

# COVID-19 Update

## The Kiwanis Club of Atlanta

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CARLOS DEL RIO, MD

EMORY UNIVERSITY



@CARLOSDELRIO7

# The Numbers

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- ✓ Globally > 55 Million cases & > 1.3 M deaths
  - ✓ 50% of deaths in: US (19%); Brazil (13%); India (10%) & Mexico (8%)
- ✓ US > 11.5 Million cases & > 252,000 deaths
  - ✓ > Hospitalizations > 70,000 and deaths > 1,000/day
  - ✓ Two states (CA & TX) have > 1,000,000 cases.
  - ✓ GA is #6 with 426,236 cases (40,145 per million) and 8,967 deaths
- ✓ India # 2 with > 8.8 M cases & Brazil #3 with > 5.8 M cases
- ✓ France, Russia, Spain , UK, Argentina, Italy, Colombia and Mexico have > 1 million cases.



krupali and Ali Khan, MD, MPP liked



**Eric Topol**  @EricTopol · 13h



It took only 8 days to the next million US confirmed covid cases. The 1st million took > 100 d

April 29 1 million

June 11 2 million

July 8 3 million

July 24 4 million

Aug 9 5 million

Aug 31 6 million

Sept 26 7 million

Oct 17 8 million

Oct 31 9 million

Nov 8 10 million



75



1,361

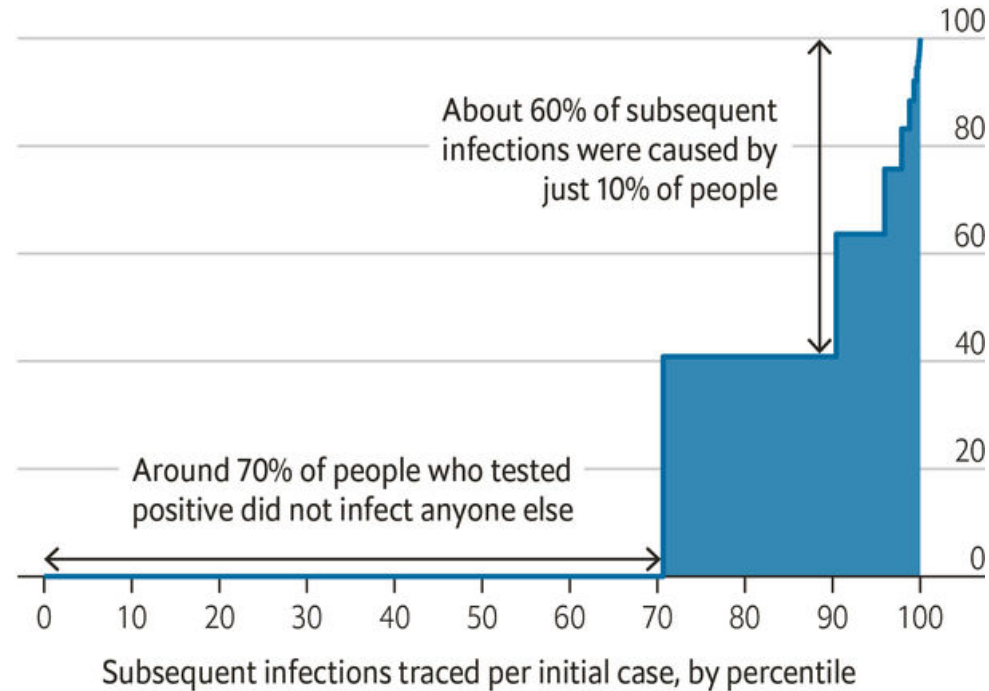


2,177



## → A small share of the population is responsible for a majority of infections

Cumulative share of subsequent covid-19 infections, %  
India\*, by percentile of subsequent infections per initial case

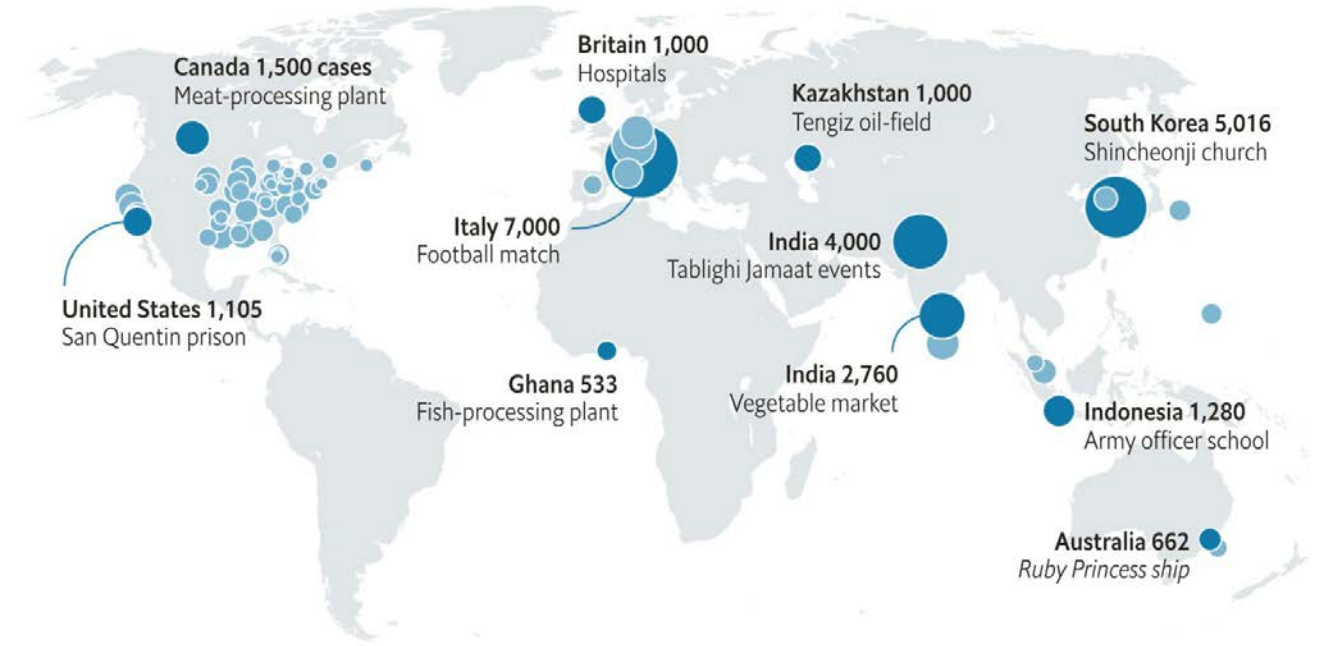


\*Study in Andhra Pradesh & Tamil Nadu, March-August 2020

## → A large share of covid infections are caused by “super-spreading” events

Super-spreading events

Selected, >300 newly infected cases



Setting of super-spreading events

Selected, >30 newly infected cases, % of total cases



## A minority of people with covid-19 account for the bulk of transmission

<https://www.economist.com/graphic-detail/2020/11/07/a-minority-of-people-with-covid-19-account-for-the-bulk-of-transmission>

## Multiple COVID-19 Outbreaks Linked to a Wedding Reception in Rural Maine — August 7–September 14, 2020

Parag Mahale, MBBS, PhD<sup>1,2</sup>; Craig Rothfuss, MPA, MPH<sup>1,3</sup>; Sarah Bly<sup>1,3</sup>; Megan Kelley<sup>1,3</sup>; Siiri Bennett, MD<sup>1</sup>; Sara L. Huston, PhD<sup>1,3</sup>; Sara Robinson, MPH<sup>1</sup>

### Lack of consistent mask use and social distancing at a wedding reception in rural Maine led to multiple COVID-19 outbreaks and deaths



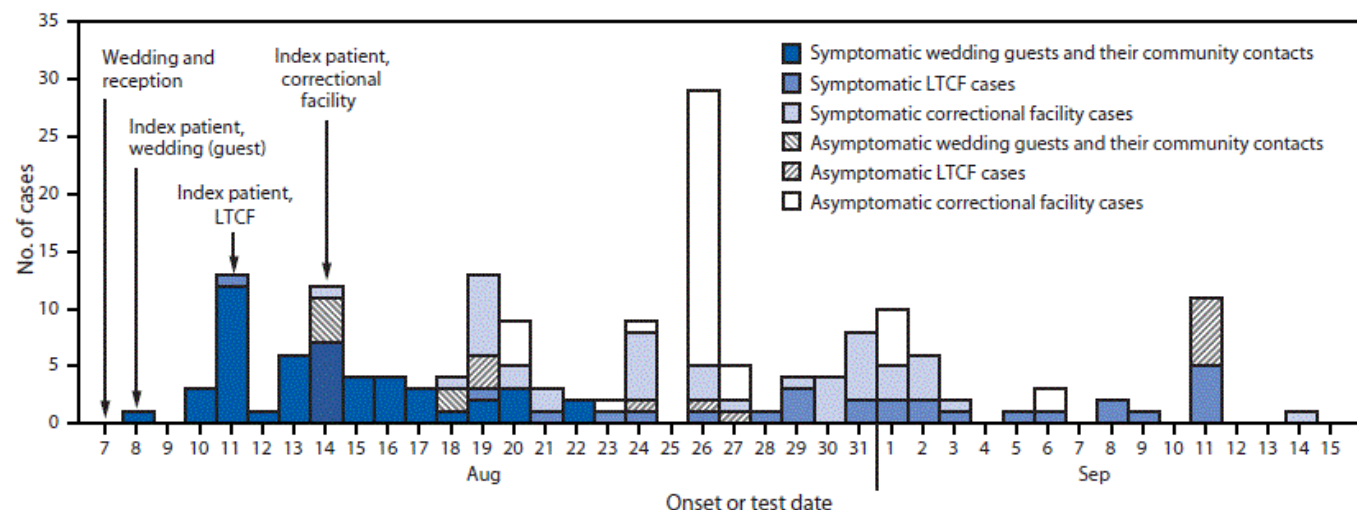
### Slow the spread of COVID-19

- ✓ avoid large gatherings
- ✓ stay home when sick
- ✓ wear masks
- ✓ stay 6 feet from others

CDC.GOV

[bit.ly/MMWR11220](https://bit.ly/MMWR11220)

MMWR





Centers for Disease Control and Prevention  
CDC 24/7: Saving Lives, Protecting People™

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COVID-19 ▾



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# Coronavirus Disease 2019 (COVID-19)



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## More Resources

CDC in Action



Global COVID-19



**Science & Research**



Science Agenda: Building  
the Evidence Base for

## MORE RESOURCES

# Scientific Brief: Community Use of Cloth Masks to Control the Spread of SARS-CoV-2

Updated Nov. 10, 2020

[Languages](#) ▾

[Print](#)







## Tweet

**Marjorie Taylor Greene** 🇺🇸 ✓

...

@mtgreenee

🏠 US House candidate, GA-14

Our first session of New Member  
Orientation covered COVID in  
Congress.

Masks, masks, masks....

I proudly told my freshman class that  
masks are oppressive.

In GA, we work out, shop, go to  
restaurants, go to work, and school  
without masks.

My body, my choice.

[#FreeYourFace](#)

11:18 AM · 11/13/20 · [Twitter for iPhone](#)

Tweet your reply



A woman with long dark hair, wearing a light pink shirt, is drawing a detailed face mask on a chalkboard. The chalkboard is covered with various mathematical formulas and diagrams. To the left of the mask, there is a diagram of a cube with the formula  $R=2L$  and  $V=V$  next to it. Above the mask, there are formulas like  $F=172 \text{ m}^2$ ,  $xy=21$ , and  $\text{circumference}$ . To the right, there is a diagram of a virus particle and formulas like  $2020 = \sqrt{291.0}$ ,  $F \cdot \frac{D}{x} =$ , and  $RO-$ . Below the mask, there is a diagram of a hand wearing a glove with the formula  $2x=1-xy$ , and another formula  $x=\sqrt{2} \text{ mms}$ . The woman is holding a piece of chalk and is in the process of drawing the mask.

- **In hospitals** where at least 75% of patients are subject to a local mask requirement, COVID hospitalizations are at about the same level now as they were July 1.

Figure 1 consists of four line graphs arranged in a 2x2 grid, showing the growth in hospitalizations relative to July 1, 2020, for different hospital types and mask requirements. The y-axis for all graphs ranges from 'No change' to +200%. The x-axis shows dates from June 1 to October 1. A vertical dashed line marks July 1, 2020.

- Top Left:** Hospitals with <25% of patients from counties with a mask requirement. The graph shows a sharp increase starting in July, peaking around +150% in late August, and then rising sharply to over +200% by early October.
- Top Right:** Hospitals with 26-50% of patients from counties with a mask requirement. The graph shows a peak around +100% in late August, followed by a decline and then a slight increase towards the end of the period.
- Bottom Left:** Hospitals with 51-75% of patients from counties with a mask requirement. The graph shows a peak around +50% in late August, followed by a decline and then a slight increase towards the end of the period.
- Bottom Right:** Hospitals with >75% of patients from counties with a mask requirement. The graph shows a peak around +50% in late August, followed by a decline and then a slight increase towards the end of the period.

[https://www.axios.com/newsletters/axios-am-5c5d6b17-9b35-43d6-b30c-b15049616e30.html?chunk=1&utm\\_term=twsocialshare#story1](https://www.axios.com/newsletters/axios-am-5c5d6b17-9b35-43d6-b30c-b15049616e30.html?chunk=1&utm_term=twsocialshare#story1)





Yale School of Public Health  
@YaleSPH

Dr. Anthony Fauci lays out three ways future scientific communicators can build trust:

- 1) Always go by the data
- 2) Admit when you don't know something
- 3) The goal is not to show how smart you are. It's to get people to understand what you're talking about.

#FauciAtYale



Global Health @ Yale and 3 others

4:38 PM · Oct 26, 2020 · Twitter Web App

## VIEWPOINT

# Preventing the Spread of SARS-CoV-2 With Masks and Other “Low-tech” Interventions

Return to normalcy will require the widespread acceptance and adoption of mask wearing and other inexpensive and effective interventions as part of the COVID-19 prevention toolbox.

## Fundamentals to Prevent Acquiring and Transmitting SARS-CoV-2

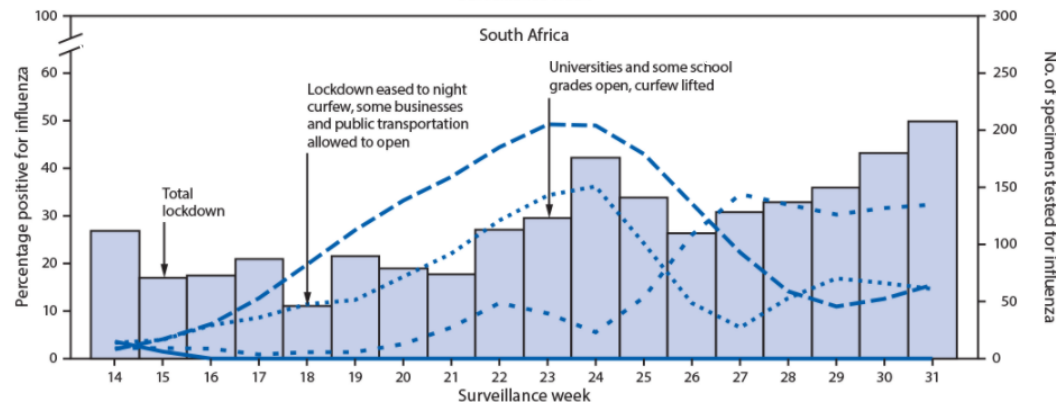
- Universal wearing of masks/cloth face coverings
- Maintain physical distance – at least 6 feet
- Avoid crowds and congregate settings
- Outdoors better than indoors
- Frequent washing of hands

# Decreased Influenza Activity During the COVID-19 Pandemic — United States, Australia, Chile, and South Africa, 2020

Weekly / September 18, 2020 / 69(37);1305–1309

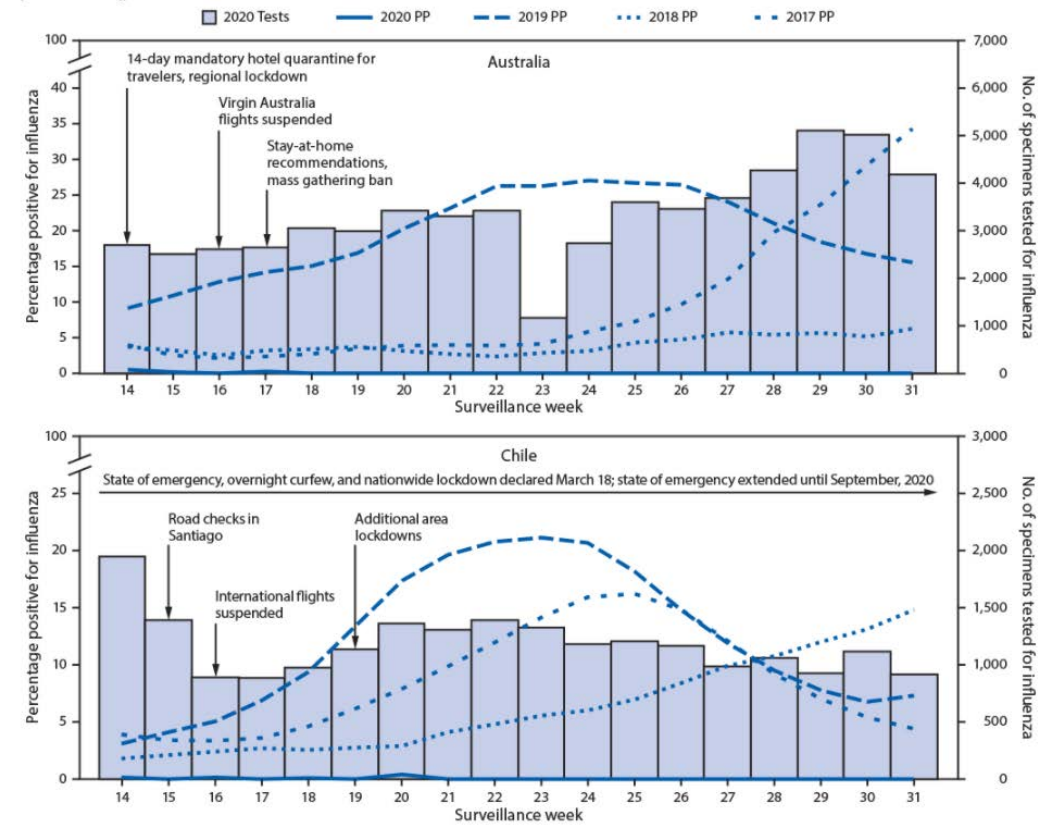
Sonja J. Olsen, PhD<sup>1</sup>; Eduardo Azziz-Baumgartner, MD<sup>1</sup>; Alicia P. Budd, MPH<sup>1</sup>; Lynnette Brammer, MPH<sup>1</sup>; Sheena Sullivan, PhD<sup>2</sup>; Rodrigo Fasce Pineda, MS<sup>3</sup>; Cheryl Cohen, MD<sup>4,5</sup>; Alicia M. Fry, MD<sup>1</sup> ([View author affiliations](#))

Very little influenza activity in Australia, Chile and S. Africa during the 2020 flu season



Source: FluNet. [https://www.who.int/influenza/gisrs\\_laboratory/flunet/en/](https://www.who.int/influenza/gisrs_laboratory/flunet/en/)

Abbreviation: PP = percentage positive.



<https://www.cdc.gov/mmwr/volumes/69/wr/mm6937a6.htm>

## Risk of COVID-19 During Air Travel

JAMA November 3, 2020 Volume 324, Number 17

### Decreasing risk during air travel:

- Wear a mask
- Don't travel if you feel unwell
- Keep distance from others
- Wash or sanitize hands frequently

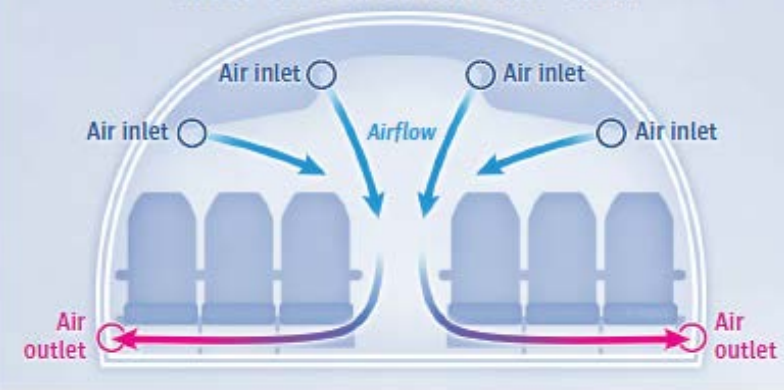
### Air travel and COVID-19



**The risk of contracting COVID-19 during air travel is low.** Modern airplanes maintain clean air by circulating a mix of fresh air and air recycled through HEPA filters, the same type of air filters used in hospital operating rooms.

Air enters the cabin from overhead air inlets and flows downward toward floor level outlets at the same seat row or nearby rows. There is little airflow forward and backward between rows.

CROSS SECTION OF AIRPLANE CABIN



Stay seated whenever possible, and follow crew instructions

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Thirty-four states – plus the District of Columbia and Puerto Rico – now require people to wear a face mask in public

On Friday, the governors of Oregon, Washington and California issued travel advisories urging people to avoid all nonessential out-of-state travel and urging visitors entering their states or returning home to self-quarantine for 14 days.

Last month, Hawaii started allowing all travelers to use proof of a negative COVID-19 test in lieu of having to quarantine.

In New York bars and restaurants as well as gyms will have to close at 10 PM and indoor gatherings at private homes will be limited to no more than 10 people. To avoid quarantine travelers to the state must test for COVID-19, 72 hrs before arriving and 4 days after.

## Georgia

Gov. Brian Kemp tweeted this week that **"it is now more important than ever for all Georgians to double down on prevention measures to stop the spread of COVID-19."**

In a video message, **Dr. Kathleen Toomey**, commissioner of the state Department of Public Health, **urged everyone to wear masks, social distance and get a flu shot.**

Georgia does not have a statewide mask mandate.



# The Holiday Bubble



Baylor College of Medicine

Baylor College of Medicine > Coronavirus > For the Baylor Community > From Dr. James McDeavitt

> Build your own holiday bubble

Reopening Update from Dr. James McDeavitt

Important Message from Dr. James McDeavitt on COVID-19

What's next for COVID-19?

A Cautionary COVID-19 Tale

Weekly Testing Report, new rules on face shields

COVID Update from Dr. Jim McDeavitt

The good and bad news

Guidance on Baylor's return to work strategy

How Will We be Better for Living Through COVID

Rescue Care Update from Dr. James McDeavitt

Mystery

## Build your own holiday bubble

Oct. 21, 2020

Dear Members of the Baylor College of Medicine Community,

This week, we seem to be stranded in COVID-19 purgatory. In the Houston region, new community cases are slowly inching up, as are new hospitalizations. The trend is concerning enough that most TMC hospitals are dusting off their surge plans in the event our health system is once again stressed. We still do not know if we are in the early phase of another [exponential growth cycle](#), or at a precarious equilibrium. Based on recent stressors in our community, I fear it is the former. Public schools reopened for face-to-face instruction this week in Houston and other areas, the shorter days are driving people indoors and many are experiencing mask fatigue. In addition, much of Europe is experiencing a surge rivaling the first one, and reinstituting lock-downs. Much of the US, particularly in cooler regions, is also surging. I think we must assume we are in the early phase of another regional battle with SARS-CoV-2.

I know this is demoralizing for many, especially as we approach the holiday season. Many have given up so much already. Our lives have been disrupted by the pandemic in ways large and small. Should we sacrifice time with family and close friends over the holidays as well?

Today:

- Get your Flu Shot
- Have a serious family conversation and obtain a **REAL COMMITMENT** to form a bubble
- Agree on a location

2 weeks prior:

- Limit contact with others
- Work from home
- Scrupulous attention to social distancing and masking

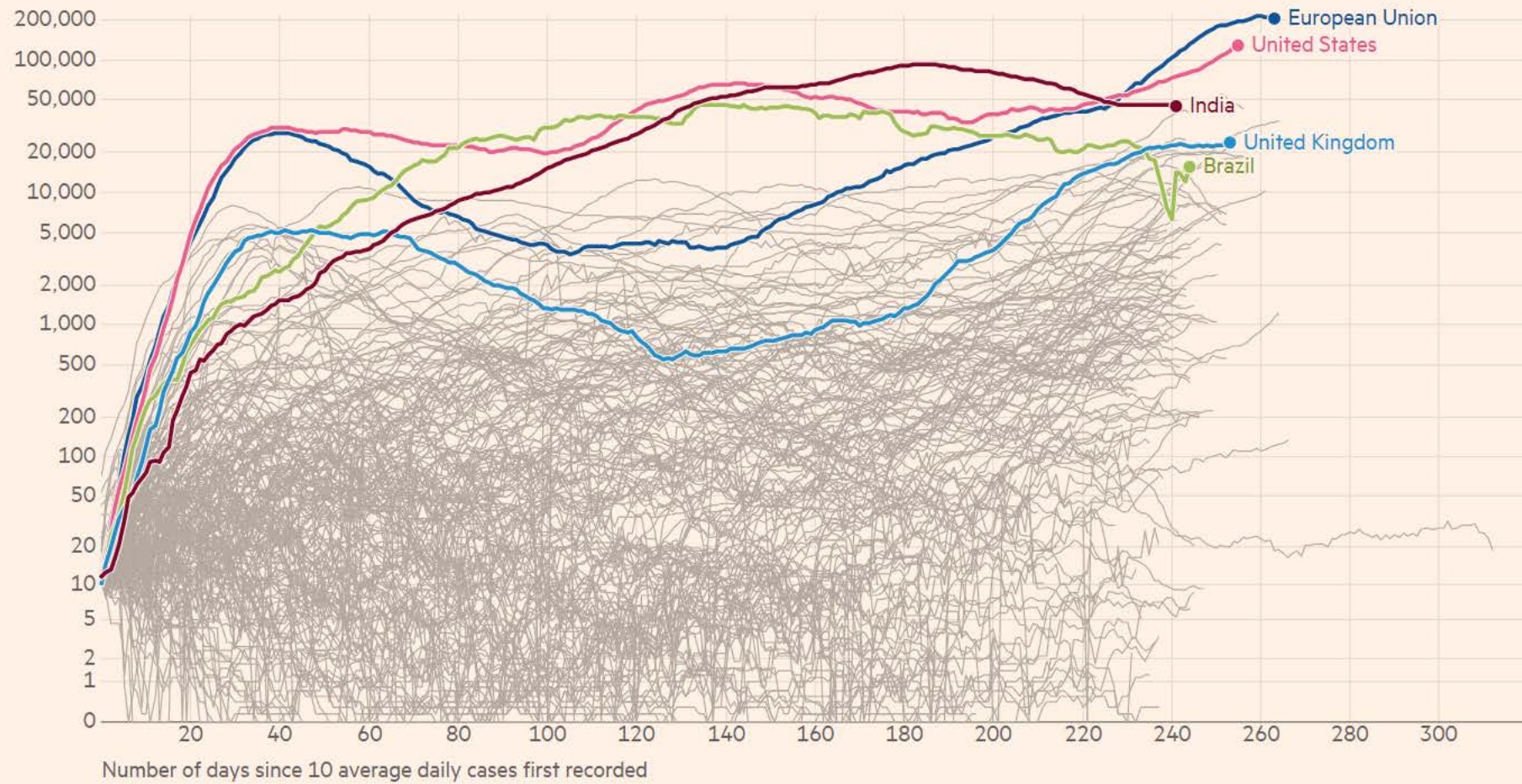
5 – 7 days prior:

- Get a PCR test
- Stock up on hand sanitizer and wipes
- Complete grocery shopping (remember you are quarantined)

<https://www.bcm.edu/coronavirus/for-the-baylor-community/from-dr-james-mcdeavitt/build-your-own-holiday-bubble>

## New confirmed cases of Covid-19 in European Union, United States, Brazil, United Kingdom and India

Seven-day rolling average of new cases, by number of days since 10 average daily cases first recorded

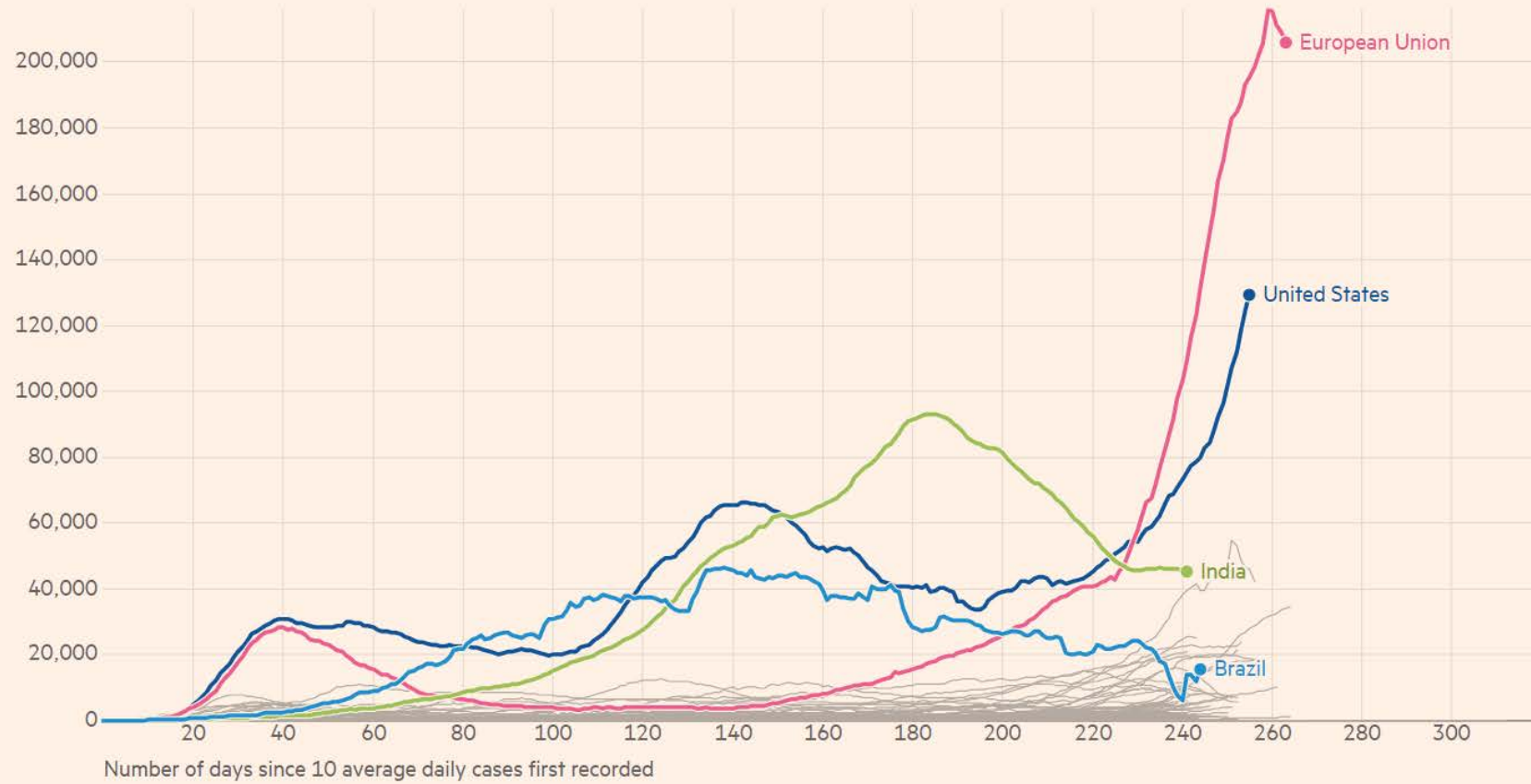




## 7 day rolling average

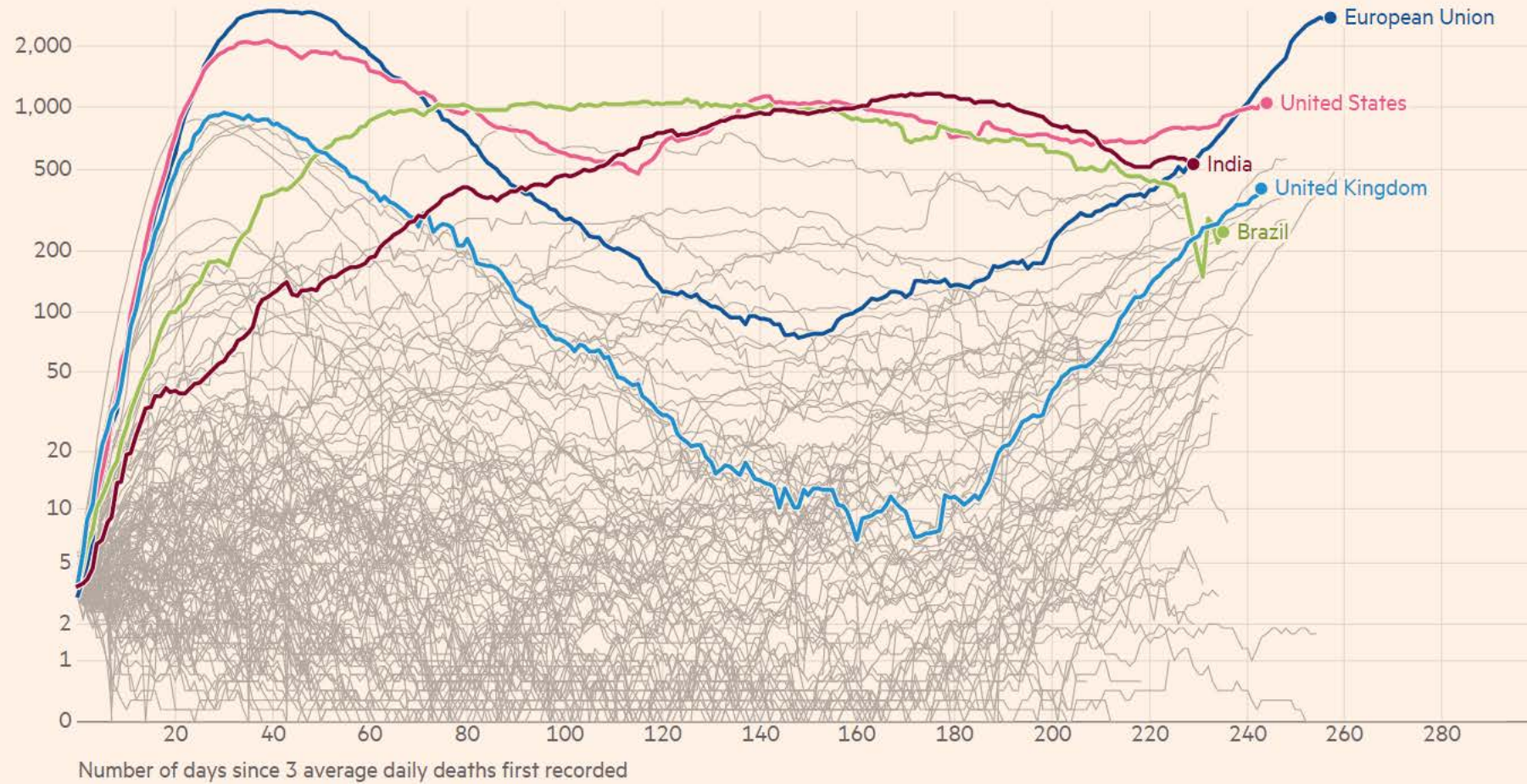
### New confirmed cases of Covid-19 in United States, European Union, India and Brazil

Seven-day rolling average of new cases, by number of days since 10 average daily cases first recorded



## New deaths attributed to Covid-19 in European Union, United States, Brazil, United Kingdom and India

Seven-day rolling average of new deaths, by number of days since 3 average daily deaths first recorded



# New Lockdown Rules in Europe

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## Belgium – New restrictions began 11/2

- Non-essential shops/businesses closed
- Sale of alcohol prohibited after 8 PM
- Bars/cafes/restaurants closed except for take-out
- Cultural and leisure facilities, gyms and pools closed
- Some regional curfews and limited gathering size

## Germany – New restrictions began 11/2

- Restaurants (except take out), bars, gyms, theaters, pools closed
- Social contact limited to 2 households with max of 10 people
- Large events cancelled; no crowds at sporting events
- Leisure stays in hotels banned
- Schools and church open
- Shops and hairdressers open with strict hygiene rules

<https://www.bbc.com/news/explainers-53640249>

# New Lockdown Rules in Europe

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France – New national lockdown started 10/30 and in place until 12/1 at least

- Can leave home only to go to work, buy essential goods, seek medical help or exercise 1 hour/day
- Bars/restaurants closed; schools and churches open
- Social gatherings banned

Italy – 3 tier framework began 11/4

- Museums closed
- Schools open but older students switch to remote learning
- Universal masking continues
- Capacity on public transportation limited
- Restaurants and bars closed in red/orange zones

Spain – Nationwide curfew began 10/25

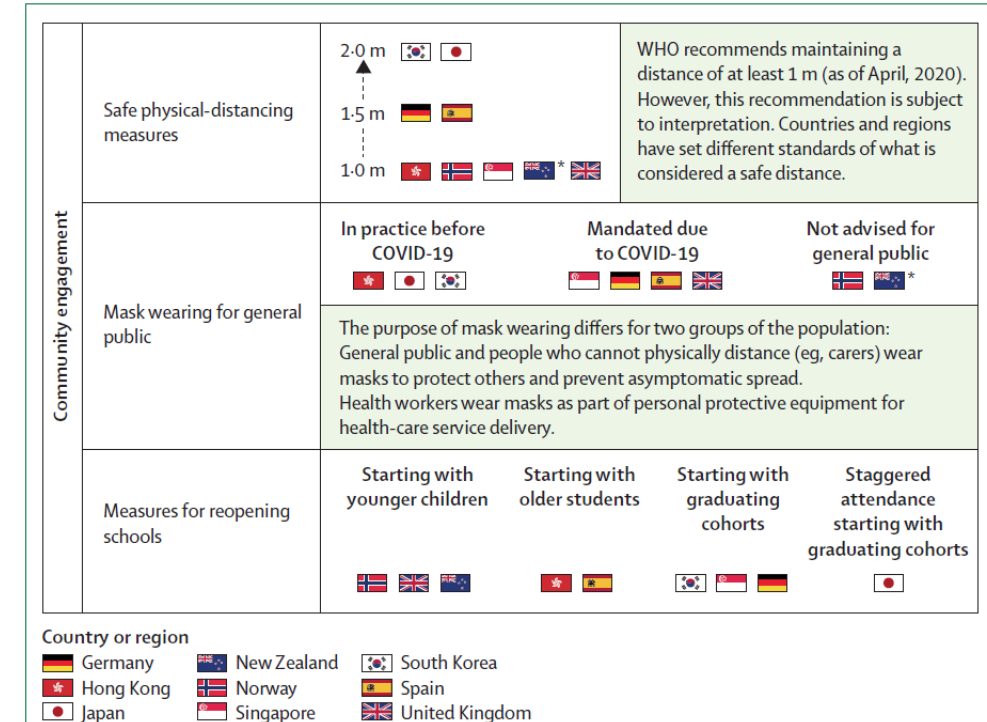
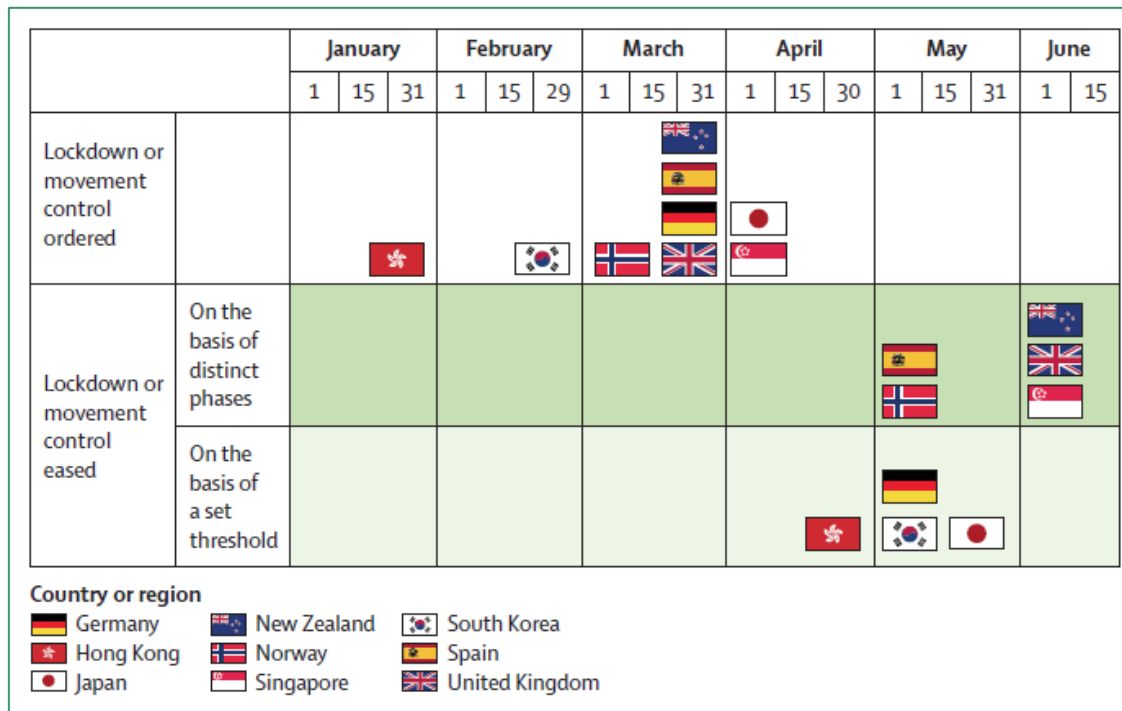
- Stay at home 11 PM-6 AM
- Private gatherings limited to 6 people

<https://www.bbc.com/news/explainers-53640249>

# Lessons learnt from easing COVID-19 restrictions: an analysis of countries and regions in Asia Pacific and Europe



Emeline Han\*, Melisa Mei Jin Tan\*, Eva Turk, Devi Sridhar, Gabriel M Leung, Kenji Shibuya, Nima Asgari, Juhwan Oh, Alberto L García-Basteiro, Johanna Hanefeld, Alex R Cook, Li Yang Hsu, Yik Ying Teo, David Heymann, Helen Clark, Martin McKee, Helena Legido-Quigley



<https://www.thelancet.com/action/showPdf?pii=S0140-6736%2820%2932007-9>



# Lessons Learned from Covid-19 Restrictions

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- Can learn lessons from divergent practices
  - More extensive test/tracing/isolating in Asia including isolating in institutions and not at home in some countries
  - More extensive use of face coverings in Asia (which had prior experience)
  - Having more robust public health infrastructure and populations that are more compliant with strict rules and guidelines makes a difference
- Recognition that removing COVID-19 restrictions should be a cautious return to a new normal and not back to pre-COVID state



# Lessons Learned from Covid-19 Restrictions

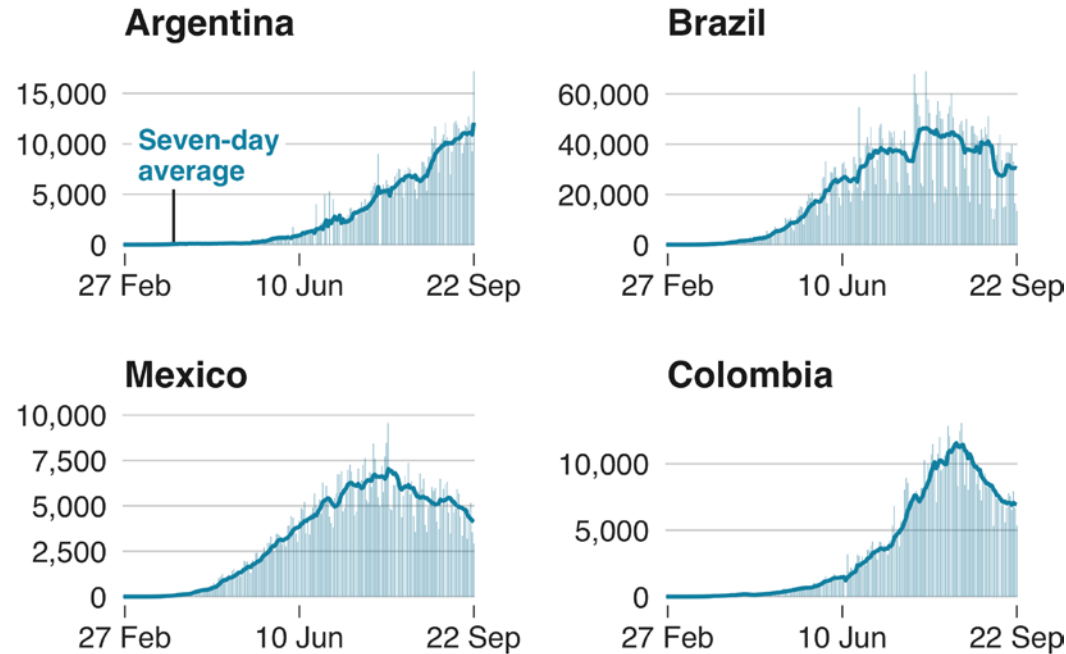
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- Need a clear phased plans for moving to different levels of controls
- Countries should not ease restrictions until there are robust systems in place to monitor the infection situation
- Continued measures to reduce transmission will be needed for some time (such as face masks, decreased social interactions)
- Each country should have and effective test/trace/isolate support system
- Need investment in public health capacity

# South America – Argentina, Brazil, Mexico and Colombia

## Coronavirus in selected South American countries

Number of cases per day, each country on a separate scale



Source: ECDC, data to 22 Sep

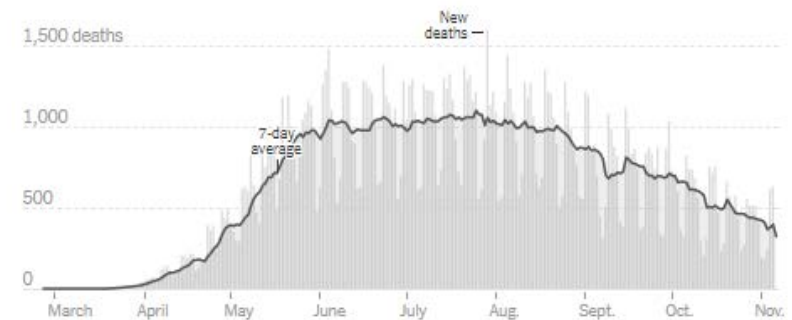
BBC

### New reported cases by day in Brazil



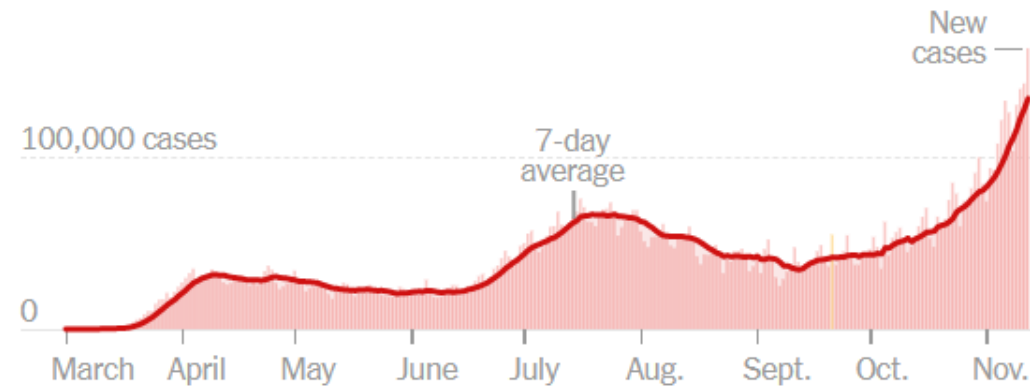
Note: The seven-day average is the average of a day and the previous six days of data.

### New reported deaths by day in Brazil



Note: Scale for deaths chart is adjusted from cases chart to display trend.

By The New York Times Updated November 13, 2020, 8:05 A.M. E.T.

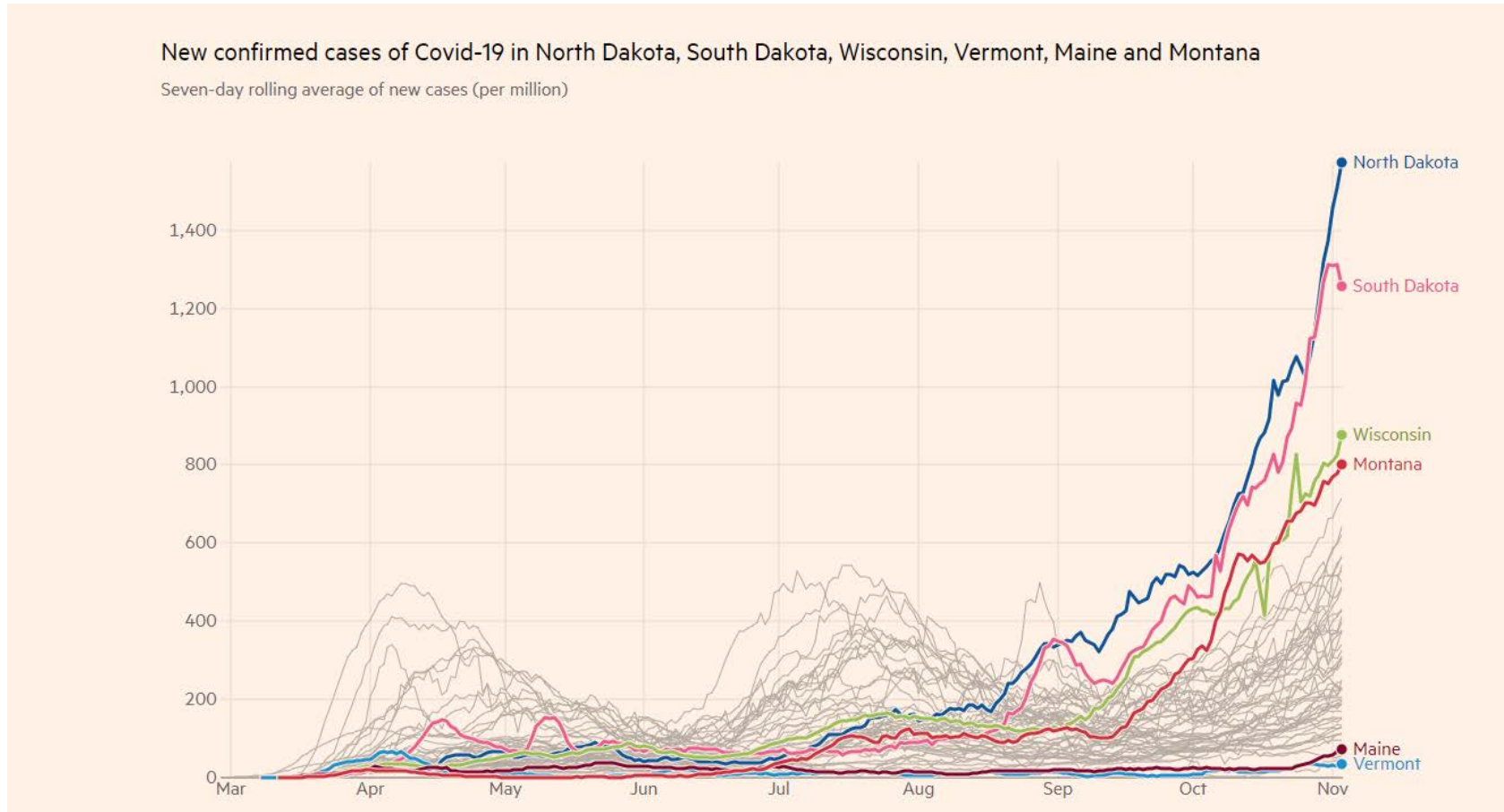


	TOTAL REPORTED	ON NOV. 12	14-DAY CHANGE
Cases	10.6 million+	163,402	+72% ↗
Deaths	242,861	1,172	+33% →
Hospitalized		67,096	+39% →

■ Day with data reporting anomaly.

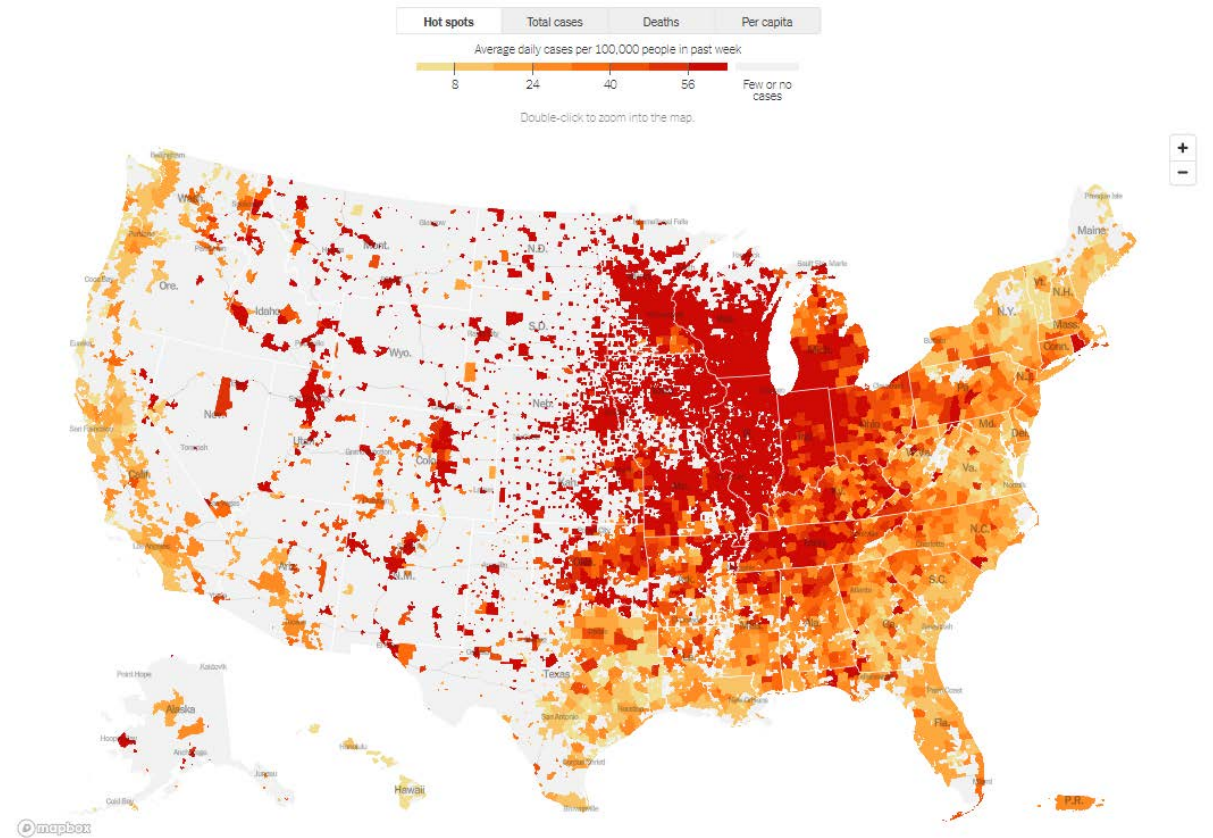
Hospitalization data from the Covid Tracking Project. 14-day change trends use 7-day averages.

# It's not just colder weather causing high rates

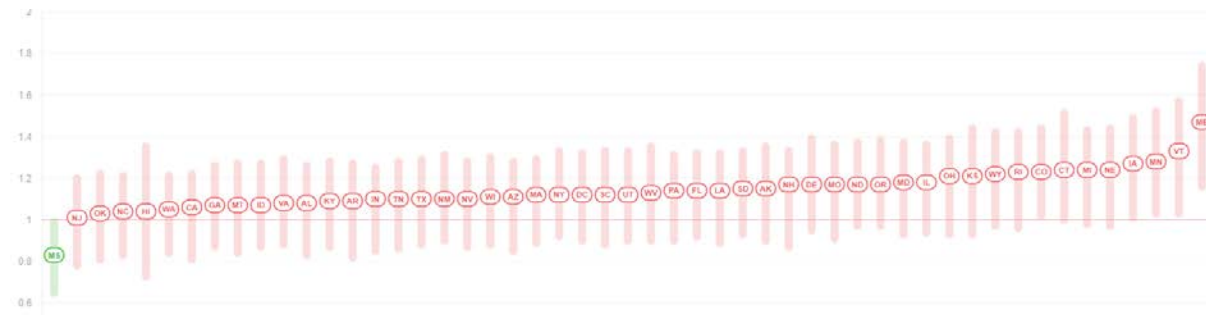


<https://ig.ft.com/coronavirus-chart/?areas=usa&areasRegional=usnd&areasRegional=ussd&areasRegional=uswi&areasRegional=usvt&areasRegional=usme&areasRegional=usmt&byDate=1&cumulative=0&logScale=0&perMillion=1&values=cases>

# Hot Spots in US



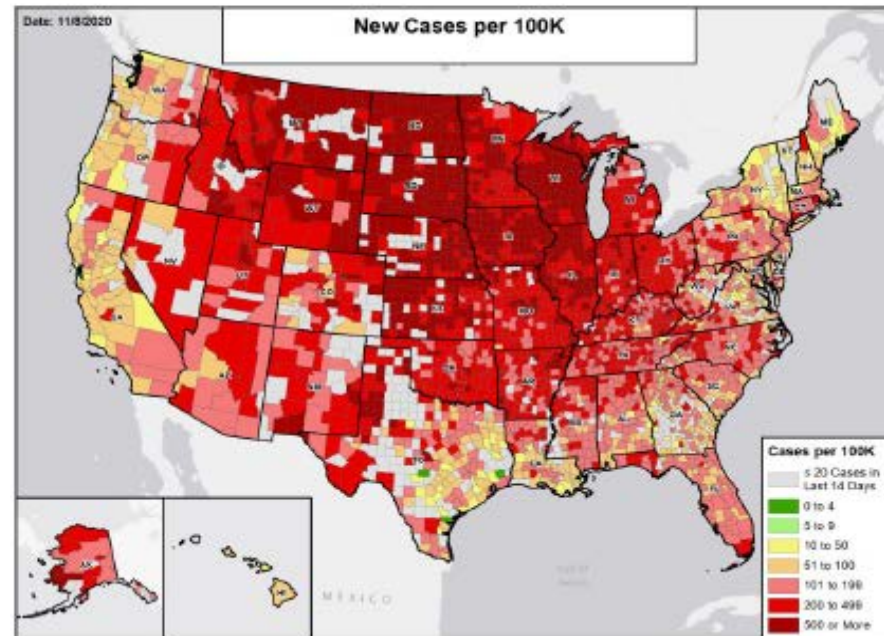
Almost all states have  $R_t > 1$





# National Picture

NEW CASES PER 100,000



NATIONAL RANKING OF NEW CASES PER 100,000

National Rank	State	National Rank	State
1	ND	27	MS
2	SD	28	TX
3	WI	29	WV
4	IA	30	NC
5	WY	31	FL
6	NE	32	AZ
7	MT	33	AL
8	IL	34	NJ
9	UT	35	PA
10	MN	36	MA
11	KS	37	SC
12	ID	38	DE
13	AK	39	MD
14	IN	40	GA
15	CO	41	VA
16	MO	42	WA
17	RI	43	OR
18	NM	44	LA
19	MI	45	DC
20	AR	46	CA
21	KY	47	NY
22	OK	48	NH
23	OH	49	ME
24	NV	50	HI
25	TN	51	VT
26	CT		

NEW CASES PER 100,000 IN THE WEEK:

ONE MONTH BEFORE



TWO MONTHS BEFORE



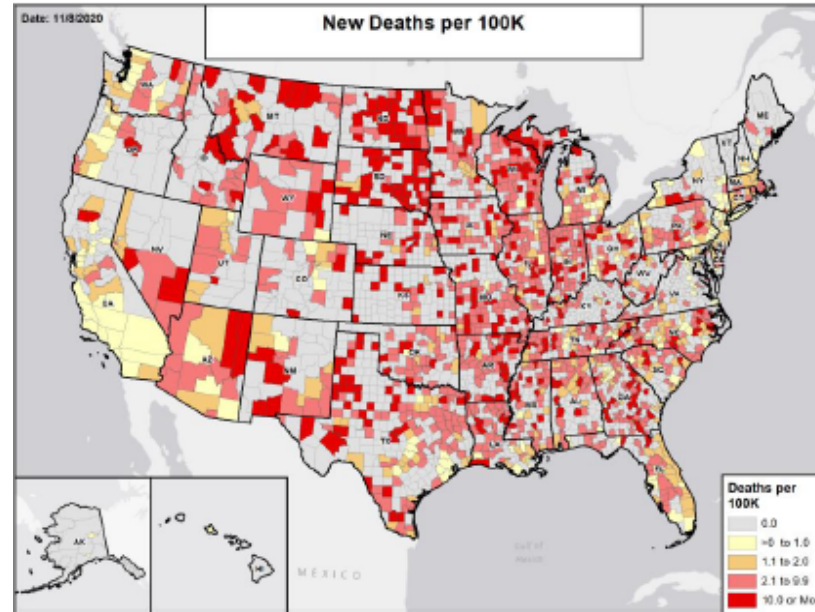
THREE MONTHS BEFORE





# National Picture

NEW DEATHS PER 100,000

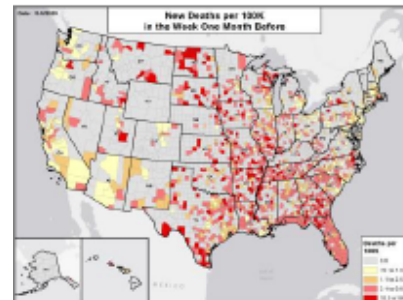


NATIONAL RANKING OF NEW DEATHS PER 100,000

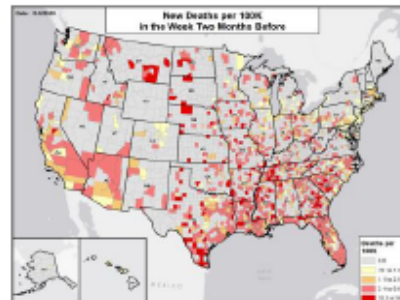
National Rank	State	National Rank	State
1	ND	27	SC
2	SD	28	GA
3	AR	29	MA
4	MT	30	LA
5	WI	31	OH
6	KS	32	CO
7	IN	33	NY
8	NM	34	CT
9	IA	35	KY
10	MO	36	UT
11	WY	37	PA
12	MS	38	FL
13	ID	39	DE
14	TN	40	OR
15	IL	41	WA
16	NE	42	MD
17	MN	43	NJ
18	OK	44	DC
19	AZ	45	CA
20	AL	46	VA
21	NC	47	NH
22	TX	48	AK
23	WV	49	ME
24	NV	50	HI
25	MI	51	VT
26	RI		

NEW DEATHS PER 100,000 IN THE WEEK:

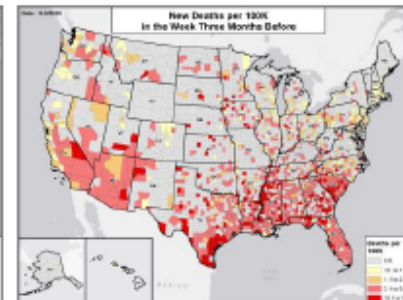
ONE MONTH BEFORE

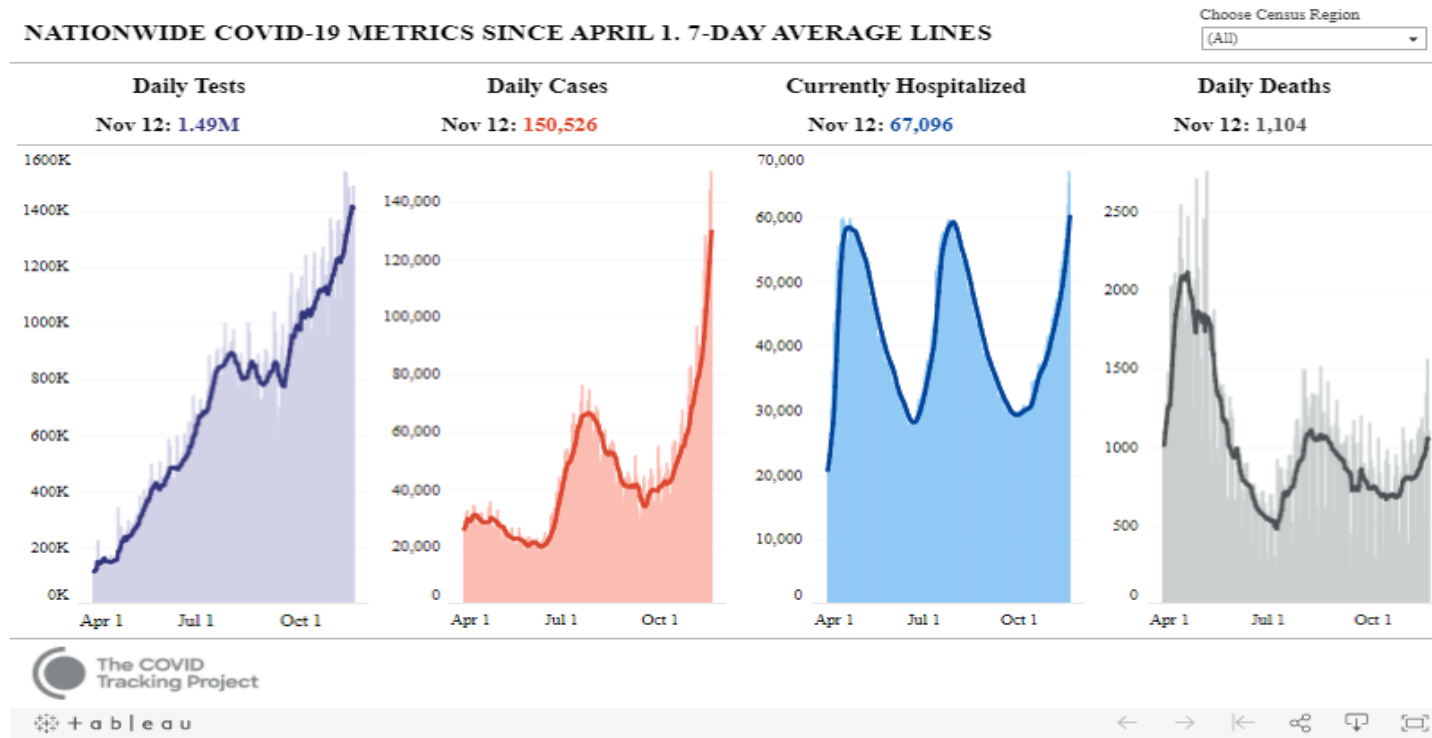


TWO MONTHS BEFORE



THREE MONTHS BEFORE





Oct 15	1,017,871 tests	56,797 cases	47,308 hospitalized	680 deaths
Nov 12	1,490,426 tests	150,526 cases	67,096 hospitalized	1,104 deaths

<https://covidtracking.com/data/charts/us-all-key-metrics>

Oct 2

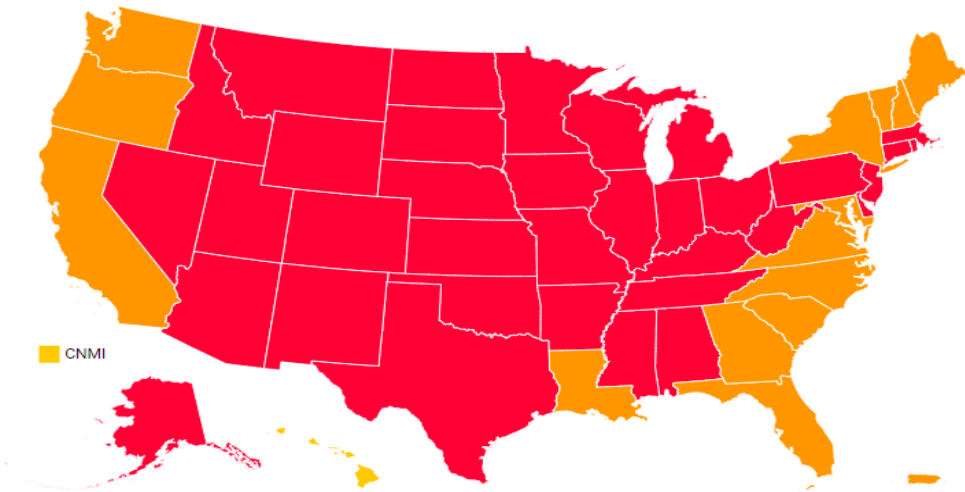
Nov 12

# America's COVID Warning System

We use [5 key indicators](#) to determine risk levels for 50 states and 3,000+ counties.

Search for your state, county, or zip

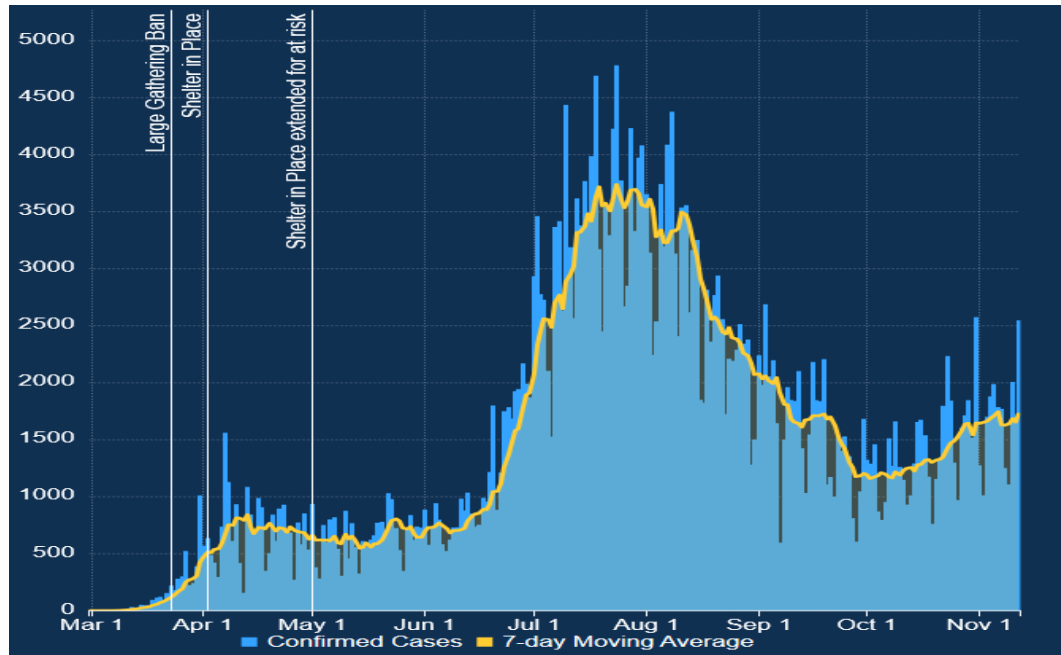
- RISK LEVELS
- Active or imminent outbreak
  - At risk of outbreak
  - Slow disease growth
  - On track to contain COVID



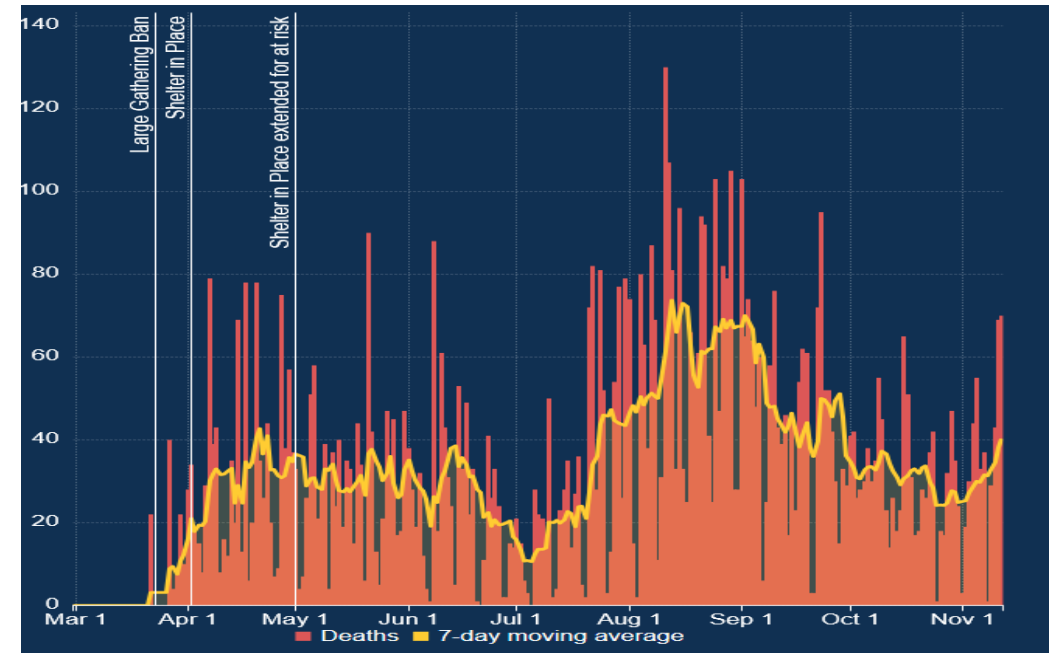
Click a state to view risk details and county info.

# COVID-19 Cases and Deaths in Georgia

Cases = 416,876



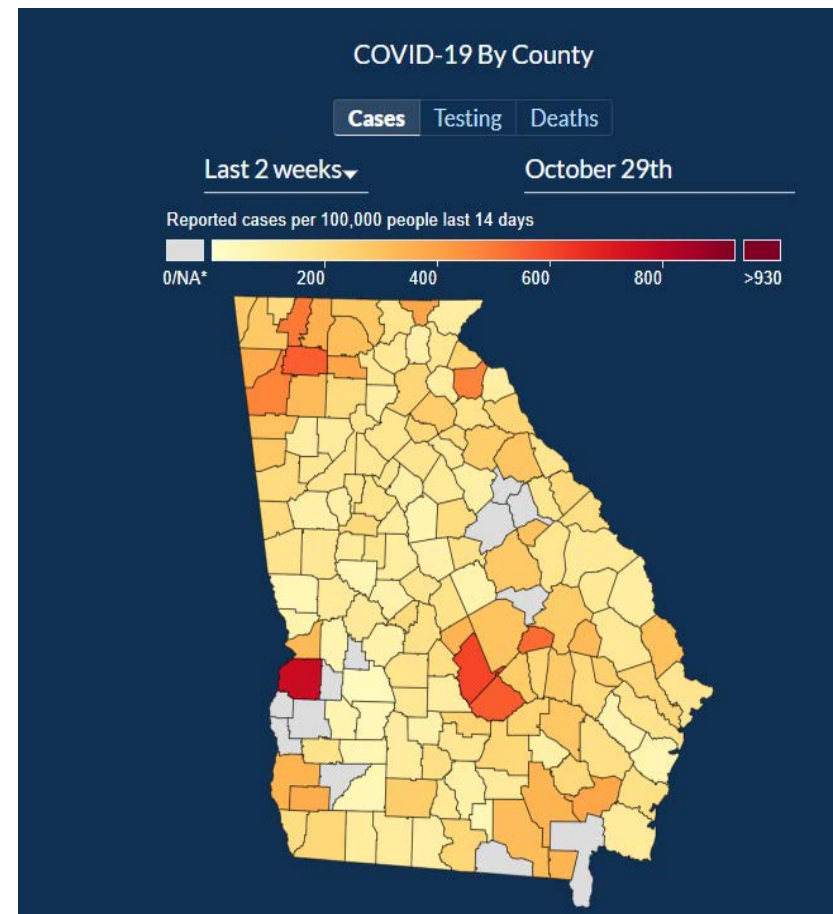
Deaths = 8,403



<https://dph.georgia.gov/covid-19-daily-status-report>

# COVID-19 cases in Georgia

## October 16 vs 29



# White House Coronavirus Task Force Reports

## GEORGIA

STATE REPORT | 10.25.2020

	STATE, LAST WEEK	STATE, % CHANGE FROM PREVIOUS WEEK	FEMA/HHS REGION, LAST WEEK	UNITED STATES, LAST WEEK
NEW COVID-19 CASES (RATE PER 100,000)	9,923 (93)	+13%	90,091 (135)	436,442 (133)
VIRAL (RT-PCR) LAB TEST POSITIVITY RATE	6.4%	+0.5%*	6.9%	5.8%
TOTAL VIRAL (RT-PCR) LAB TESTS (TESTS PER 100,000)	117,816** (1,110**)	-12%**	1,017,322** (1,520**)	6,706,546** (2,043**)
COVID-19 DEATHS (RATE PER 100,000)	215 (2.0)	+3%	1,543 (2.3)	5,484 (1.7)
SNFs WITH ≥1 NEW RESIDENT COVID-19 CASE	8%	+0%*	15%	12%
SNFs WITH ≥1 NEW STAFF COVID-19 CASE	20%	+0%*	29%	24%
SNFs WITH ≥1 NEW RESIDENT COVID-19 DEATH	3%	-2%*	5%	4%

## GEORGIA

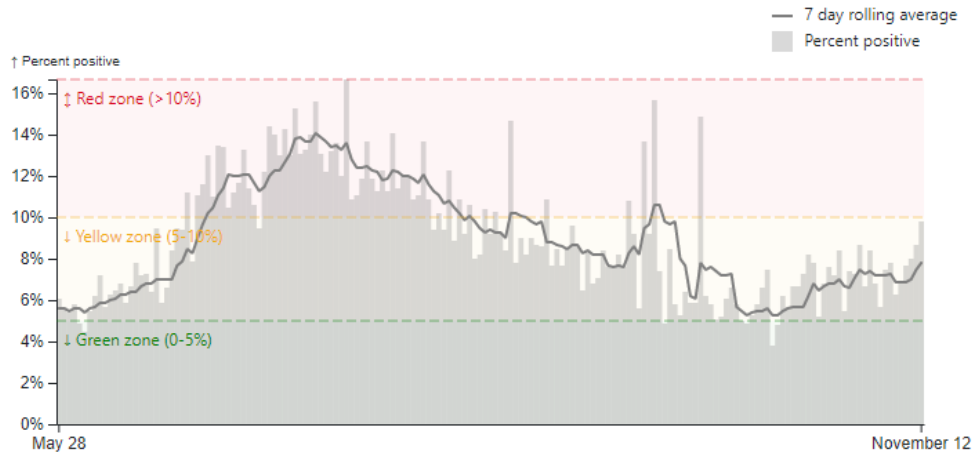
STATE REPORT | 11.08.2020

	STATE	STATE, % CHANGE FROM PREVIOUS WEEK	FEMA/HHS REGION	UNITED STATES
NEW COVID-19 CASES (RATE PER 100,000)	11,901 (112)	+14%	106,660 (159)	687,656 (209)
VIRAL (RT-PCR) LAB TEST POSITIVITY RATE	7.4%	+0.2%*	7.8%	8.4%
TOTAL VIRAL (RT-PCR) LAB TESTS (TESTS PER 100,000)	119,081** (1,122**)	-16%**	1,149,018** (1,717**)	7,362,570** (2,243**)
COVID-19 DEATHS (RATE PER 100,000)	208 (2.0)	+8%	1,343 (2.0)	6,542 (2.0)
SNFs WITH ≥1 NEW RESIDENT COVID-19 CASE	10%	-1%*	15%	15%
SNFs WITH ≥1 NEW STAFF COVID-19 CASE	19%	-1%*	29%	29%
SNFs WITH ≥1 NEW RESIDENT COVID-19 DEATH	4%	-3%*	6%	5%



# Testing and positivity trends

## Percent testing positive for Coronavirus in Georgia



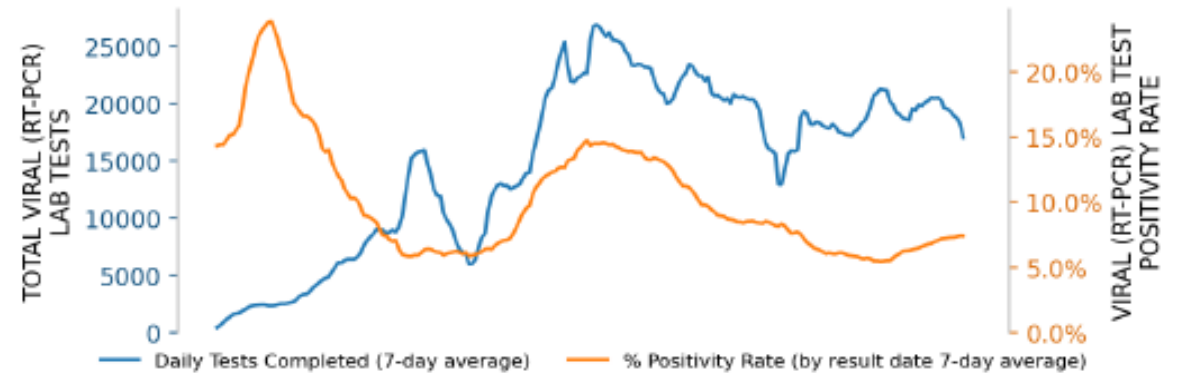
Note: Data on current infections is from electronic laboratory reporting to the state, which does not include all tests performed in Georgia. DPH excludes other testing sources because they do not consistently provide negative results, which must be factored in to arrive at positivity percentage. DPH also notes that, "People with a positive test often get retested and may test positive multiple times. These repeat positive tests will be counted as new positive tests."

Data: [Georgia Department of Public Health](#)

Zones: White House Coronavirus Task Force

Updated November 12

TESTING

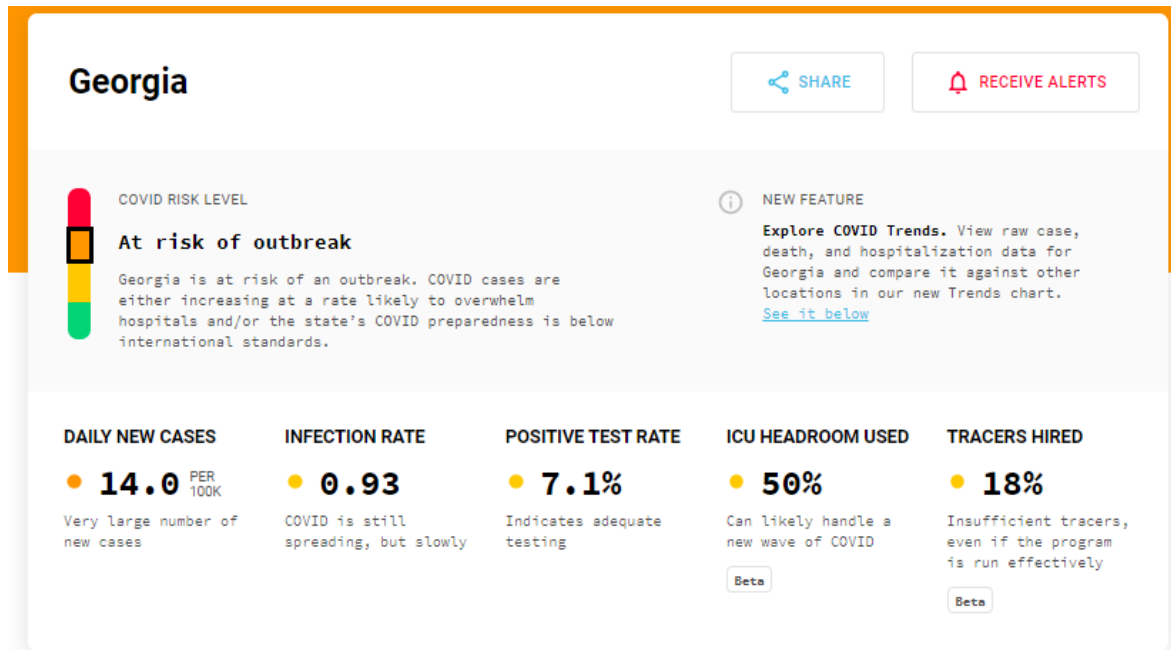


# COVID Act Now

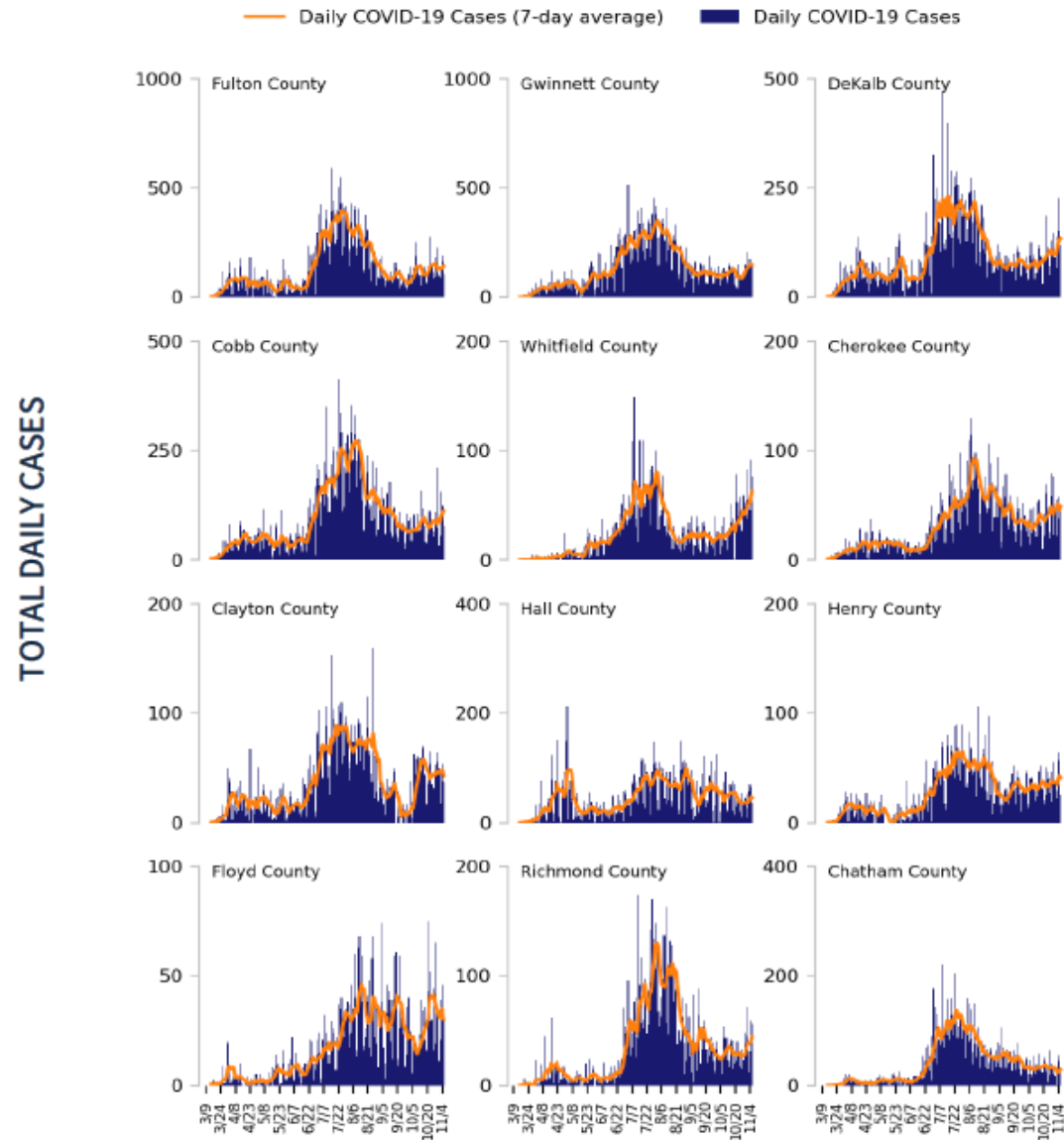
## GA losing ground but still ORANGE

Sept 24

Oct 30



## Top 12 counties based on number of new cases in the last 3 weeks



# COVID Act Now

## Fulton Co. Oct 2 vs Nov 12

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Oct 2

Nov 12

# COVID Act Now

## DeKalb Co. Oct 16 vs Nov 12

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Oct 16

Nov 12



# COVID-19 Atlanta Reopening Dashboard – November 5, 2020

#ATLSTRONG

Current Status: **Phase 2**

Metrics are reported to public weekly. Next update is on 11/12.

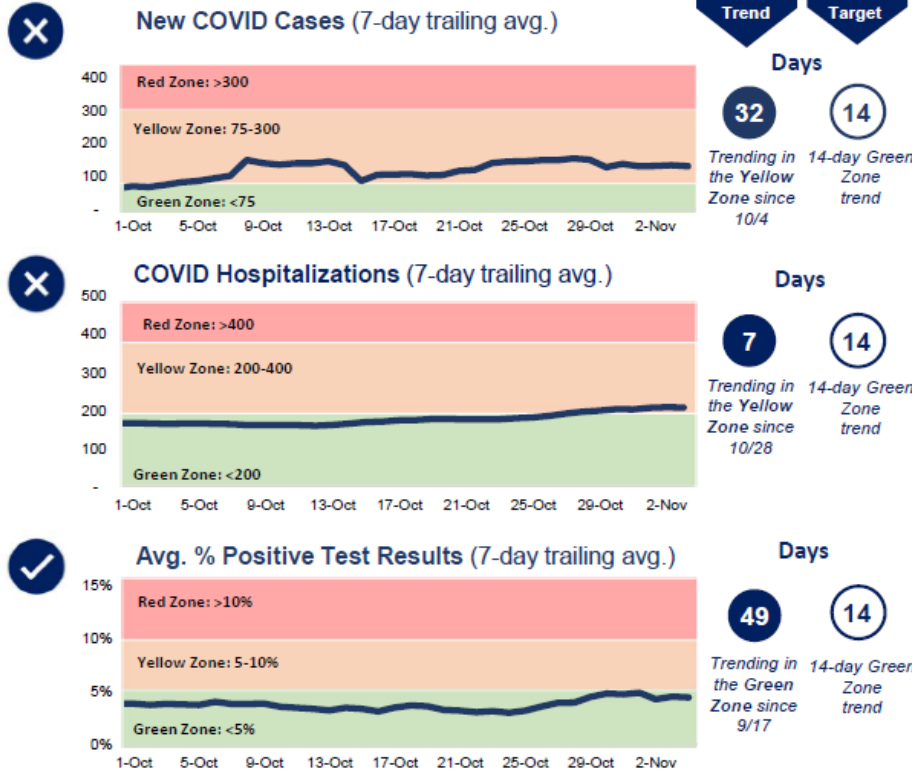
## Guidance Phase 2

- Social distancing
- To-go and curbside pickups from restaurants and retail establishments
- All persons are required to wear a mask or face covering over their nose and mouth
- Small, private gatherings of no more than 10 people, with social distancing

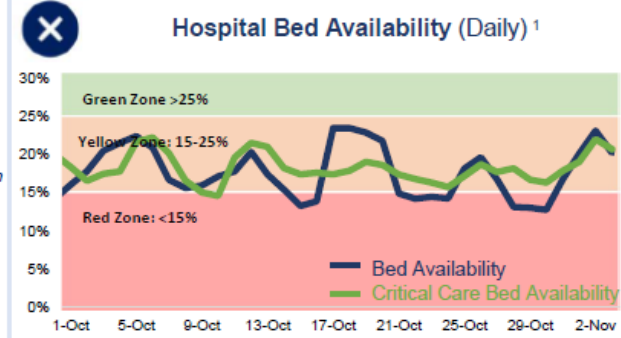
## Focus areas for next seven days

- Monitoring current Yellow Zone trends in new cases, hospitalizations, and hospital capacity.

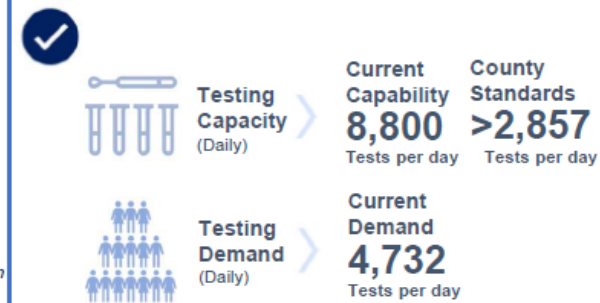
## Disease Spread Indicators



## Hospital Capacity Indicators



## Testing Indicators



<sup>1</sup> Hospital Bed Availability has reduced due to the decreased demand for COVID beds.

**Disclaimer:** All data used herein is not owned or maintained by the City of Atlanta. Data has been sourced from Fulton County Board of Public Health (FCBOH) & Atlanta-Fulton County Emergency Management Agency (AFCEMA). Fulton County-wide data is used as a proxy for severity in the City of Atlanta jurisdiction. Data will be updated based on changes made by FCBOH and AFCEMA. The City of Atlanta does not claim responsibility for the accuracy of the source data.

# Tracking the Coronavirus at U.S. Colleges and Universities

By The New York Times Updated Nov. 5, 2020

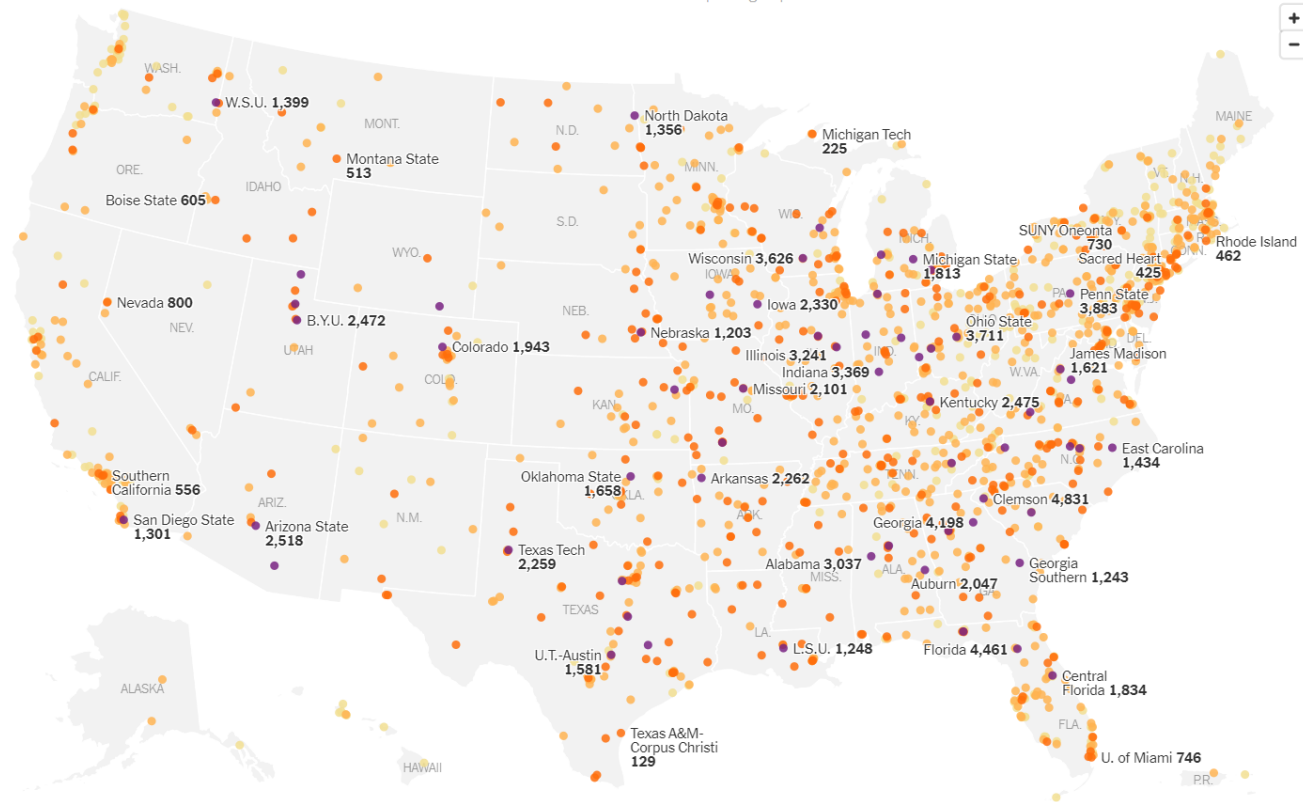
**252,000+**  
Cases

**1,600+**  
Colleges

Colleges with coronavirus cases since the pandemic began

● 1,000 or more cases ● 100-999 cases ● 10-99 cases ● Fewer than 10 cases

Double-click to zoom into the map. Drag to pan.



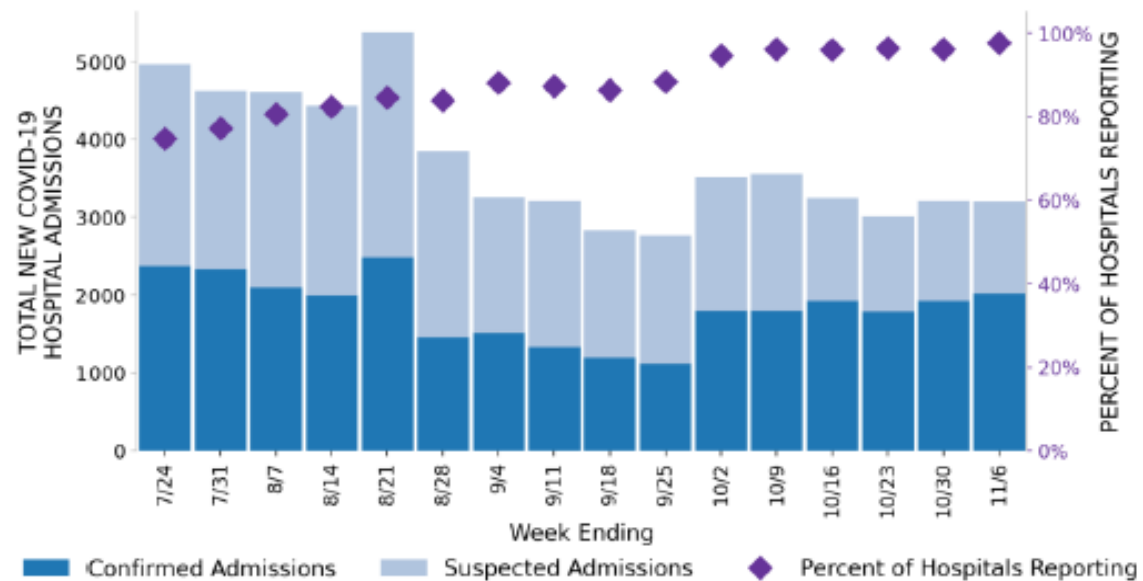


# GEORGIA

STATE REPORT | 11.08.2020

137 hospitals are expected to report in Georgia

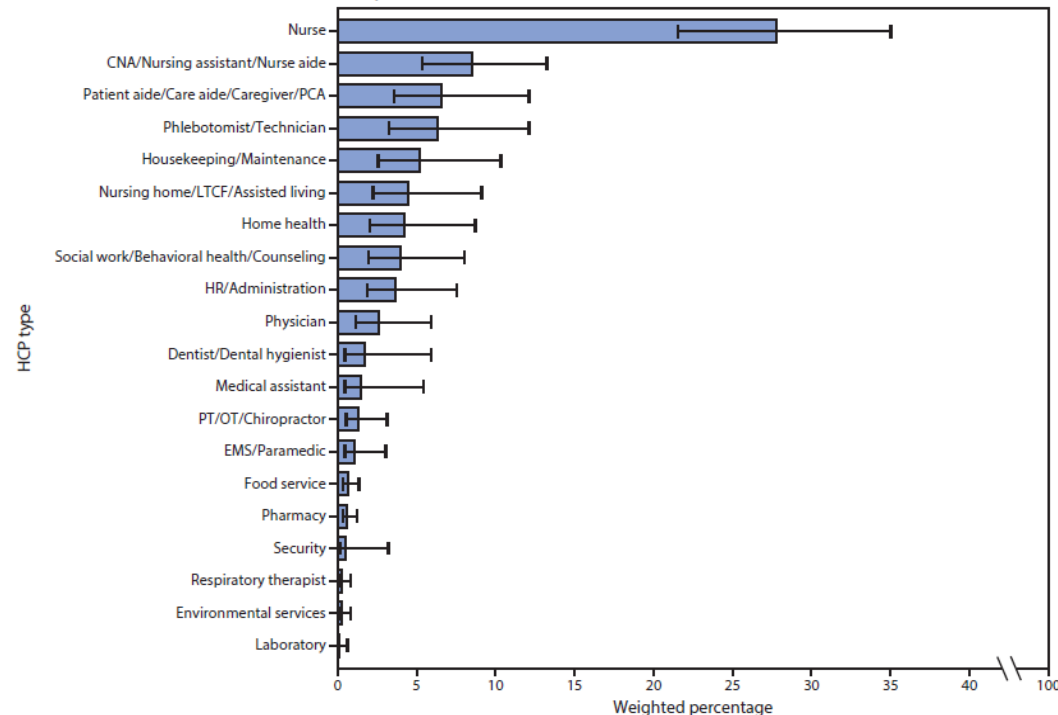
## HOSPITAL ADMISSIONS



## COVID-19–Associated Hospitalizations Among Health Care Personnel — COVID-NET, 13 States, March 1–May 31, 2020

Anita K. Kambhampati, MPH<sup>1</sup>; Alissa C. O'Halloran, MSPH<sup>1</sup>; Michael Whitaker, MPH<sup>1,2</sup>; Shelley S. Magill, MD, PhD<sup>3</sup>; Nora Chea, MD<sup>3</sup>; Shua J. Chai, MD<sup>4,5</sup>; Pam Daily Kirley, MPH<sup>4</sup>; Rachel K. Herlihy, MD<sup>6</sup>; Breanna Kawasaki, MPH<sup>6</sup>; James Meek, MPH<sup>7</sup>; Kimberly Yousey-Hindes, MPH<sup>7</sup>; Evan J. Anderson, MD<sup>8,9</sup>; Kyle P. Openo, DrPH<sup>8,9,10</sup>; Maya L. Monroe, MPH<sup>11</sup>; Patricia A. Ryan, MS<sup>11</sup>; Sue Kim, MPH<sup>12</sup>; Libby Reeg<sup>12</sup>; Kathryn Como-Sabetti, MPH<sup>13</sup>; Richard Danila, PhD<sup>13</sup>; Sarah Shrum Davis, MPH<sup>14</sup>; Salina Torres, PhD<sup>15</sup>; Grant Barney, MPH<sup>16</sup>; Nancy L. Spina, MPH<sup>16</sup>; Nancy M. Bennett, MD<sup>17</sup>; Christina B. Felsen, MPH<sup>17</sup>; Laurie M. Billing, MPH<sup>18</sup>; Jessica Shiltz, MPH<sup>18</sup>; Melissa Sutton, MD<sup>19</sup>; Nicole West, MPH<sup>19</sup>; William Schaffner, MD<sup>20</sup>; H. Keipp Talbot, MD<sup>20</sup>; Ryan Chatelain, MPH<sup>21</sup>; Mary Hill, MPH<sup>21</sup>; Lynnette Brammer, MPH<sup>1</sup>; Alicia M. Fry, MD<sup>1</sup>; Aron J. Hall, DVM<sup>1</sup>; Jonathan M. Wortham, MD<sup>1</sup>; Shikha Garg, MD<sup>1</sup>; Lindsay Kim, MD<sup>1</sup>; COVID-NET Surveillance Team

FIGURE 2. Weighted percentage of personnel types\*<sup>†</sup> among reported health care personnel (HCP) with COVID-19–associated hospitalizations (N = 438) — COVID-NET, 13 states,<sup>§</sup> March 1–May 31, 2020



### Summary

#### What is already known about this topic?

Data on characteristics and outcomes of U.S. health care personnel (HCP) hospitalized with COVID-19 are limited.

#### What is added by this report?

Analysis of COVID-19 hospitalization data from 13 sites indicated that 6% of adults hospitalized with COVID-19 were HCP. Among HCP hospitalized with COVID-19, 36% were in nursing-related occupations, and 73% had obesity. Approximately 28% of these patients were admitted to an intensive care unit, 16% required invasive mechanical ventilation, and 4% died.

#### What are the implications for public health practice?

HCP can have severe COVID-19–associated illness, highlighting the need for continued infection prevention and control in health care settings as well as community mitigation efforts to reduce SARS-CoV-2 transmission.



# Update: Characteristics of Symptomatic Women of Reproductive Age with Laboratory-Confirmed SARS-CoV-2 Infection by Pregnancy Status — United States, January 22–October 3, 2020

*Weekly* / November 6, 2020 / 69(44):1641–1647

*On November 2, 2020, this report was posted online as an MMWR Early Release.*

Compared with non-pregnant women, pregnant women more frequently were:

- Admitted to an ICU (10.5 versus 3.9 per 1,000 cases; aRR = 3.0; 95% CI = 2.6–3.4)
- Received invasive ventilation (2.9 versus 1.1 per 1,000 cases; aRR = 2.9; 95% CI = 2.2–3.8)
- Received ECMO (0.7 versus 0.3 per 1,000 cases; aRR = 2.4; 95% CI = 1.5–4.0)

# Operation Warp Speed

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Overseen by the Dept Health and Human Services and Dept of Defense

- Diagnostics, therapeutics and vaccines

Goal to produce 300 million doses of COVID vaccine with first doses by January 2021

Done with investment and coordination

Many partners—public and private

Protocols are overseen by federal government

No steps eliminated—steps proceed simultaneously

- Manufacturing and filling before completion of phase 3 trials and licensure
- Financial risk but not product risk

# Vaccine Update: Phase III clinical trials in the U.S.

- AZD1222 vaccine (AstraZeneca) announced removal of FDA hold 10/23, resuming Phase III trials
- Ad26.COV2.S vaccine (Janssen) announced lifting of safety pause 10/23, resuming Phase III trials
- BNT162b2 vaccine (Pfizer/BioNtech)
  - **42,133** participants enrolled as of 10/26/2020
  - 35,771 participants have received their second vaccination
  - 30% of U.S. participants enrolled have “diverse backgrounds”
- mRNA-1273 vaccine (Moderna): ***Enrollment Complete***
  - **30,000** participants enrolled as of 10/22/2020
  - 25,654 participants have received their second vaccination

Sources: <https://www.modernatx.com/cove-study>; <https://www.pfizer.com/science/coronavirus/vaccine>; <https://connect.trialscope.com/studies/34986a8a-b779-4169-a35c-5d929149d426>; <https://www.reuters.com/article/us-health-coronavirus-pfizer/pfizer-says-coronavirus-vaccine-study-shows-mostly-mild-to-moderate-side-effects-idUSKBN26631T>

# PFIZER AND BIONTECH ANNOUNCE VACCINE CANDIDATE AGAINST COVID-19 ACHIEVED SUCCESS IN FIRST INTERIM ANALYSIS FROM PHASE 3 STUDY

Monday, November 09, 2020 - 06:45am

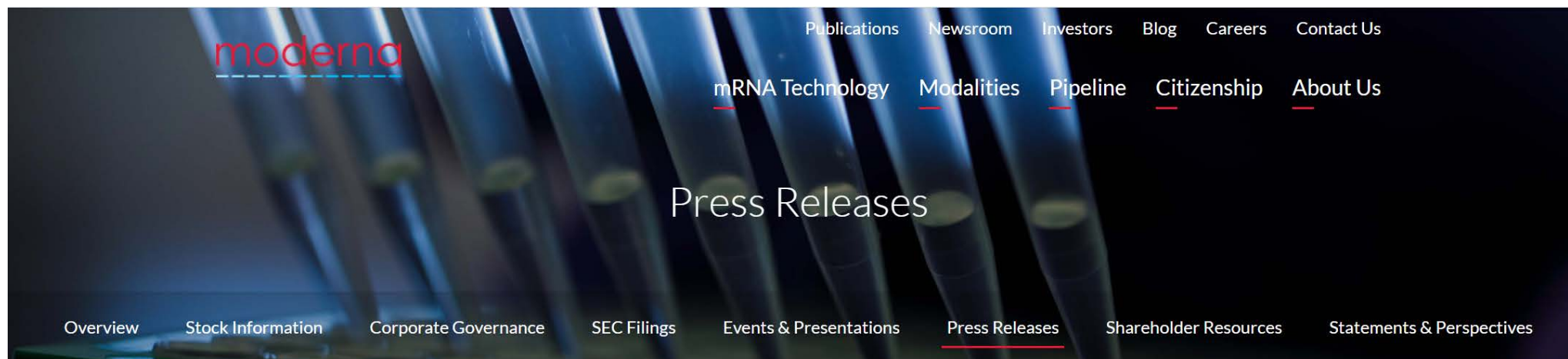
- Vaccine candidate was found to be more than 90% effective in preventing COVID-19 in participants without evidence of prior SARS-CoV-2 infection in the first interim efficacy analysis
- Analysis evaluated 94 confirmed cases of COVID-19 in trial participants
- Study enrolled 43,538 participants, with 42% having diverse backgrounds, and no serious safety concerns have been observed; Safety and additional efficacy data continue to be collected
- Submission for Emergency Use Authorization (EUA) to the U.S. Food and Drug Administration (FDA) planned for soon after the required safety milestone is achieved, which is currently expected to occur in the third week of November
- Clinical trial to continue through to final analysis at 164 confirmed cases in order to collect further data and characterize the vaccine candidate's performance against other study endpoints

This press release features multimedia. View the full release here:

<https://www.businesswire.com/news/home/20201109005539/en/>

94 events:

85 in placebo and 9 in vaccine arm (90.4% efficacy)



## Moderna's COVID-19 Vaccine Candidate Meets its Primary Efficacy Endpoint in the First Interim Analysis of the Phase 3 COVE Study

November 16, 2020 at 6:56 AM EST

 PDF Version

*First interim analysis included 95 participants with confirmed cases of COVID-19*

*Phase 3 study met statistical criteria with a vaccine efficacy of 94.5% ( $p < 0.0001$ )*

*Moderna intends to submit for an Emergency Use Authorization (EUA) with U.S. FDA in the coming weeks and expects the EUA to be based on the final analysis of 151 cases and a median follow-up of more than 2 months*



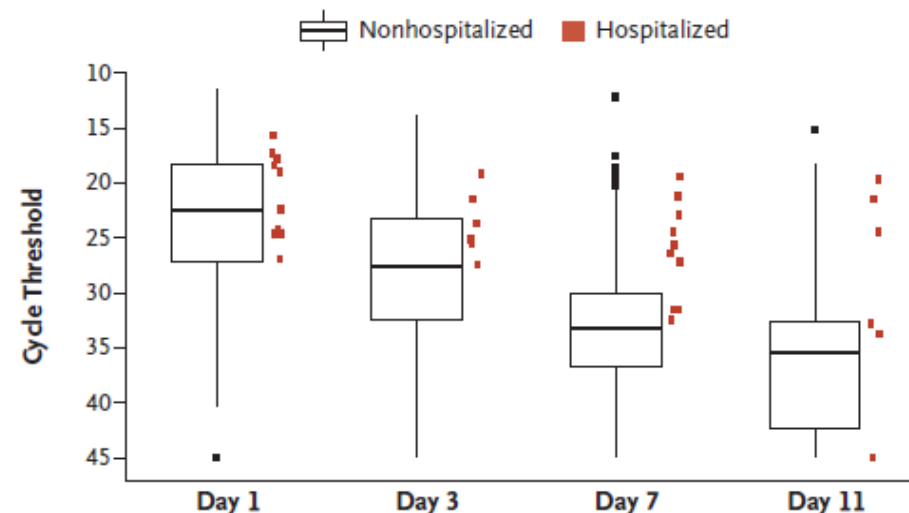
## ORIGINAL ARTICLE

# SARS-CoV-2 Neutralizing Antibody LY-CoV555 in Outpatients with Covid-19

Peter Chen, M.D., Ajay Nirula, M.D., Ph.D., Barry Heller, M.D., Robert L. Gottlieb, M.D., Ph.D., Joseph Boscia, M.D., Jason Morris, M.D., Gregory Huhn, M.D., M.P.H.T.M., Jose Cardona, M.D., Bharat Mocherla, M.D., Valentina Stosor, M.D., Imad Shawa, M.D., Andrew C. Adams, Ph.D., Jacob Van Naarden, B.S., Kenneth L. Custer, Ph.D., Lei Shen, Ph.D., Michael Durante, M.S., Gerard Oakley, M.D., Andrew E. Schade, M.D., Ph.D., Janelle Sabo, Pharm.D., Dipak R. Patel, M.D., Ph.D., Paul Klekotka, M.D., Ph.D., and Daniel M. Skovronsky, M.D., Ph.D., for the BLAZE-1 Investigators\*

LY-CoV555 is a potent antispikes neutralizing monoclonal antibody that binds with high affinity to the receptor-binding domain of SARS-CoV2

## A Viral Load in All Patients



## CONCLUSIONS

In this interim analysis of a phase 2 trial, one of three doses of neutralizing antibody LY-CoV555 appeared to accelerate the natural decline in viral load over time, whereas the other doses had not by day 11. (Funded by Eli Lilly; BLAZE-1 ClinicalTrials.gov number, NCT04427501.)

Authorized by FDA EUA



## BAMLANIVIMAB

### Allocation & Distribution of Bamlanivimab





A portrait of Benjamin Franklin, an older man with long brown hair and round spectacles, wearing a white ruffled shirt and a brown strap over his shoulder. He is looking slightly to the left with a thoughtful expression.

“By failing to prepare,  
you are preparing to fail.”

Benjamin Franklin

Goalcast

# Questions?

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@CARLOSDELRIO7