



**BLOOMBERG
HARVARD**

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Initiative



COVID-19

SITUATION REPORT

July 23, 2020 | Joshua Sharfstein, MD



World Map



U.S. Map



Critical Trends



COVID-19 Dashboard by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University (JHU)



Total Confirmed

3,971,343

Confirmed Cases by Country/Region/Sovereignty

- 3,971,343 US
- 2,227,514 Brazil
- 1,238,798 India
- 793,720 Russia
- 394,948 South Africa
- 366,550 Peru
- 362,274 Mexico
- 334,683 Chile
- 297,952 United Kingdom

Admin0

Last Updated at (M/D/YYYY)

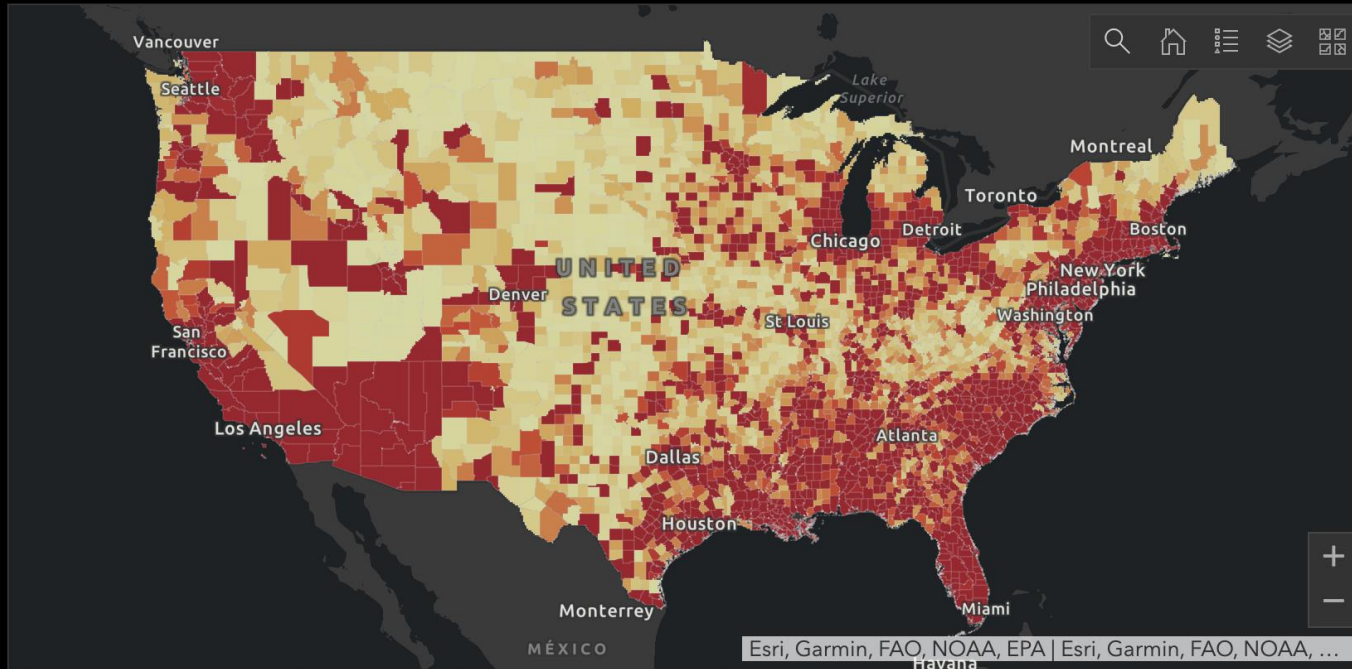
7/23/2020, 7:34:59 AM

188

countries/regions

[Lancet Inf Dis Article: Here.](#) [Mobile Version: Here.](#)

Lead by JHU CSSE. Technical Support: [Esri Living Atlas team](#) and [JHU APL](#). Financial Support: [JHU](#), [NSF](#), [Bloomberg Philanthropies](#) and [Stavros Niarchos Foundation](#). Resource support: [Slack](#).



Confirmed by Population | **Confirmed** | Deaths | Fatality Rate

Esri, Garmin, FAO, NOAA, EPA | Esri, Garmin, FAO, NOAA, ...

Global Deaths

143,193

143,193 deaths
US

Global Deaths

US State Level

Deaths, Recovered

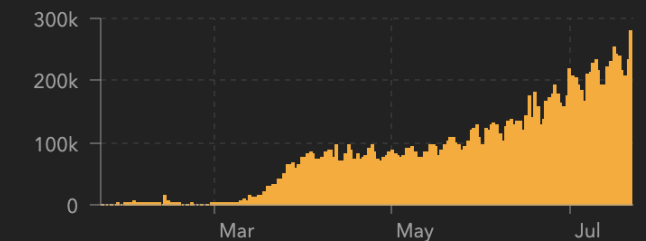
32,558 deaths, **72,386** recovered
New York US

15,707 deaths, **31,850** recovered
New Jersey US

8,468 deaths, **96,452** recovered
Massachusetts US

8,047 deaths, **recovered**

US Deaths, Re...



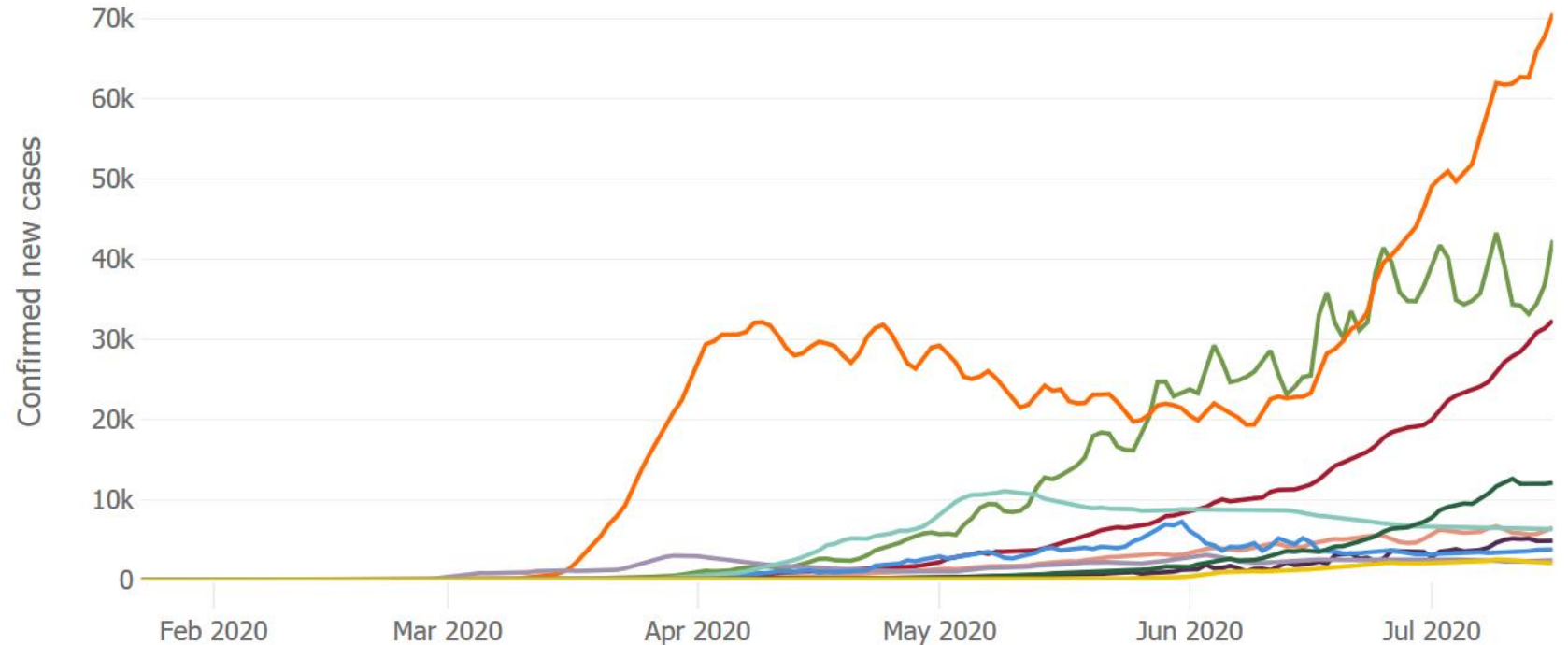
Confirmed | Logarithmic | **Daily Cases**



Cases
soaring,
deaths
rising

Daily confirmed new cases (5-day moving average)

Outbreak evolution for the current 10 most affected countries



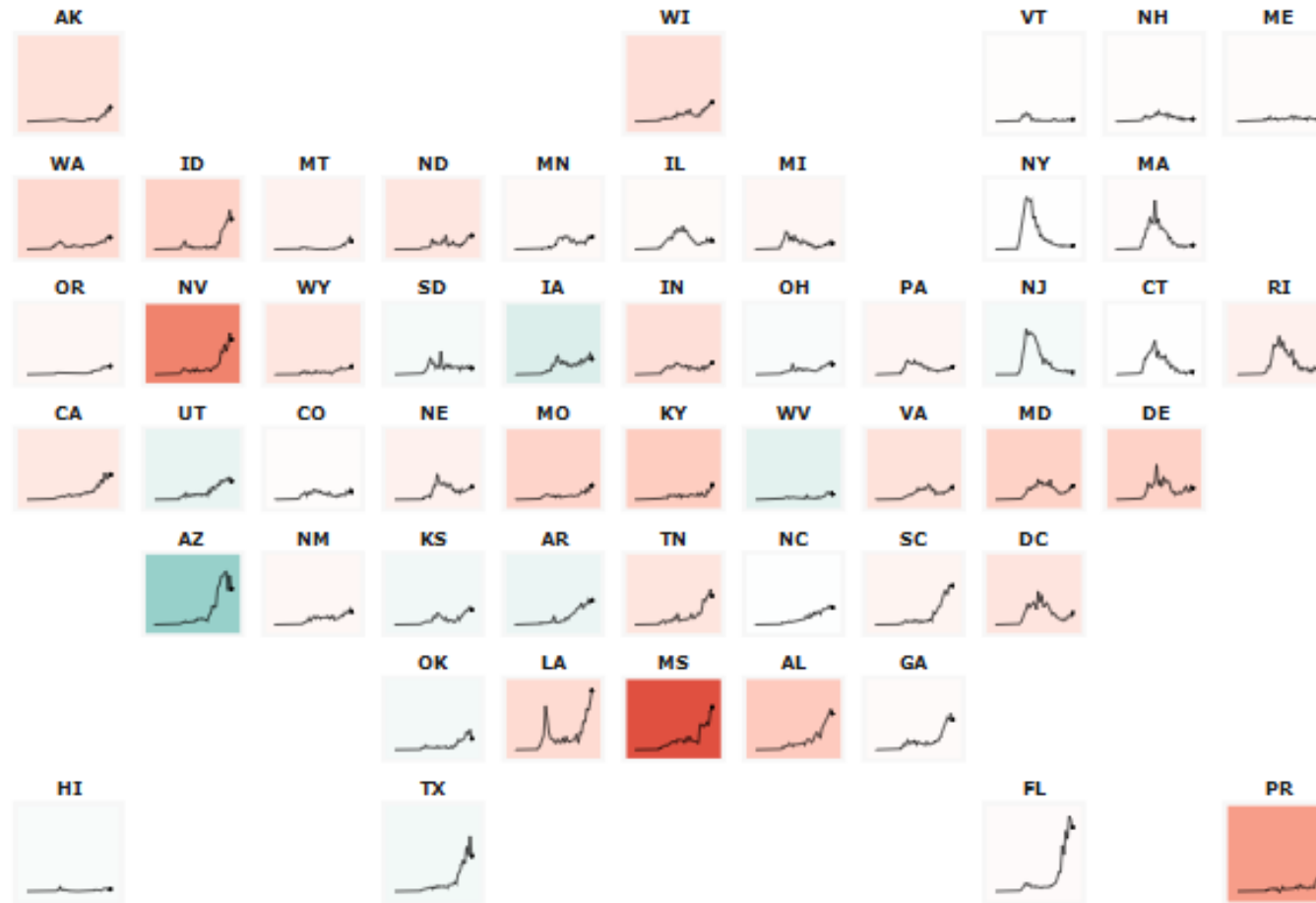
Click any country below to hide/show from the graph:

- | | | | | |
|---|--|--|--|--|
|  Brazil |  US |  Mexico |  India |  Colombia |
|  Iran |  Peru |  Russia |  South Africa |  Iraq |



Lots of viral spread

Daily New Cases per 100k people. Data shown from 1/22/20 to 7/21/20.



What's New This Week



Masks

A new paper suggests masks may make disease milder for people who wear them. The CDC Director describes mask-wearing as one of the most important steps to slow the pandemic.



For Mayors

Wearing masks may help people protect themselves from serious illness. Now is a good time to make a renewed push on mask wearing in your community.



What's New This Week



Vaccines Coming?

Vaccines don't save lives; **vaccination** saves lives. A new report points out how important it is to plan for distributing a safe and effective vaccine.



For Mayors

Consider establishing a committee to track vaccine developments, solicit questions and get them answered, and plan for how to distribute vaccine successfully.





Schools & COVID-19

July 23, 2020 | Joshua Sharfstein, MD

The Dilemma

Children benefit immensely from **in-person** schooling



EDUCATION

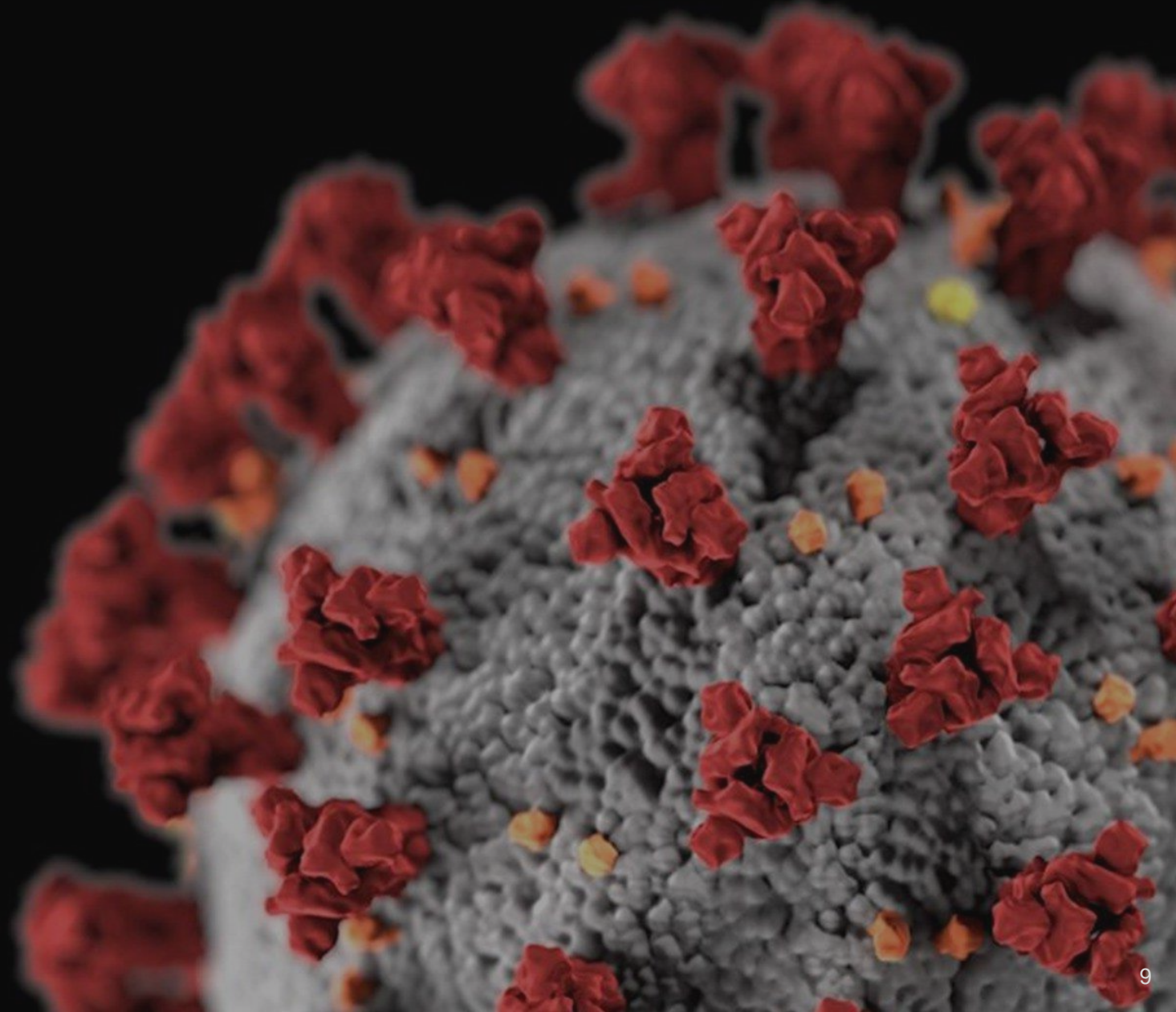


NUTRITION



SAFETY

COVID-19 poses a **risk** to children, families, teachers, and staff



The Context: Profound Inequity



Many public school systems are **grossly underfunded**, with deteriorating infrastructure.

There are enormous divides in access to digital technology.



The COVID-19 pandemic continues to **strike hardest** in communities of color.

- ▶ African-Americans and Latinx are infected at rates 5X and 4X greater than white Americans, respectively.
- ▶ Deaths among younger adults far higher in communities of color.

State of the Data

Risk of Serious Illness

Much lower for children, particularly at younger ages (but not zero).

Risk of Illness

Appears similar or somewhat lower for children than adults, with 90% getting mild infections.

Risk of Transmission

May be lower than for adults, but data are still limited.

Risks to Teachers and Staff



1/5 of teachers and 1/3 of principals are **age 55 and older**

Teachers and staff may have **underlying illnesses**

Understandable **fear**

Political demands for reopening complicating situation

Lessons from Abroad

- ▶ Open when ready
- ▶ Take precautions



Where Schools Reopen, Distancing and Disinfectant Are the New Coronavirus Routine

After Reopening Schools, Israel Orders Them To Shut If COVID-19 Cases Are Discovered

A Path Forward

First

Control the pandemic;
Infection rates declining
substantially or low

Second

**Focus on those students who
need in-person schooling most;**
Younger ages, special services are
at highest social risk

Third

Reduce infection risk at school
through cohorts, masks where possible,
handwashing, and cleaning

Fourth

**Offer online options to at-risk
teachers and students;** Prepare
response for cases and switch to
remote learning

Schools Need Resources to Succeed

More space

More personnel

More transportation options

More access to testing

More communication and
engagement



Recommendations for Mayors

ADVOCATE

Seek more resources for school systems

HELP PRIORITIZE

Engage with parents, teachers, schools to develop a path for children most at risk first

BRIDGE

Schools to health systems for testing and response planning

ONE STEP AT A TIME

Establish process for re-evaluating state of pandemic as well as new emerging evidence on schools




Resources

*The National
Academies of*

SCIENCES
ENGINEERING
MEDICINE

Reopening K-12 Schools During the COVID-19 Pandemic
Prioritizing Health, Equity, and Communities (2020)

 Consensus Study Report

COVID-19

RESOLVE
TO SAVE LIVES

 Vital
Strategies

Reopening America's Schools: A Public Health Approach

American Academy
of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN®

COVID-19 Planning Considerations: Guidance for School Re-entry

July 23, 2020

QUESTIONS?

Joshua Sharfstein, MD



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