



NORTHEAST
BUSINESS GROUP ON HEALTH

COVID-19 Update

Dr Mark Cunningham-Hill

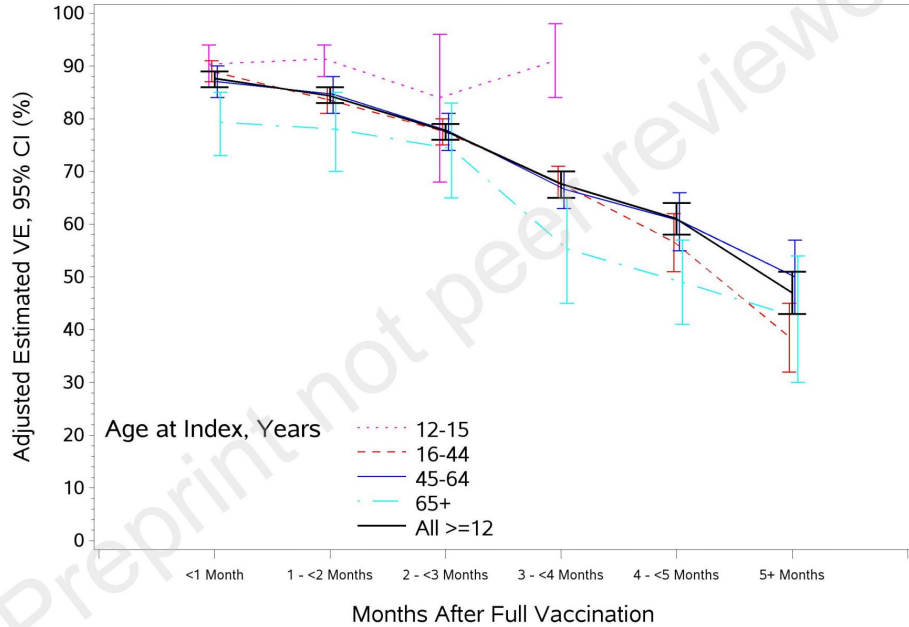
Medical Director, NEBGH

Monday August 30th 2021

Booster Questions?

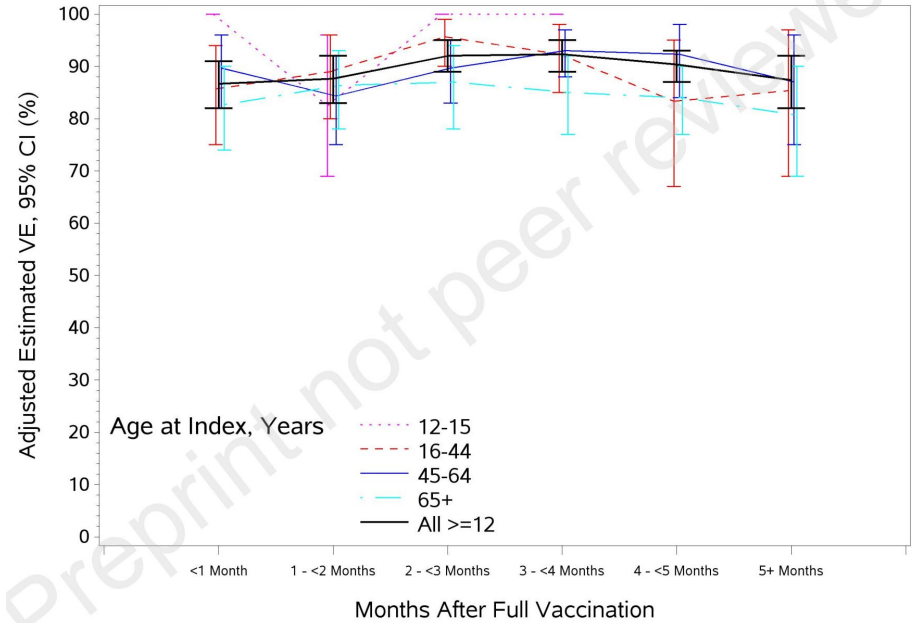
- Why are boosters needed?

C4591014 VE study, Age 12+



Protection Against Infections

C4591014 VE study, Age 12+



Protection Against Hospitalizations

Booster Questions?

- Why are boosters needed?
- What is the difference between a booster and a third shot?
- Is there any benefit from getting a booster with a different vaccine?
- Will side-effects be worse with booster shots?
- Shouldn't I get a booster targeted at the Delta variant?
- Which countries are giving booster shots?

Which countries are giving boosters?

- **Austria & Germany:**
 - 6-9 months after 1st course of vaccination to residents of care homes; people aged 65 and over; those with certain illnesses
 - Anyone who received either a J&J or Oxford/AZ shot as their initial vaccine
 - Everyone else >18 years 9-12 months after last dose
- **Belgium:**
 - Just for immunocompromised
- **UK:**
 - Boosters for the most vulnerable - immunocompromised; those living in care homes; adults 70 and over; and people considered clinical extremely vulnerable, as well as front-line health and social care workers.
 - The second stage would cover adults aged 50 and over; the household contacts of immunocompromised people; and adults aged 16 to 49 years old who are in an at-risk group
- **Hungary:**
 - Anyone who wants a booster if it is >4 months since last dose
- **USA:**
 - Booster recommended 8 months after completing the first round of vaccination (mRNA)
 - J&J – studies show strong immune response from second shot

Booster Questions?

- Why are boosters needed?
- What is the difference between a booster and a third shot?
- Is there any benefit from getting a booster with a different vaccine?
- Will side-effects be worse with booster shots?
- Shouldn't I get a booster targeted at the Delta variant?
- Which countries are giving booster shots?
- What is the downside of boosters?

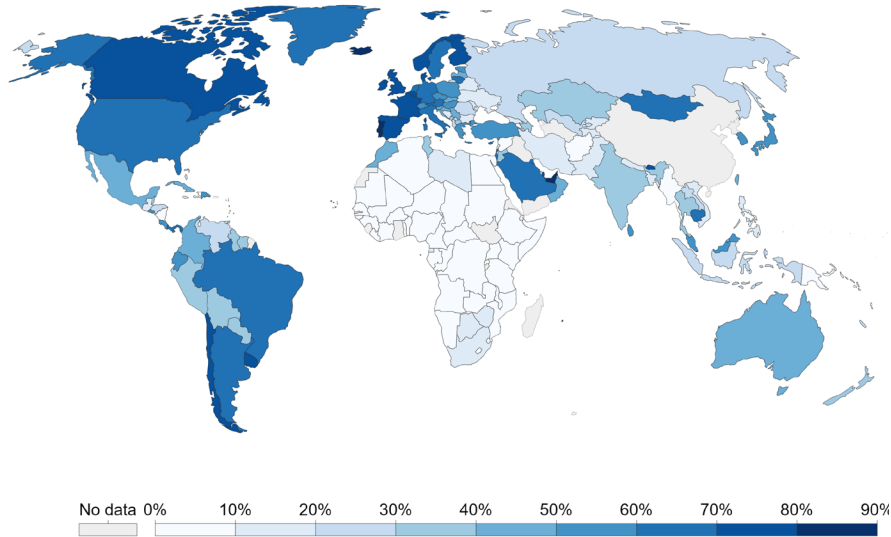


"I'm sorry, Sir. This lifeboat is reserved for first world passengers only."

World Vaccination Rates

Share of people who received at least one dose of COVID-19 vaccine

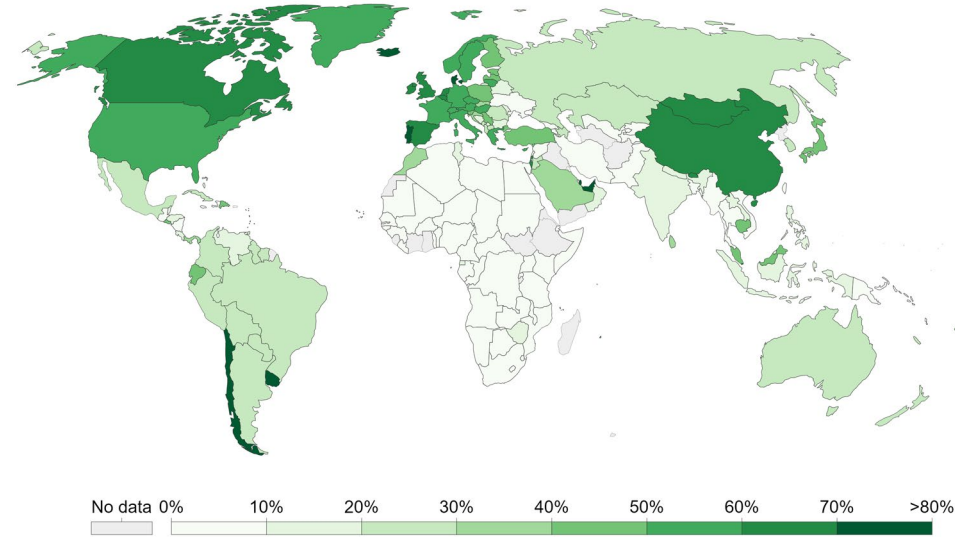
Total number of people who received at least one vaccine dose, divided by the total population of the country.



Source: Official data collated by Our World in Data – Last updated 29 August 2021, 13:00 (London time)
OurWorldInData.org/coronavirus • CC BY

Share of the population fully vaccinated against COVID-19

Total number of people who received all doses prescribed by the vaccination protocol, divided by the total population of the country.

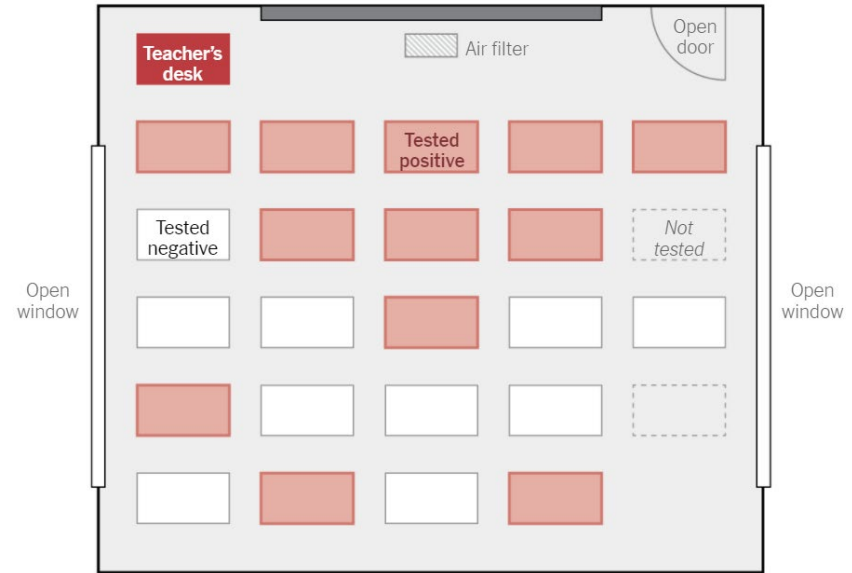


Source: Official data collated by Our World in Data – Last updated 29 August 2021, 13:00 (London time)
Note: Alternative definitions of a full vaccination, e.g. having been infected with SARS-CoV-2 and having 1 dose of a 2-dose protocol, are ignored to maximize comparability between countries.
OurWorldInData.org/coronavirus • CC BY



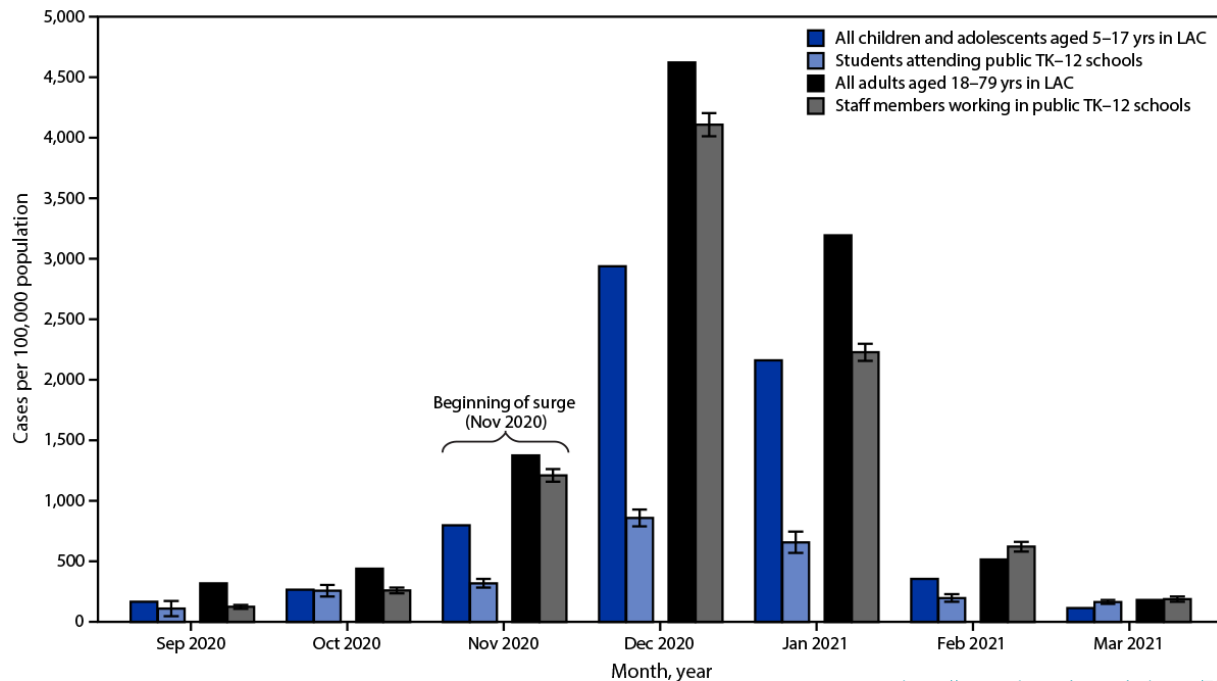
Elementary School Outbreak

- Teacher worked for 2 days with symptoms before getting tested
- Teachers & students masked but teacher read unmasked
- Teacher unvaccinated, children too young to be vaccinated
- 12 children in the class were infected
- Plus, another 14 – including 8 parents and siblings (3 of whom were fully vaccinated)



By The New York Times | Source: Centers for Disease Control and Prevention

Layered Protection Study

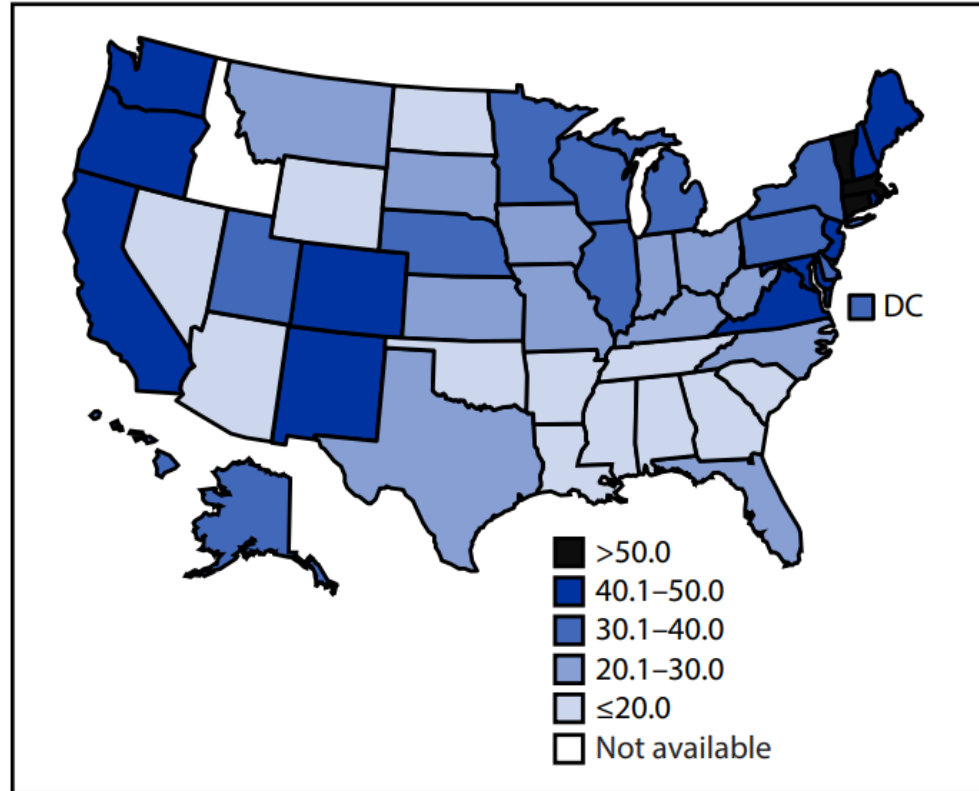


Layered Protection:

- Symptom screening
- Masking
- Physical distancing
- Contact tracing

Vaccinations

FIGURE. Percentage of adolescents aged 12–17 years who completed the COVID-19 vaccination series^{*,†} — United States,[§] December 14, 2020–July 31, 2021



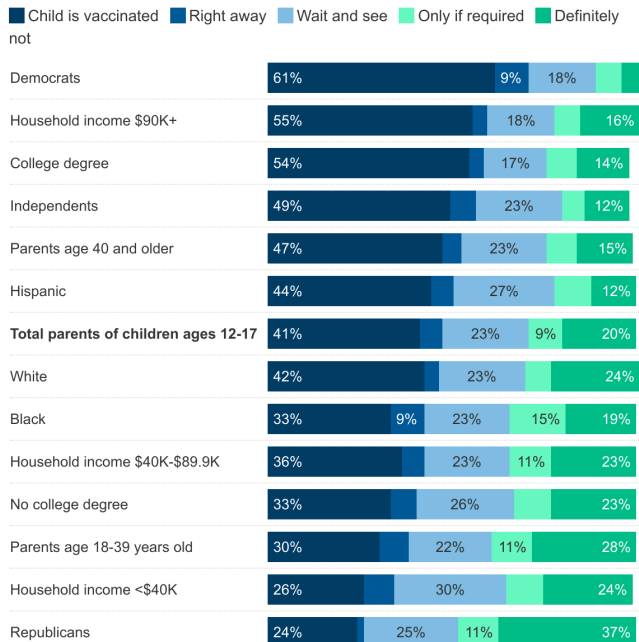
So how to keep school children safe

- School is a controlled environment and if well run should be a safer place than other indoor spaces
- Vaccinations:
 - More than 400 colleges and universities are requiring students to be vaccinated against Covid-19
 - For schools only California and New York City require teachers to be vaccinated
 - CDC recommends that everyone, regardless of vaccination status, wear masks in indoor public places within areas experiencing outbreaks. However, school districts are not consistent in requiring masks for students, let alone unvaccinated students

Figure 4

Democrats, More Educated, Higher Income, And Older Parents More Likely To Say Their 12-17 Year-Old Has Received A COVID-19 Vaccine

Thinking about your child between the ages of 12 and 17, have they received at least one dose of a COVID-19 vaccine, or not? IF NOT: As you may know, the FDA has authorized the Pfizer COVID-19 vaccine for use in children ages 12 and up. Thinking about your child between the ages of 12 and 17, do you think you will get them vaccinated?



NOTE: Among parents or guardians of children ages 12-17. See topline for full question wording.

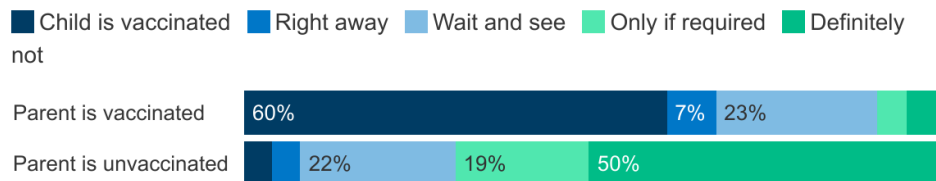
SOURCE: KFF COVID-19 Vaccine Monitor: Parents And The Pandemic (Jul. 15-Aug. 2, 2021)

KFF COVID-19
Vaccine Monitor

Figure 3

Six In Ten Vaccinated Parents Say Their Child Has Received COVID-19 Vaccine, Half Of Unvaccinated Parents Say “Definitely Not”

Thinking about your child between the ages of 12 and 17, have they received at least one dose of a COVID-19 vaccine, or not? IF NOT: As you may know, the FDA has authorized the Pfizer COVID-19 vaccine for use in children ages 12 and up. Thinking about your child between the ages of 12 and 17, do you think you will...?



NOTE: Among parents or guardians of children ages 12-17. April 2021 question wording: "Once there is a COVID-19 vaccine authorized and available for your child's age group, do you think you will...?" See topline for full question wording.

SOURCE: KFF COVID-19 Vaccine Monitor: Parents And The Pandemic (Jul. 15-Aug. 2, 2021)

KFF COVID-19
Vaccine Monitor

Employer Policies

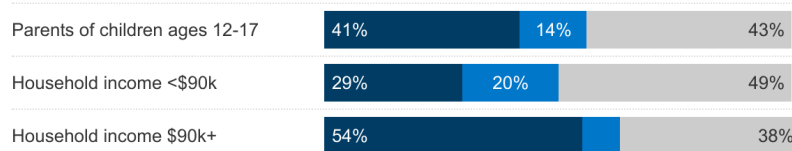
Figure 12

Employer Policies May Increase Likelihood Of Some Parents Getting Their 12-17 Year Old Vaccinated

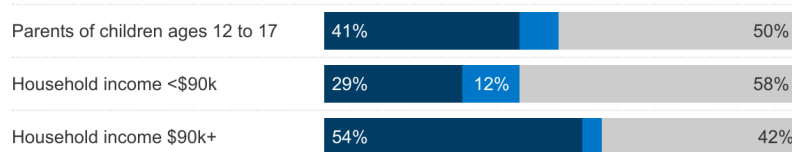
If your employer..., would that make you more likely to get your child vaccinated for COVID-19, or not?

■ Child is vaccinated ■ More likely to get child vaccinated ■ Not more likely

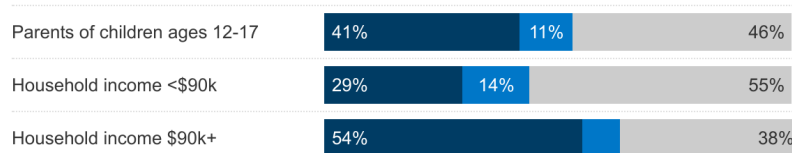
Provided you with paid time off to take your child to get vaccinated and care for them if they experience side effects



Provided you with free transportation to take your child to get vaccinated



Arranged for a medical provider to come to your workplace to vaccinate children and families



NOTE: Among employed and not self-employed parents or guardians of children ages 12-17. See topline for full question wording.
SOURCE: KFF COVID-19 Vaccine Monitor: Parents And The Pandemic (Jul. 15-Aug. 2, 2021)

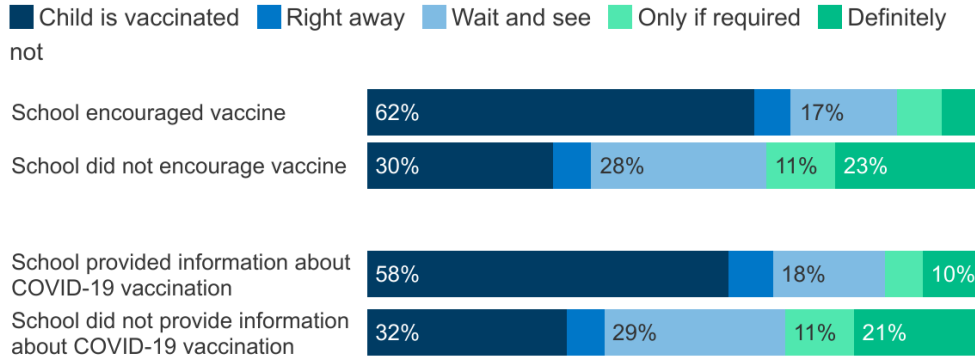
**KFF COVID-19
Vaccine Monitor**

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Figure 17

Parents Whose Child's School Encouraged COVID-19 Vaccination Or Provided Information Are More Likely To Say Child Is Vaccinated

Thinking about your child between the ages of 12 and 17, have they received at least one dose of a COVID-19 vaccine, or not? IF NOT: As you may know, the FDA has authorized the Pfizer COVID-19 vaccine for use in children ages 12 and up. Thinking about your child between the ages of 12 and 17, do you think you will...?



NOTE: Among parents or guardians of children ages 12-17. April 2021 question wording: "Once there is a COVID-19 vaccine authorized and available for your child's age group, do you think you will...?" See topline for full question wording.

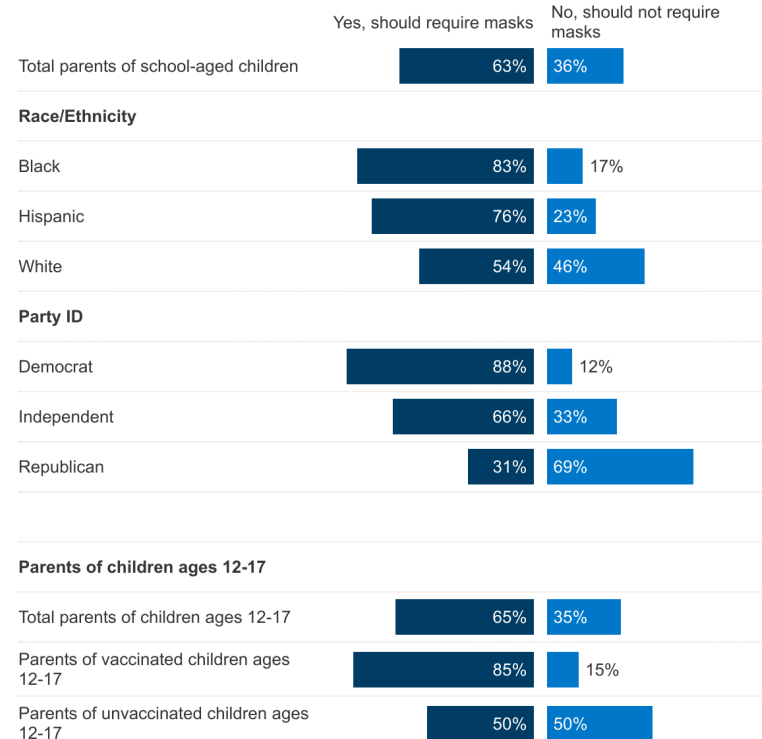
SOURCE: KFF COVID-19 Vaccine Monitor: Parents And The Pandemic (Jul. 15-Aug. 2, 2021)

**KFF COVID-19
Vaccine Monitor**

Figure 20

Most Parents Say Their Child's School Should Require Unvaccinated Students And Staff To Wear Masks When At School

Do you think your children's school should require unvaccinated students and staff to wear masks when they are at school, or not?



NOTE: Asked of parents or guardians of children between the ages of 5 and 17 who will be enrolled in school. See topline for full question wording.
SOURCE: KFF COVID-19 Vaccine Monitor: Parents And The Pandemic (Jul. 15-Aug. 2, 2021).

**KFF COVID-19
Vaccine Monitor**



**MASK-
OPTIONAL**

**OXYGEN
-IS-
ESSENTIAL**

**I WILL NOT
WEAR YOUR
FEAR**

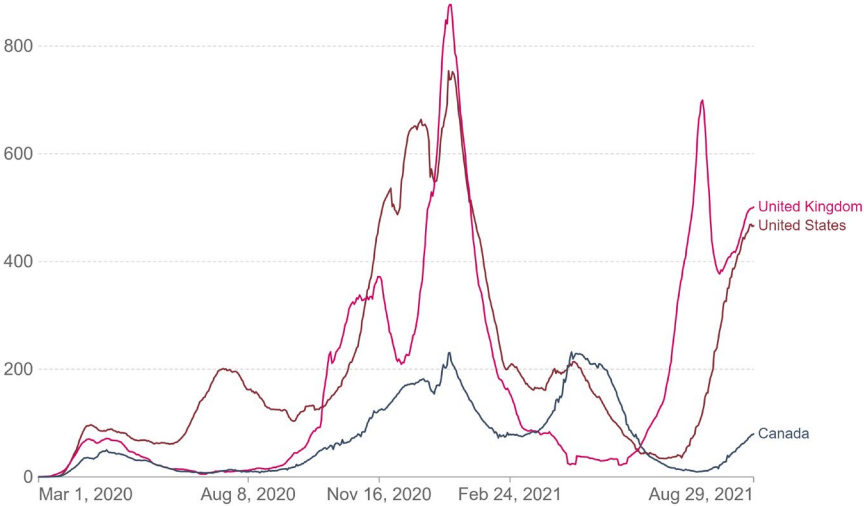
**WE DON'T
CO-PARENT
W/THE GOVT**

**WHEN IS
GOIN'
ND**

**RAYMOND A. SHELTON ADMINISTRATION
SCHOOL BOARD OF HILLSBOROUGH**

Daily new confirmed COVID-19 cases per million people

Shown is the rolling 7-day average. The number of confirmed cases is lower than the number of actual cases; the main reason for that is limited testing.



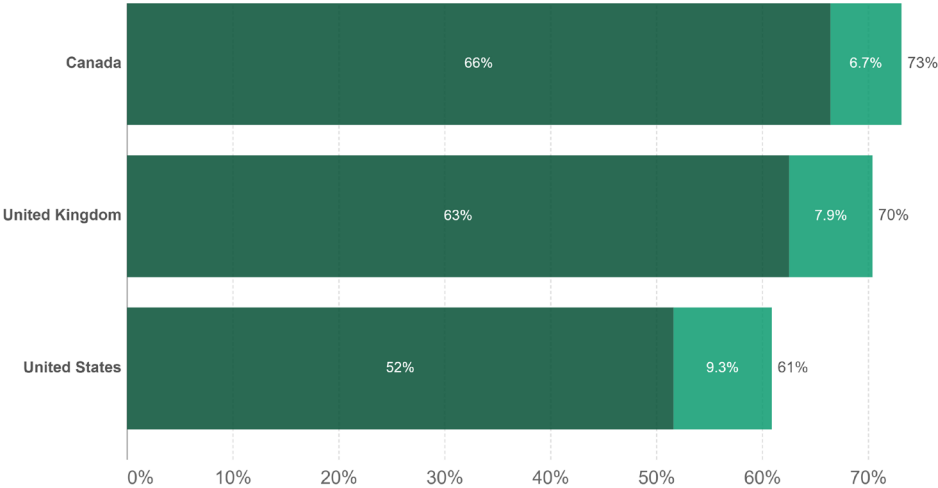
Source: Johns Hopkins University CSSE COVID-19 Data



Share of people vaccinated against COVID-19, Aug 29, 2021



■ Share of people fully vaccinated against COVID-19 ■ Share of people only partly vaccinated against COVID-19



CC BY

Source: Official data collated by Our World in Data. This data is only available for countries which report the breakdown of doses administered by first and second doses in absolute numbers.
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METRIC

Hospitalizations per 100K



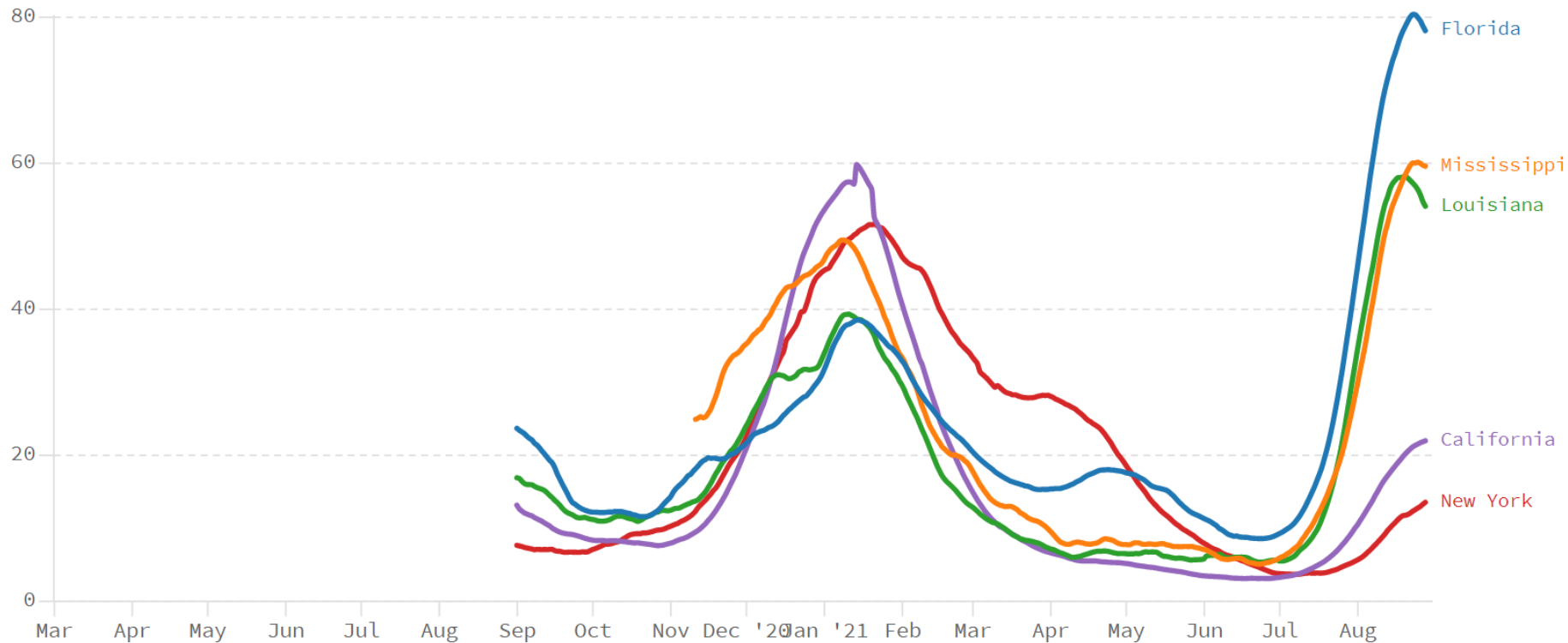
PAST # OF DAYS

All time



LOCATIONS

Florida; Mississippi; Louisiana; New York; Calif...





Questions

Upcoming NEBGH virtual events:

- **Sept. 21** – DE & I-Focused Family Building: What It Really Means
- **Nov. 18** – Annual Membership Meeting