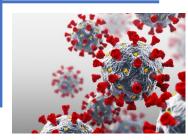


#### "Strategic Advice in an Era of Unprecedented Change"









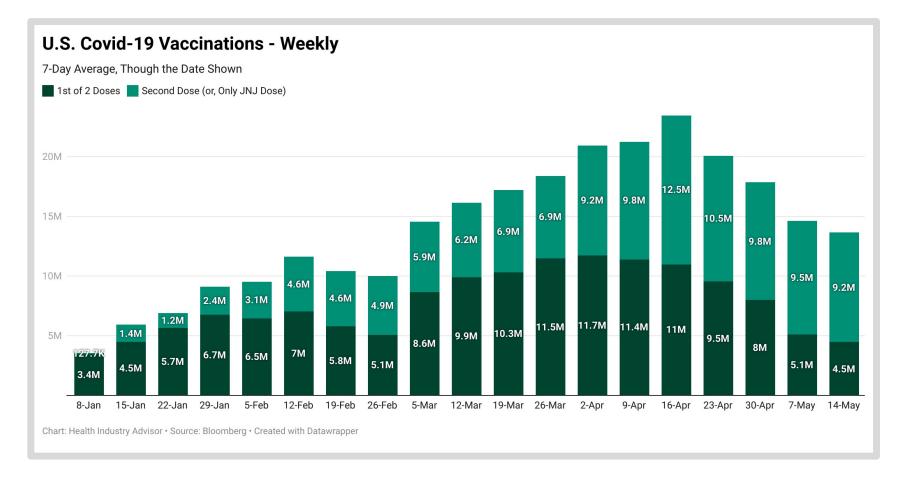
Covid-19 "Vital Signs"

Issue # 334 May 15, 2021



#### Vaccination Status - US

First dose vaccines reached an eighteen-week low last week. Second doses (or, sole JNJ doses) dropped to a seven-week low. Total doses fell to an eleven-week low.

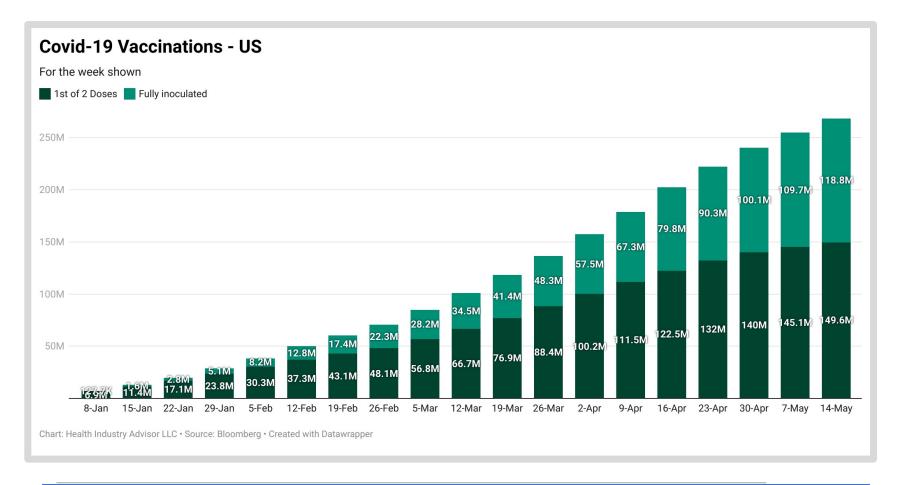






#### Vaccination Status - US

Vaccinations reached 268 million to-date. 59% of adults have received at least one dose and 49% are fully vaccinated. Among senior citizens, 84% have received at least one dose and nearly 72% are fully inoculated.

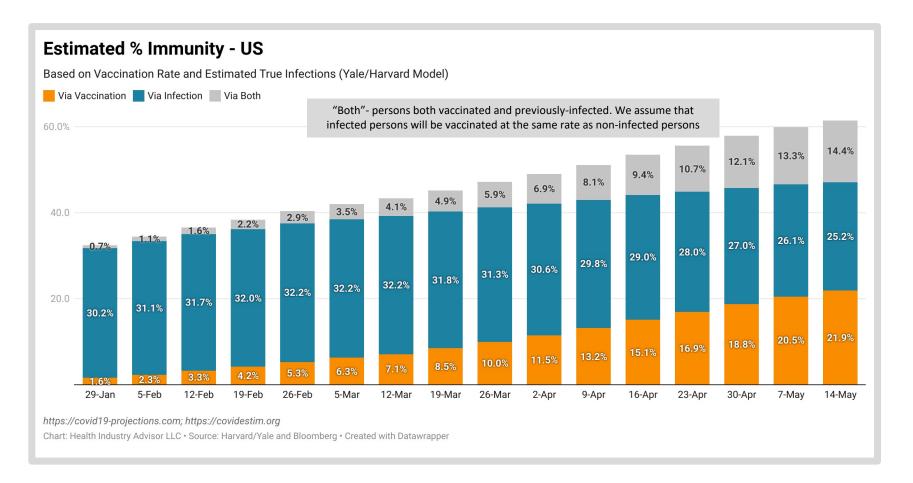






### **Estimated Immunity Status - US**

Estimated immunity reached 62% of the US population. More than half is attributed to vaccination, including those immune via both vaccination and a prior infection.

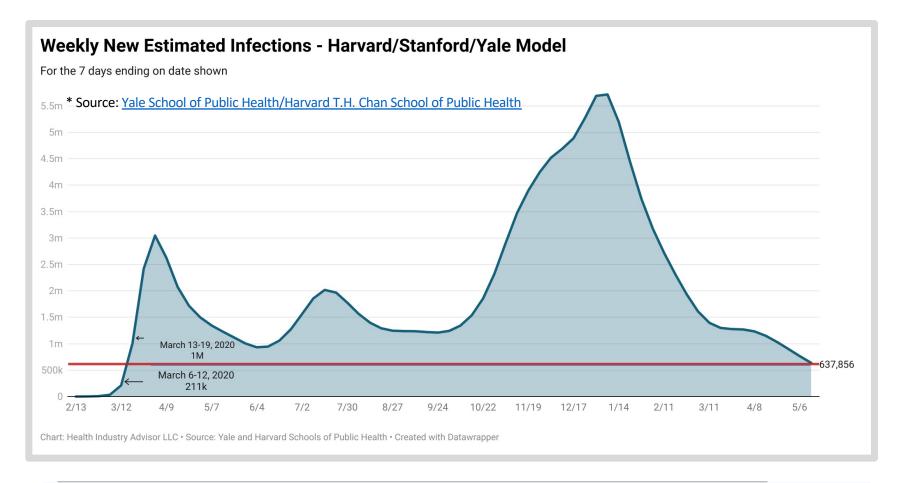






#### Estimated Actual Infections – Harvard/Stanford/Yale Model

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

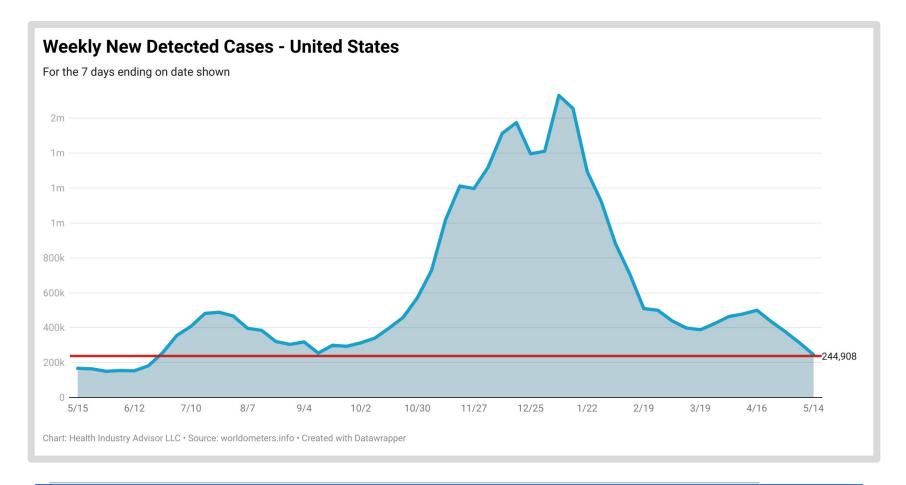






### **Newly Detected Cases**

New cases declined last week, falling to the lowest point in forty-seven weeks.

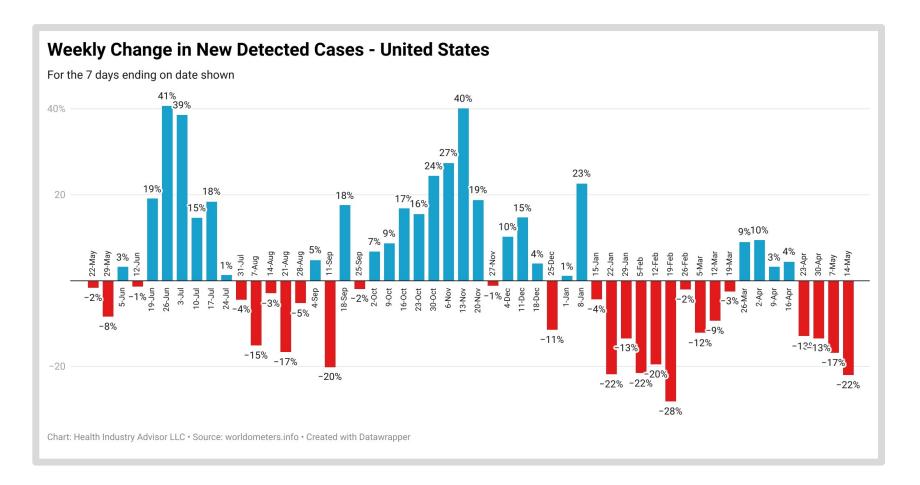






### Weekly Change in Newly Detected Cases

The number of new cases fell sharply for the fourth straight week.

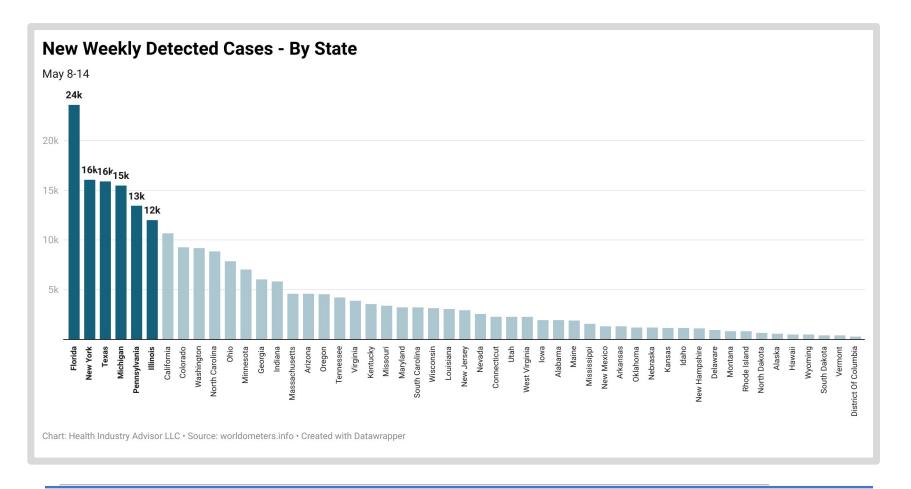






## Newly Detected Cases - By State

40% of all new cases in the past week were detected in just six states: Florida, Illinois, Michigan, New York, Pennsylvania, and Texas.

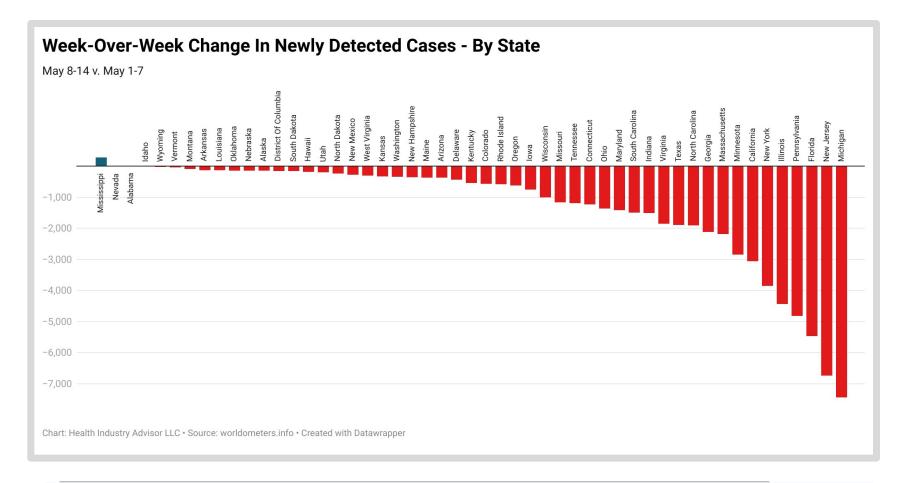






## Week-Over-Week Change in Newly Detected Cases

New cases dropped week-over-week in all states except Alabama, Mississippi, ad Nevada. These states saw minor week-over-week increases. Michigan saw 1,000 fewer cases per day than one week ago.

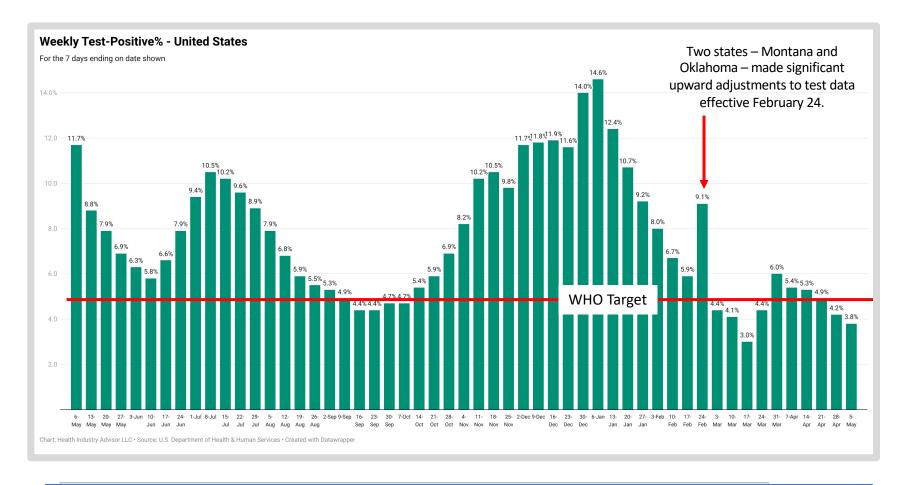






## Covid-19 Testing

The rate of positive Covid-19 tests reached a pandemic low.

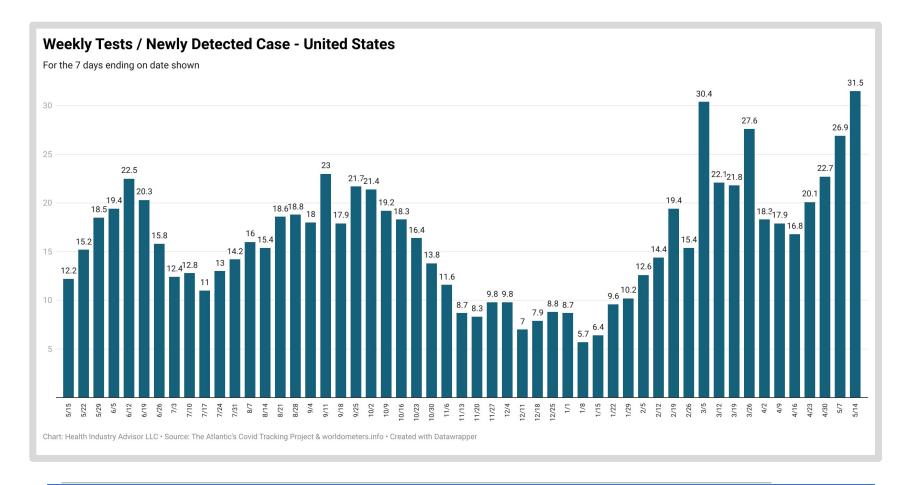




Covid-19 "Vital Signs"

## Test Efficiency: Tests Per Case Detected

Test efficiency reached a pandemic high.

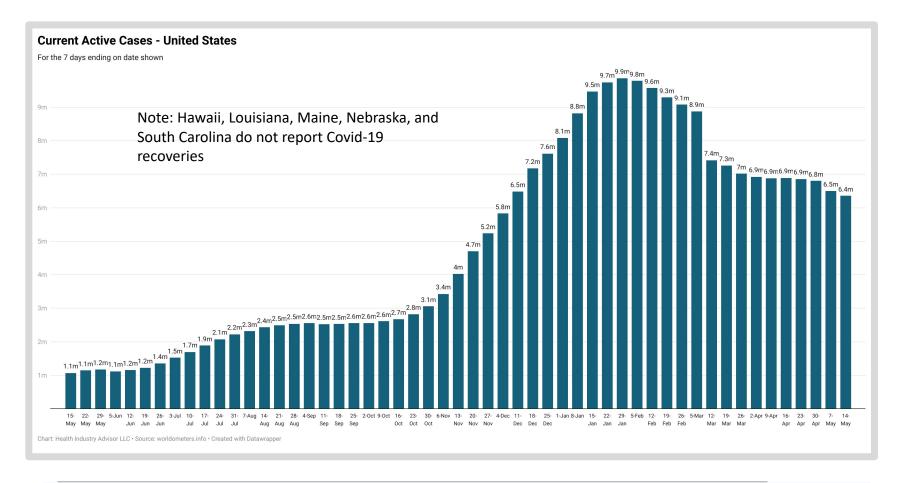






#### **Active Cases**

The number of Active Cases declined to the lowest point in five-and-one-half months.

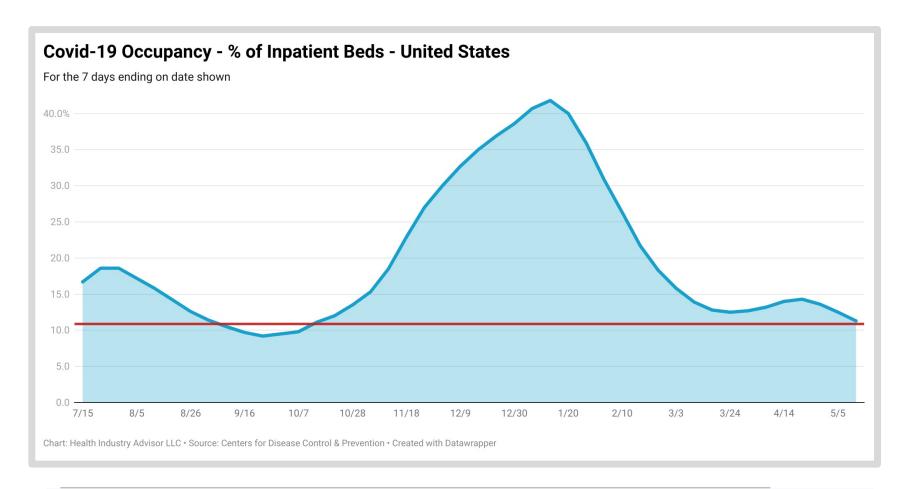






## Covid-19 Hospital Occupancy

Covid-19 occupancy dropped last week to its lowest point in six months.

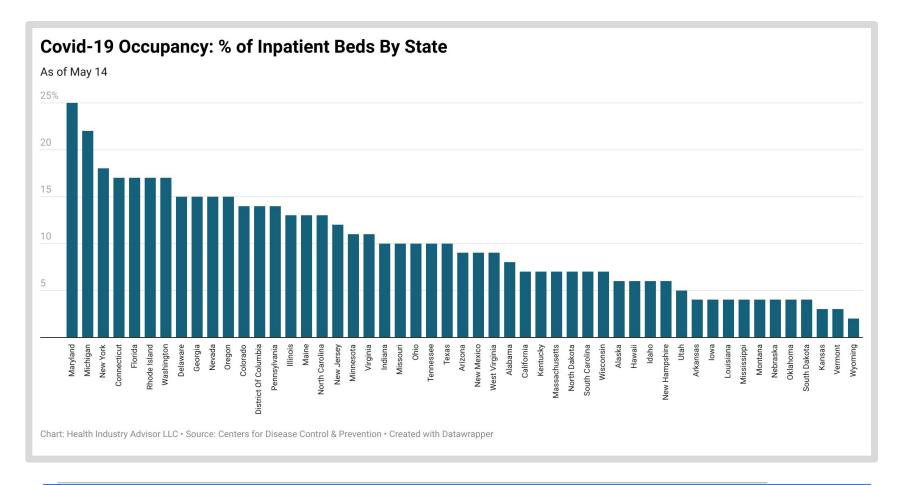




## Covid-19 Hospital Occupancy



Maryland and Michigan are the only states where Covid-19 patients occupy one in every five inpatient beds.

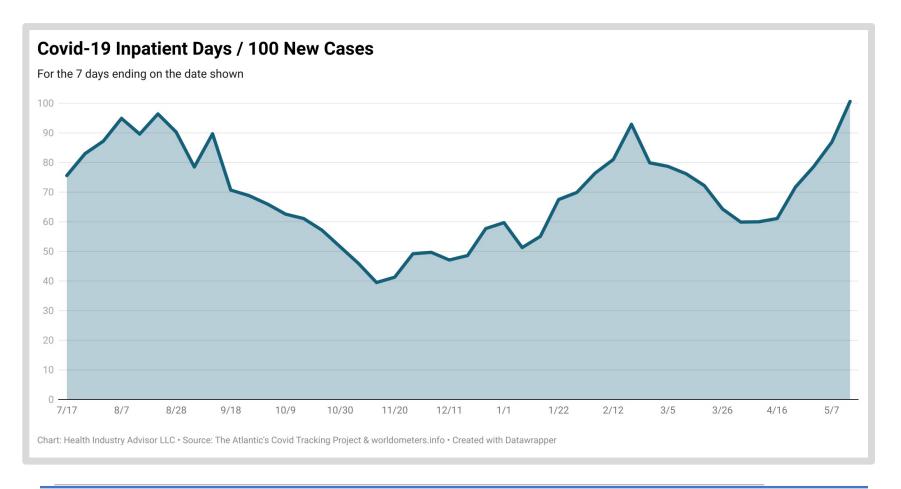






## Covid-19 Patient Days / 100 New Cases

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

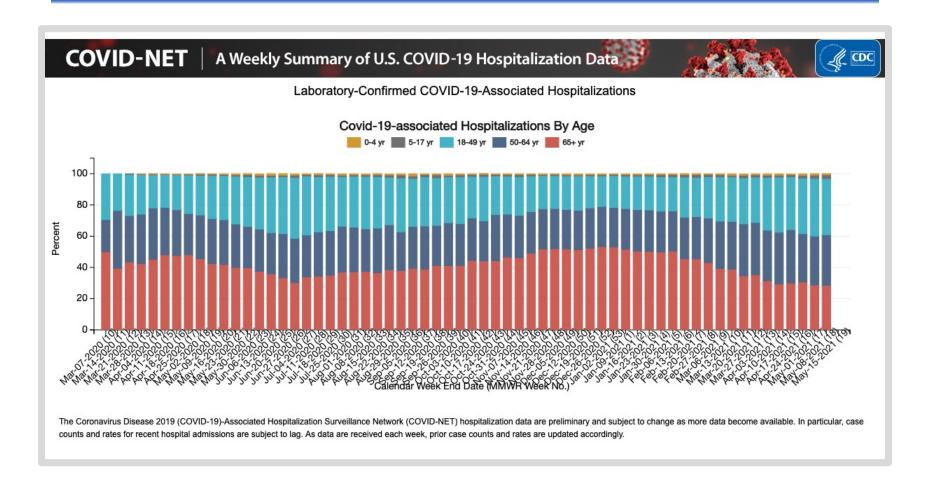




Covid-19 "Vital Signs"

# Covid-19 Hospitalizations By Age

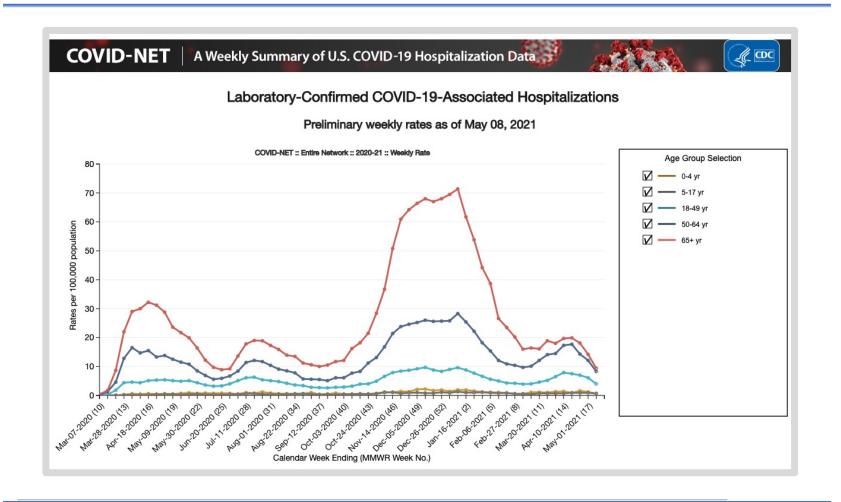
Hospitalized Covid-19 patients have shifted younger since the beginning of the year, particularly to 18–49-year-olds. Responding to vaccinations efforts, the mix of senior citizens has fallen sharply.



Covid-19 "Vital Signs"

# Covid-19 Hospitalizations Per Capita By Age

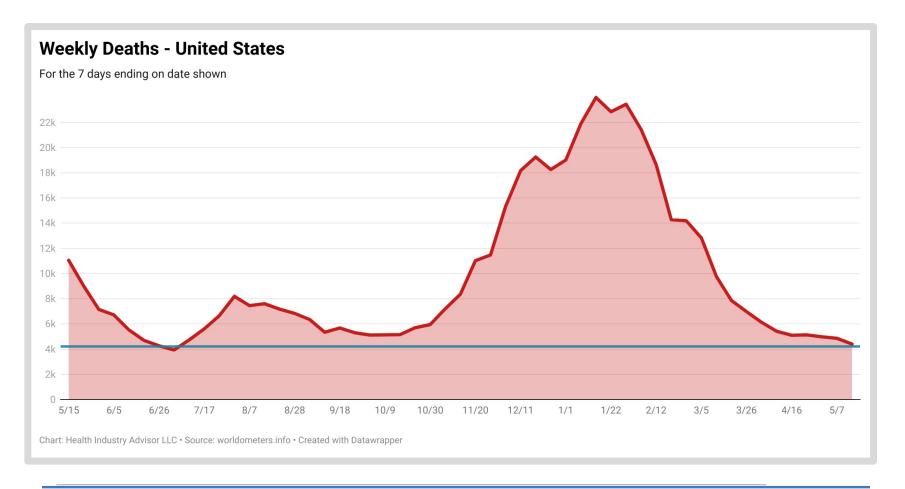
Covid-19 hospitalizations per capita have fallen across all age groups. The decline has been most notable among senior citizens.





#### **Deaths With Coronavirus**

The weekly death rate is lower than all except two weeks in the past year.







#### 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 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, <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

