



COVID-19 SITUATION REPORT

January 28, 2021 | Joshua Sharfstein, MD

Events & News

Tracking Home Critical Trends Global Map U.S. Map **Data in Motion**



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

Global Cases 25,599,961 Cases by Country/Region/Sovereignty India Brazil Russia United Kingdom France Spain Italy Turkey Germany Colombia Argentina Mexico Poland South Africa Admin2

192 Last Updated at (M/D/YYYY) 1/28/2021, 8:22 AM countries/regions

CANADA Calgary MÉXICO Mexico City Port-au-Prince Esri, Garmin, FAO, NOAA, EPA Cumulative Cases Active Cases Incidence Rate Case-Fatality Ratio Testing Rate

Lancet Inf Dis Article: Here. Mobile Version: Here. Data sources: Full list. Downloadable database: GitHub, Feature Layer. 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, Github and AWS. Click here to donate to the CSSE dashboard team, and other JHU COVID-19 Research Efforts. FAQ. Read more in this blog.



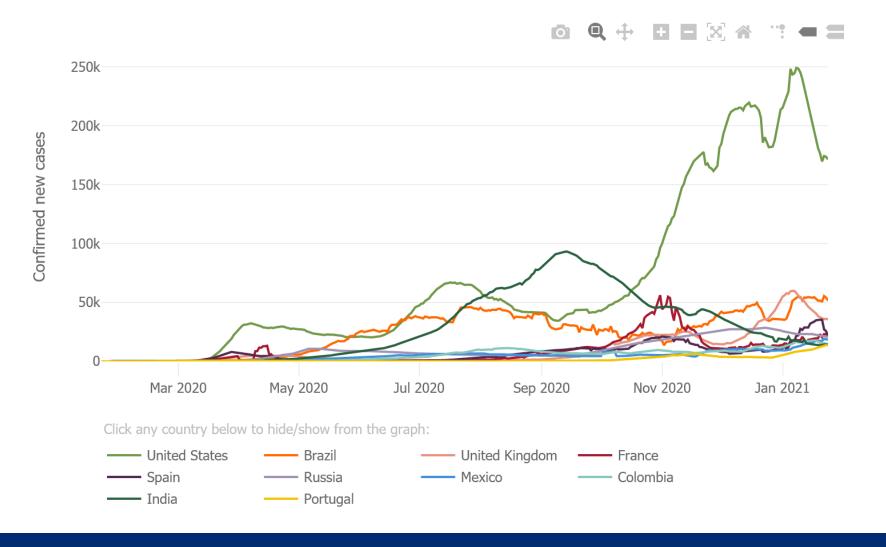


Daily Cases

Postholiday peak subsiding

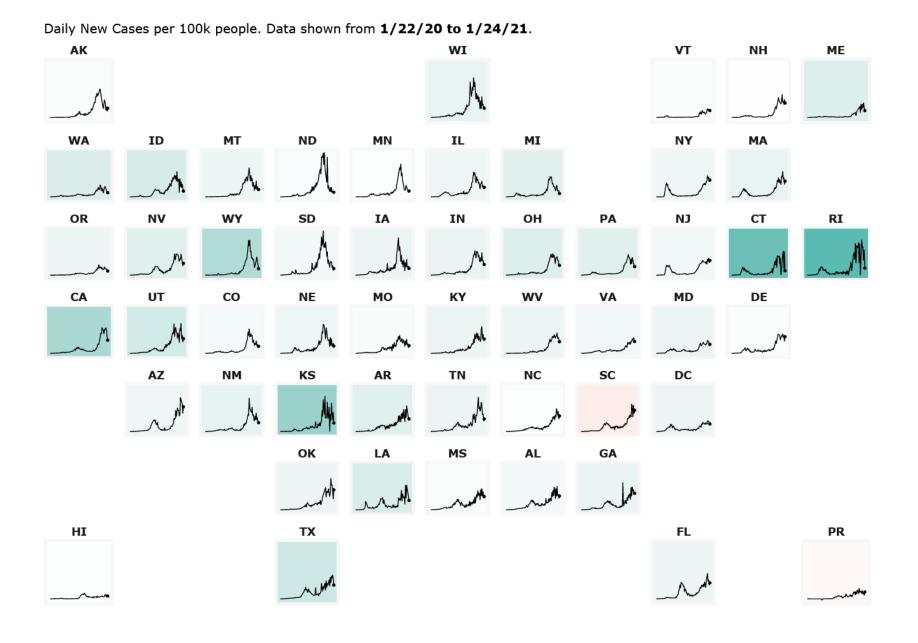
DAILY CONFIRMED NEW CASES (7-DAY MOVING AVERAGE)

Outbreak evolution for the current 10 most affected countries





Many states stable or declining





What's New This Week



Vaccine Confusion

How many doses? Where will they be distributed? Who qualifies? How can I advise someone eager to be vaccinated?



For Mayors

Be an advocate for your city, asking the state, hospitals, pharmacies and others to make eligibility guidelines and opportunities for vaccination clear.



What's New This Week





Equity & Vaccines

When demand is greater than supply, the most connected win the race to get vaccines. Those who lack internet, still have questions, or can't get to vaccine centers fall behind.

For Mayors

Advocate for neighborhoods and communities hit hard by the pandemic to have vaccine access. Consider working with partners to launch mobile vaccine teams, bringing answers and vaccines to people at highest risk.





COVID-19 Variant Viruses

Andrew Pekosz, PhD

PROFESSOR, MOLECULAR MICROBIOLOGY AND IMMUNOLOGY | JOHNS HOPKINS UNIVERSITY BLOOMBERG SCHOOL OF PUBLIC HEALTH

What is a virus variant?

Viruses are always mutating and taking on new forms, and some COVID-19 variants are highly transmissible

UK VARIANT

- Emerged in September 2020 in Kent, England
- Contains an unusually high number of mutations compared to most other COVID viruses

BRAZIL AND SOUTH AFRICAN VARIANT

- Have mutations that may reduce antibody binding
- Unclear whether they transmit at a faster rate

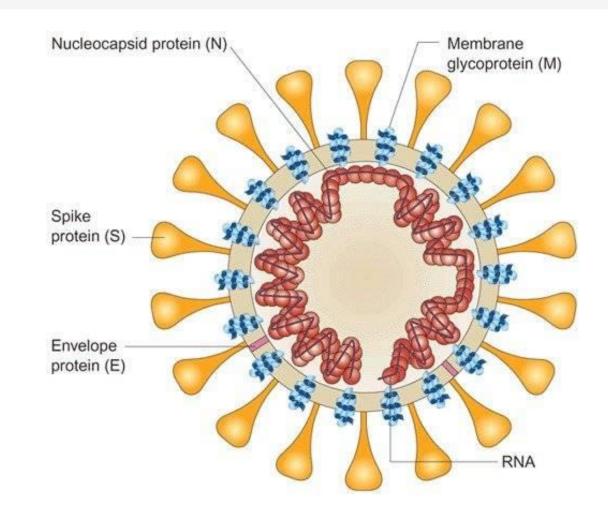
OTHER VARIANTS - EXAMPLE: 484

- Have mutations that may reduce antibody binding
- Are not related to the above variants and appear to be new



All viruses mutate at a particular rate, and COVID-19 appears to mutate every week or so

How did this virus variant happen?





Do virus variants mean COVID-19 is more contagious and/or harmful?

VARIANTS AND SPREAD

Some COVID-19 variants seem to spread more easily than older COVID-19 viruses

MUTATIONS AND TRANSMISSION

While mutations are making the virus more transmissible and therefore cases are increasing, it does not appear to be more fatal

BUT MORE CASES MEAN PROPORTIONALY MORE SEVERE CASES

More cases will result in more hospitalizations and deaths, even if the virus isn't causing more severe disease



Masks, physical distancing, avoiding crowds, etc. need to be strengthened to help stop the spread of COVID-19



Will the vaccine still protect against the COVID-19 variants?

The New York Times

Is the Covid-19 Vaccine Effective Against New South African Variant?

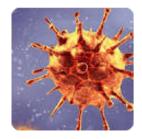
As the coronavirus assumes contagious new forms around the world, two drug makers reported on Monday that their vaccines, while still ... 1 day ago



BBC News

Moderna vaccine appears to work against variants

Moderna's Covid vaccine appears to work against new, more infectious variants of the pandemic virus found in the UK and South Africa, say ... 1 day ago



Current vaccines will still work against the new variants, but might not work as efficiently

Need to continue to track the new variants to determine whether changes to the vaccine are necessary



If you've already had COVID-19, are you still susceptible to the new virus variants?



Immunity from COVID-19 infection recognizes new variants



BUT,

being vaccinated provides a person with <u>more protection</u> than immunity from being infected with COVID-19

Getting a vaccination even after being infected is recommended



What Can Mayors Do Now?

Much of the Same.



Continue to **promote social distancing** measures



Continue to coordinate with your state/county about vaccine distribution so you are ready in case new vaccine guidance comes out regarding the new variants



Direct constituents to sign up for vaccines



Check with public health authorities to see whether they are testing and sequencing enough samples to detect new variant spread



Communicate clearly
with nervous and
exhausted public that
current vaccines still work
against the new variants



Stronger public health interventions may be needed if new variants are spreading more rapidly