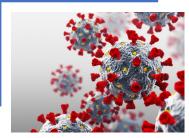


"Strategic Advice in an Era of Unprecedented Change"









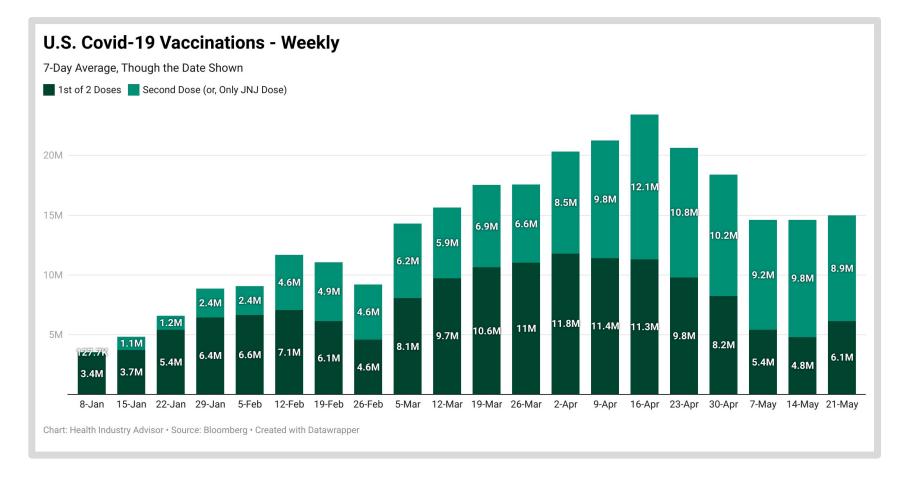
Covid-19 "Vital Signs"

Issue # 337 May 22, 2021



Vaccination Status - US

First dose vaccines increased last week, breaking a six-week string of declining doses. reached an eighteen-week low last week. However, there were fewer second doses (or, sole JNJ doses) than last week. Total doses increased slightly week-over-week.

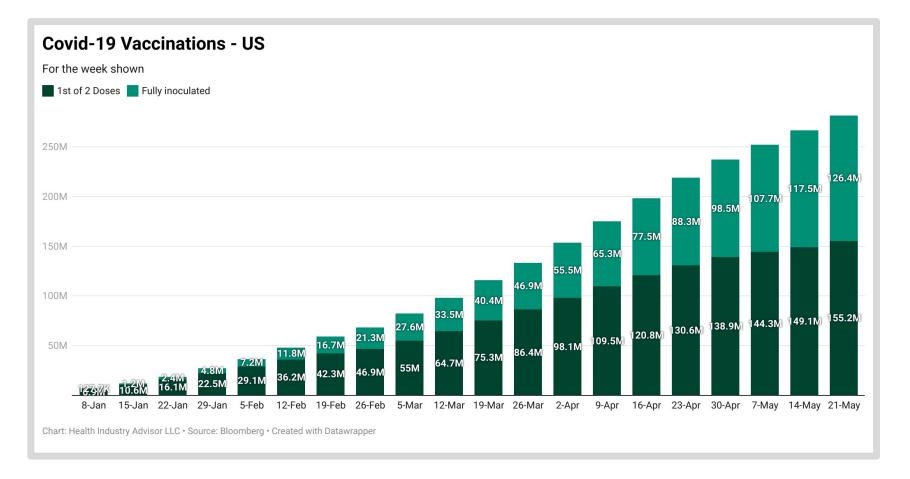






Vaccination Status - US

Vaccinations reached 282 million to-date. 61% of adults have received at least one dose and 49% are fully vaccinated. Among senior citizens, 85% have received at least one dose and nearly 74% are fully inoculated.

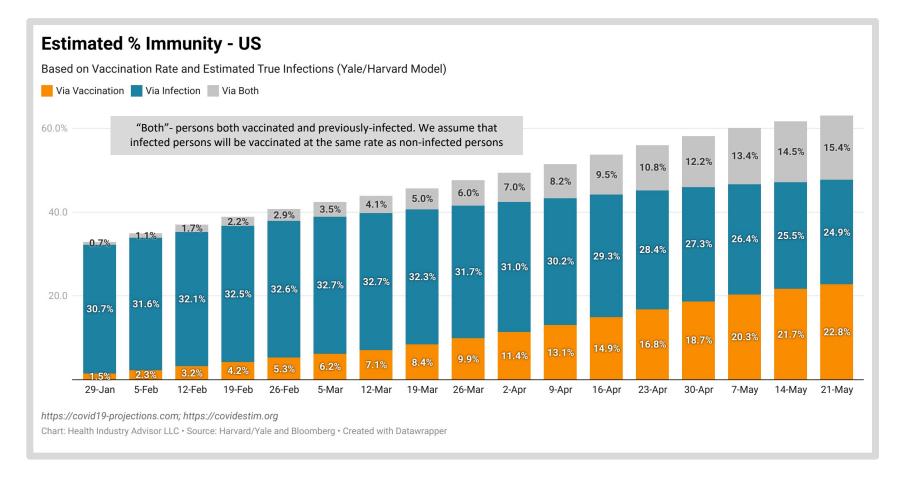






Estimated Immunity Status - US

Estimated immunity reached 63% of the US population. Two-thirds is attributed to vaccination, including those immune via both vaccination and a prior infection.

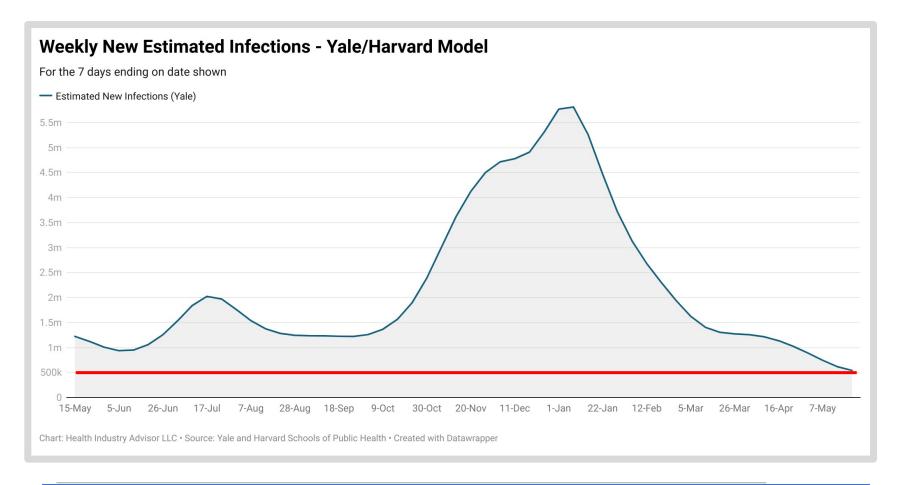






Estimated Actual Infections – Harvard/Stanford/Yale Model

Estimated infections for the nineteenth straight week. The United States saw fewer estimated new infections last week than at any time since March 6-12, 2020.

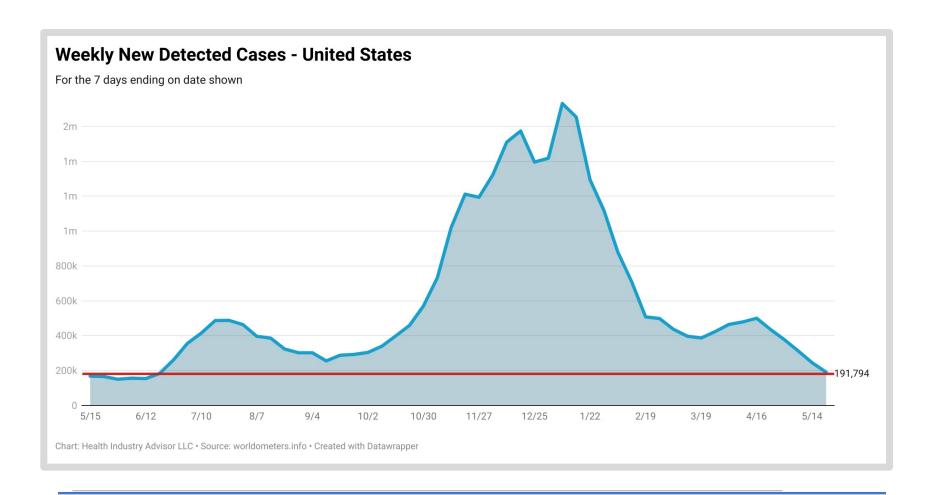






Detected Cases By Week

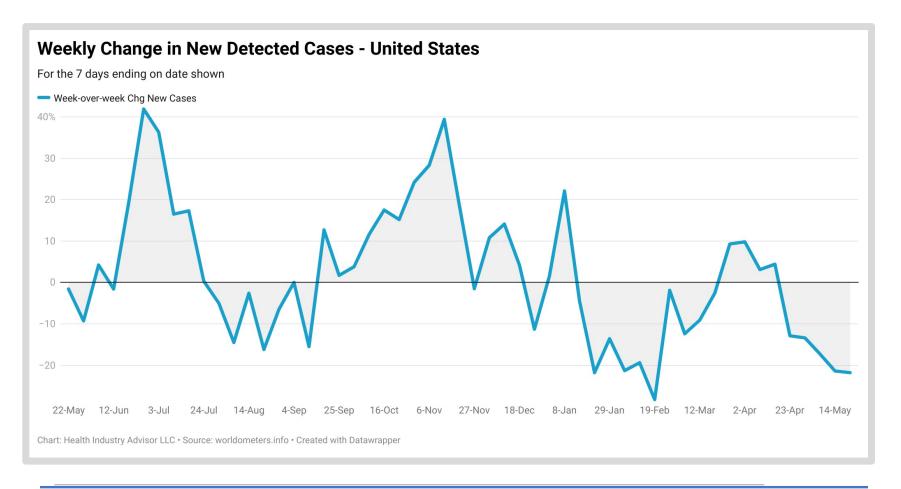
Detected cases fell sharply again this week, reaching its lowest level in forty-eight weeks.



Covid-19 "Vital Signs"

Weekly Change in Newly Detected Cases

The number of new cases fell sharply for the fifth straight week. The rate of decline has increased each of these five weeks. New cases declined this week by 22%.

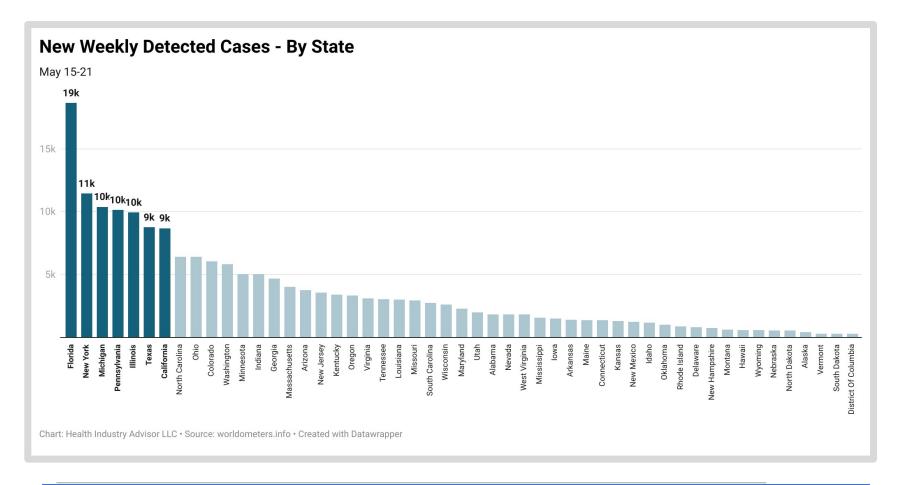






Newly Detected Cases - By State

41% of all new cases in the past week were detected in just seven states: California, Florida, Illinois, Michigan, New York, Pennsylvania, and Texas.

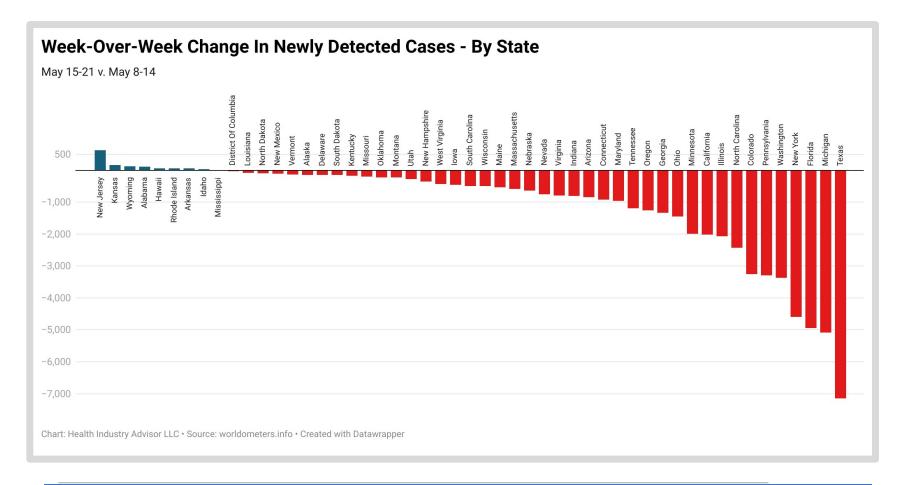






Week-Over-Week Change in Newly Detected Cases

New cases dropped week-over-week in most states. Texas saw 1,000 fewer cases per day than one week ago.

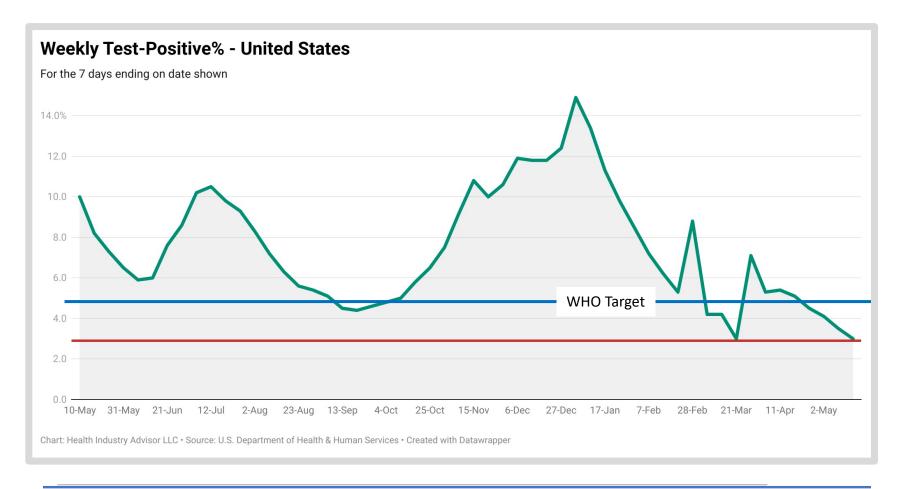






Covid-19 Testing

The rate of positive Covid-19 tests declined for the fifth straight week. This week's rate matched a pandemic low.

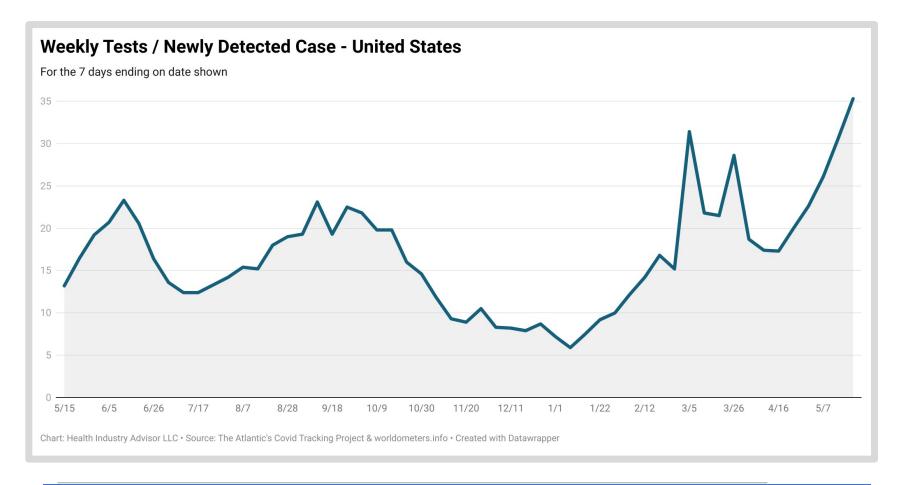






Test Efficiency: Tests Per Case Detected

Test efficiency soared last week, establishing a pandemic high.

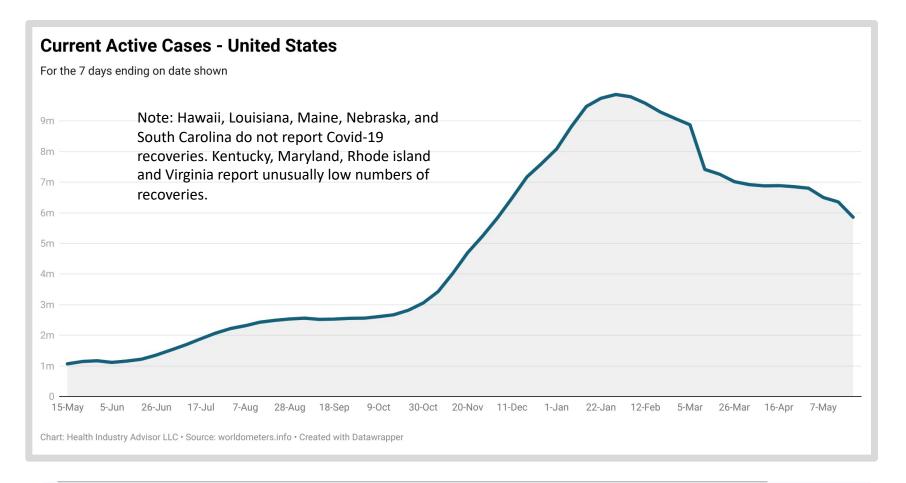






Active Cases

The number of Active Cases declined to the lowest point in twenty-four weeks.

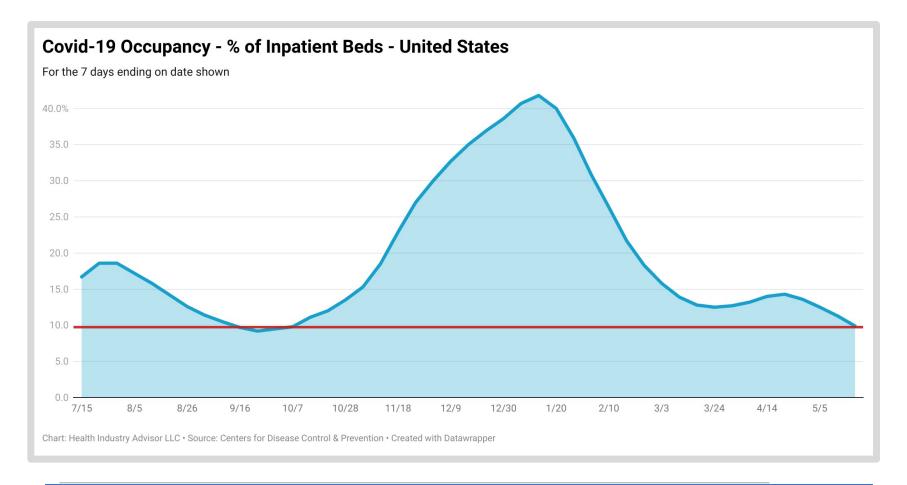






Covid-19 Hospital Occupancy

Covid-19 occupancy dropped last week to its lowest point in thirty-two weeks.

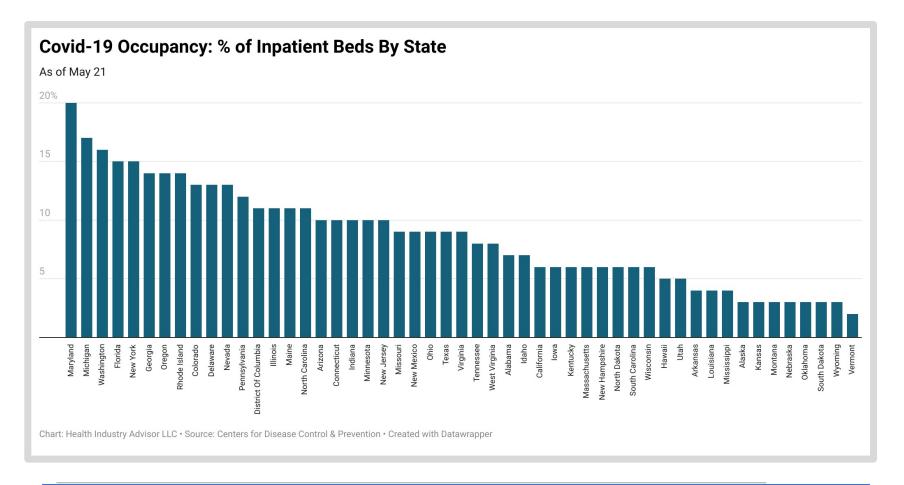






Covid-19 Hospital Occupancy

Maryland is the only state where Covid-19 patients occupy one in every five inpatient beds.

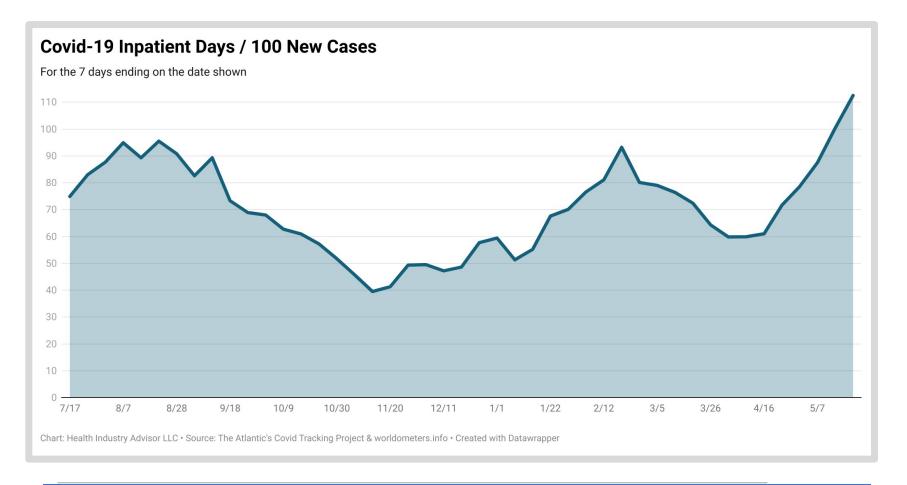






Covid-19 Patient Days / 100 New Cases

Hospitalization rates jumped week-over-week, likely due to patient stays from earlier infections and declining new cases.

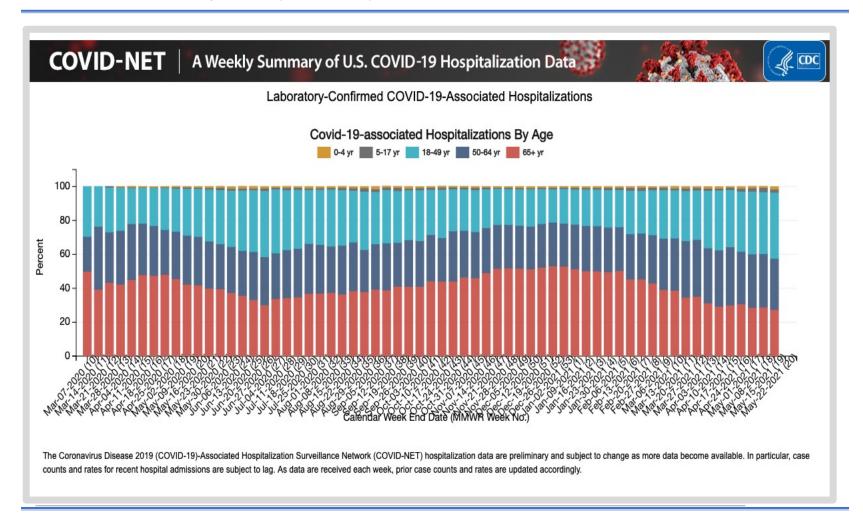




Covid-19 "Vital Signs"

Covid-19 Hospitalizations By Age

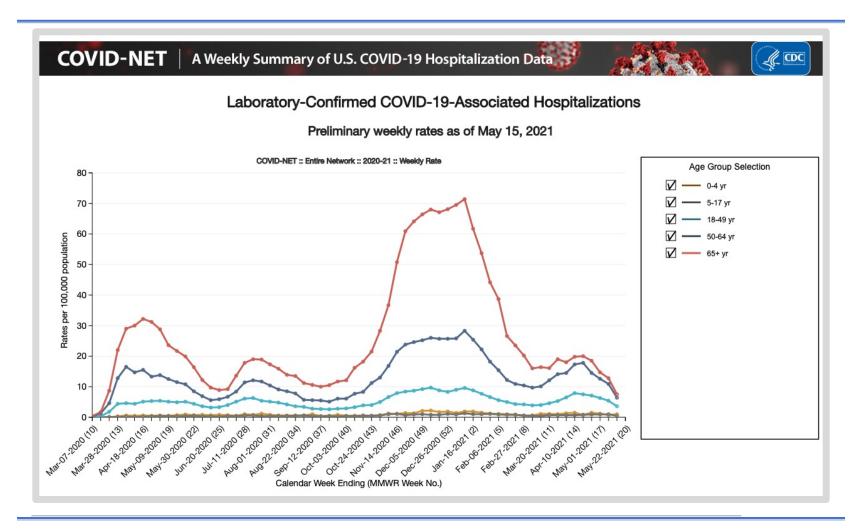
Since the beginning of the year, the mix of Covid-19 patients has shifted younger. A Covid-19 patient is twice as likely now to be 18-to-49 years old; half as likely to be 65 years or older.



Covid-19 "Vital Signs"

Covid-19 Hospitalizations Per Capita By Age

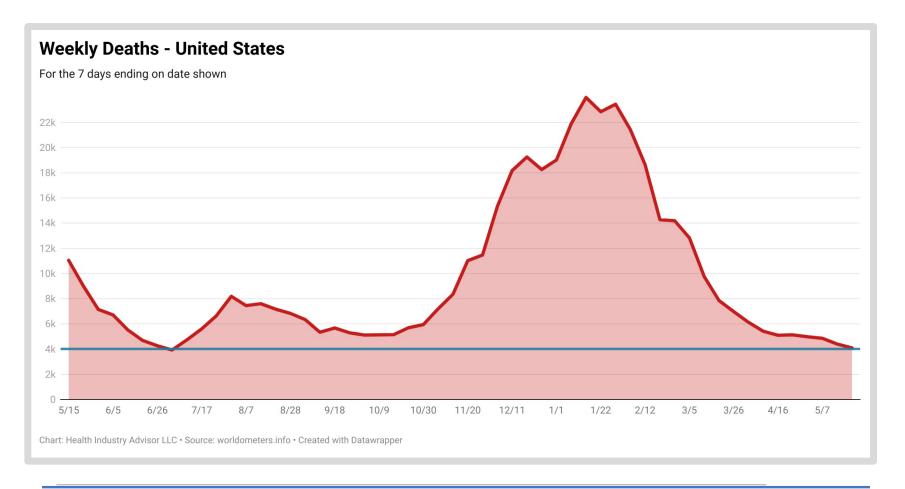
Covid-19 hospitalizations per capita have fallen across all age groups. The decline has been most pronounced among senior citizens.





Deaths With Coronavirus

The weekly death rate is lower than all except one week (June 27-July 3) in the past year.







Sources

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

- U.S. Department of Health & Human Services: https://healthdata.gov/dataset/covid-19-estimated-patient-impact-and-hospital-capacity-state
- 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 https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html
- 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 https://www.cdc.gov/covid-data-tracker/index.html#mobility
- Centers for Disease Control and Prevention, Vaccines, https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html
- Institute for Health Metrics and Evaluation, COVID-19 estimate downloads http://www.healthdata.org/covid/data-downloads
- New York Times, Covid-19 data https://github.com/nytimes/covid-19-data
- COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University https://github.com/CSSEGISandData/COVID-19
- COVID-19 Projections Using Machine Learning, https://covid19-projections.com
- Our World In Data, https://ourworldindata.org/covid-vaccinations
- Covid-19 Forecast Hub, https://viz.covid19forecasthub.org
- Yale School of Public Health & Harvard TH Chan School of Public Health, https://covidestim.org
- Bloomberg Vaccine Trackers, https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/?sref=Z0b6TmH

