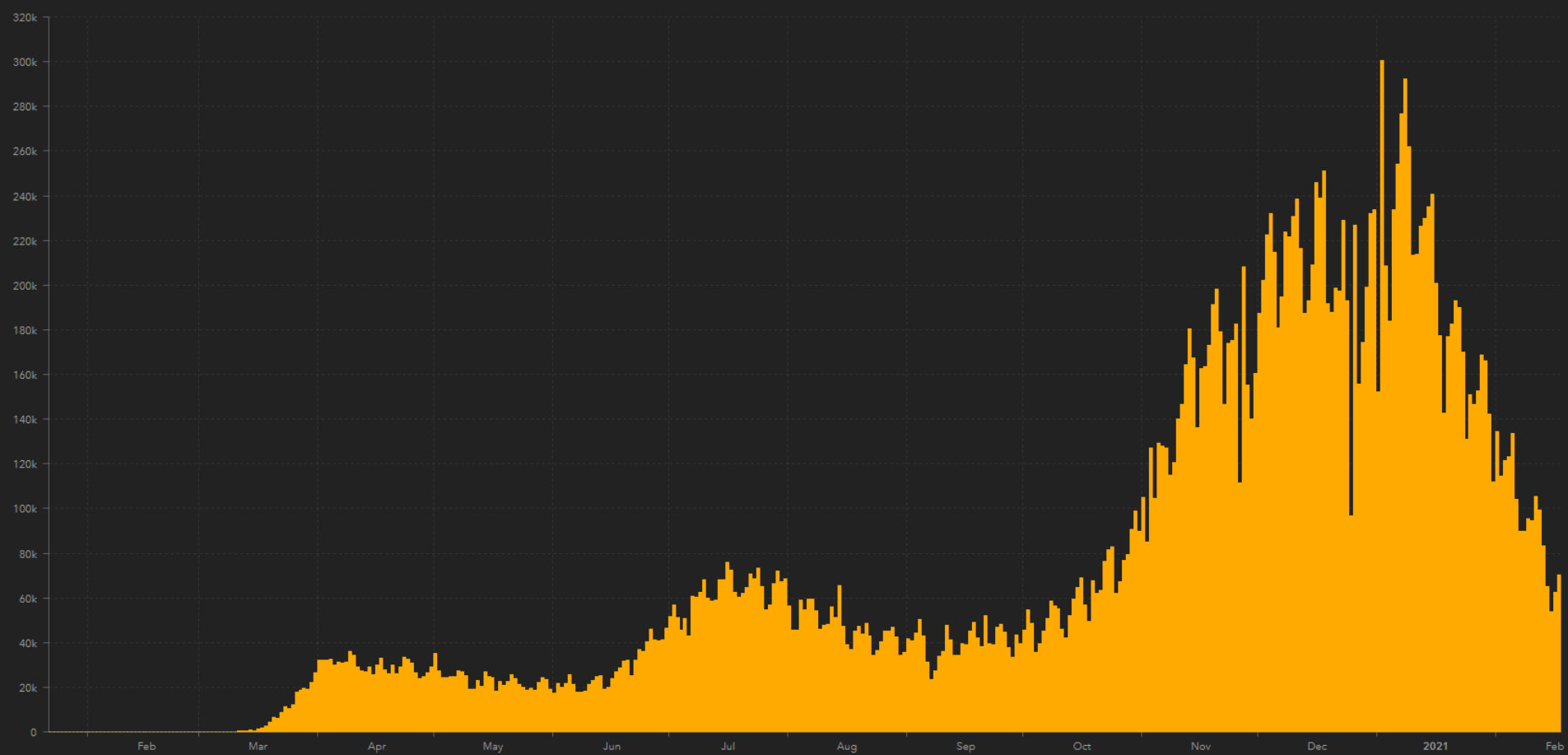
*Ben Chan  
Elizabeth Talbot  
Beth Daly  
Lindsay Pierce*

Thursday noon-time partner calls will focus on science, medical, and vaccine updates geared towards our healthcare partners

# Agenda

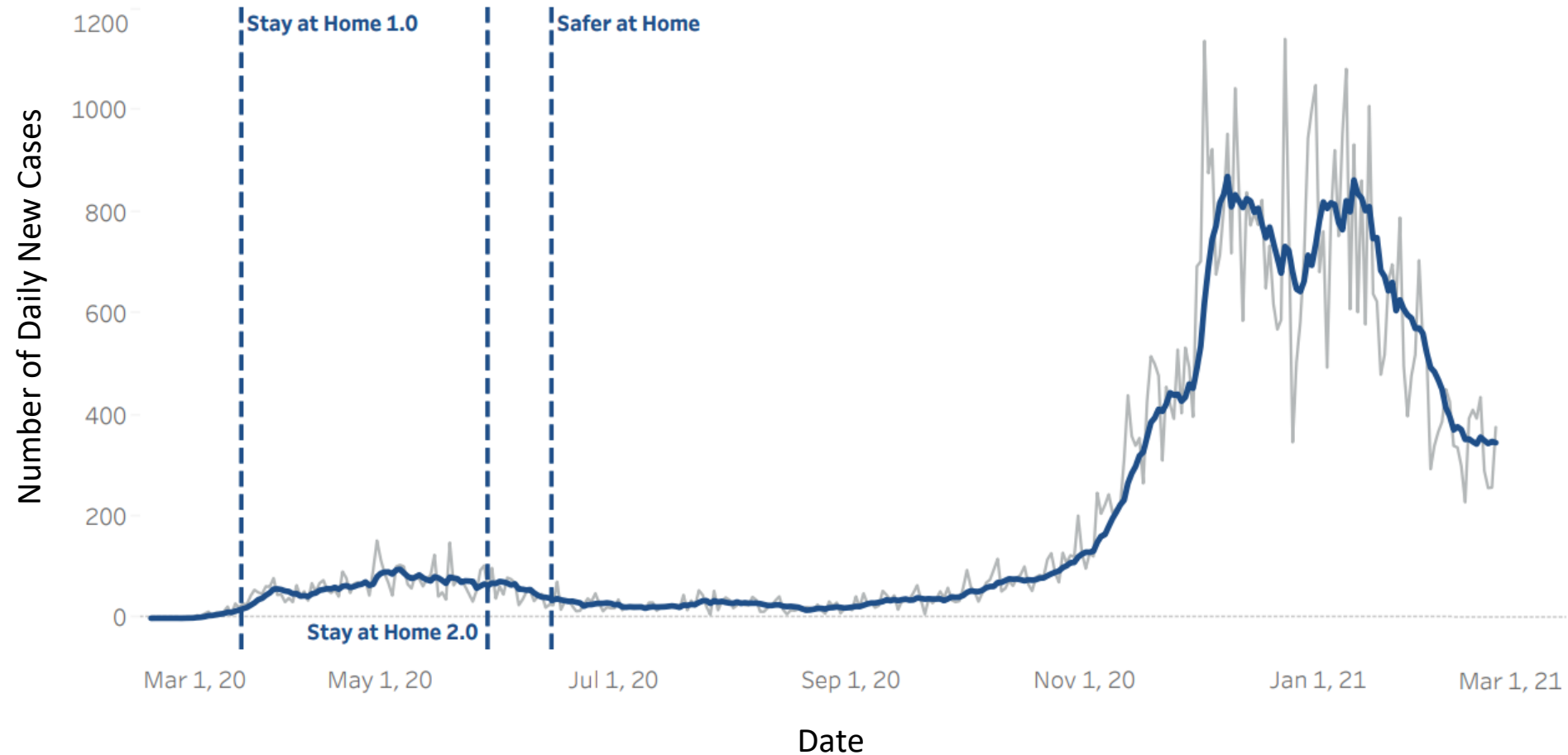
- Epidemiology Update
- NH [HAN #35](#): SARS-CoV-2 Variants of Concern
- [MMWR article](#): Detection of B.1.351 SARS-CoV-2 Variant Strain – Zambia, December 2020
- Questions & Answers (Q&A)

# National Daily Incidence of COVID-19



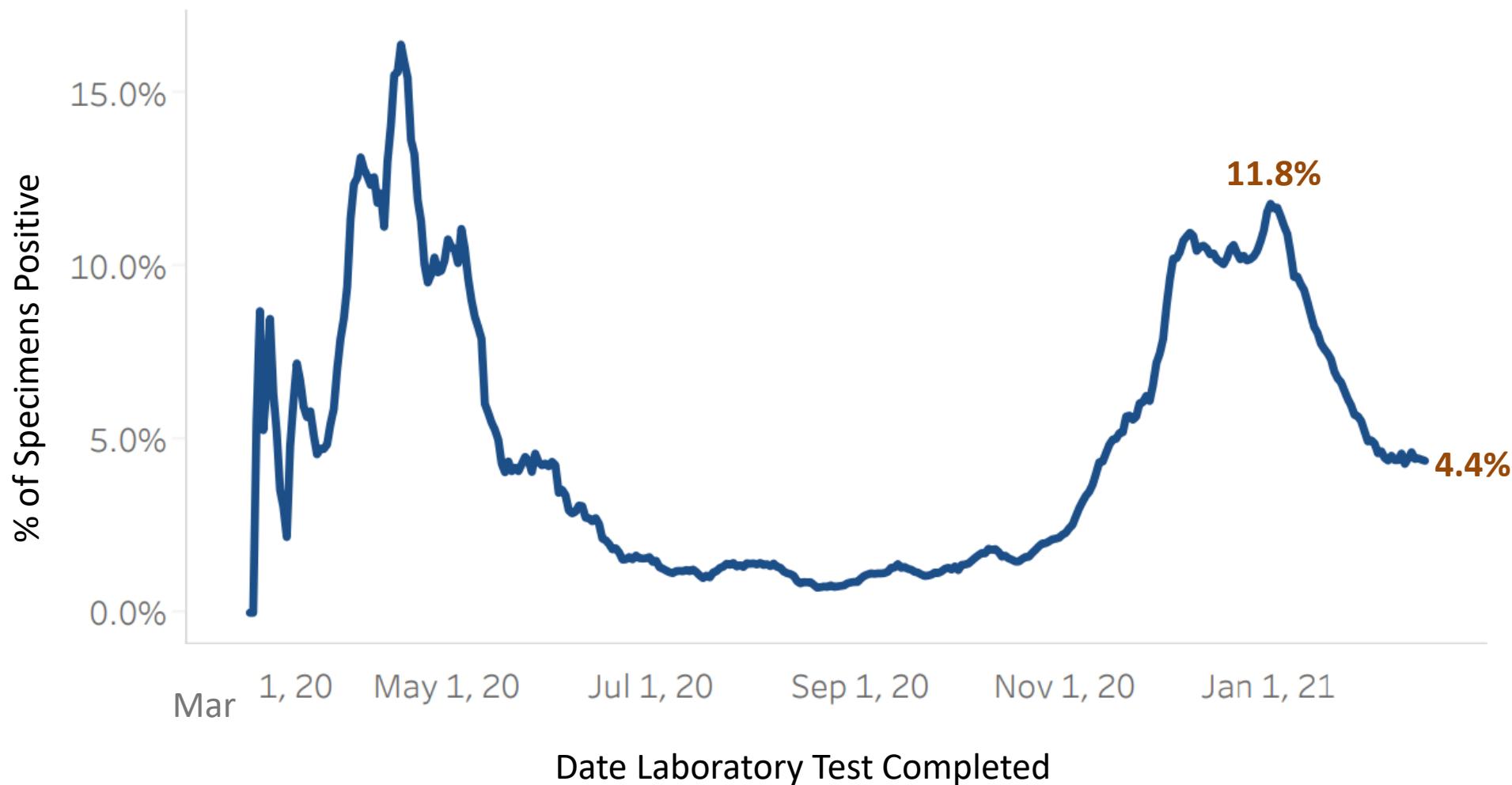
- More than 27.8 million cumulative cases in the U.S. (25% of all global infections)
- More than 490,000 deaths in the U.S. from COVID-19 (20% of all global deaths)

# Number of New COVID-19 Cases per Day in NH

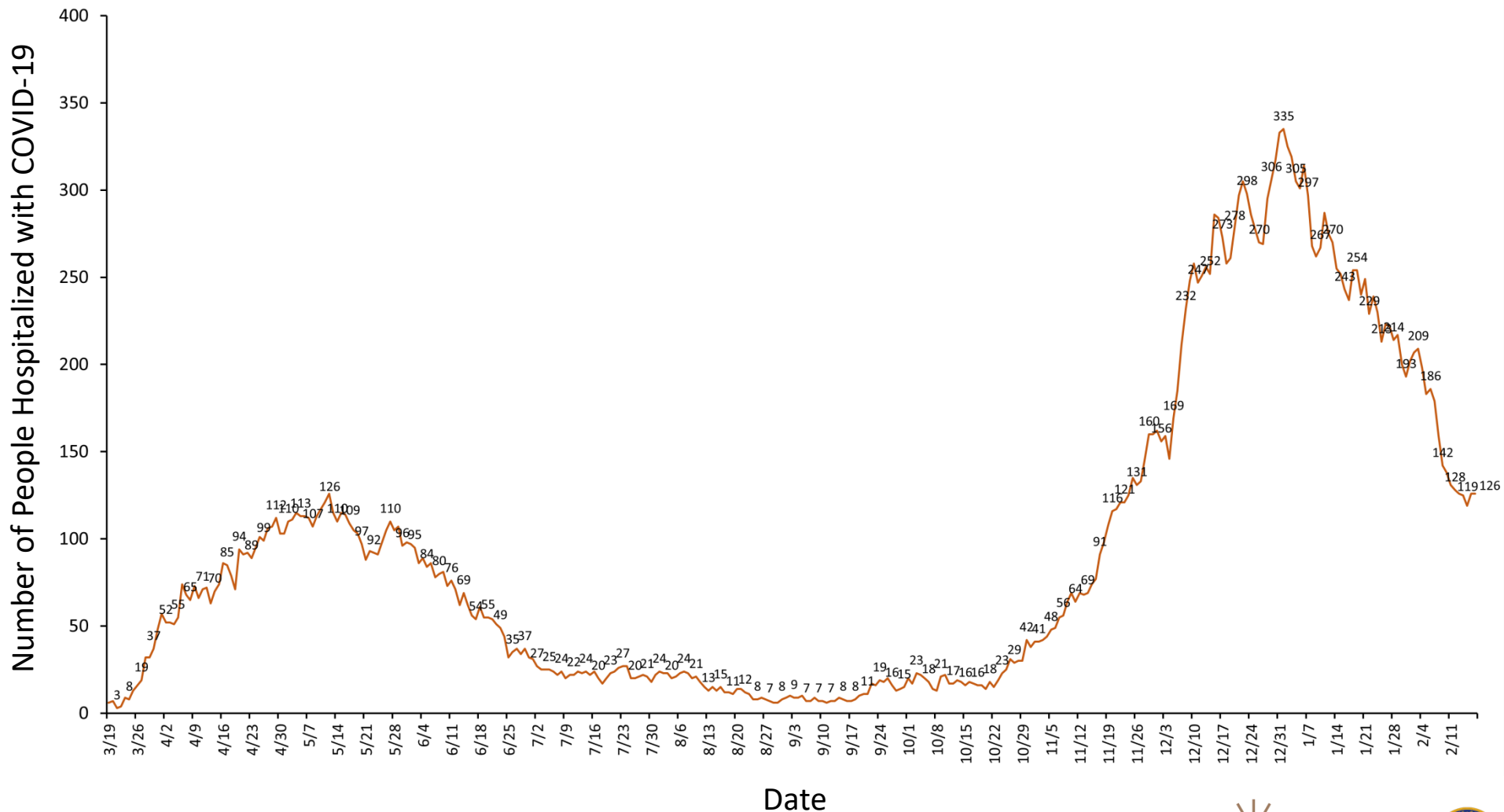


<https://www.nh.gov/covid19/dashboard/overview.htm#dash>

# % of Tests (Antigen and PCR) Positive for COVID-19 (7-Day Average)



# Number of People Hospitalized with COVID-19 Each Day in NH (Hospital Census)

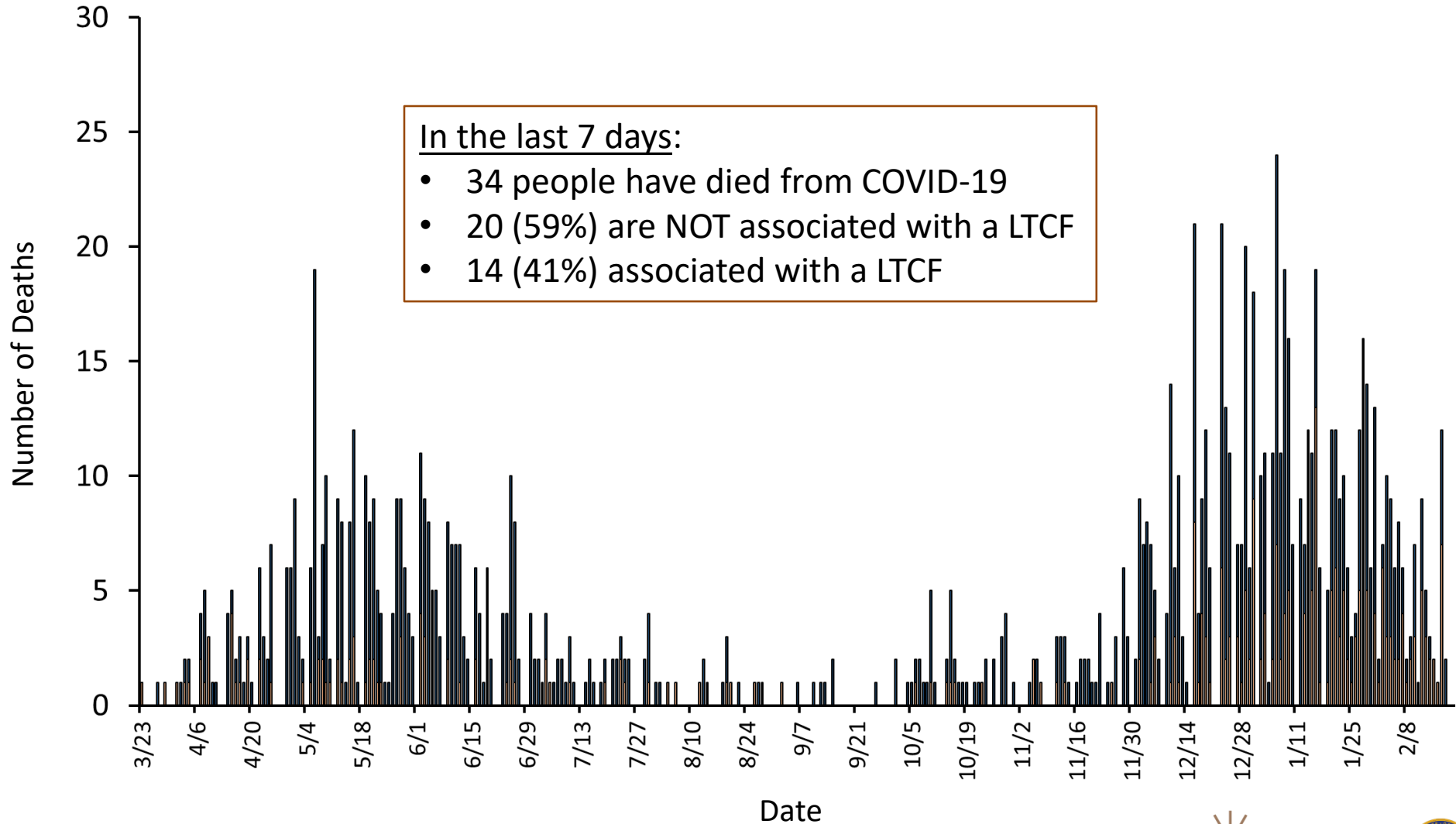


# Number of COVID-19 Deaths in NH by Report Date

■ Non-LTCF Associated    ■ LTCF Associated

In the last 7 days:

- 34 people have died from COVID-19
- 20 (59%) are NOT associated with a LTCF
- 14 (41%) associated with a LTCF



# THIS IS AN OFFICIAL NH DHHS HEALTH ALERT

Distributed by the NH Health Alert Network  
[Health.Alert@nh.gov](mailto:Health.Alert@nh.gov)  
February 12, 2021 Time 1600 (4:00 PM EDT)  
NH-HAN 20210212



## Coronavirus Disease 2019 (COVID-19) Outbreak, Update # 35 *SARS-CoV-2 Variants of Concern*

### Key Points and Recommendations:

- The SARS-CoV-2 B.1.1.7 variant has been identified for the first time in a NH resident related to international travel. Public health contact tracing has identified close household contacts, but no other community exposures. Public health isolation, quarantine and testing guidance was followed, including testing of household contacts.

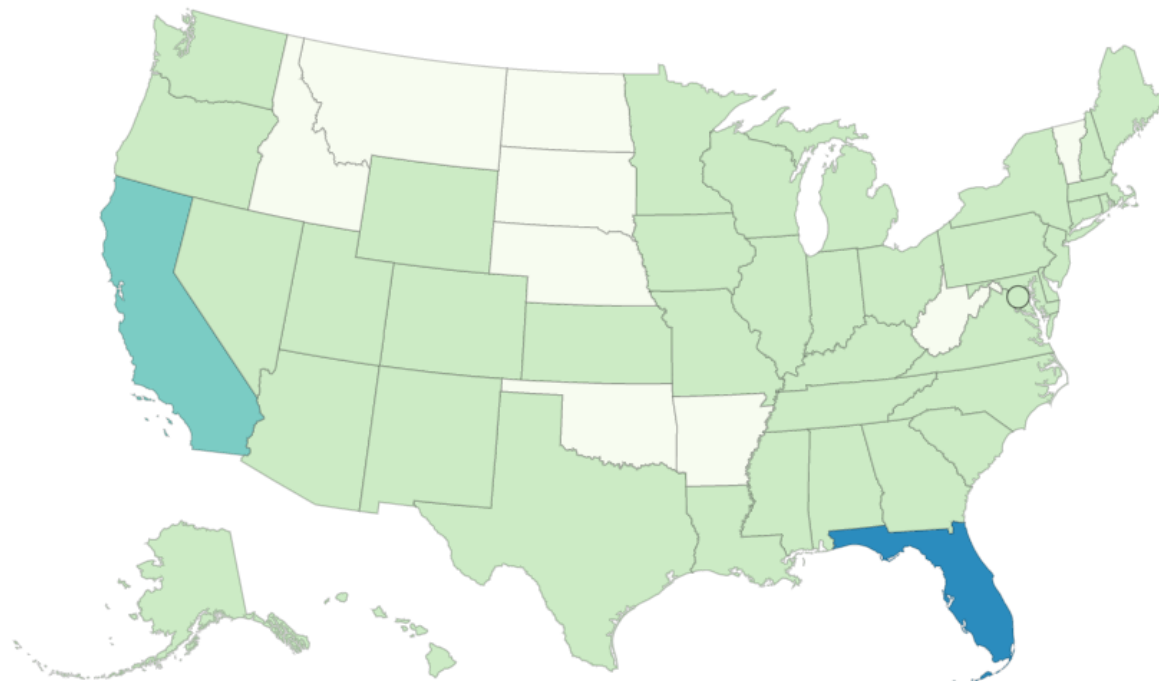


- DPHS continues to strongly recommend that any person with new or unexplained [symptoms of COVID-19](#) be tested, including people who are 14 days past completion of a COVID-19 vaccination series and people known to have been infected in the prior 90 days if there was recent travel or an identified COVID-19 exposure. Therefore, all healthcare providers should routinely ask any patient being evaluated for COVID-19 testing about:
  - Travel outside of New England (ME, VT, MA, RI, CT) in the prior 14 days
  - Previous SARS-CoV-2 infection in prior 90 days
  - Completion of an approved COVID-19 vaccination series
- Any person being tested for COVID-19 who meets any of the above criteria should have their specimen sent to the NH Public Health Laboratories (PHL) for COVID-19 testing and for genetic testing for these variants.
  - The PHL has revised the laboratory [COVID-19 Test Requisition form](#) to include ability to indicate if any of the above criteria are met.
  - Follow instructions for [specimen collection, handling and transport](#) to the NH PHL (also see information below).

# Variants of Concern (Current as of 2/16/21)

Variant	Reported Cases in US	Number of States Reporting
B.1.1.7	1277	42
B.1.351	19	10
P.1	3	2

# Variant B.1.1.7



## Number of Cases

- 0 to 0
- 1 to 100
- 101 to 200
- 401 to 500

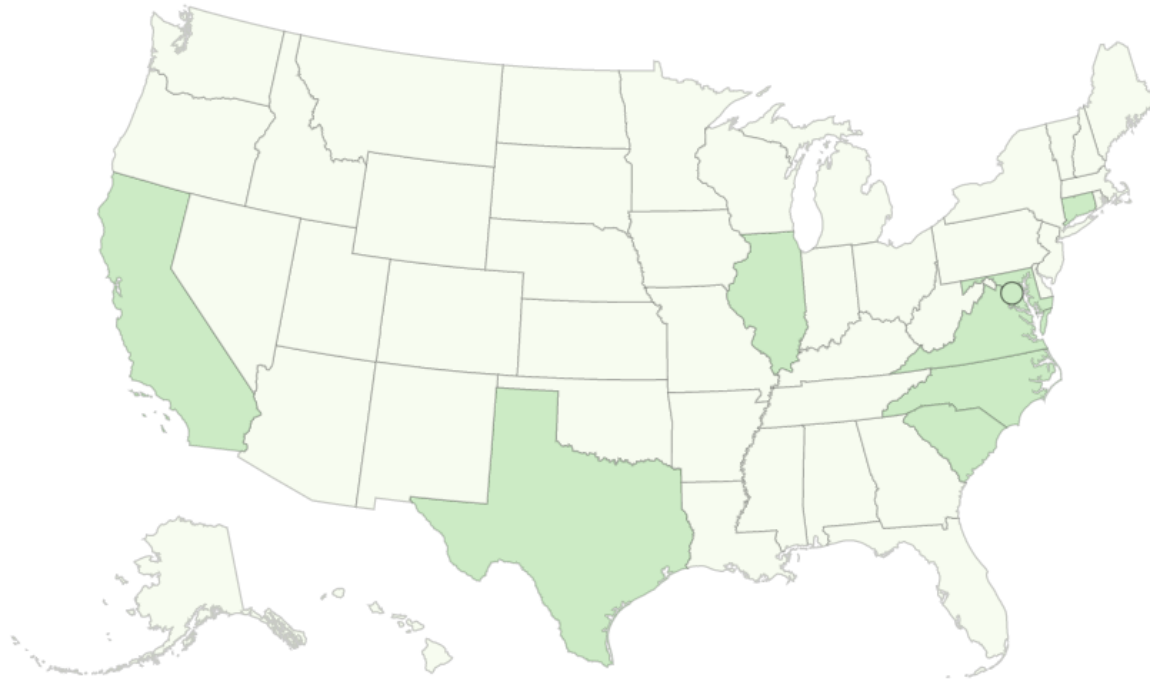
## Filters

Variant B.1.1.7 ▾

Territories AS GU MH FM MP PW PR VI



# Variant B.1.351



## Number of Cases

- 0 to 0
- 1 to 100
- 101 to 200
- 401 to 500

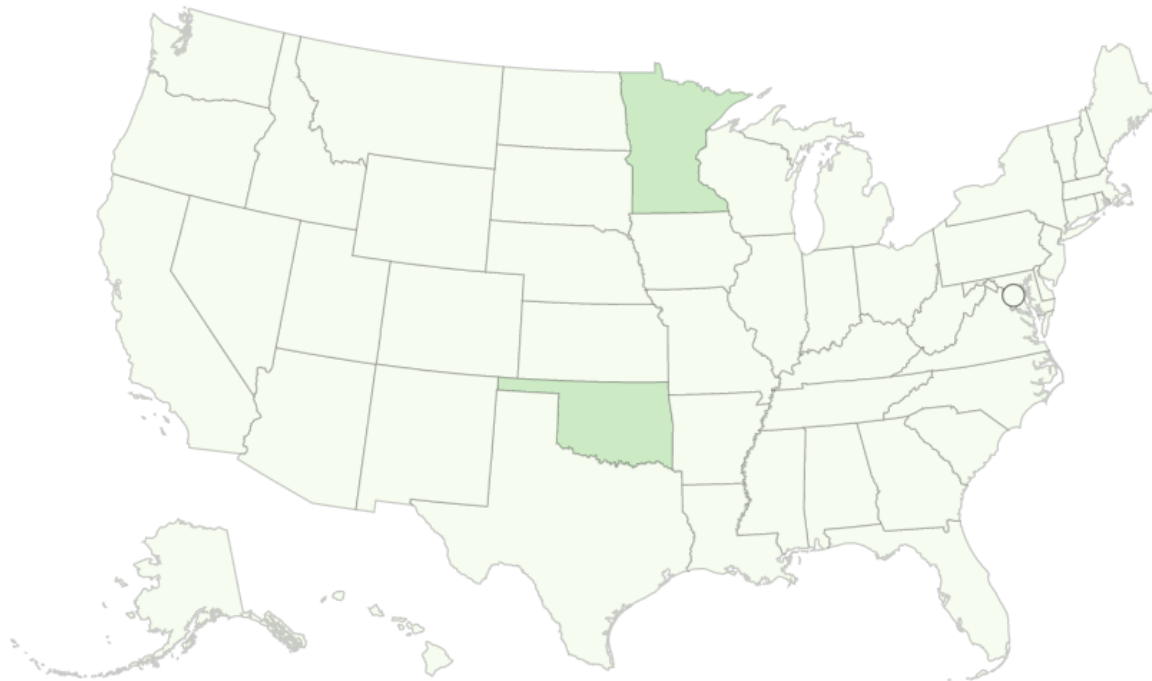
## Filters

Variant B.1.351 ▾

Territories AS GU MH FM MP PW PR VI



# Variant P.1



## Number of Cases



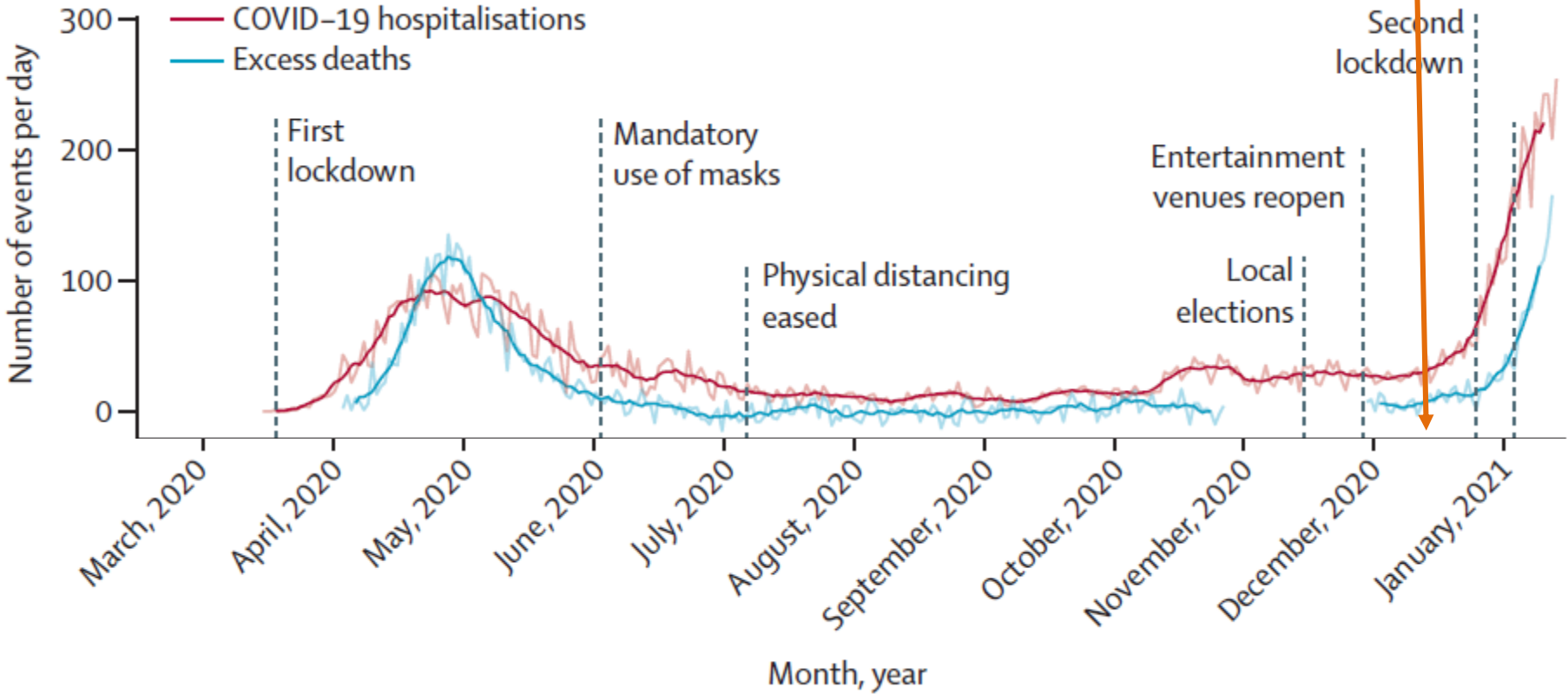
## Filters

Variant P.1

Territories AS GU MH FM MP PW PR VI



# Resurgence of COVID-19 in Manaus, Brazil, despite high seroprevalence

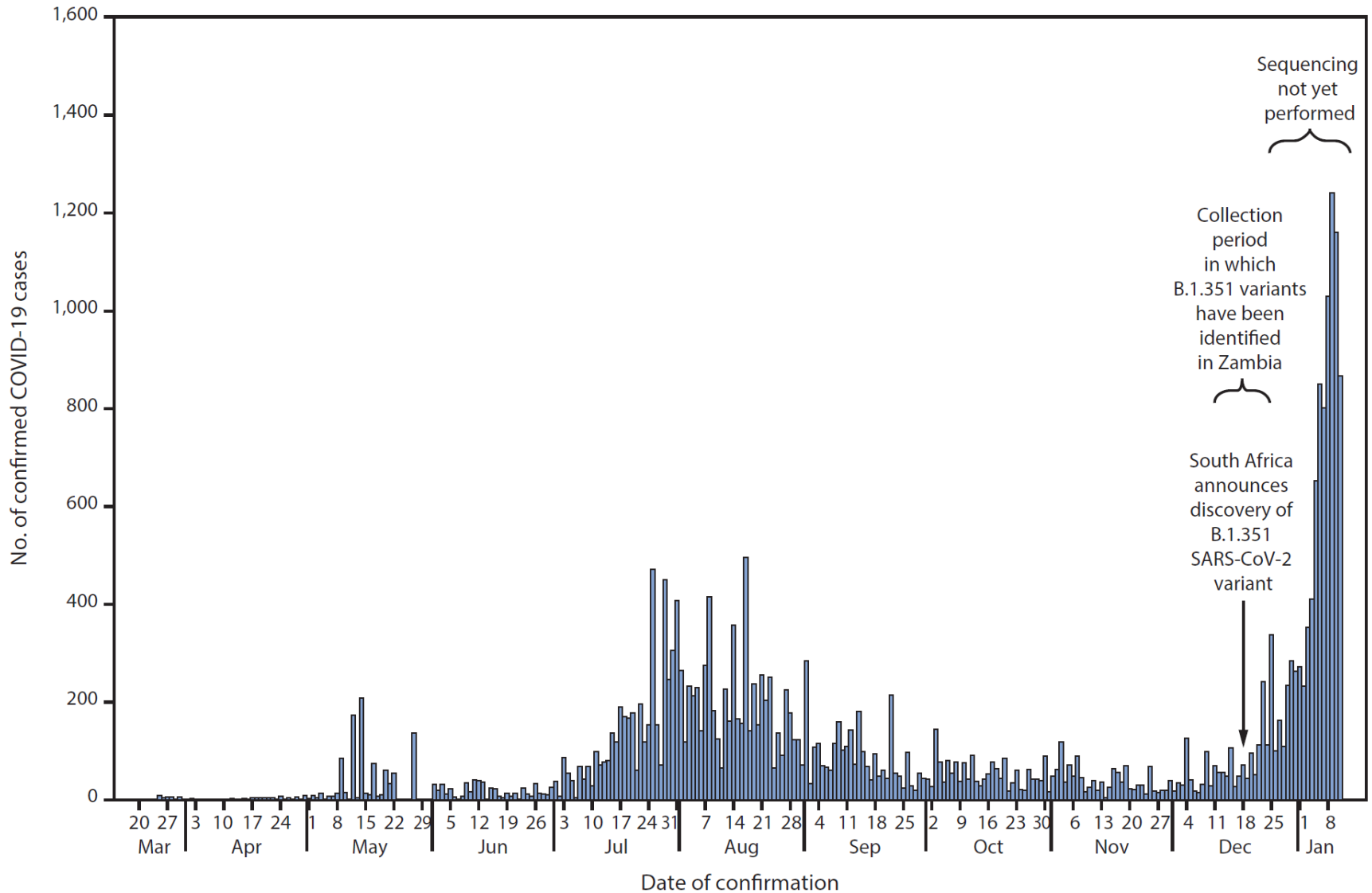


Earliest Detection of P.1 Lineage of SARS-CoV-2 Virus

## Detection of B.1.351 SARS-CoV-2 Variant Strain — Zambia, December 2020

- Zambia has been conducting genetic epidemiologic studies using whole genome sequencing (WGS) on SARS-CoV-2 positive specimens since September 2020
- Average number of daily cases increased 16-fold from 44 cases (beginning of December) to 700 cases (beginning of January)
- B.1.351 variant first detected in specimens collected December 16-23, 2020
  - 23 specimens collected, 96% were B.1.351 variant
  - None of the 245 previous sequenced genomes were from this lineage

FIGURE. Reported laboratory-confirmed COVID-19 cases, by date of confirmation — Zambia, March 20, 2020–January 11, 2021





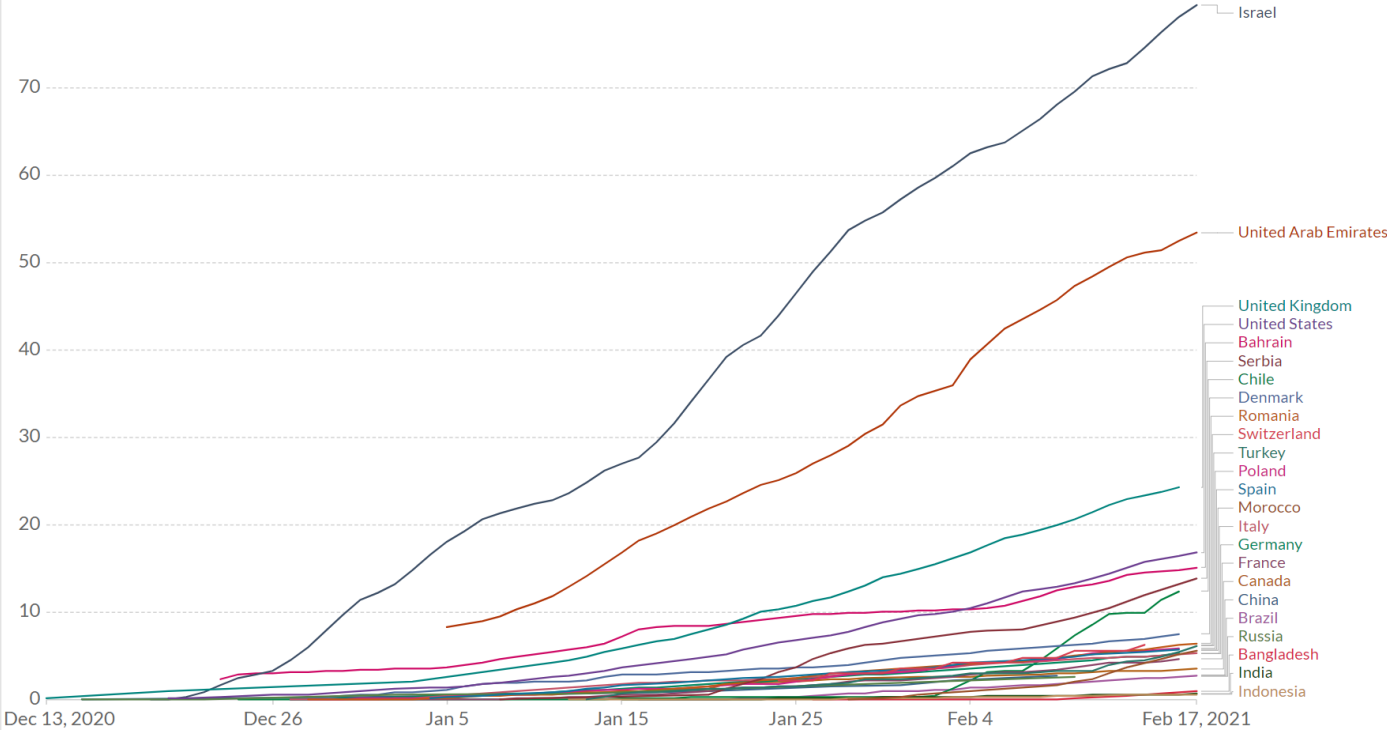
# The Vaccination Effects in Israel

## COVID-19 vaccine doses administered per 100 people

Total number of vaccination doses administered per 100 people in the total population. This is counted as a single dose, and may not equal the total number of people vaccinated, depending on the specific dose regime (e.g. people receive multiple doses).

Our World  
in Data

LINER LOG + Add country



Source: Official data collated by Our World in Data - Last updated 18 February, 14:40 (London time)

OurWorldInData.org/coronavirus • CC BY

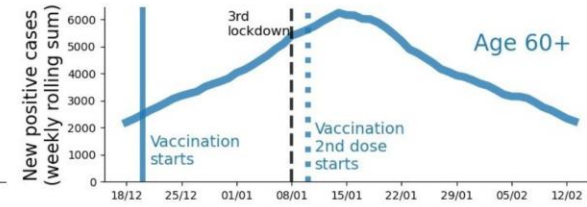
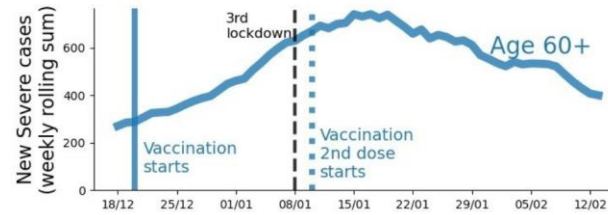




# Association Among Elderly

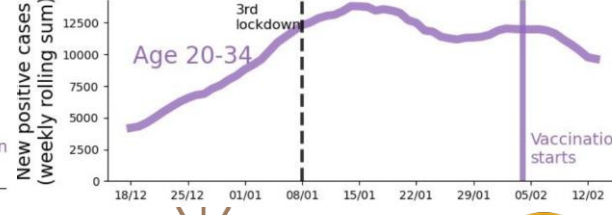
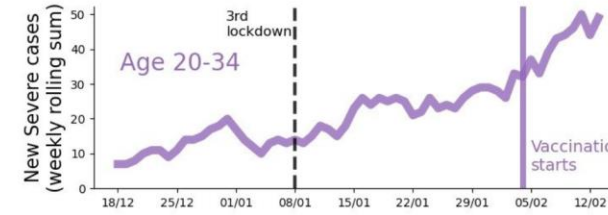
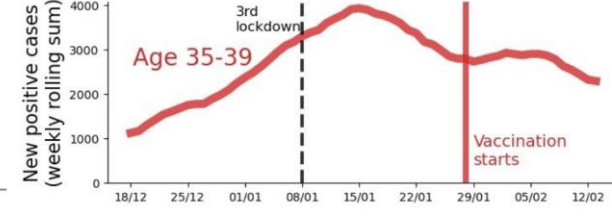
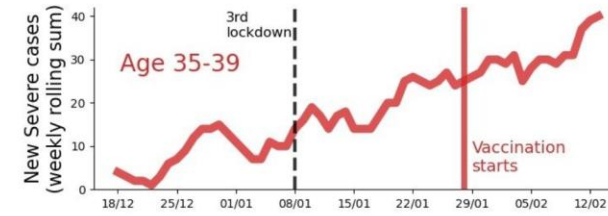
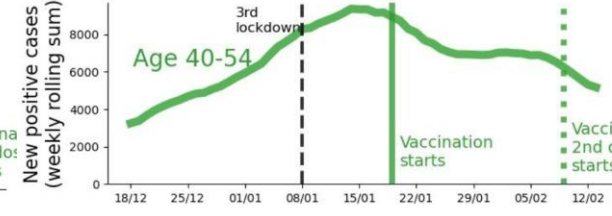
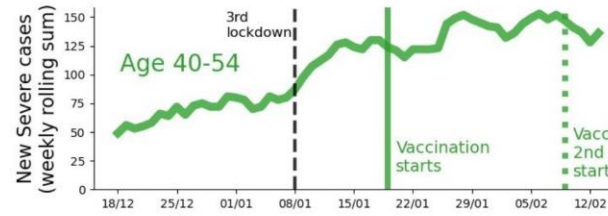
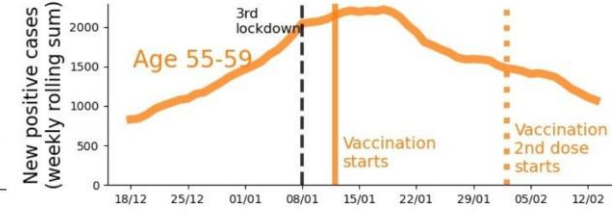
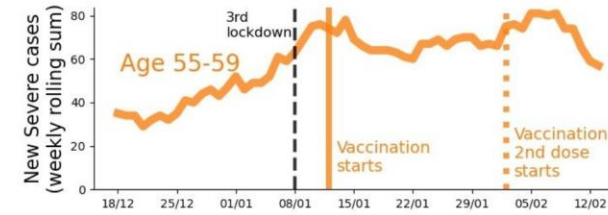
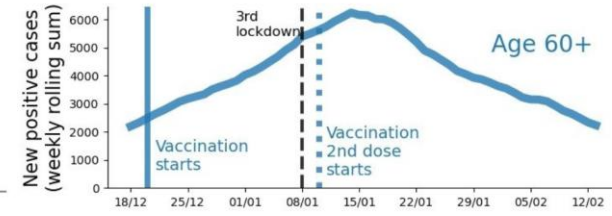
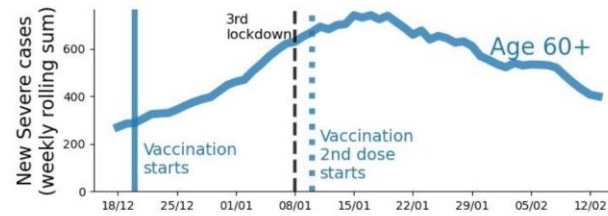
- Report [in Nature](#) indicates that in Israel the incidence among [adults >60](#) decreased 41% from Jan to Feb, including 31% decrease in hospitalizations
  - In contrast, incidence and hospitalizations fell by 12% and 5% among younger
  - Stronger effect in cities where proportion >85%

Computational  
Evidence of  
Vaccine  
Impact  
“The Magic is  
Starting”



# Computational Evidence of Vaccine Impact

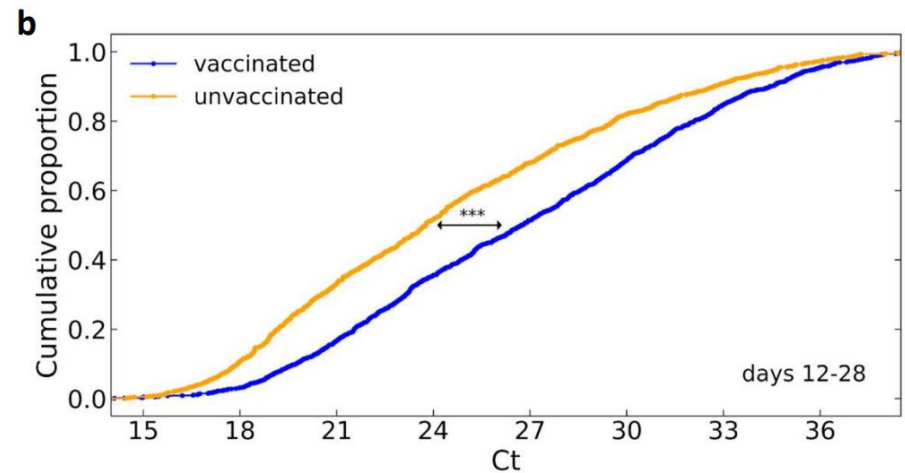
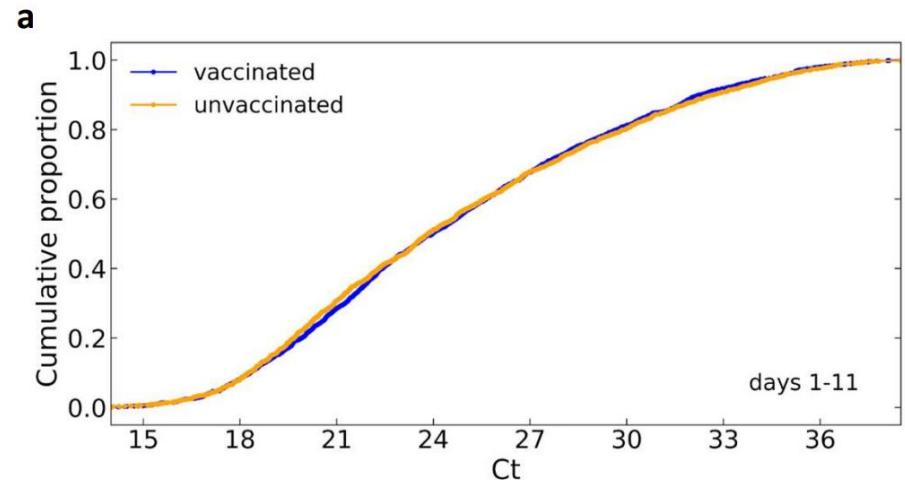
“The Magic is Starting”



# Less Virus in Vaccine Failures in Israel

[Preprint](#) quantitative PCR results from cases vaccinated with Pfizer

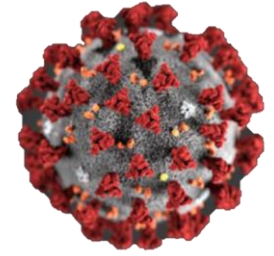
- Case control of ~3,000 patients Dec 23-Jan 5, 2021
- 4-fold decrease in viral load in specimens collected  $\geq 12$  days after vaccination



## Israel (B.1.1.7) Pfizer Efficacy

- According to [data from the Israeli MoH](#), 531 of 750,000 fully vaccinated people >60 years old tested positive (0.07%)
  - Of positives, 38 were hospitalized
- At HMO A, 500,000 doses given
  - 1w after second dose only 544 (0.1%) of vaccinees diagnosed with SARS-CoV-2 infection, with 4 severe cases and 0 deaths
  - Effectiveness of 93% compared to 500,000 controls
- At HMO B, 600,000 vaccinees 2w after second dose
  - 94% fewer symptomatic cases versus controls were reported
  - Equivalent efficacy was seen in those aged > 70y

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