

# "Strategic Advice in an Era of Unprecedented Change"







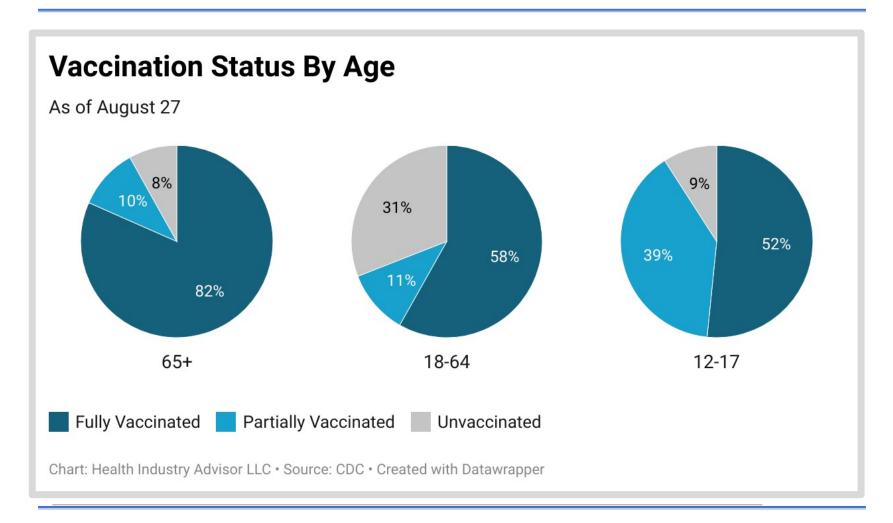


Covid-19 "Vital Signs"

Issue # 345 August 29, 2021

#### Vaccination Status By Age – United States

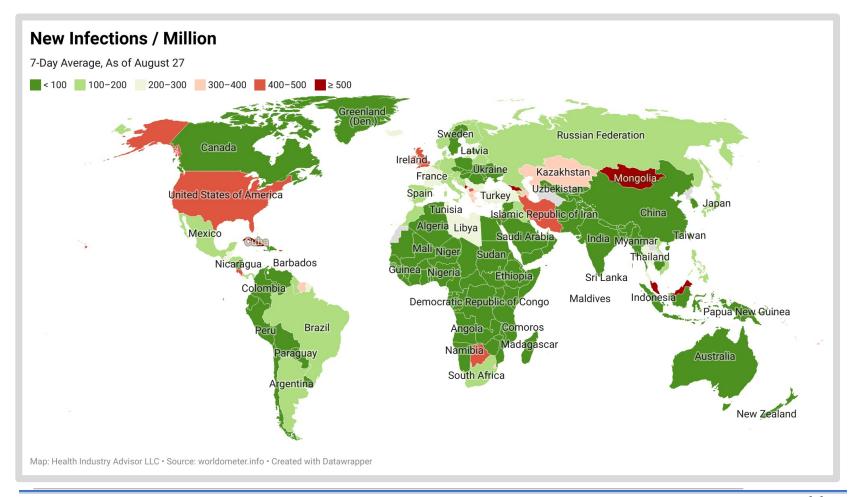
Ninety percent of eligible school-aged persons have received at least one dose. More than half are fully vaccinated. Non-senior adults have been the most resistant to getting vaccinated.





## **Newly Detected Cases / Million**

Several large countries are suffering with high infection rates, including the United States.

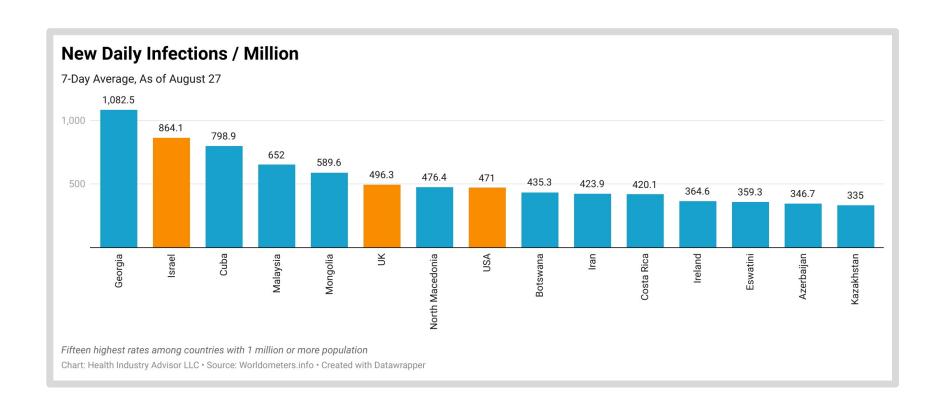






# Countries With the Highest Current Infection Rates Per Capita

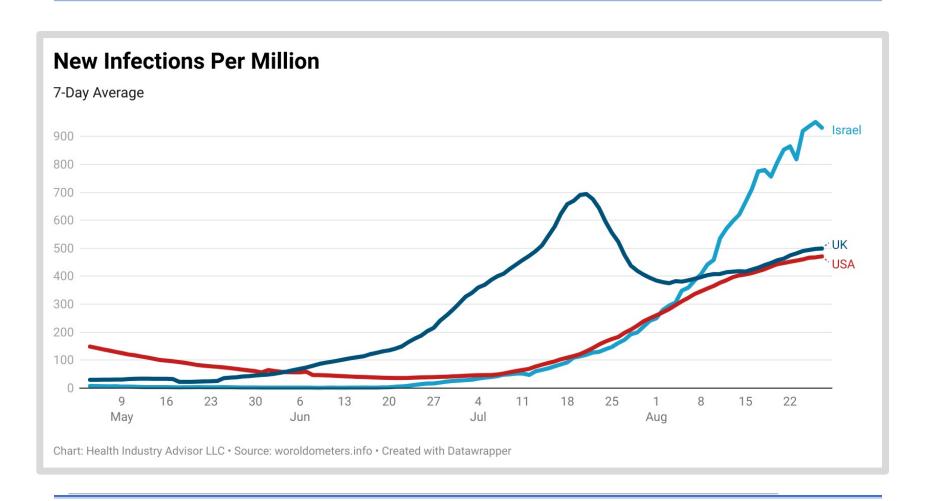
The United States ranks eighth in recent infection rates per capita, among countries with at least one million population. Israel and the United Kingdom rank second and sixth, respectively.





# Trends in New Infections, Hospitalizations and Deaths – United Kingdom

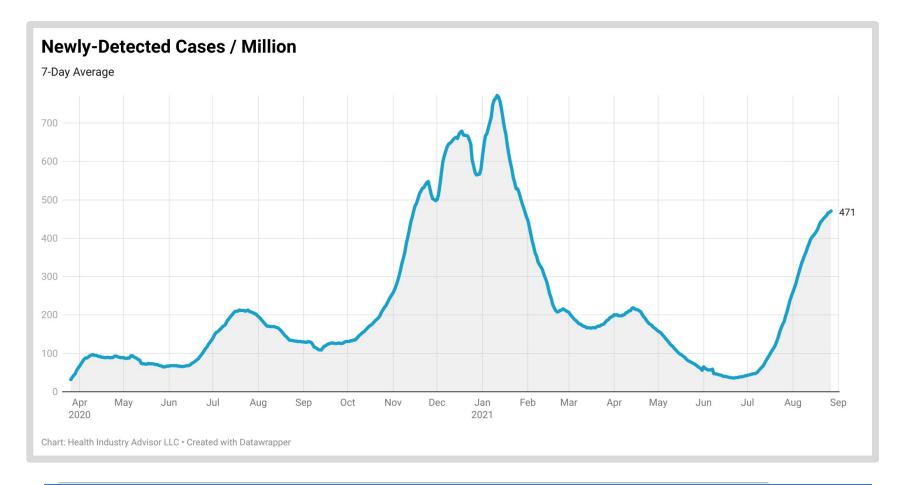
Infection rates are slowing in the United States and perhaps, United Kingdom. Israel's rate has been up and down recently.





# **Newly Detected Cases**

The infection rate in the United States reached 57% of its early-January peak – despite reasonably strong vaccination efforts.

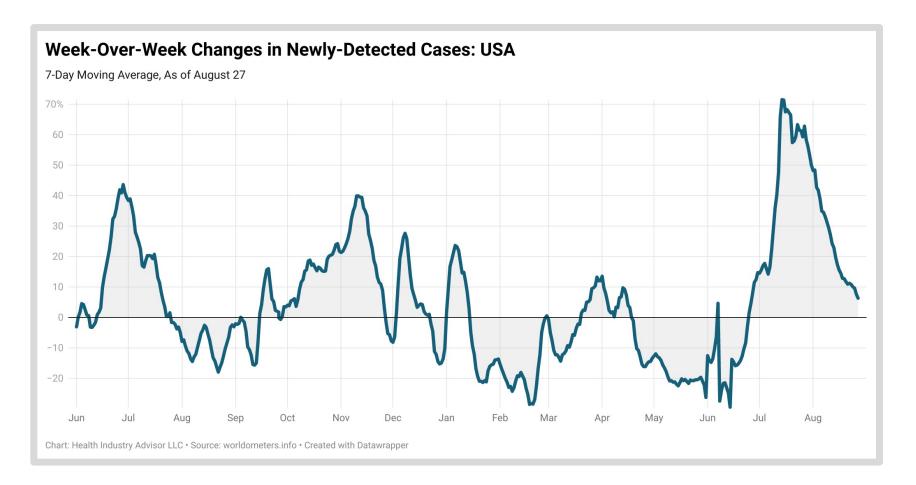






#### Weekly Change in Newly Detected Cases

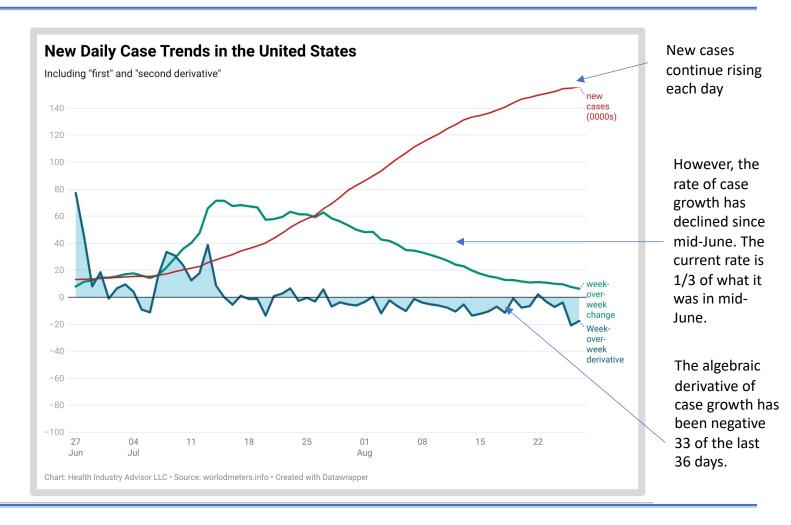
The rate of increase in new cases has slowed significantly for the past month.





#### **New Case Trends**

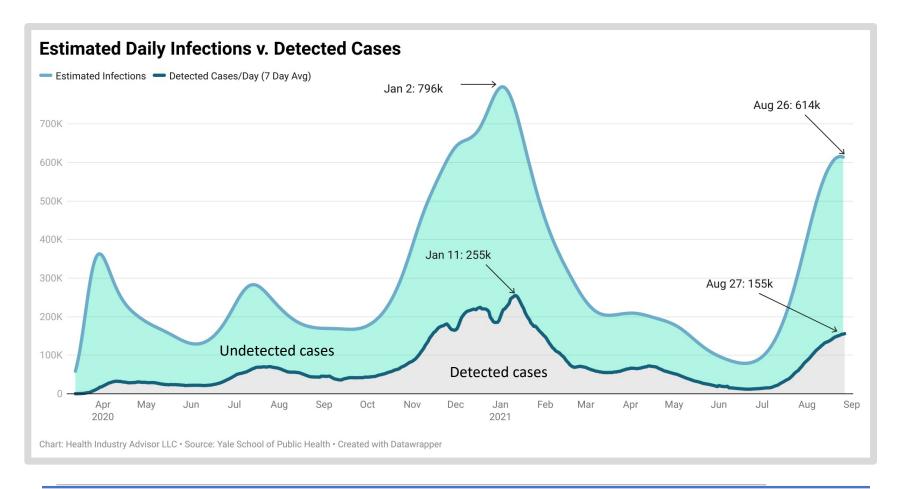
A closer inspection of new case trends suggest that case growth rate is slowing each day. Should this continue, new cases should begin to decline soon.





#### Estimated Daily Infections & New Case Rates

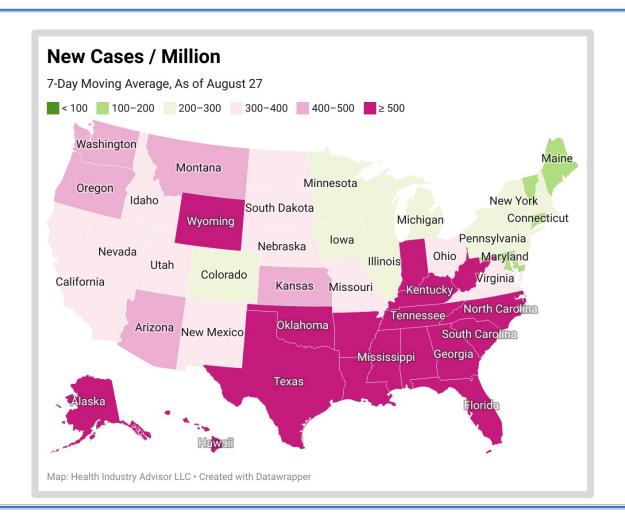
Estimated infections in the United States may have peaked last week, according to a model published by public health experts from Harvard, Stanford, and Yale.





#### New Cases per Capita By States

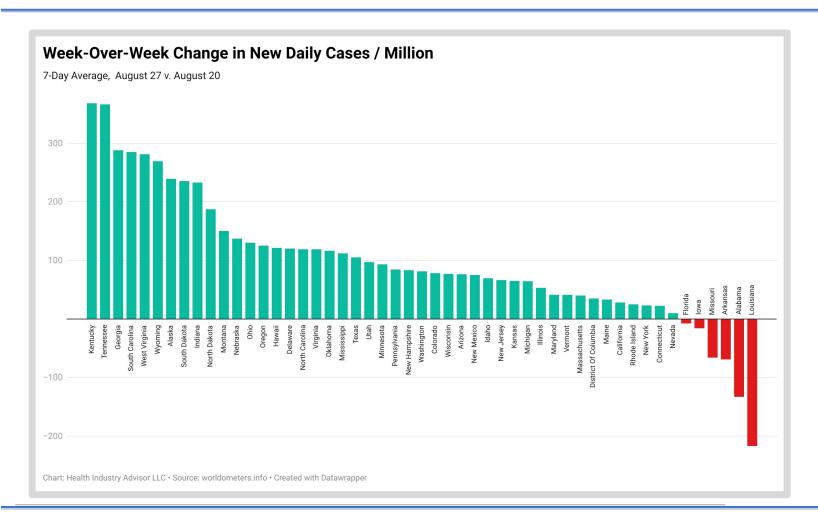
Fifteen states posted new cases rates of 500 per million population per day. Five additional states posted more than 400 new cases per million per day. Eleven others posted more than 300 new cases per million per day.





#### Weekly Change in New Cases Per Capita

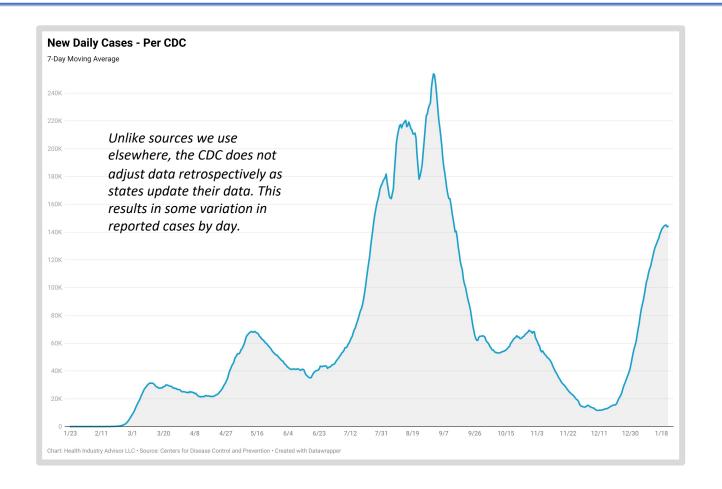
New case rates in hard-hit Alabama, Arkansas, Florida, and Louisiana were lower this week then a week ago. However, Kentucky, Tennessee led several states with large increases in new cases per capita compared to last week.





#### New Cases – Per CDC

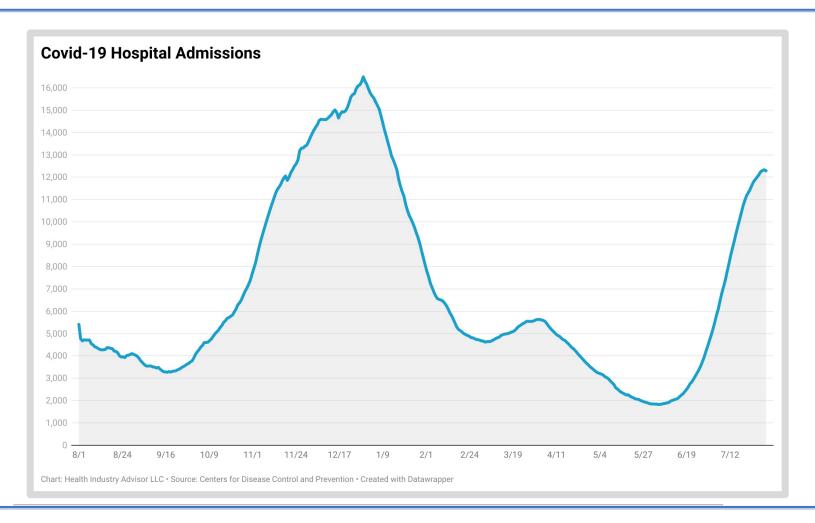
According to CDC-published data, the 7-day new cases have already plateaued or declined.





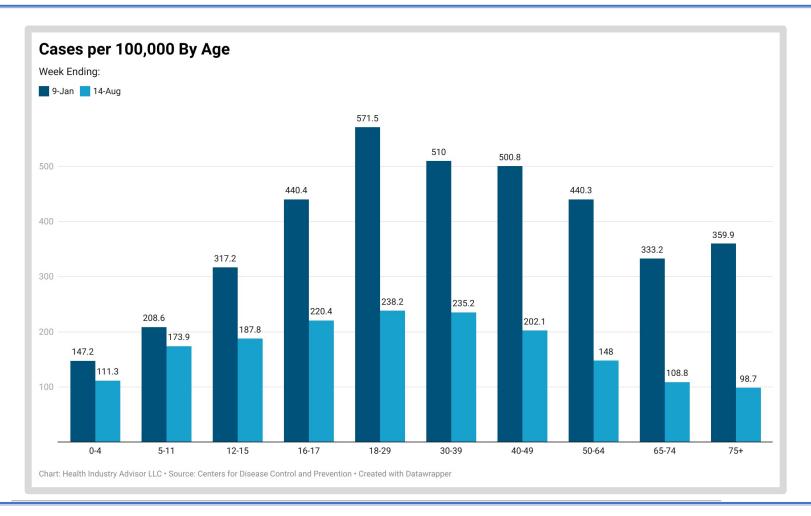
#### Covid Hospital Admissions – Per CDC

Covid admissions may have peaked nationwide.



#### Cases Per Capita By Age Group

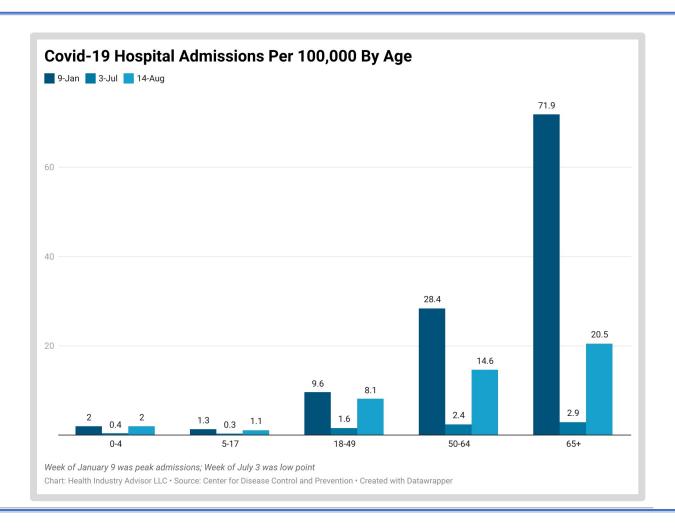
Infants and young school children now have slightly higher infection rates than senior citizens. Rates for both groups are lower than for most other age groups. Infection rates among seniors have dropped farther since January than they have for any other age group — likely because of strong vaccine participation.





#### Covid Hospital Admissions Per Capita By Age Group

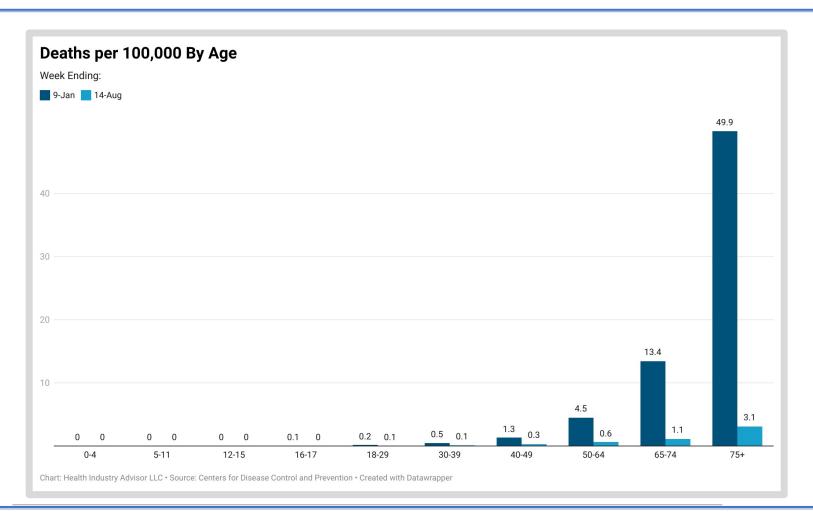
Hospital admission rates rise with age. However, admission rates among the elderly have dropped dramatically since the vaccine effort began.





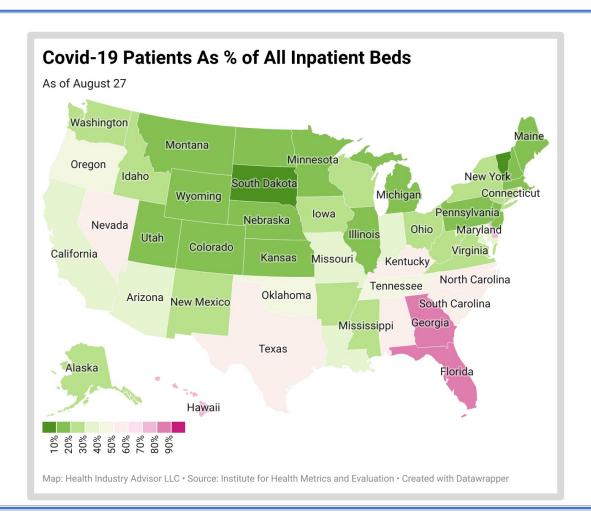
# Covid Deaths Per Capita By Age Group

Death rates rise also with age. Like hospital admissions, death rates among the elderly have dropped dramatically since the vaccine effort began.



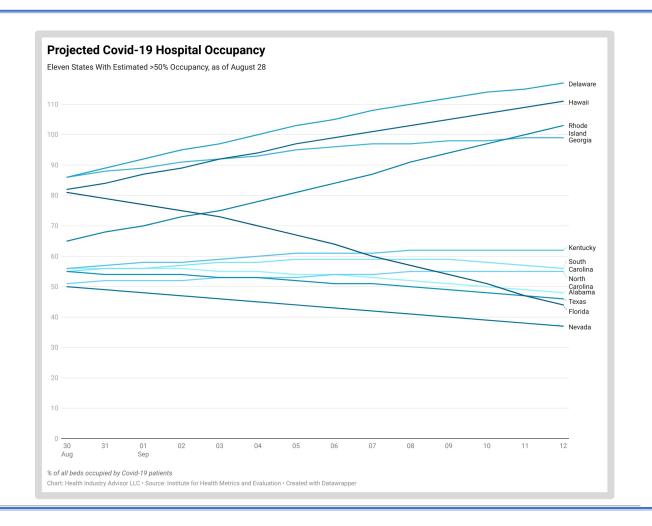
#### Covid Hospital Occupancy By State

Florida and Georgia hospitals are straining from Covid patients. More than four of every five hospital beds in these states are in use treating Covid patients. Half or more of all beds in Alabama, Delaware, Hawaii, Kentucky, Nevada, North Carolina, Rhode Island, South Carolina, and Texas are occupied by Covid patients



## Projected Covid Hospital Occupancy By State

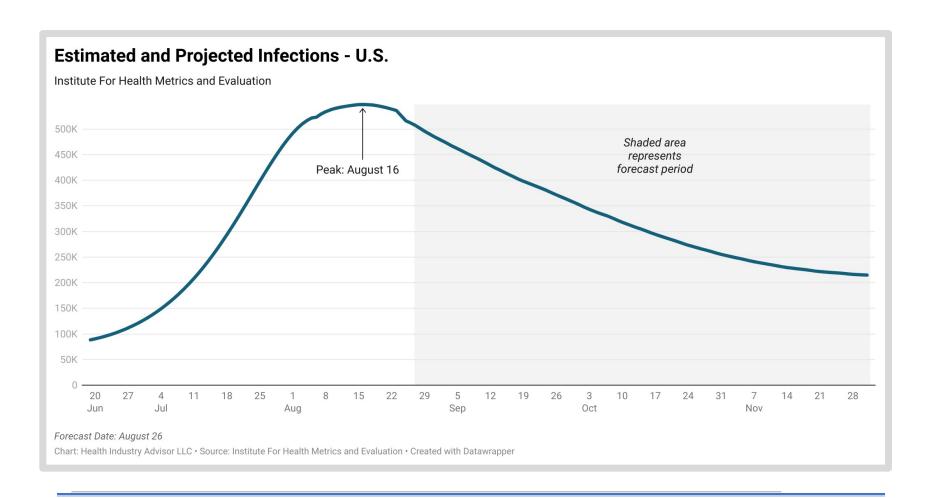
The strain on hospitals in Delaware, Georgia, Hawaii, and Rhode Island may worsen in the next few weeks, according to the latest modeling from IHME. However, Florida hospitals may get significant relief soon.





## **Estimated Infections- IHME Projections**

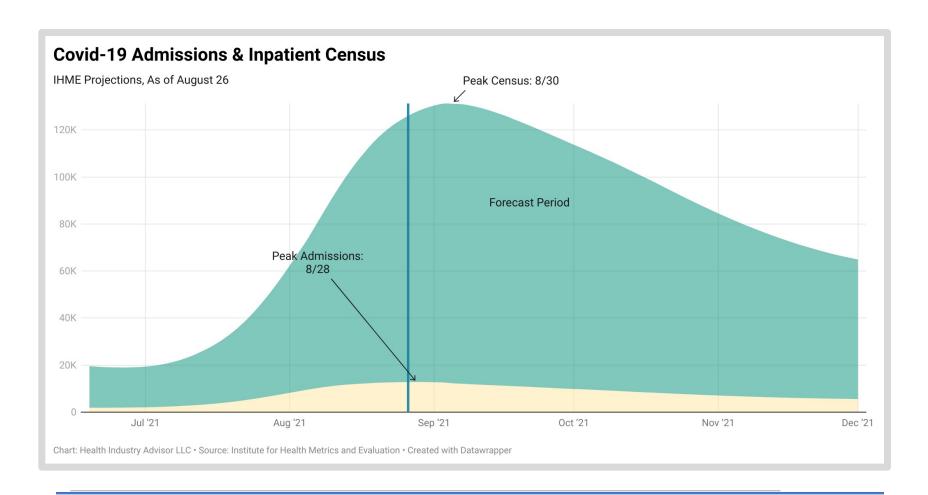
IHME's latest mode reaffirms its view that new infections in the United States peaked about two weeks ago.





## Covid-19 Inpatient Admissions & Census – IHME Projections

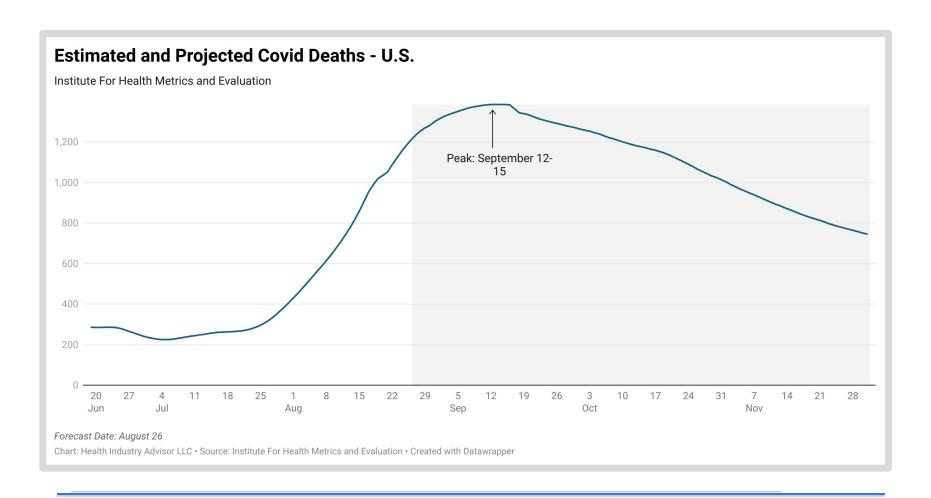
IHME predicts that Covid hospital admissions peaked over the weekend. Hospital occupancy could peak today.





# Deaths With Covid-19: IHME Projection

IHME anticipates deaths will rise until September 12, stabilize for four days then decline through at least November.





# Sources

The following data sources are accessed on a daily or weekly basis

- U.S. Department of Health & Human Services: <a href="https://healthdata.gov/dataset/covid-19-estimated-patient-impact-and-hospital-capacity-state">https://healthdata.gov/dataset/covid-19-estimated-patient-impact-and-hospital-capacity-state</a>
- U.S. Department of Health & Human Services https://beta.healthdata.gov/dataset/COVID-19-Diagnostic-Laboratory-Testing-PCR-Testing/j8mb-icvb
- Worldometers.info: https://www.worldometers.info/coronavirus/
- Centers for Disease Control and Prevention, National, Regional, and State Level Outpatient Illness and Viral Surveillance <a href="https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html">https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html</a>
- Centers for Disease Control and Prevention, COVID-19 Laboratory-Confirmed Hospitalizations https://gis.cdc.gov/grasp/COVIDNet/COVID19 5.html
- Centers for Disease Control and Prevention, COVID Data Tracker <a href="https://www.cdc.gov/covid-data-tracker/index.html#mobility">https://www.cdc.gov/covid-data-tracker/index.html#mobility</a>
- Centers for Disease Control and Prevention, Vaccines, <a href="https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html">https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html</a>
- Institute for Health Metrics and Evaluation, COVID-19 estimate downloads <a href="http://www.healthdata.org/covid/data-downloads">http://www.healthdata.org/covid/data-downloads</a>
- New York Times, Covid-19 data <a href="https://github.com/nytimes/covid-19-data">https://github.com/nytimes/covid-19-data</a>
- COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University <a href="https://github.com/CSSEGISandData/COVID-19">https://github.com/CSSEGISandData/COVID-19</a>
- COVID-19 Projections Using Machine Learning, <a href="https://covid19-projections.com">https://covid19-projections.com</a>
- Our World In Data, <a href="https://ourworldindata.org/covid-vaccinations">https://ourworldindata.org/covid-vaccinations</a>
- Covid-19 Forecast Hub, <a href="https://viz.covid19forecasthub.org">https://viz.covid19forecasthub.org</a>
- Yale School of Public Health & Harvard TH Chan School of Public Health, <a href="https://covidestim.org">https://covidestim.org</a>
- Bloomberg Vaccine Trackers, https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/?sref=Z0b6TmH

