





PLAY THE CROSSWORD

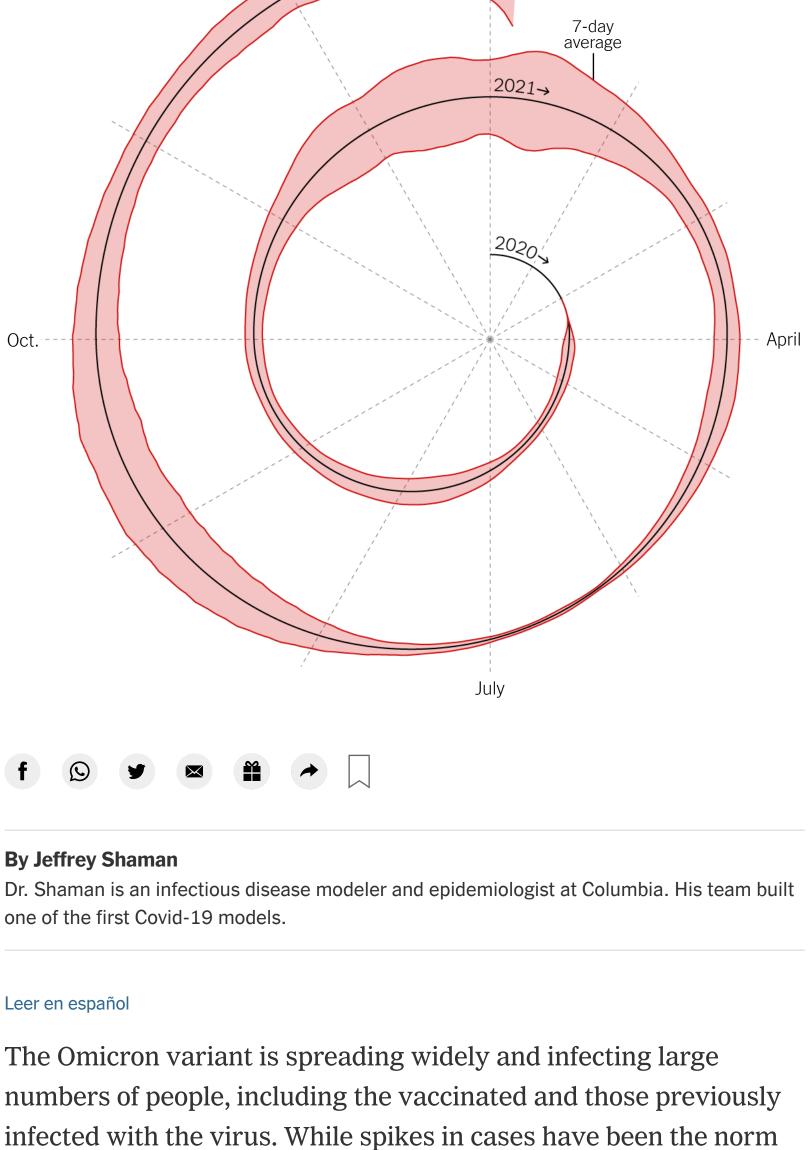
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Jan. 6, 2022

Jan. New Covid-19 cases. **United States** 2022→ 150K cases 7-day average

Here's When We Expect Omicron to

Peak



for the past two years, there are clear indications this wave will differ substantially from previous ones.

The record number of cases in the United States and globally is largely because Omicron is more contagious than other variants and has a greater ability to evade immunity to infection. At the same time, early evidence indicates that it's less common for

people infected with Omicron to experience severe disease and end up in the hospital. This has important implications when estimating

landfall forecast.

The New York Times

Show

just how disruptive Omicron will be in terms of deaths, hospitalizations and work and school interruptions. To assess the future burden of a variant like Omicron, epidemiologists like myself often turn to mathematical modeling and projection. The idea is to use a computer-based representation of how the virus spreads to simulate potential future outcomes. It is important for modelers to explore the unknowns around Covid.

For instance, evidence indicates that Omicron is more

transmissible than the Delta variant, but by how much? By

incorporating uncertainties into our models, we don't merely

project a single outcome. Instead, we create a distribution of

outcomes, much like the cone of uncertainty used for a hurricane

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Projecting the Covid-19 burden is also more difficult now because

of the December holidays. Reporting of cases is often delayed

during the two weeks beginning shortly before Christmas until

shortly after New Year's Day. As a consequence, reported case

All these issues create uncertainty and limit how far we can

to six weeks is as far as modelers should routinely project.

So what does my team see for January 2022?

case increases, or even declines.

10

numbers can give the misleading short-term appearance of steep

reliably project the burden of Omicron. My inclination is that four

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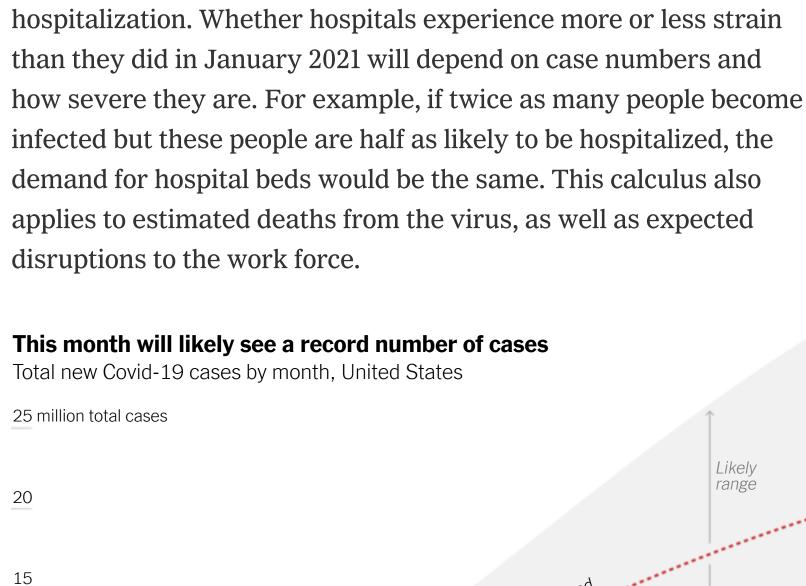
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PAID POST: Alaïa Alaïa Looks Ahead

Our models project that the United States is likely to document more Covid-19 cases in January than in any previous month of the pandemic, but a smaller fraction of those cases will require

5 Jan. 2021 Jan. Previous months 10 25 30 15 20 Day of the month Sources: Projections by Teresa Yamana, Sen Pei, Marta Galanti and Jeffrey Shaman at Columbia University. Our projections depict a rapid surge of cases nationally that peaks at record high numbers during the first one to three weeks of January. Just how many? Our middle-of-the-cone projection produces five million cases during the worst week but ranges from three million to more than eight million cases. And the estimates



vary by location. New York City is projected to peak during the

first week of January; other locations peak later.

whether the steep rise of Omicron cases is followed by a rapid decline, as has been seen in South Africa. This would make the Omicron wave intense but short-lived. However, a rapid decline is not guaranteed. South Africa has a younger population compared to the United States, and younger people are more likely to have mild, undetected infections. South Africa is also in summer, which is less favorable for virus transmission. Other countries like Britain, which has demographics more similar

to the United States and is also in winter, will be critical to watch. If

Britain also experiences a rapid case decline, that may bode well

The implications for hospitalizations and deaths here from the

Omicron wave are even less certain. While Omicron is causing

record numbers of infections, the hope is that vaccinations, booster

shots and prior infections by other variants will still protect most

people from the worst effects of the virus. Early evidence supports

this conclusion. However, Omicron may still greatly affect our daily

lives in other ways: If teachers test positive and schools move to

remote instruction; if flights, subways and buses are disrupted

for the United States.

As we move deeper into January, it will be important to monitor

because of a lack of workers, or if elective surgeries are postponed because of staffing shortages. What will happen beyond January? We don't yet know the ultimate fate of SARS-CoV-2 and all its variants. The future burden of Covid depends in large part on whether highly transmissible variants able to evade pre-existing immunity, such as Omicron, continue to emerge. If new variants arise roughly twice per year, for example, then we should expect multiple outbreaks each year, even in the summer. If such variants emerge less frequently, then outbreaks might occur annually or even less frequently. The severity of these outbreaks

will depend on the characteristics of those new variants and

people at a lower risk of severe disease.

booster shots and prepare for a bumpy January.

Dec. 10, 2021

whether prior infections, vaccination and new drugs can keep

Still, the familiar advice remains the best: get vaccinated, get

Opinion | Andrew Pekosz

The long-term implications of Omicron remain unknown, but in the

near term, everyone should expect an intense month of disruption.

Opinion | Daniela J. Lamas An I.C.U. Doctor's Message of Hope Amid Omicron Dec. 27, 2021

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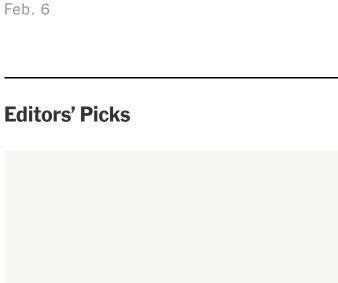
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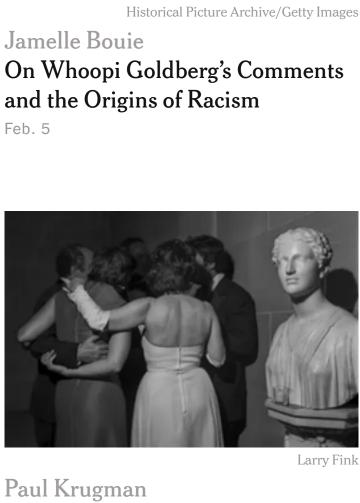
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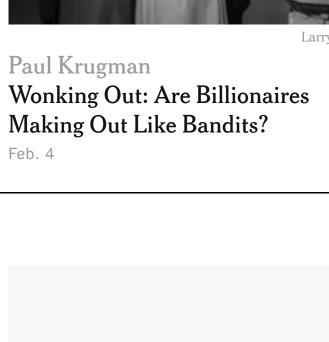
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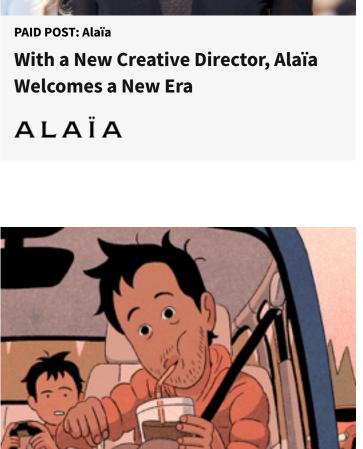




Feb. 4







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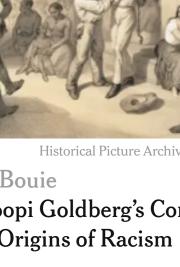
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The School of

Graphics by Gus Wezerek and Sara Chodosh. Jeffrey Shaman (@ShamanJeffrey) is an infectious disease modeler and epidemiologist in the department of environmental health sciences at the Mailman School of Public Health at Columbia. His team built one of the first Covid-19 models. He is also director of the Climate and Health Program, a senior associate dean in the Columbia Climate School and faculty chair of the Earth Institute at Columbia University. The Times is committed to publishing a diversity of letters to the editor. We'd like to hear what you think about this or any of our articles. Here are some tips. And here's our email: letters@nytimes.com. Follow The New York Times Opinion section on Facebook, Twitter (@NYTopinion) and A version of this article appears in print on Jan. 8, 2022, Section A, Page 20 of the New York edition with the headline:

More on Omicron





Ominous? Yes.

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