



# The State We're In

An Update on COVID-19, the variants and the vaccines

A Healthy Living Series event presented by Dartmouth-Hitchcock Health

With Dr. Michael Calderwood, MD, MPH,  
Chief Quality Officer at Dartmouth-Hitchcock Medical Center

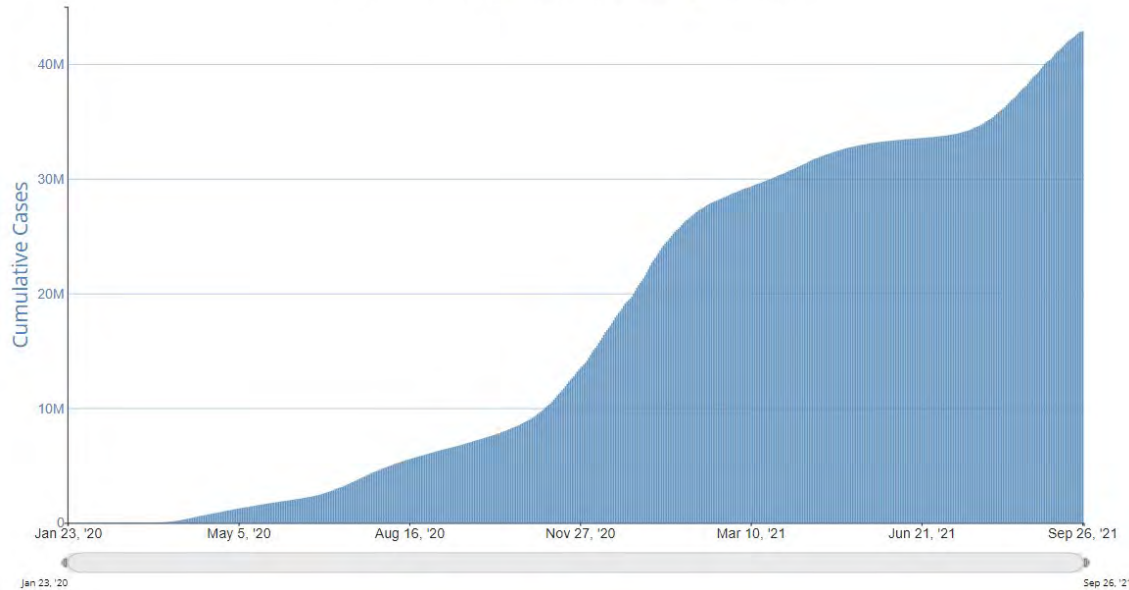
# Current COVID-19

## Trends

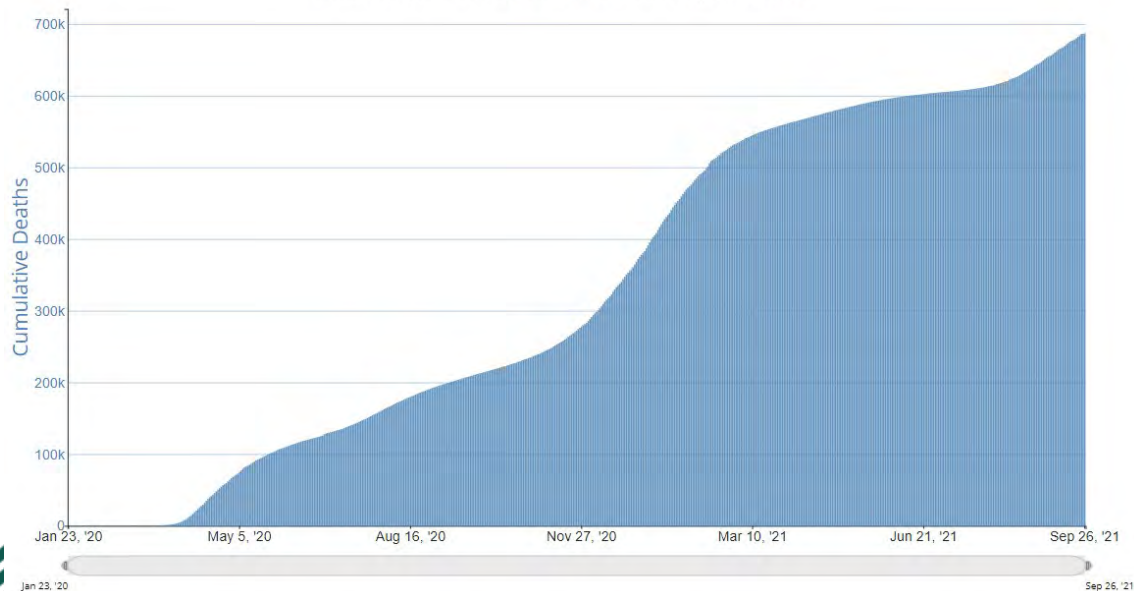
- Beginning in late July 2021, we again saw a rapid rise in new COVID-19 cases followed ~2 weeks later by a rise in the death toll

- *Currently averaging ~95,000 new cases diagnosed per day in the United States (down from 160,000 earlier in September)*
- *687,000 reported COVID-19 deaths in the United States as of 9/26/21*
- *United States deaths including estimated unreported COVID-19 deaths crossed 1 million on 9/5/21*

Trends in Total Cases in The United States Reported to CDC



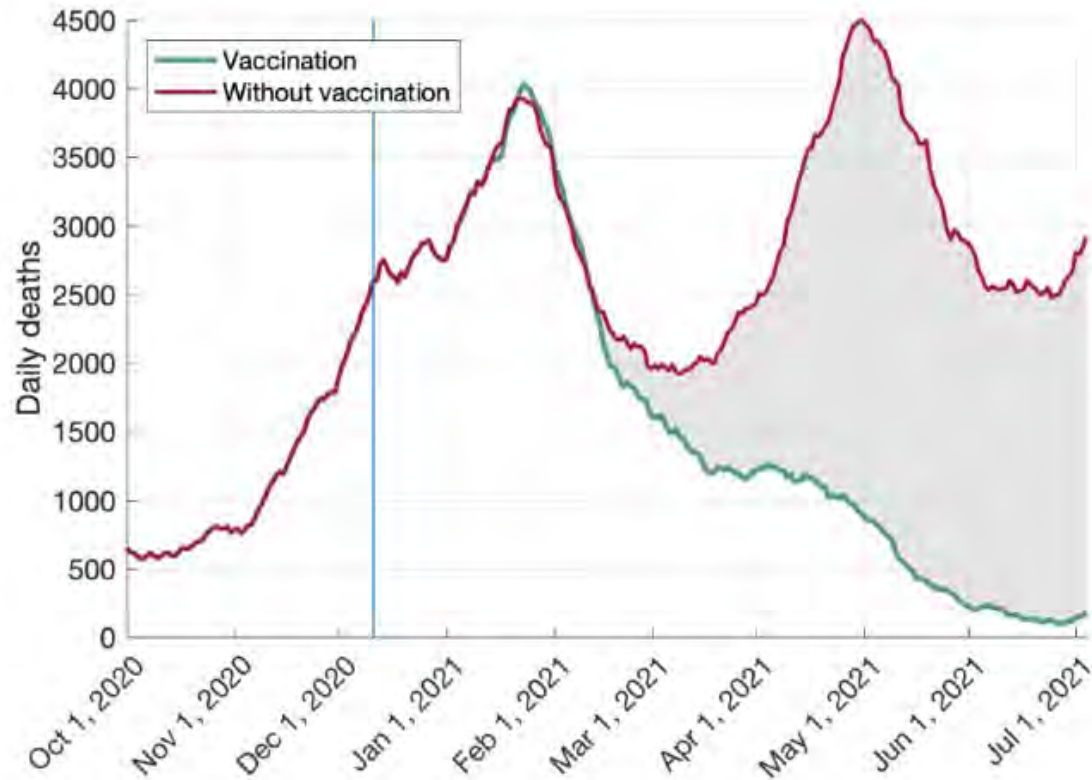
Trends in Total Deaths in The United States Reported to CDC



<https://covid.cdc.gov/covid-data-tracker/>

<https://covid19.healthdata.org/united-states-of-america>

## Estimated U.S. seven-day rolling average of daily deaths with and without vaccination

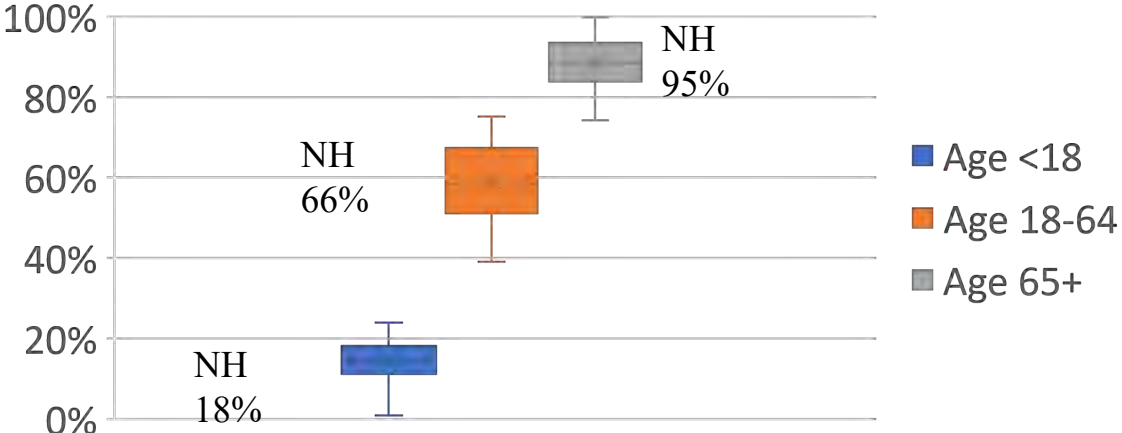


Source: Alison Galvani, Seyed M. Moghadas, and Eric C. Schneider, *Deaths and Hospitalizations Averted by Rapid U.S. Vaccination Rollout* (Commonwealth Fund, July 2021). <https://doi.org/10.26099/wm2j-mz32>

## Impact of Vaccines

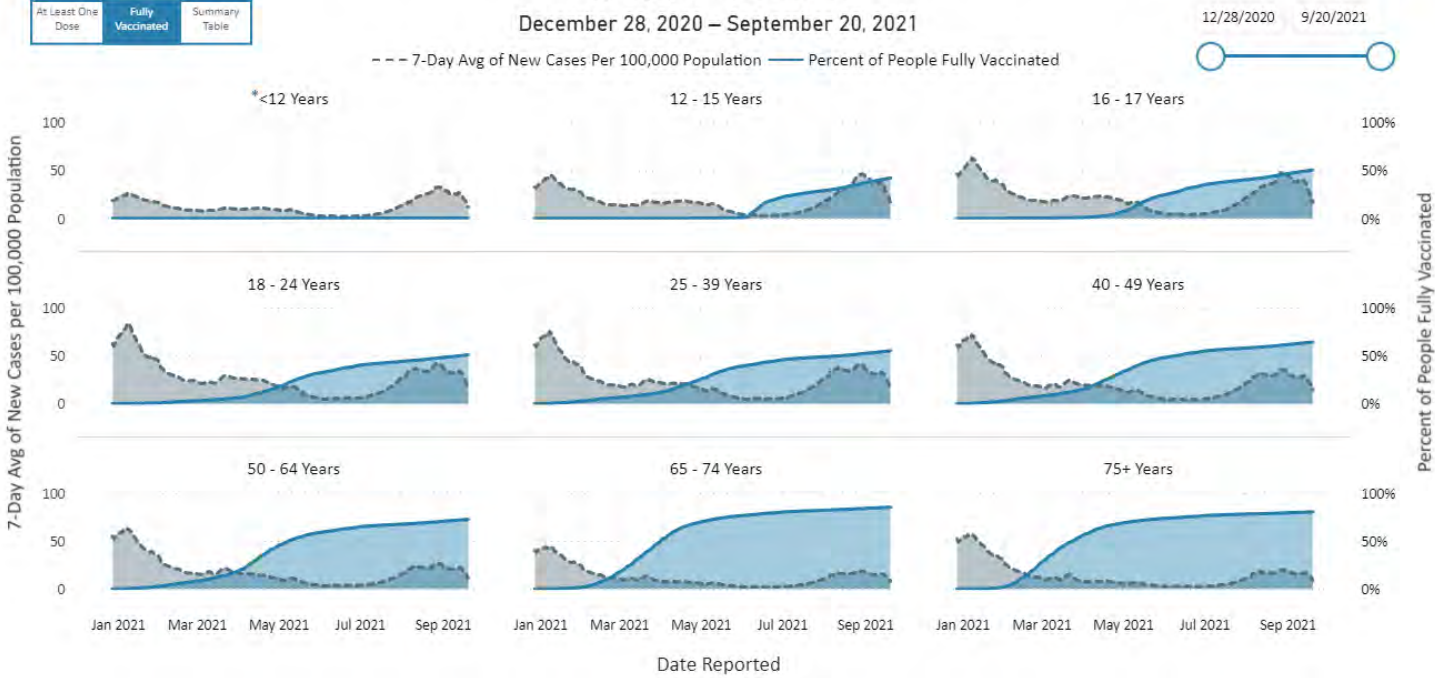
- **COVID-19 vaccines are estimated to have prevented:**
  - *~140,000 U.S. deaths by early May 2021*
  - *~279,000 U.S. deaths by the end of June 2021*
- Given recent hospital surges involving unvaccinated patients, **preventable deaths continue to rise**
  - *No one has yet published on the true number of prevented deaths through September 2021 (nor the number that could have been prevented with higher rates of vaccination)*

# Vaccine Hesitancy



- **At present, only 55% of the U.S. population is fully vaccinated**
  - *65+ Range by State: 74-99%*
  - *18-64 Range by State: 44-75%*
  - *<18 Range by State: 1-24%*

Percent of People Fully Vaccinated and Cases per 100,000 Population, by Age, United States

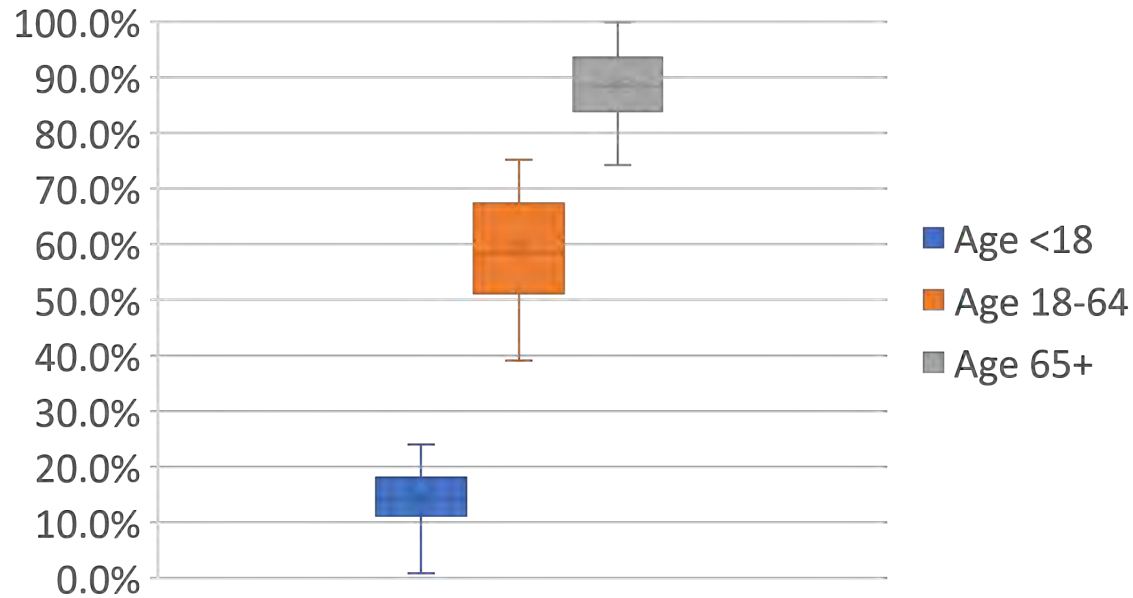


- ***True blunting of new cases occurs when vaccination rates are at least >75%***

<https://www.mayoclinic.org/coronavirus-covid-19/vaccine-tracker>  
<https://covid.cdc.gov/covid-data-tracker/#vaccinations-cases-trends>



# Vaccine Hesitancy



- **Impact**

- *7 out of 9 states with the highest ICU occupancy are in lowest quartile for vaccination, with unvaccinated >10x more likely to be hospitalized and to die*
- *Shift to younger ages*
- *Children 3x more likely to go to ED and 4x more likely to be hospitalized in U.S. states in lowest quartile for vaccination, with unvaccinated children 10x more likely to be hospitalized*
- *Significantly worse health and birth outcomes in unvaccinated pregnant women*

After Delta became the most common variant,\* fully vaccinated people had reduced risk<sup>†</sup> of...

INFECTION	HOSPITALIZATION	DEATH
<b>5X</b>	<b>&gt;10X</b>	<b>&gt;10X</b>

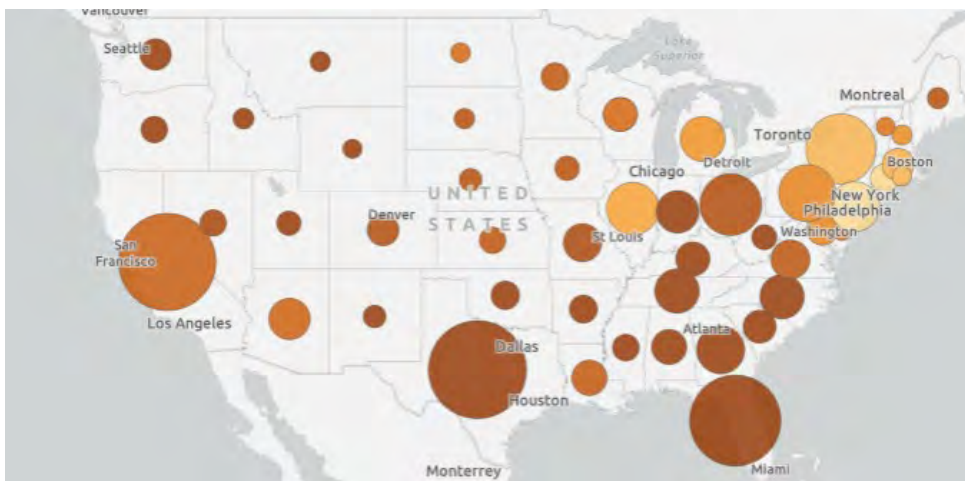
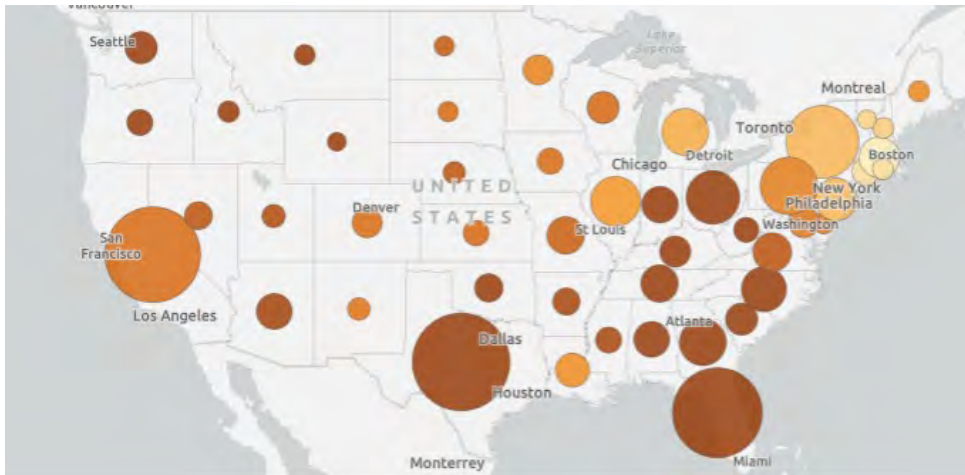
Vaccination offers strong protection against COVID-19

\* June 20-July 17, 2021  
† Compared with people not fully vaccinated

 [bit.ly/MMWR91021](https://bit.ly/MMWR91021) 

# U.S. Healthcare System Challenged Like Never Before

- Currently 1 in 9 inpatients and 1 in 3-4 patients in ICUs in the U.S. are hospitalized with COVID-19
- COVID-19 accounts for 20% or more of inpatient populations in 10 states: Alabama, Georgia, Idaho, Kentucky, Montana, South Carolina, Tennessee, Texas, West Virginia, Wyoming



Largest circles in states with >50,000 hospitalized patients with COVID-19 and >7,300 ICU patients with COVID-19



# COVID-19 Dashboards

[New Hampshire](#)

[Vermont](#)

## Vaccines for Children 5-11

[AAP Article](#)

[NPR Article](#)

## Where to get vaccinated

[Vermont Vaccination Information](#)

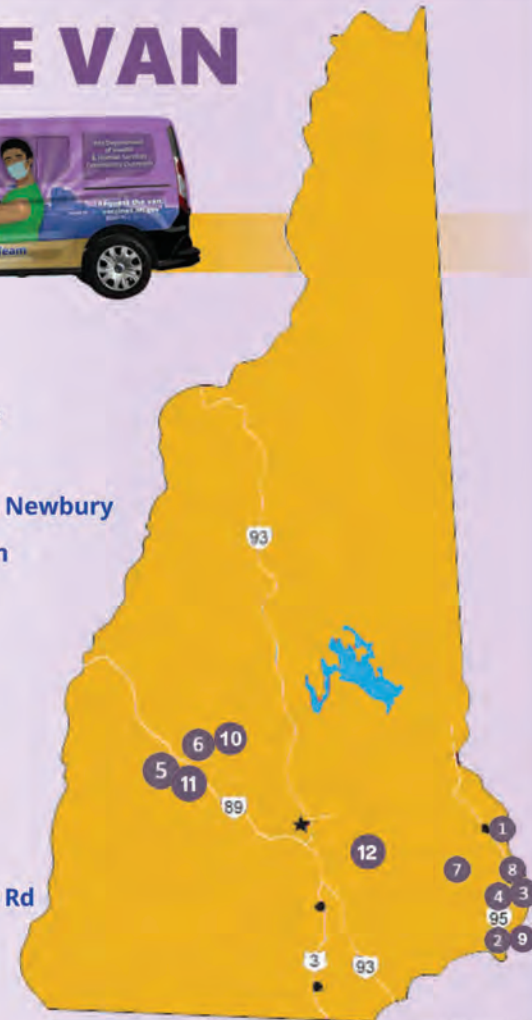
[New Hampshire Vaccine Information- Vaccine Finder/Vaccines.gov](#)

# NH MOBILE VACCINE VAN LOCATIONS

## WEEKLY SCHEDULE



- 1 9/20 8am - 12pm First Parish Church, Dover
- 2 9/20 1:30 - 6pm Hampton Beach, 180 Ocean Blvd.
- 3 9/21 8am - 1pm Wallis Sands Beach, 1050 Ocean Blvd, Rye
- 4 9/21 2pm - 7pm Rye Fire Department
- 5 9/22 8 - 12:30pm Lake Sunapee Beach, 86 Beach Access Rd, Newbury
- 6 9/22 2pm - 6pm KLS Food Pantry, 462 Main St. New London
- 7 9/23 1pm - 6pm Newmarket Community Church
- 8 9/24 9am - 1pm Gather Pantry Market  
100 Campus Dr, Portsmouth
- 9 9/24 1:30 - 3pm Hampton Beach, 180 Ocean Blvd.
- 10 9/25 9am - 12pm Andover Fire Dept, 169 Main St.
- 11 9/25 1pm - 6pm Lake Sunapee Beach  
86 Beach Access Rd, Newbury
- 12 9/26 8 - 12pm Pawtuckaway State Park, 7 Pawtuckaway Rd



Map is for graphical purposes only, it does not represent a legal survey. 9/7/21





# Other resources

[Is The Worst Over? Models Predict A Steady Decline In COVID Cases Through March,](#)  
NHPR, September 22, 2021

[Information about COVID-19,](#) Dartmouth-Hitchcock Health