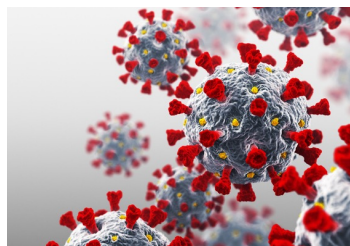


Covid-19 "Vital Signs"

Issue # 340

May 29, 2021



Vaccination Status - US

Fewer people received a vaccination last week than any week since the end of February.

U.S. Covid-19 Vaccinations - Weekly

7-Day Average, Though the Date Shown

■ 1st of 2 Doses ■ Second Dose (or, Only JNJ Dose)

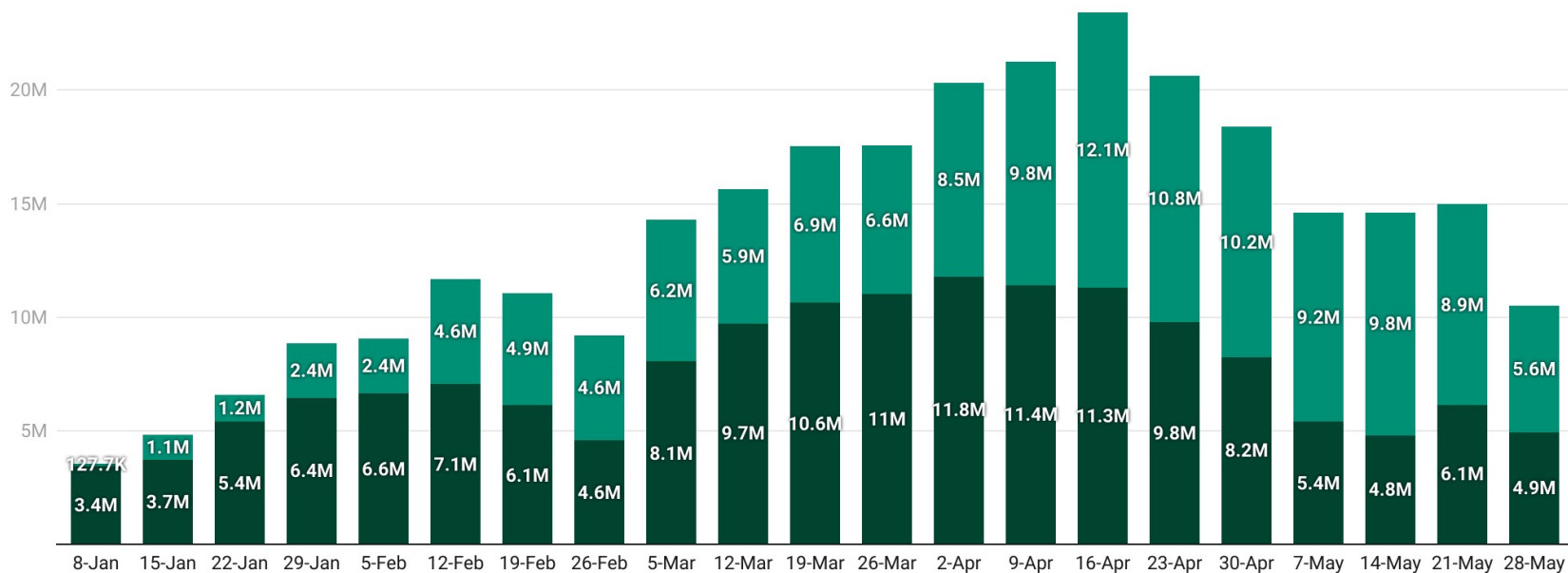


Chart: Health Industry Advisor • Source: Bloomberg • Created with Datawrapper

Covid-19 "Vital Signs"

Vaccination Status - US

Vaccinations reached 292 million to-date. 62% of adults have received at least one dose and 51% are fully vaccinated. Among all eligible persons, 59% have received at least one dose and nearly 48% are fully inoculated.

Covid-19 Vaccinations - US

For the week shown

■ 1st of 2 Doses ■ Fully inoculated

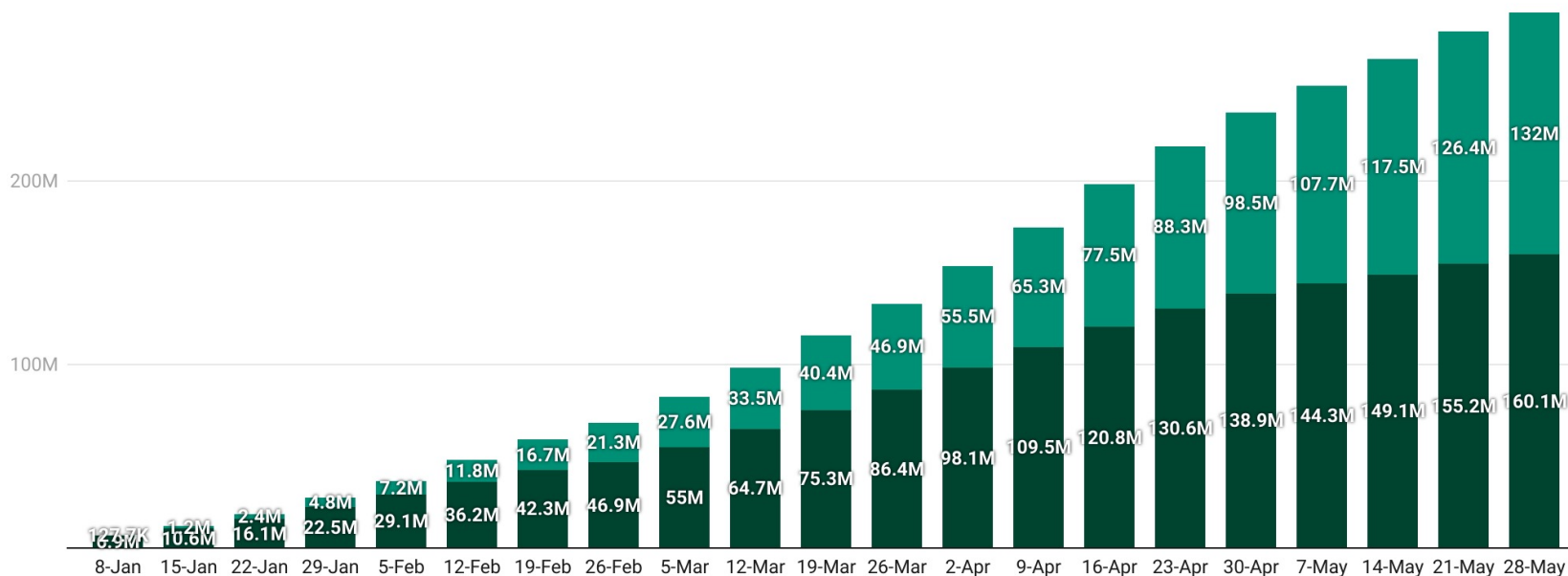


Chart: Health Industry Advisor LLC • Source: Bloomberg • Created with Datawrapper

Covid-19 "Vital Signs"

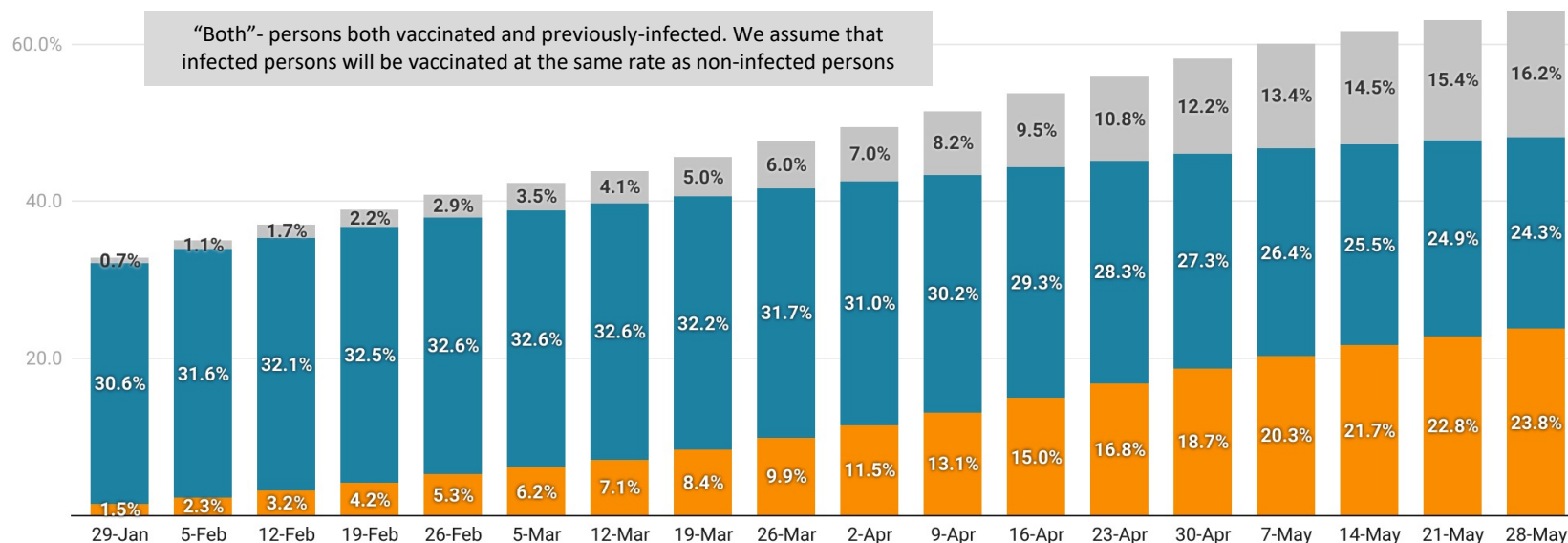
Estimated Immunity Status - US

Estimated immunity reached 64% of the US population. 40% of the population is immune due to vaccination, including those immune via both vaccination and a prior infection.

Estimated % Immunity - US

Based on Vaccination Rate and Estimated True Infections (Yale/Harvard Model)

■ Via Vaccination ■ Via Infection ■ Via Both



<https://covid19-projections.com/>; <https://covidestim.org>

Chart: Health Industry Advisor LLC • Source: Harvard/Yale and Bloomberg • Created with Datawrapper

Covid-19 "Vital Signs"

Estimated Actual Infections – Harvard/Stanford/Yale Model

Estimated infections increase last week, breaking a nineteen-week-long decline. Yet, fewer people were infected each of the last two weeks than any week since March 2020.

Weekly New Estimated Infections - Yale/Harvard Model

For the 7 days ending on date shown

— Estimated New Infections (Yale)

* Source: [Yale School of Public Health/Harvard T.H. Chan School of Public Health](#)

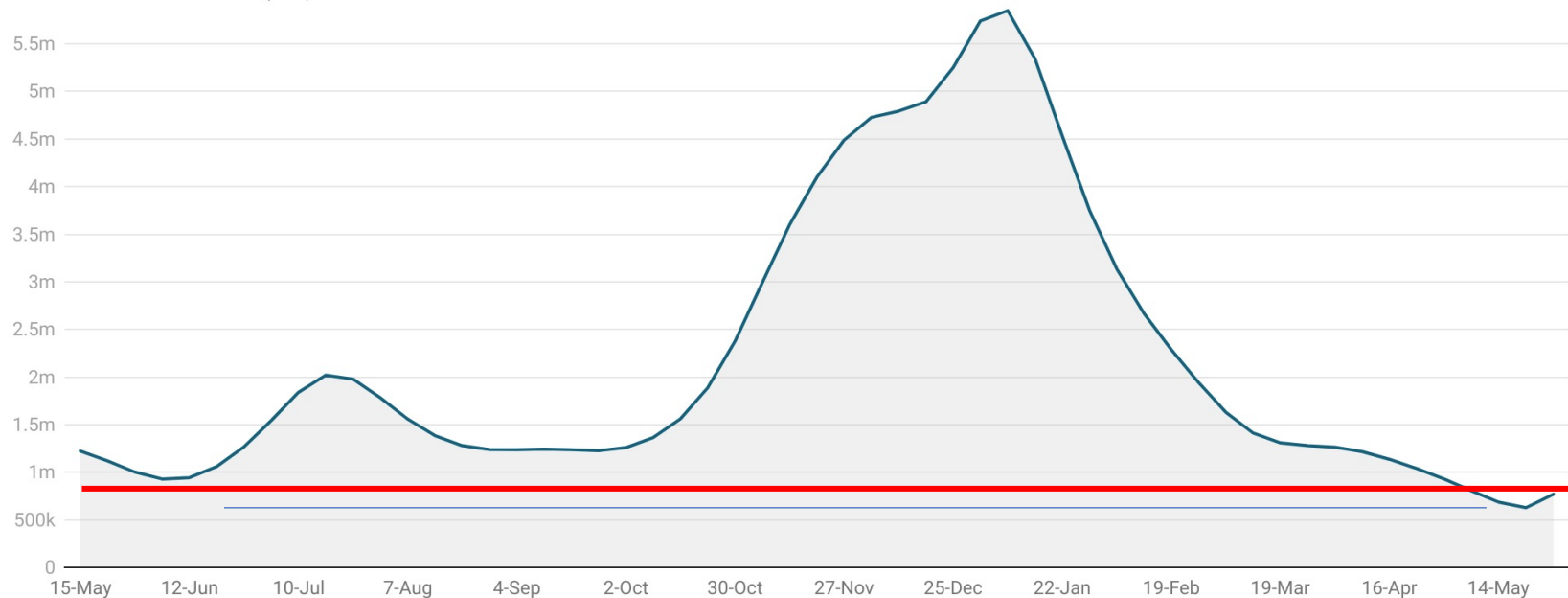


Chart: Health Industry Advisor LLC • Source: Yale and Harvard Schools of Public Health • Created with Datawrapper



Detected Cases By Week

Detected cases fell sharply again this week, reaching its lowest level in more than a year.

Weekly New Detected Cases - United States

For the 7 days ending on date shown

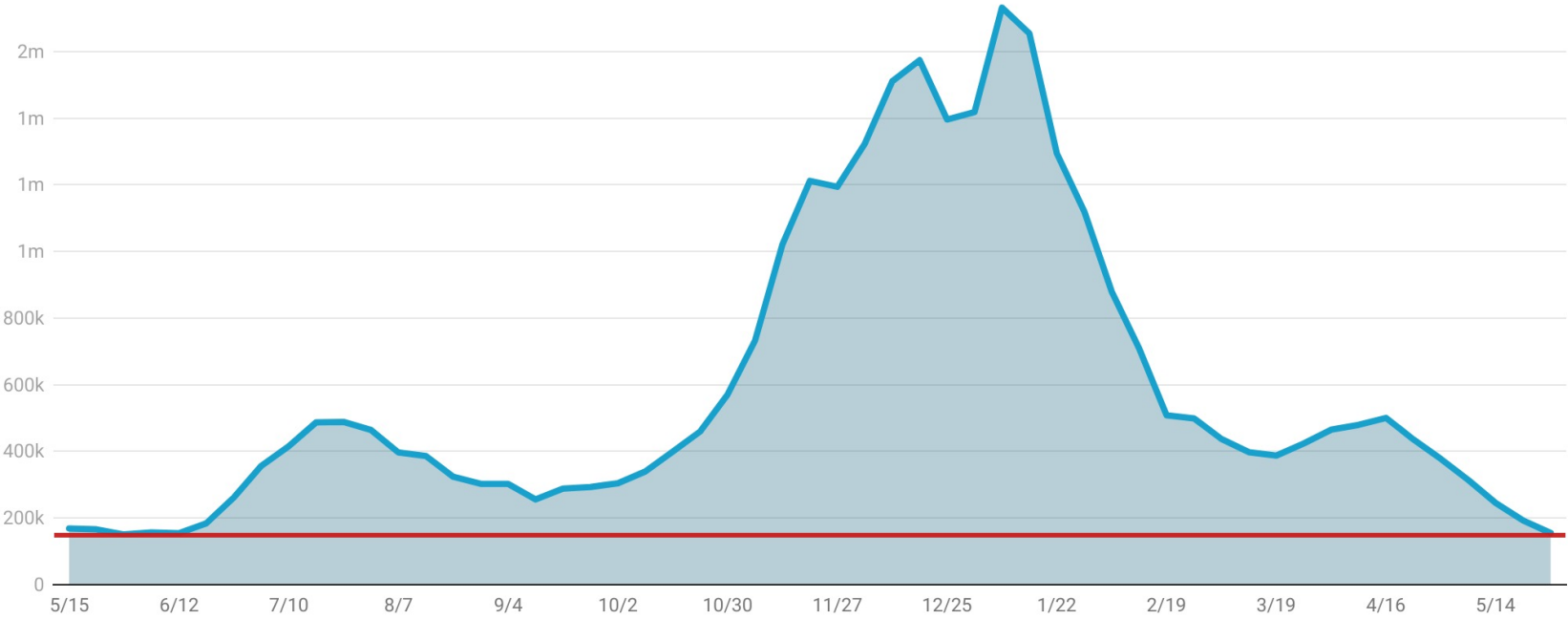


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

Weekly Change in Newly Detected Cases

The number of new cases fell sharply for the sixth straight week. New cases declined this week by 19%.

Weekly Change in New Detected Cases - United States

For the 7 days ending on date shown



Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Newly Detected Cases - By State

California and Florida reported the most new cases last week.

New Weekly Detected Cases - By State

May 22-28

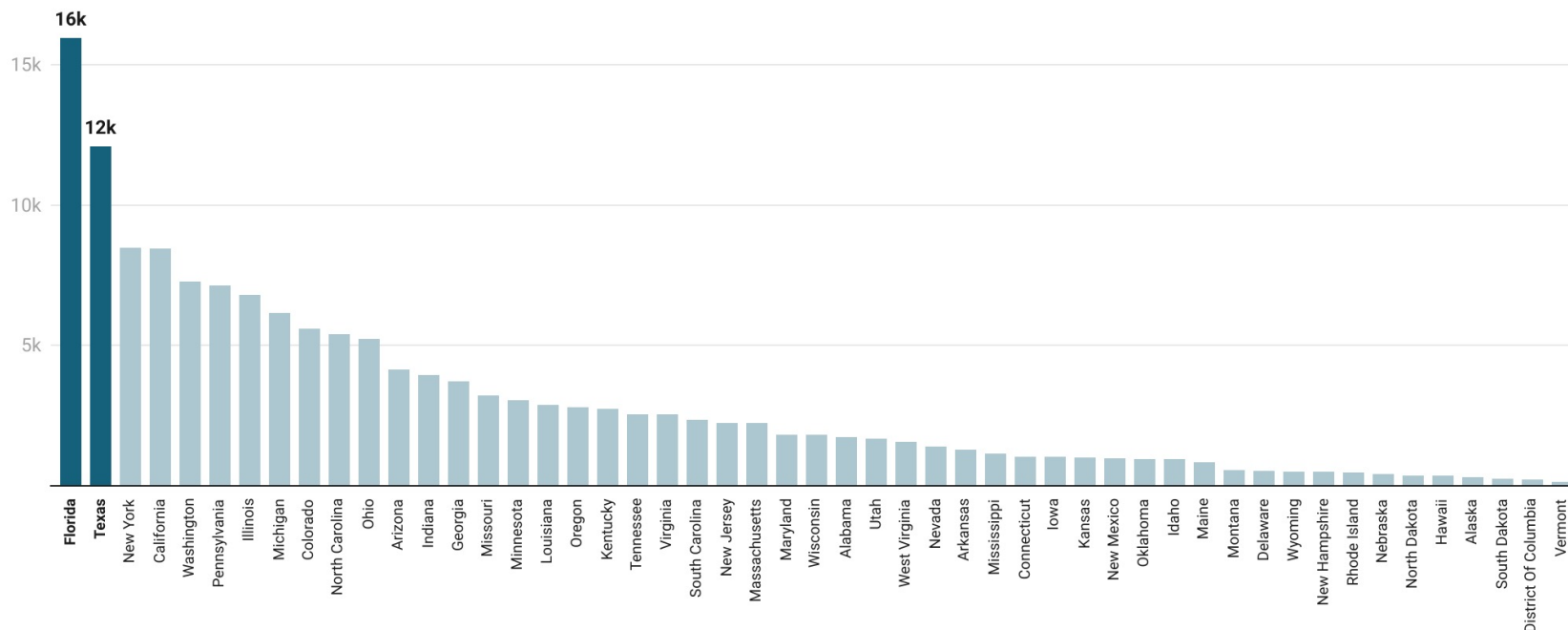


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

Week-Over-Week Change in Newly Detected Cases

New cases dropped week-over-week in most states. Texas saw 1,000 more new cases this week than a week ago. Michigan reported 4,000 fewer new cases week-over-week.

Week-Over-Week Change In Newly Detected Cases - By State

May 22-28 v May 15-21

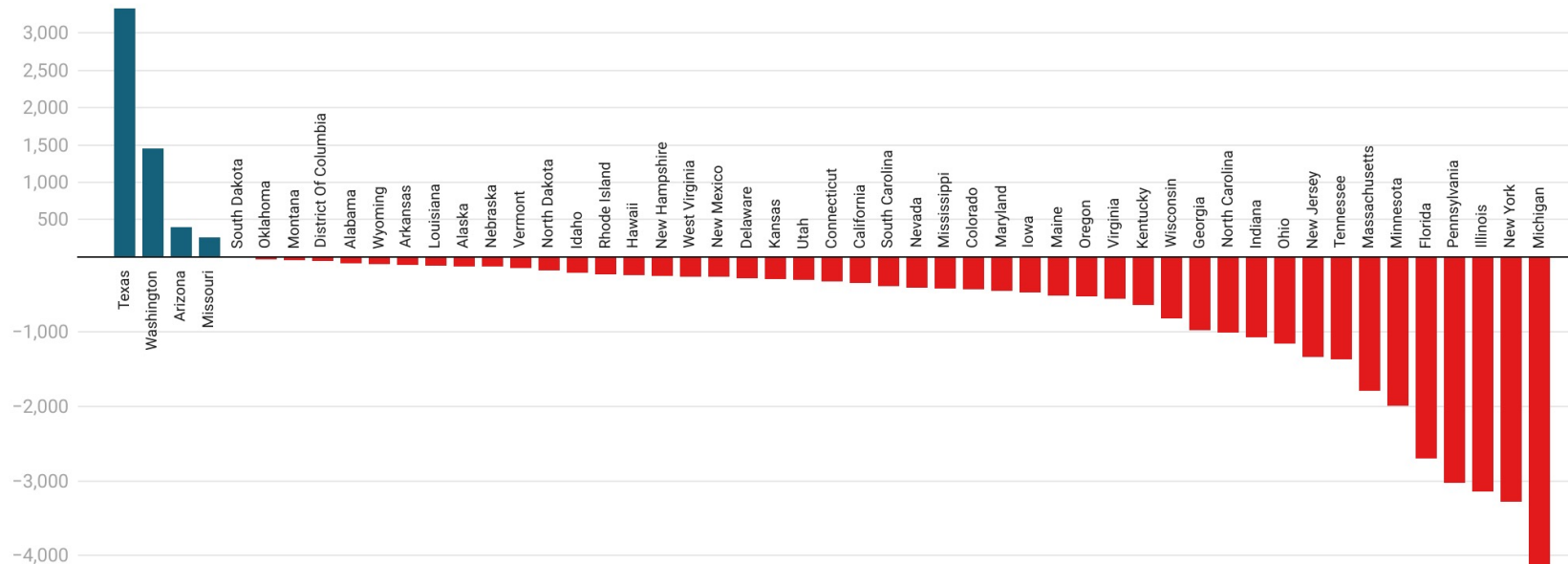


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

Covid-19 Testing

The rate of positive Covid-19 tests increased last week yet remains below the WHO target.

Weekly Test-Positive% - United States

For the 7 days ending on date shown

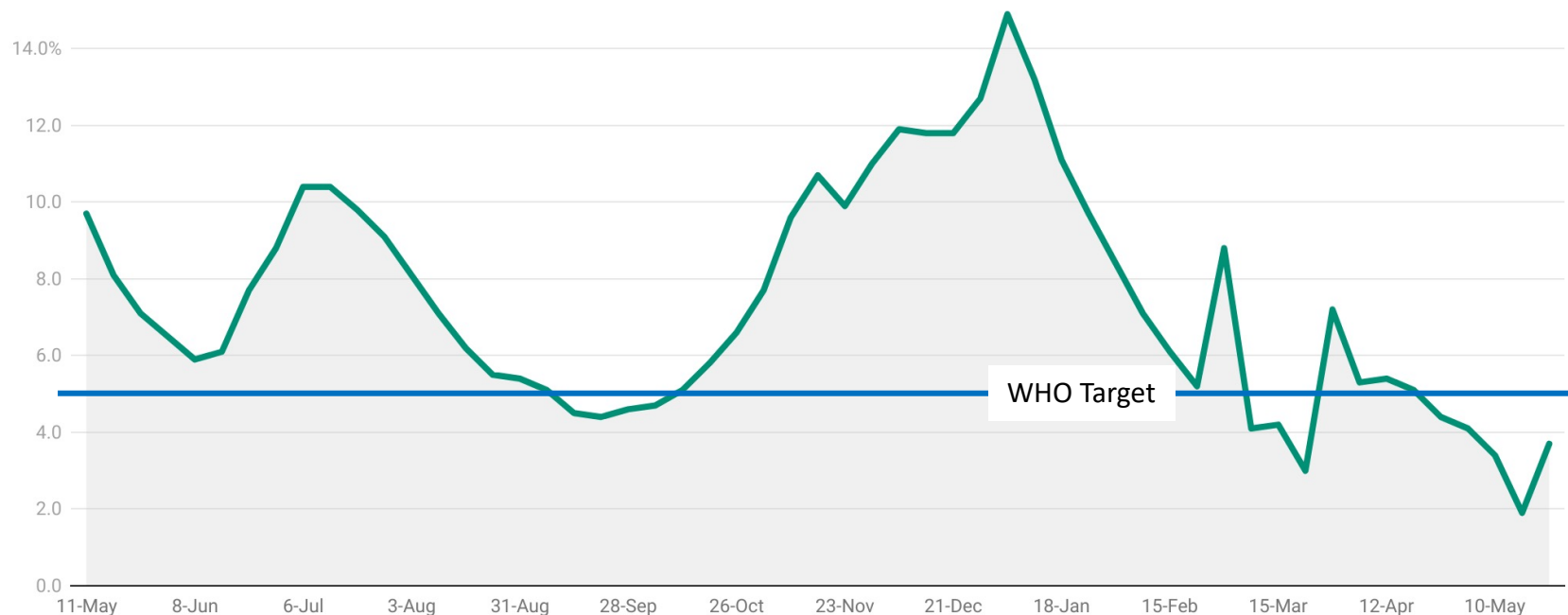


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Test Efficiency: Tests Per Case Detected

Test efficiency soared last week, establishing a pandemic high.

Weekly Tests / Newly Detected Case - United States

For the 7 days ending on date shown

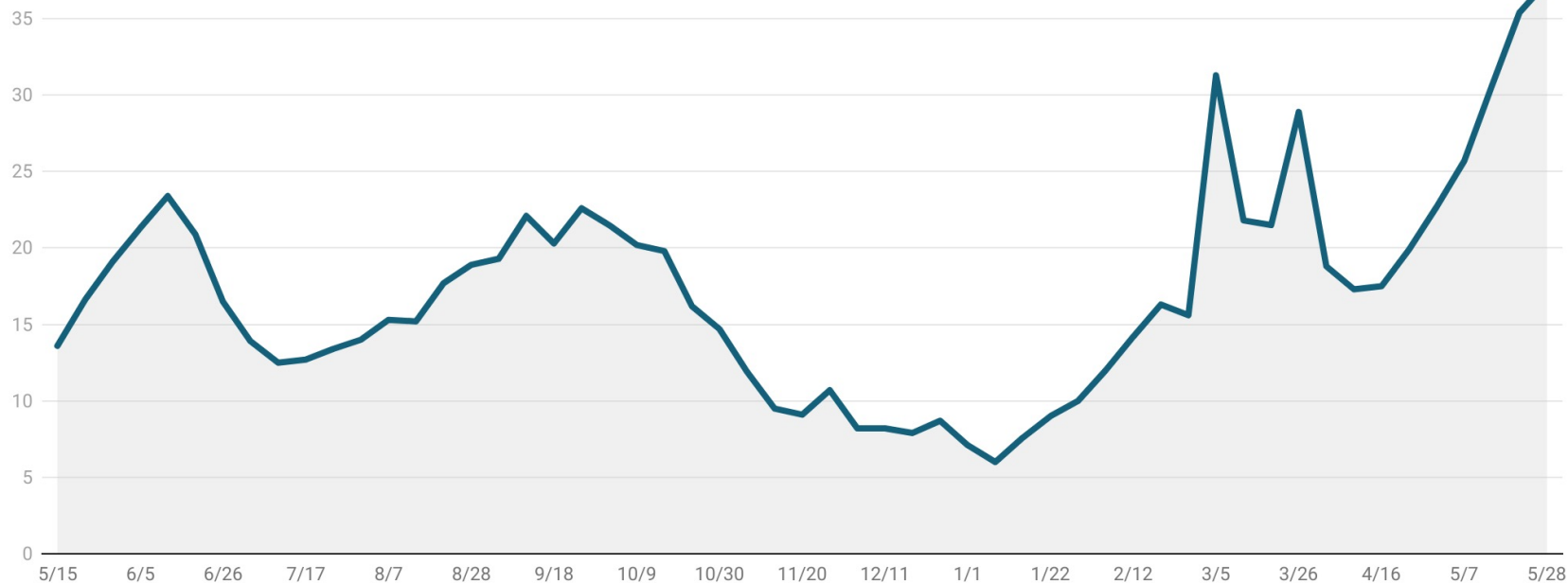


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project & worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

Covid-19 Hospital Occupancy

Covid-19 occupancy dropped last week to its lowest point since these data have been uniformly reported by the states.

Covid-19 Occupancy - % of Inpatient Beds - United States

For the 7 days ending on date shown

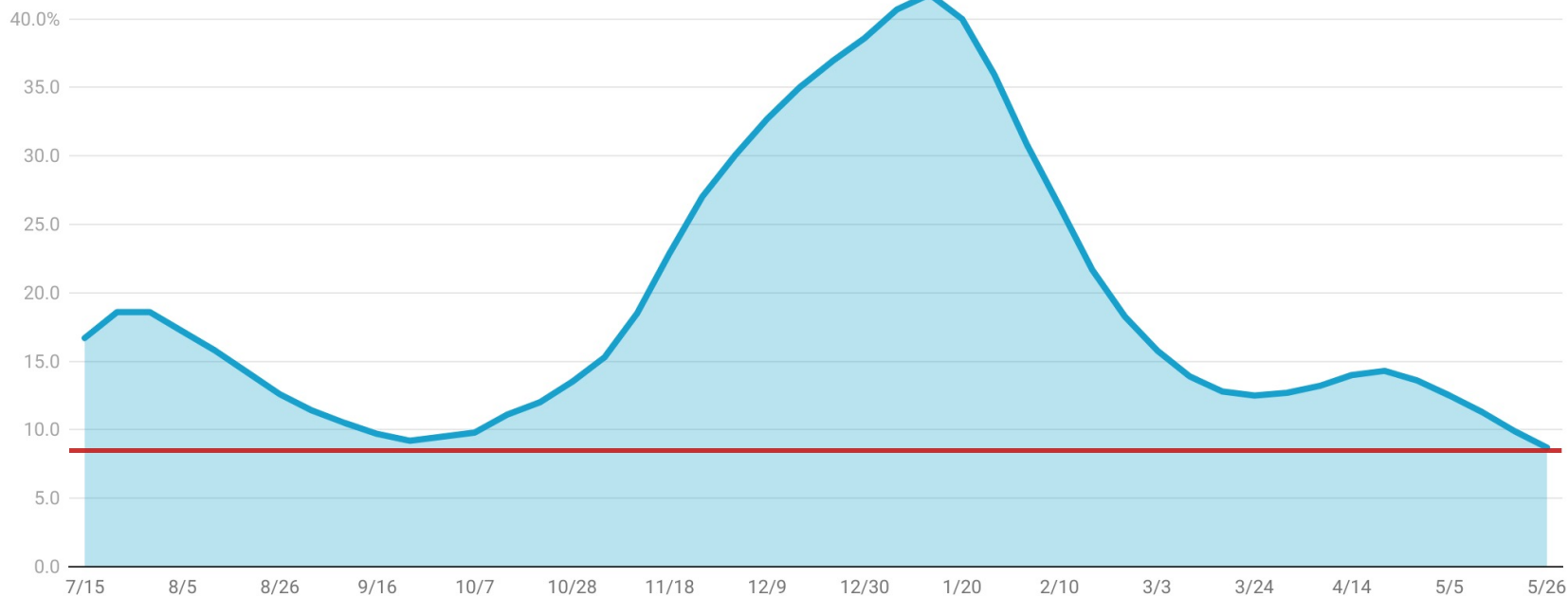


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control & Prevention • Created with Datawrapper

Covid-19 "Vital Signs"

Covid-19 Hospital Occupancy

In Maryland and Washington, Covid-19 patients occupy 15% of inpatient beds. For the U.S. overall, Covid-19 patients occupy one of every twelve beds, down from four of ten in January.

Covid-19 Occupancy: % of Inpatient Beds By State

As of May 26

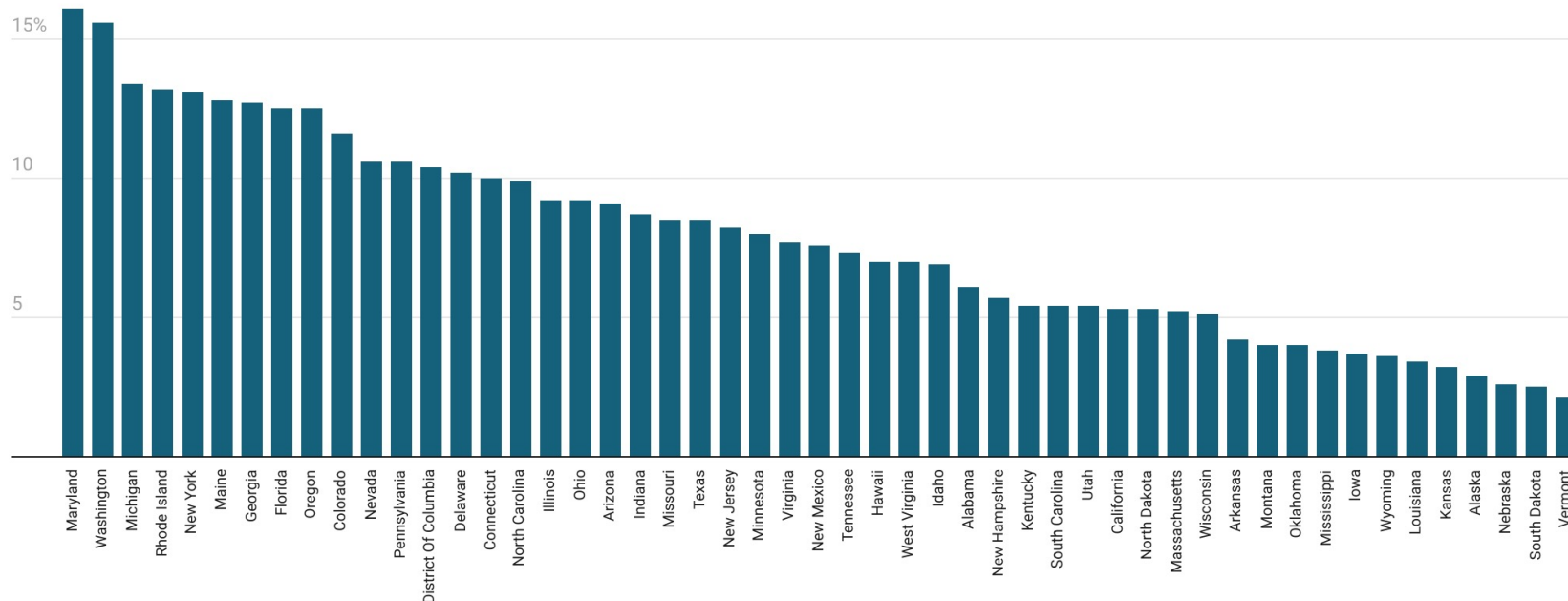


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control & Prevention • Created with Datawrapper



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 Inpatient Days / 100 New Cases

For the 7 days ending on the date shown



Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project & worldometers.info • Created with Datawrapper

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.

COVID-NET

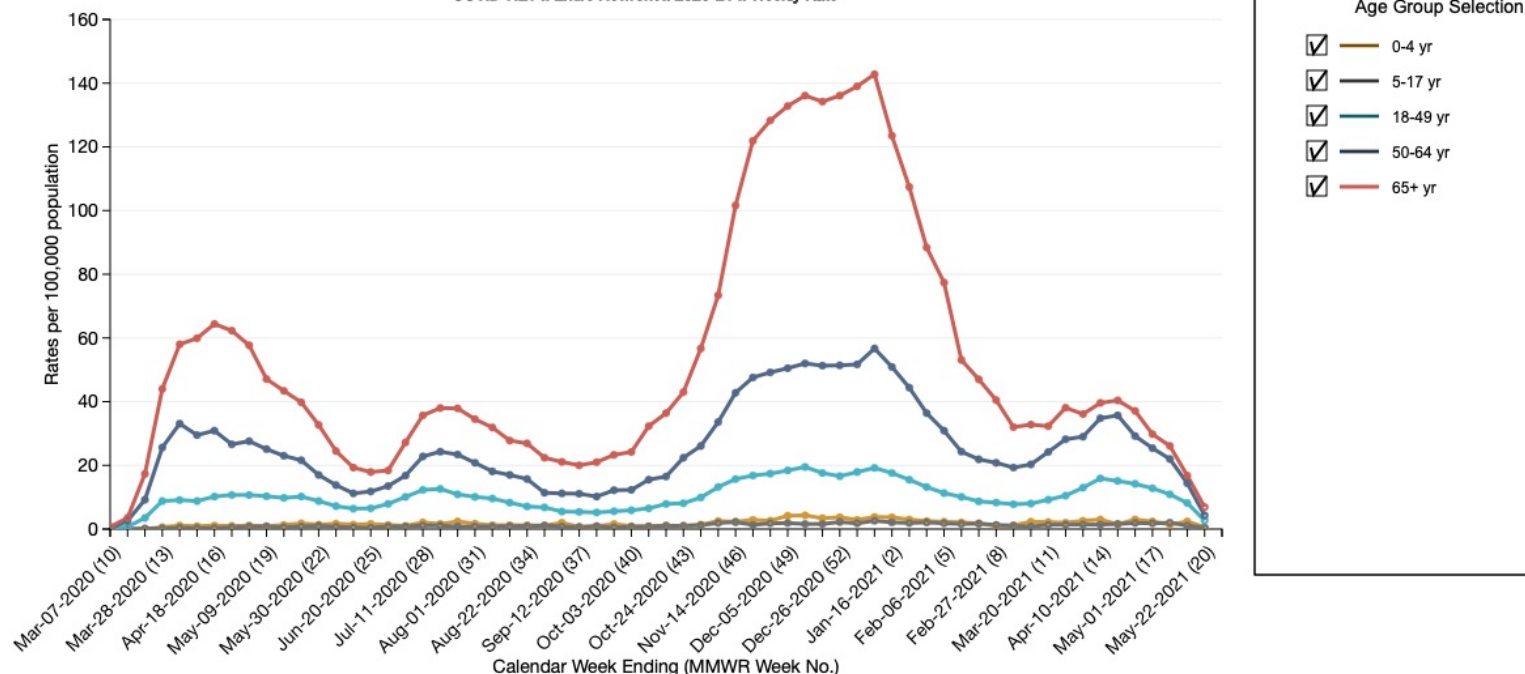
A Weekly Summary of U.S. COVID-19 Hospitalization Data



Laboratory-Confirmed COVID-19-Associated Hospitalizations

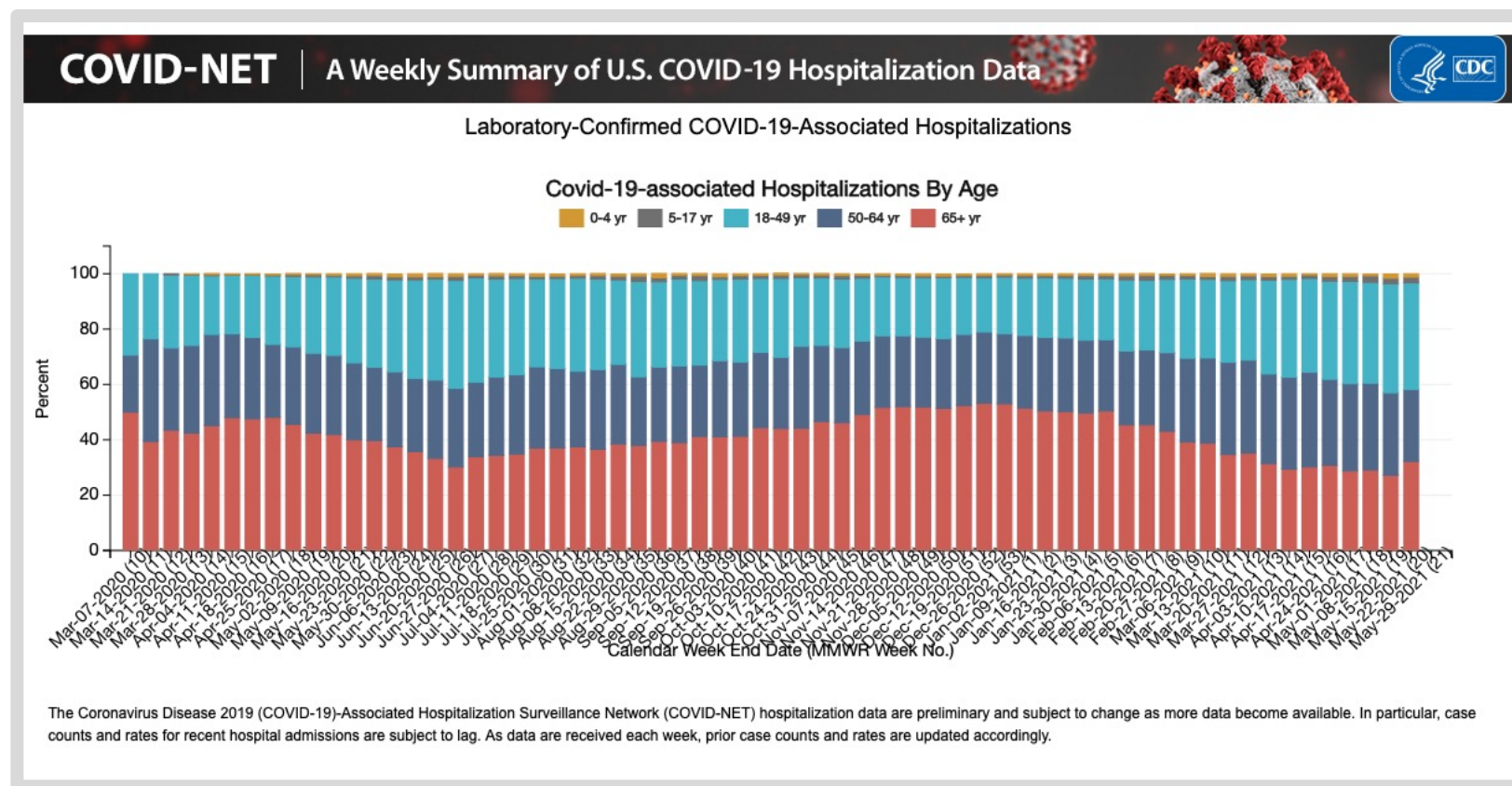
Preliminary weekly rates as of May 22, 2021

COVID-NET :: Entire Network :: 2020-21 :: Weekly Rate



Covid-19 Hospitalizations By Age

Last week, the mix of Covid-19 inpatients shifted older, bucking the trend throughout the year.



Deaths With Coronavirus

The weekly death rate is lower than any week since March 2020.

Weekly Deaths - United States

For the 7 days ending on date shown

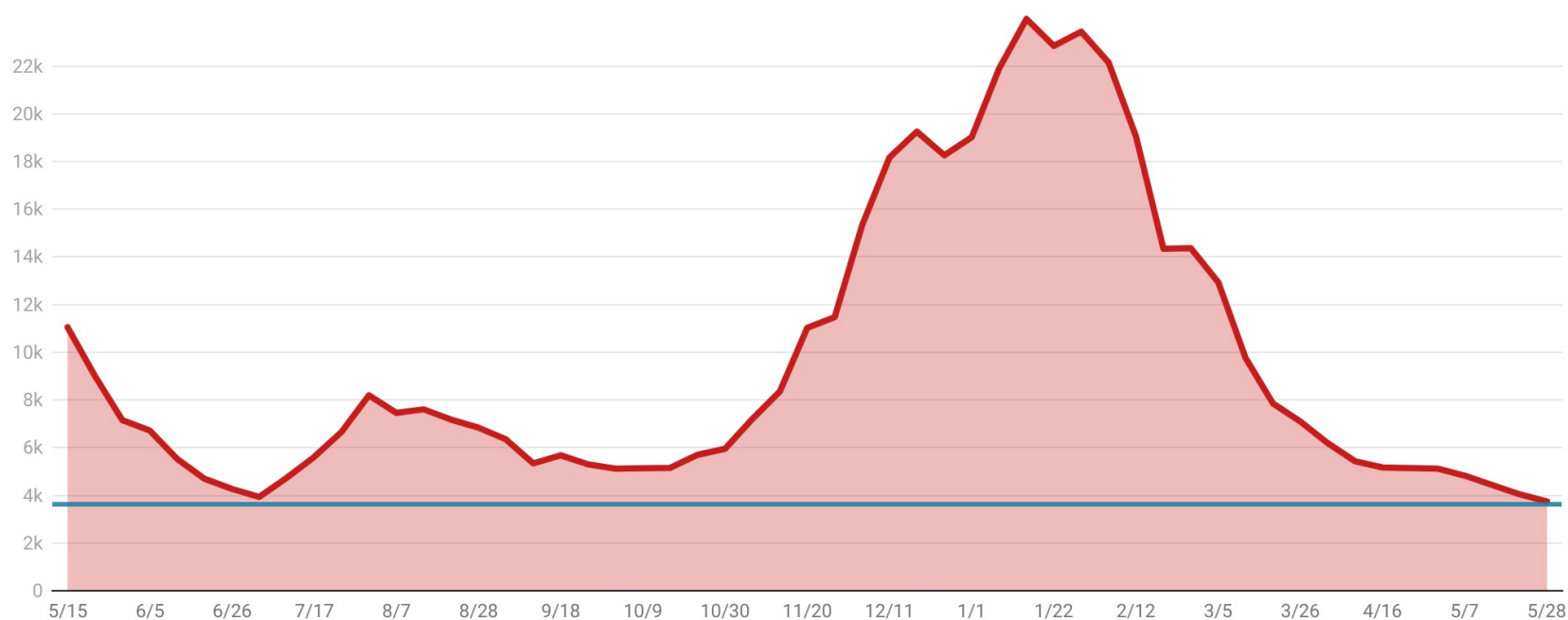


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

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>