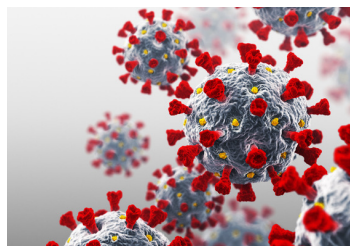


Covid-19 "Vital Signs"

Issue # 321

April 19, 2021



Vaccines Per Person – By Continent

North America has set the pace among the continents, followed by Europe. Rates are far too low in Africa.

Doses Per 100 People - By Continent

Most Recent Data, As of April 17

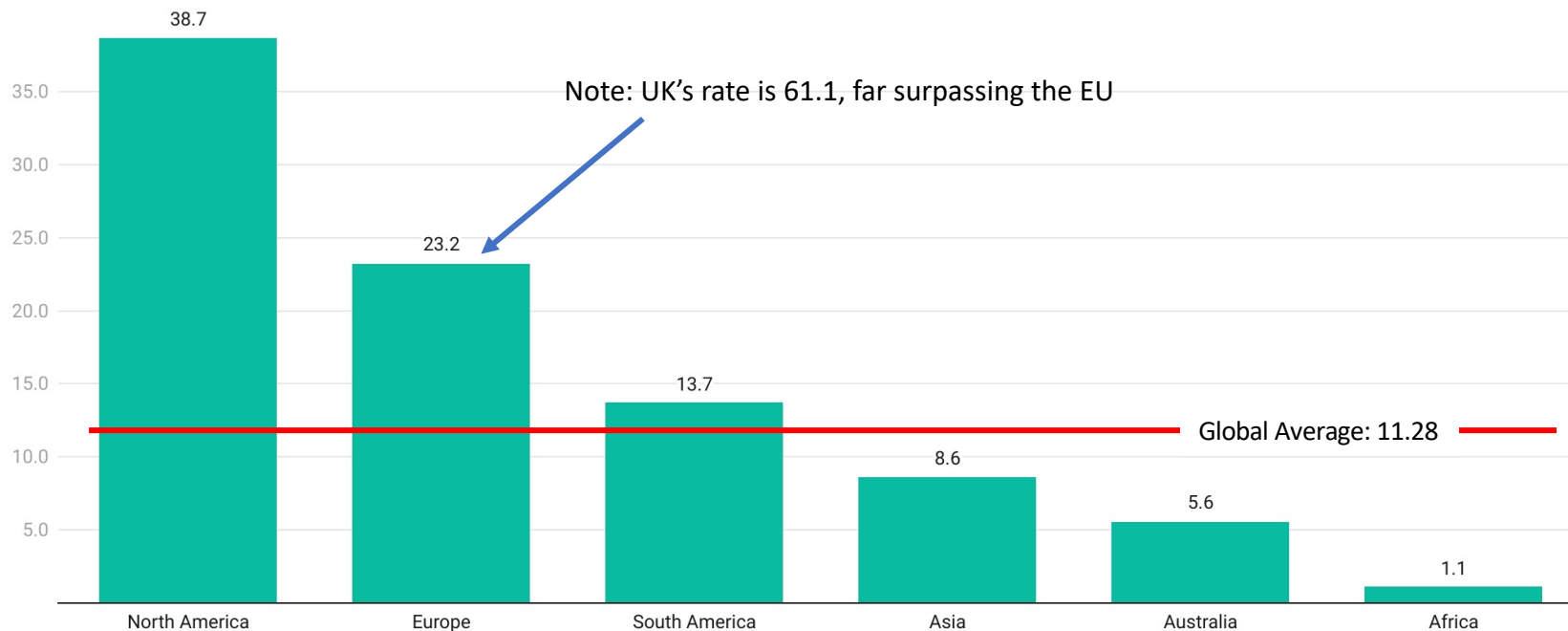


Chart: Health Industry Advisor LLC • Source: Our World In Data • Created with Datawrapper

Vaccines Per Person

Israel has set the pace among large countries. The United Kingdom and the United States have done reasonably well. Globally, the rollout has been disappointing and problematic.

Countries Administering Most Doses Per 100 Persons

Most Recent Data, As of April 17

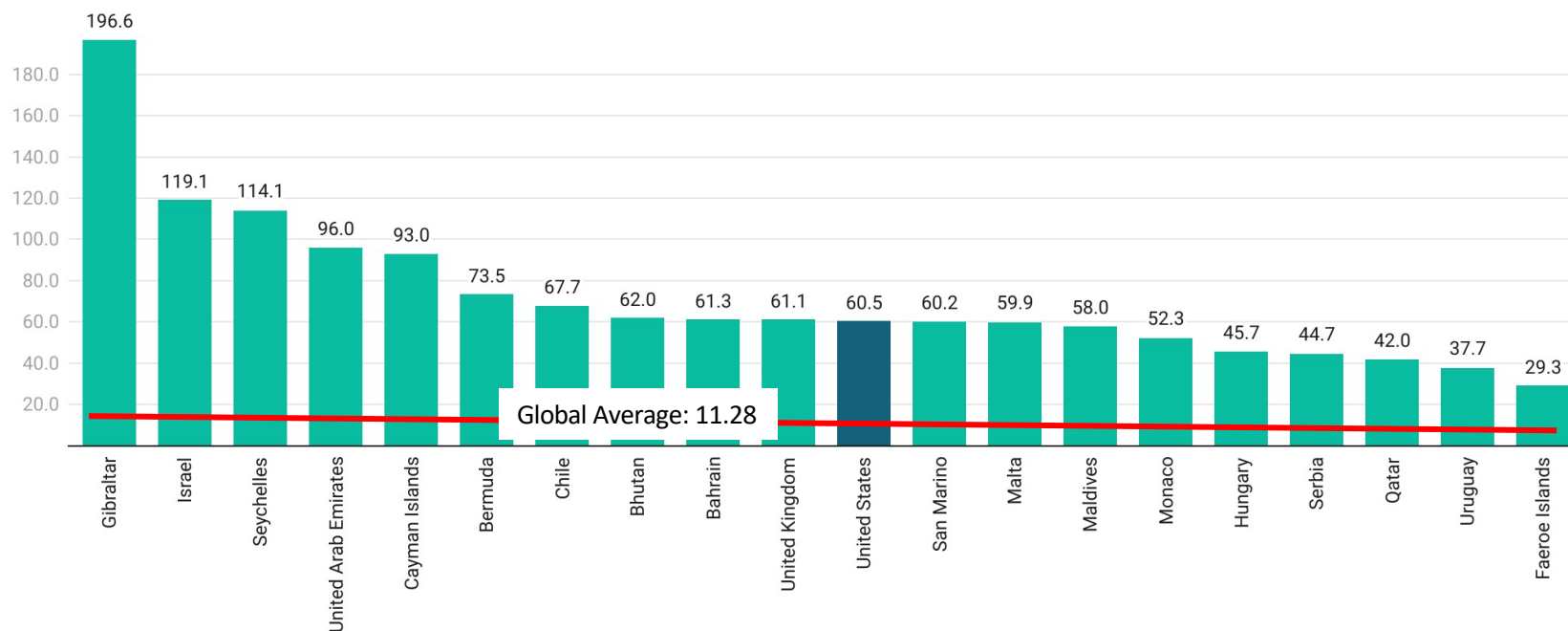


Chart: Health Industry Advisor LLC • Source: Our World In Data • Created with Datawrapper

Covid-19 "Vital Signs"

Vaccine Trends – Select Countries?

Israel has been the early pacesetter in vaccinations, which may have reached a plateau. Chile and the United States have accelerated the vaccination pace recently.

Doses Per 100 People

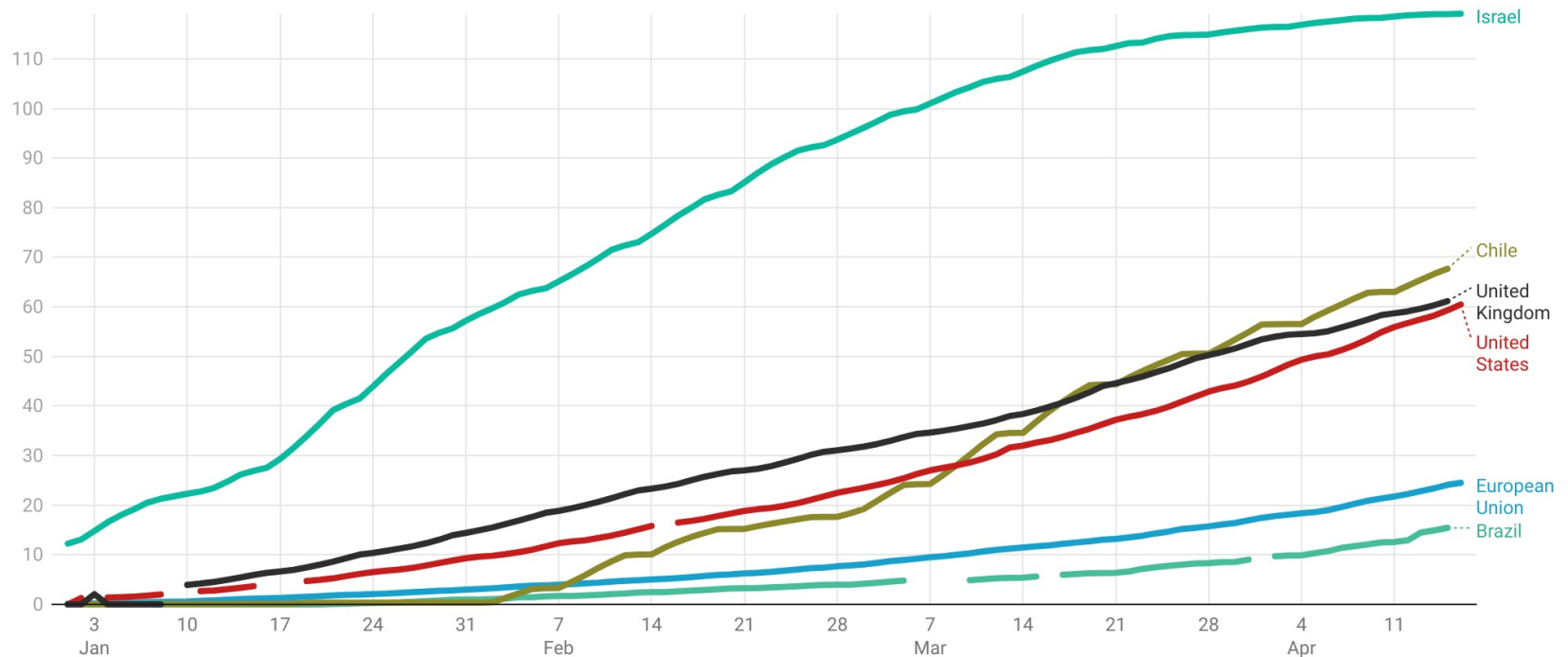


Chart: Health Industry Advisor LLC • Source: Our World in Data • Created with Datawrapper

Covid-19 “Vital Signs”

Vaccine Tracking

To date, the US has distributed 258 million doses and administered 209 million. 77.5 million people are fully inoculated – 32.7% of the adult population. Another 43 million people have received the first of two required doses.

Vaccination Progress

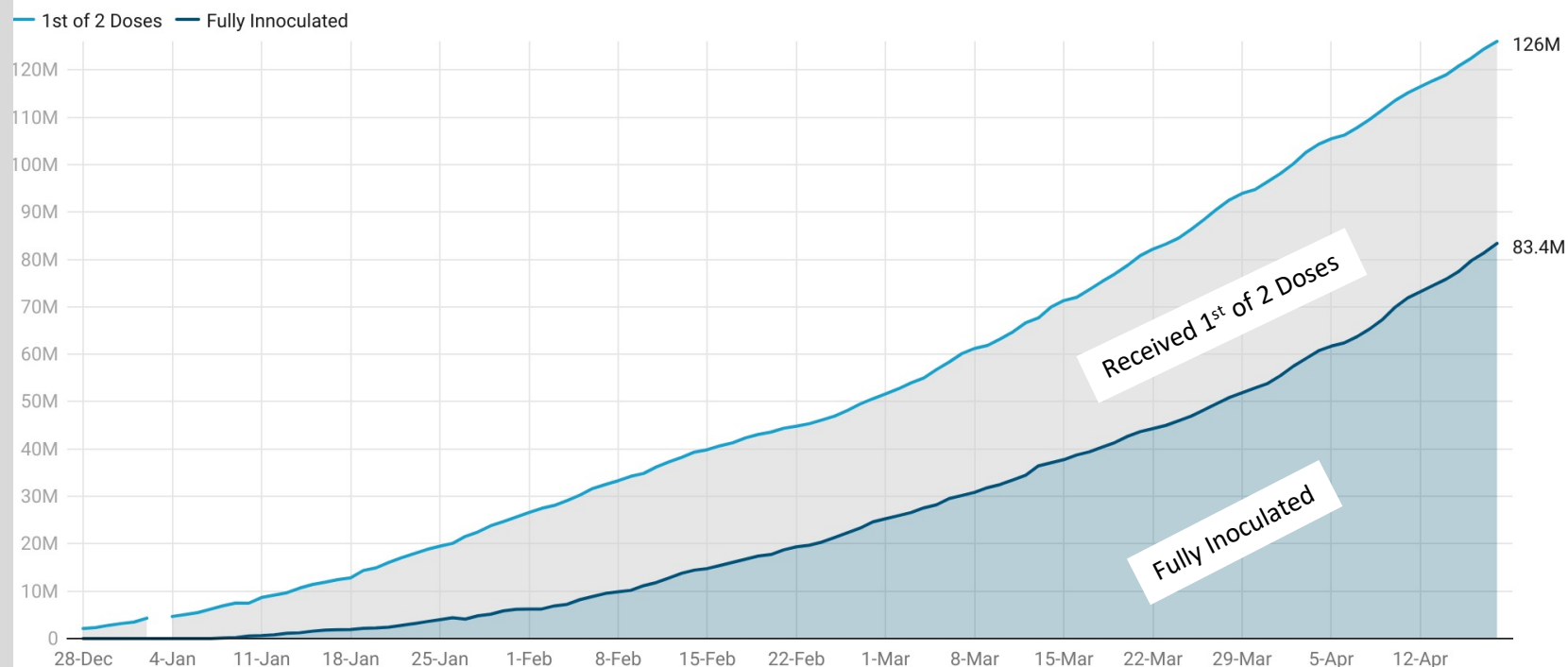
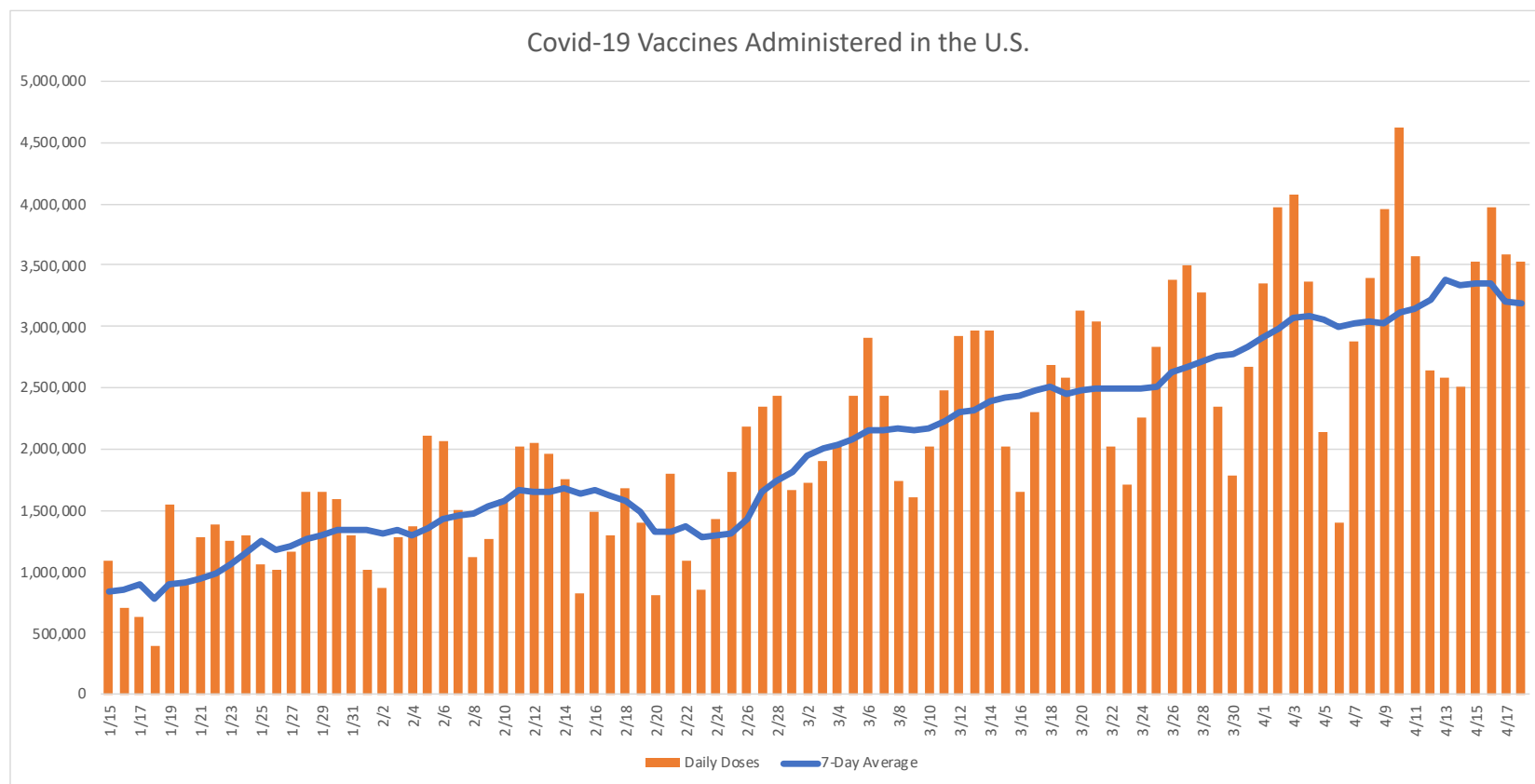


Chart: Health Industry Advisor LLC • Source: CDC, Bloomberg • Created with Datawrapper

Vaccine data from: [Centers for Disease Control and Prevention](#) and [Bloomberg Vaccine Tracker](#)

Pace of Vaccinations

The 7-day average rate declined each of the past two days. Is this a reflection of the JNJ/Janssen vaccine pause or, vaccine hesitancy?



Vaccination Status By Age

Seniors are participating in the process at strong levels. Only one-in-five have yet to be jabbed. Younger adults have participated at good rates since becoming eligible.

Vaccination Status By Age

As of April 17

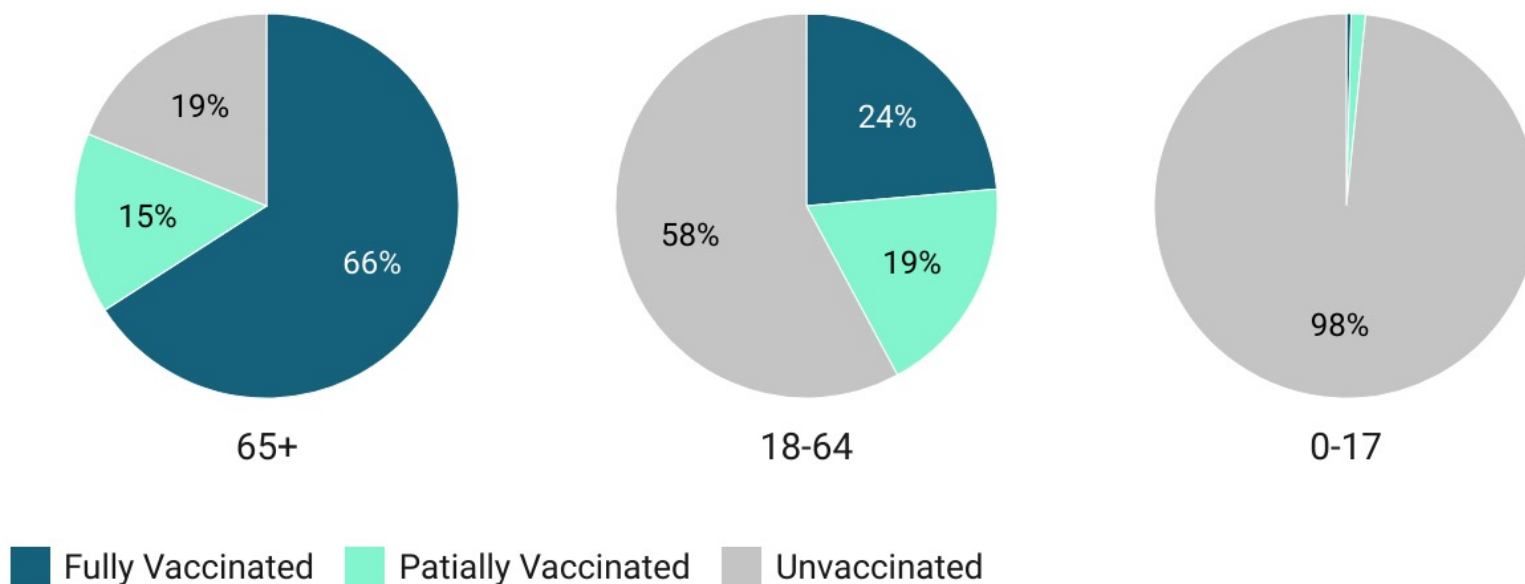


Chart: Health Industry Advisor LLC • Source: CDC • Created with Datawrapper

Covid-19 "Vital Signs"

Newly Detected Cases Per Day

In the US, 7-day new case rates declined week-over-week, reversing the trend from recent weeks. Outside the U.S., cases continue increasing at an alarming rate.

Newly Detected Cases

As of April 18

■ United States ■ Outside the US

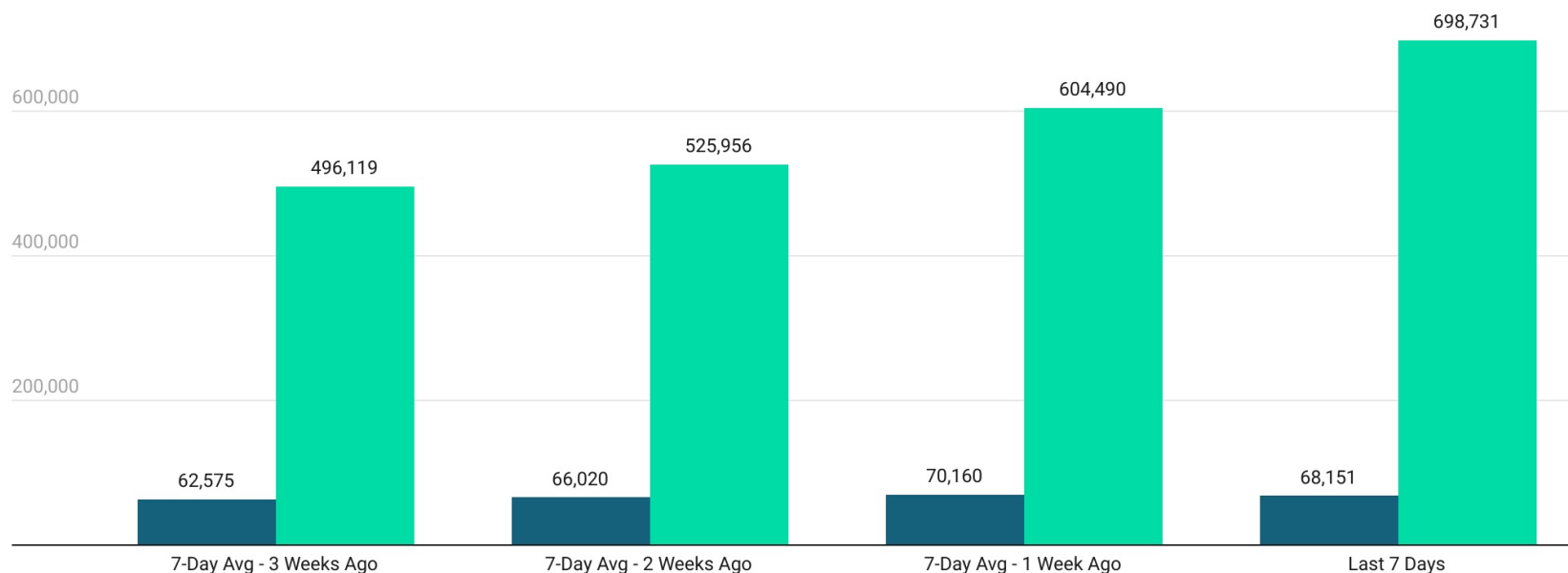


Chart: Health Industry Advisor LLC • Source: The Atlantic • Created with Datawrapper

Covid-19 "Vital Signs"

Week-Over-Week Changes in New Cases

The rate of change in new cases has slowed recently. In the U.S., this rate declined for the fifth straight day and turned negative yesterday. Worldwide, this rate for the fourth straight day.

Week-Over-Week Changes in Newly-Detected Cases: USA v. Worldwide

7-Day Moving Average, As of April 18

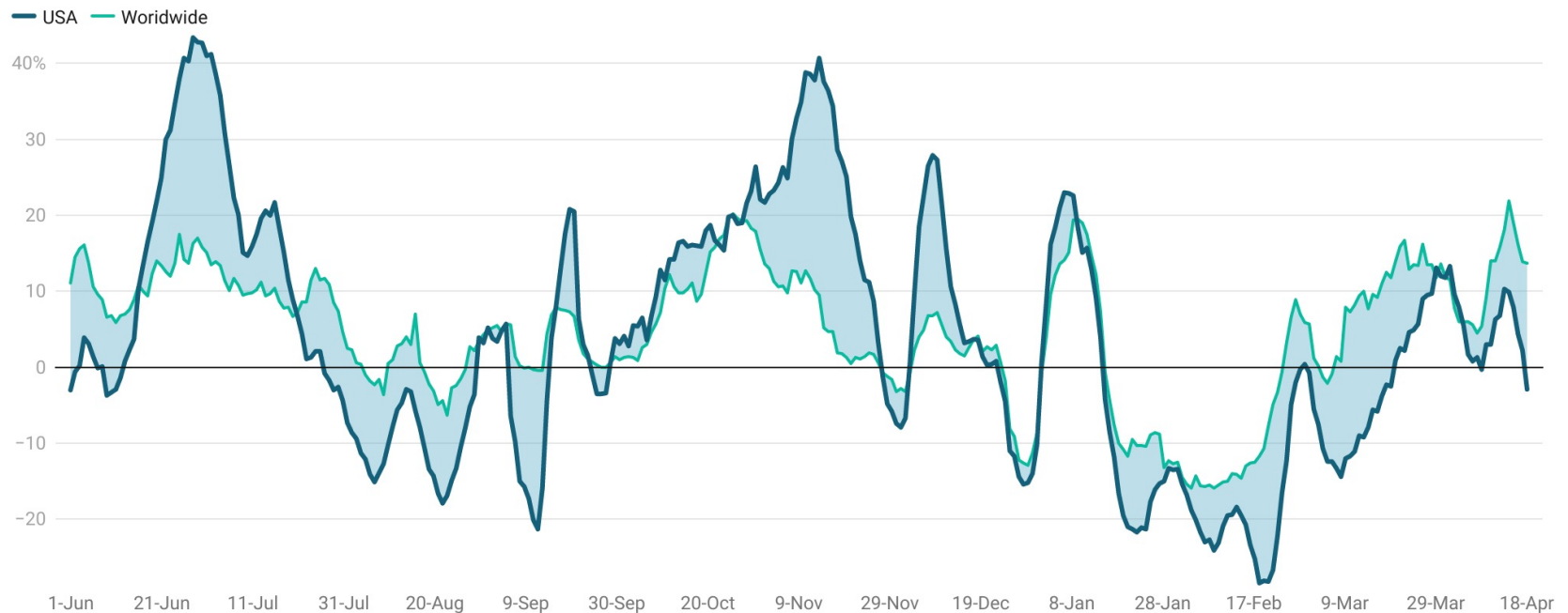


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

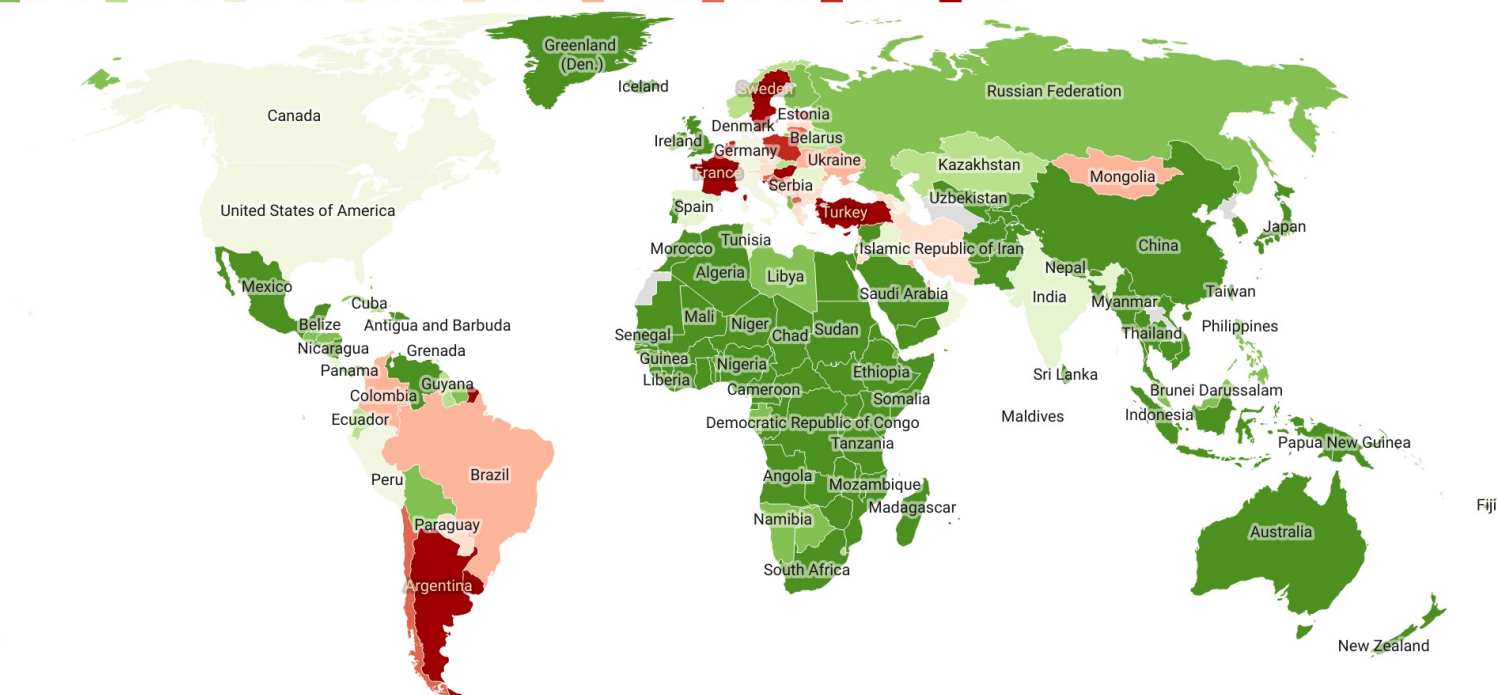
Newly Detected Cases / Million

Case rates are highest in parts of Europe and South America.

New Infections / Million

7-Day Moving Average, As of April 18

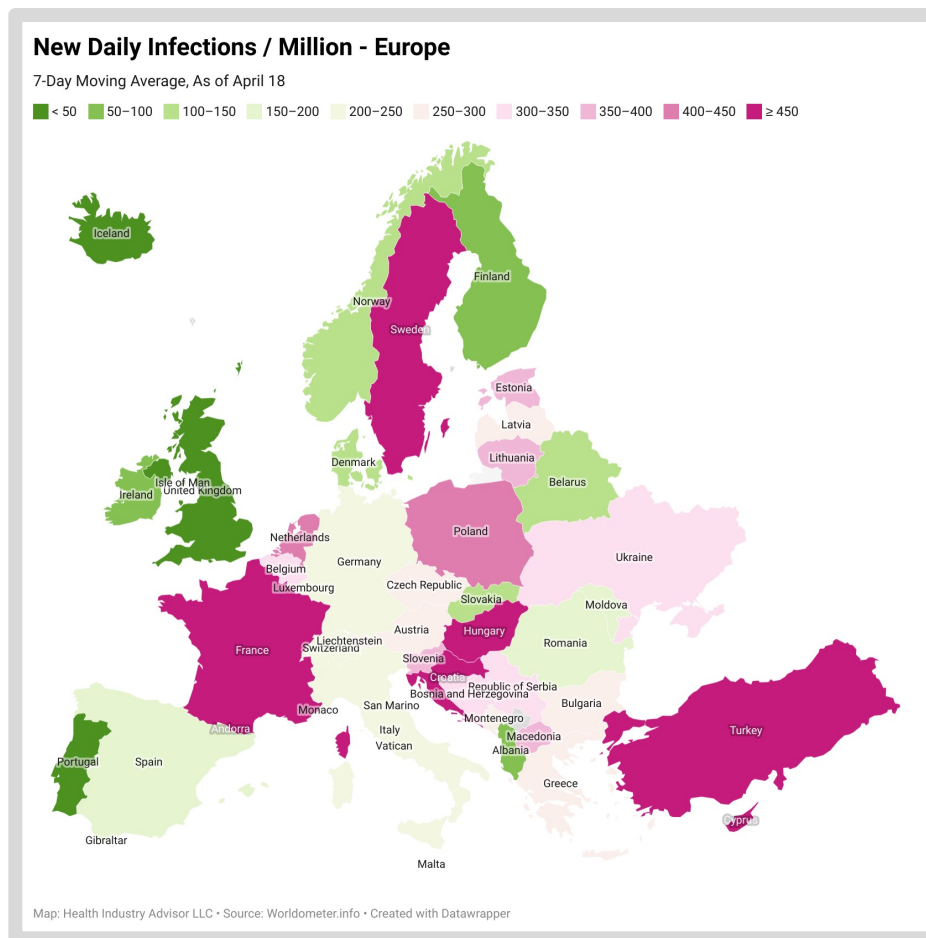
■ < 50 ■ 50-100 ■ 100-150 ■ 150-200 ■ 200-250 ■ 250-300 ■ 300-350 ■ 350-400 ■ 400-450 ■ ≥ 450



Map: Health Industry Advisor LLC • Source: worldometer.info • Created with Datawrapper

Newly Detected Cases / Million

Large parts of the European Union are suffering with high case rates.



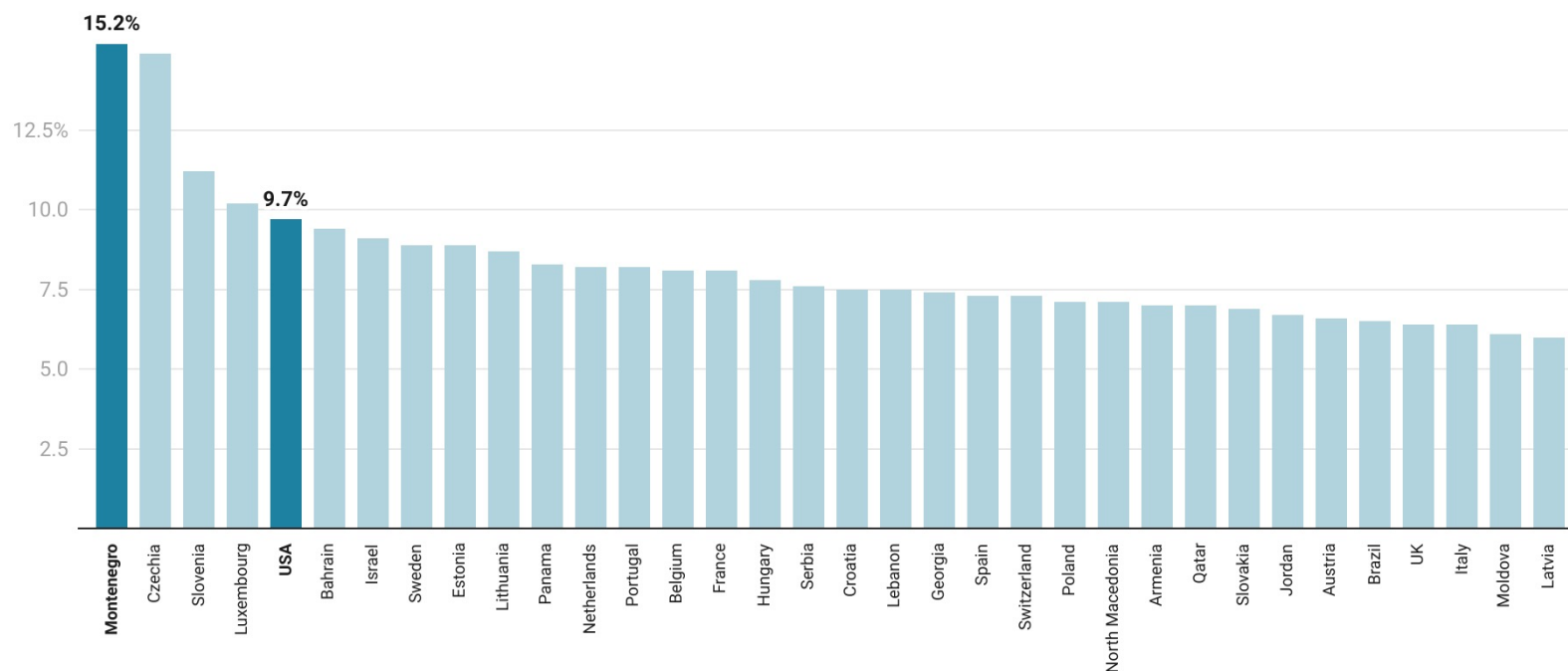
Covid-19 "Vital Signs"

Highest Rate of Infection Prevalence Worldwide

The US ranks 5th worldwide in infection prevalence (% of population with a detected case) among countries with 500,000+ population.

Ranking of Detected Case Prevalence

As of April 18



Countries with population >= 500,000

Chart: Health Industry Advisor LLC • Created with Datawrapper

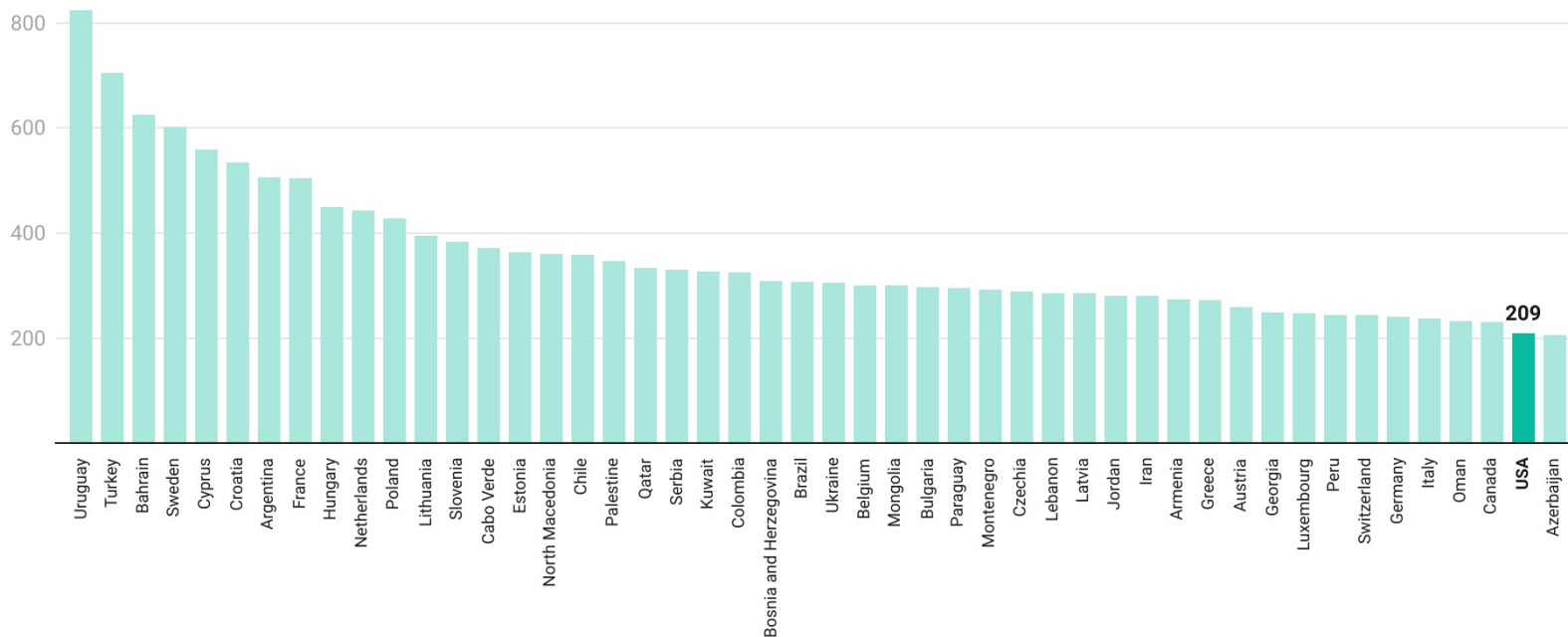
Covid-19 "Vital Signs"

Highest Rate of New Cases / Million

The US ranks 47th worldwide in new cases per million among countries with 500,000+ population.

Ranking of New Detected Cases / Million

7-Day Average, As of April 18



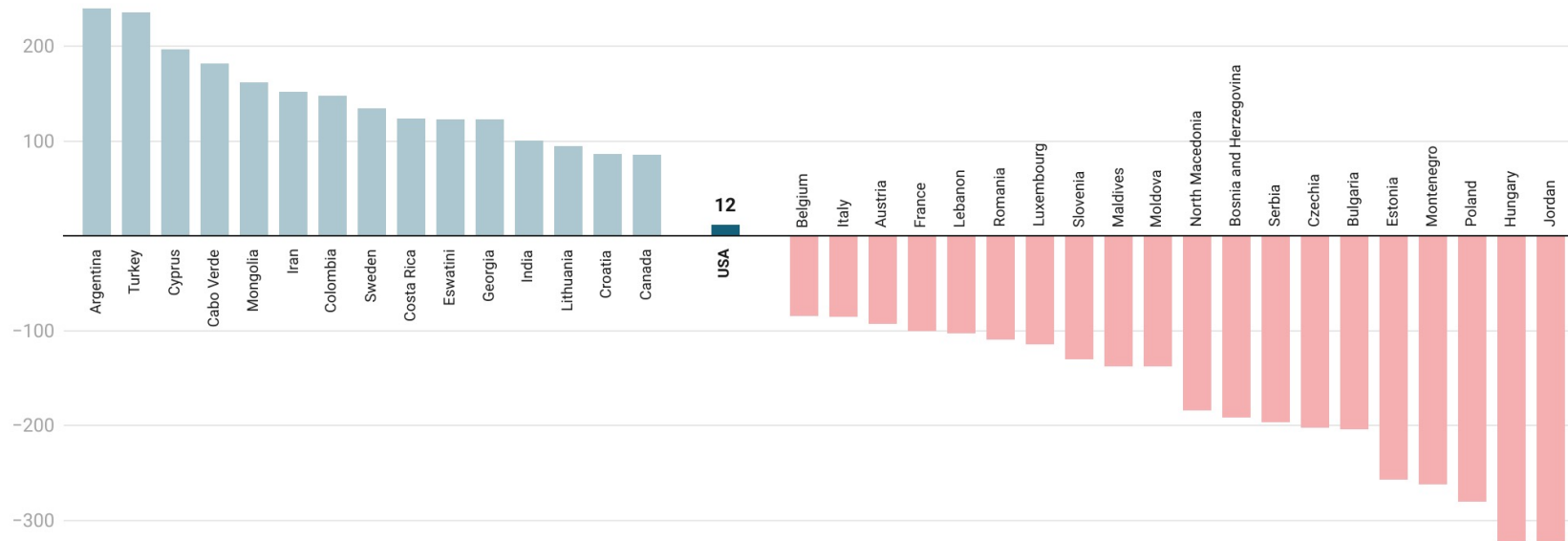
Countries with population >= 500,000

Chart: Health Industry Advisor LLC • Created with Datawrapper

Largest Changes in New Cases / Million: April 18 v April 4

US & Countries With Largest Changes in New Cases/Million: Last Two Weeks

7-Day Average, As of April 18



Countries with population >= 500,000

Chart: Health Industry Advisor LLC • Created with Datawrapper

Covid-19 “Vital Signs”

Case Trends – Select Countries of Interest

Case rates have declined or remained stable in three countries with relatively high vaccination rates – Israel, the United Kingdom and the United States. Rates are high in several countries with relatively low vaccination rates.

Newly Detected Cases Per Million: Select Countries of Interest

7-Day Moving Average

● Israel ● Netherlands ● Sweden ● UK ● Poland ● France ● United States ● Brazil ● South Africa

Countries with relatively high vaccination rates depicted with a dotted line

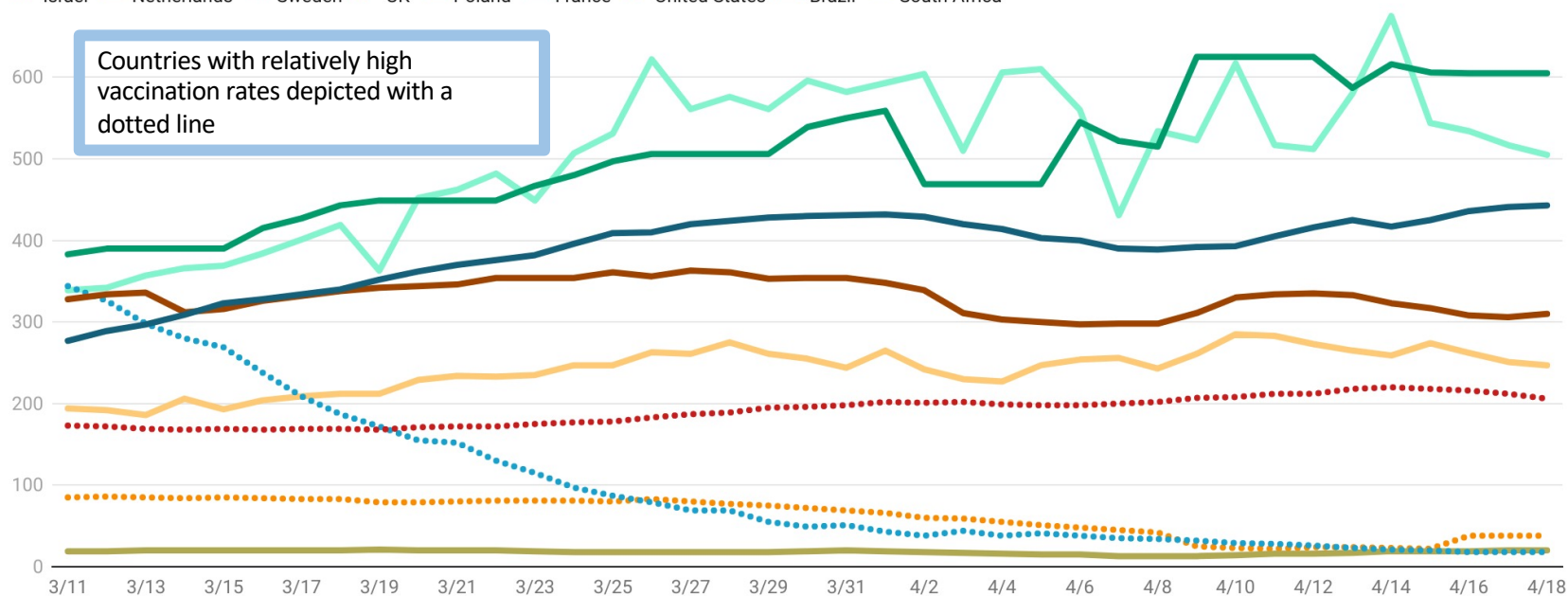


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19
"Vital Signs"

Newly Detected Cases / Million - US

The U.S. 7-day new case rate declined for the fourth straight day.

Newly-Detected Cases / Million

7-Day Average

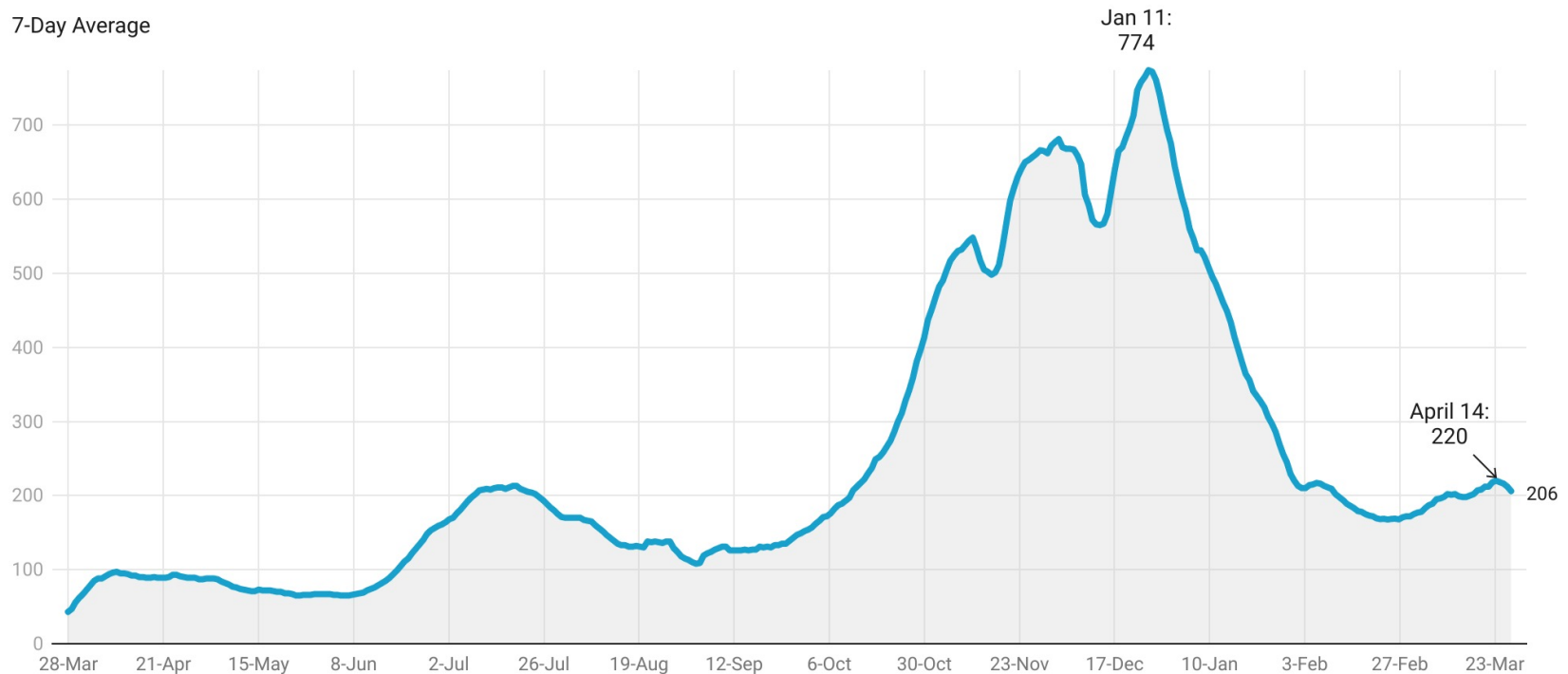


Chart: Health Industry Advisor LLC • Created with Datawrapper

Covid-19 “Vital Signs”

Covid-19 Inpatient Census

Covid-19 inpatient census has moved up somewhat since mid-March yet remains substantially lower than it was in January and February.

Covid-19 Inpatient Census

Through April 16

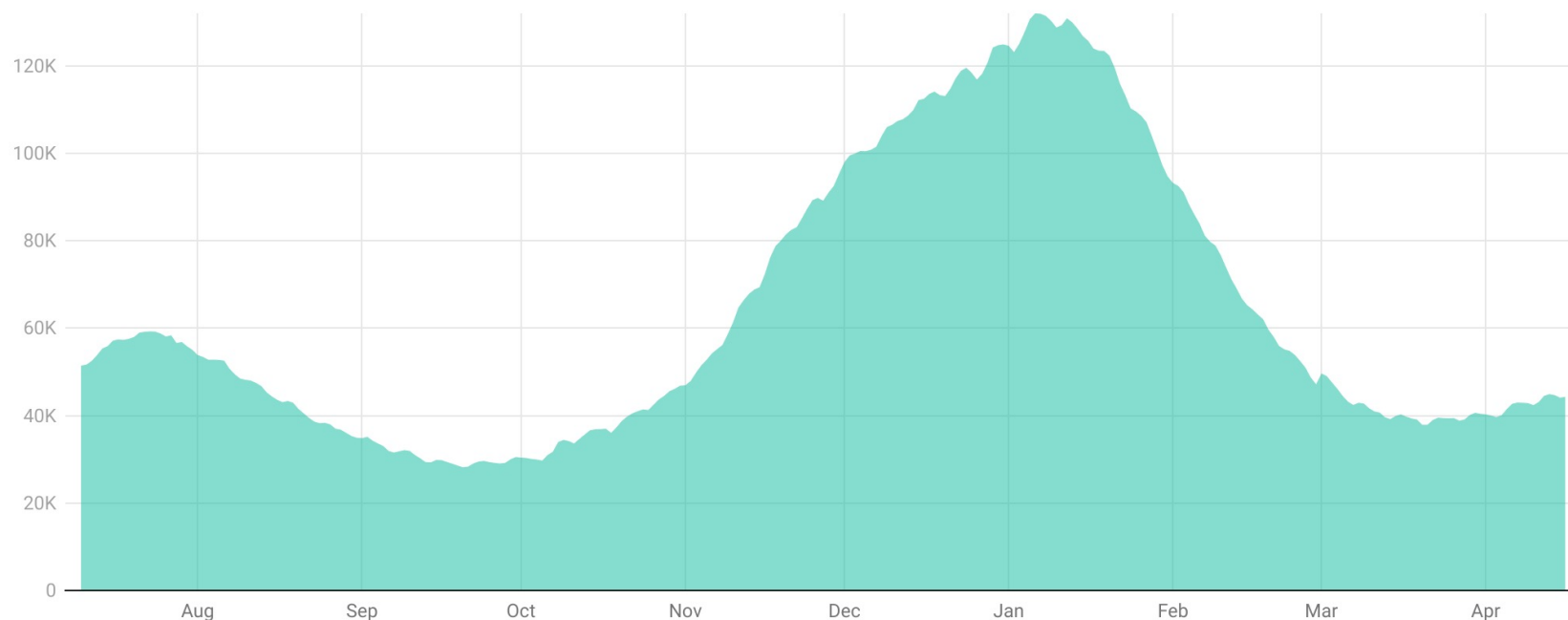


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Covid-19 Inpatient Census

Covid-19 inpatient census increased each of the past two Fridays on a week-over-week basis.

Hospitalized Covid-19 Patients

Compared to Same Day, Prior Weeks

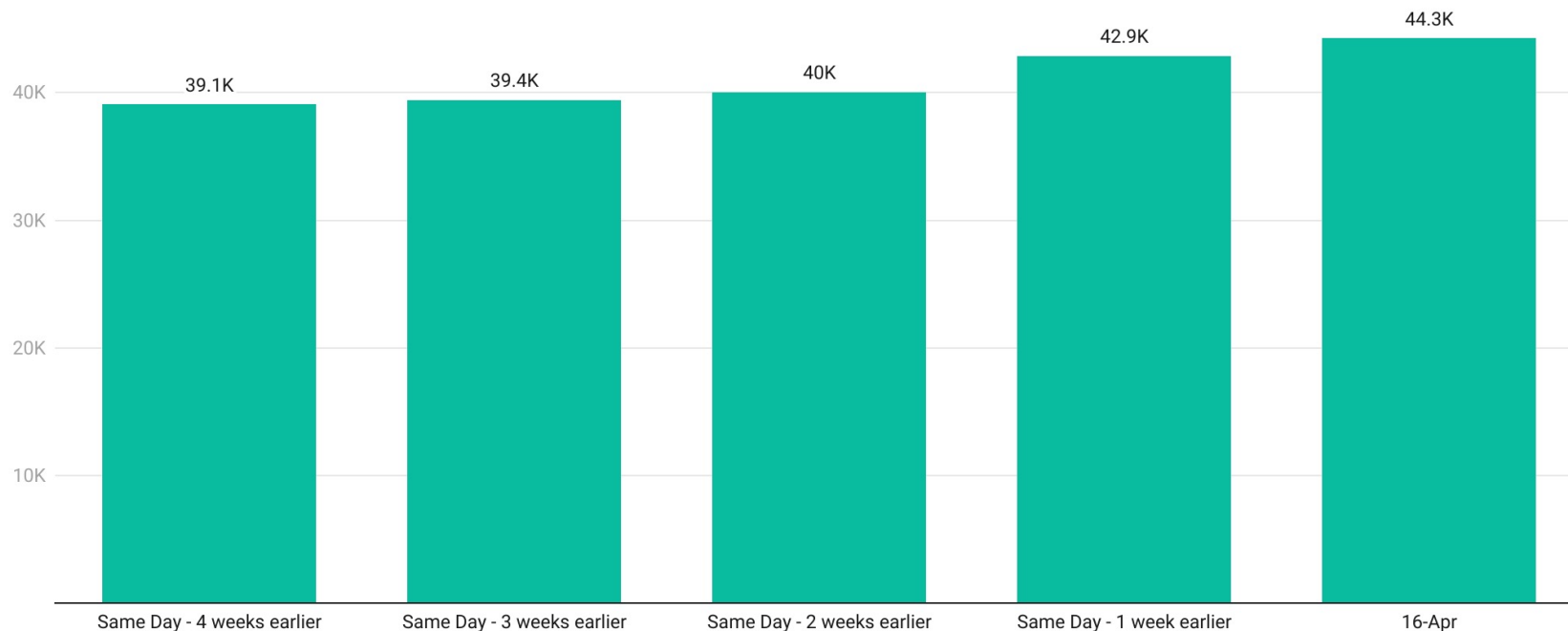


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Covid-19 Inpatient Census By Age

As Covid census had declined and seniors are vaccinated, younger adults make up a greater share of hospitalized cases.

Covid-19 Inpatients By Age

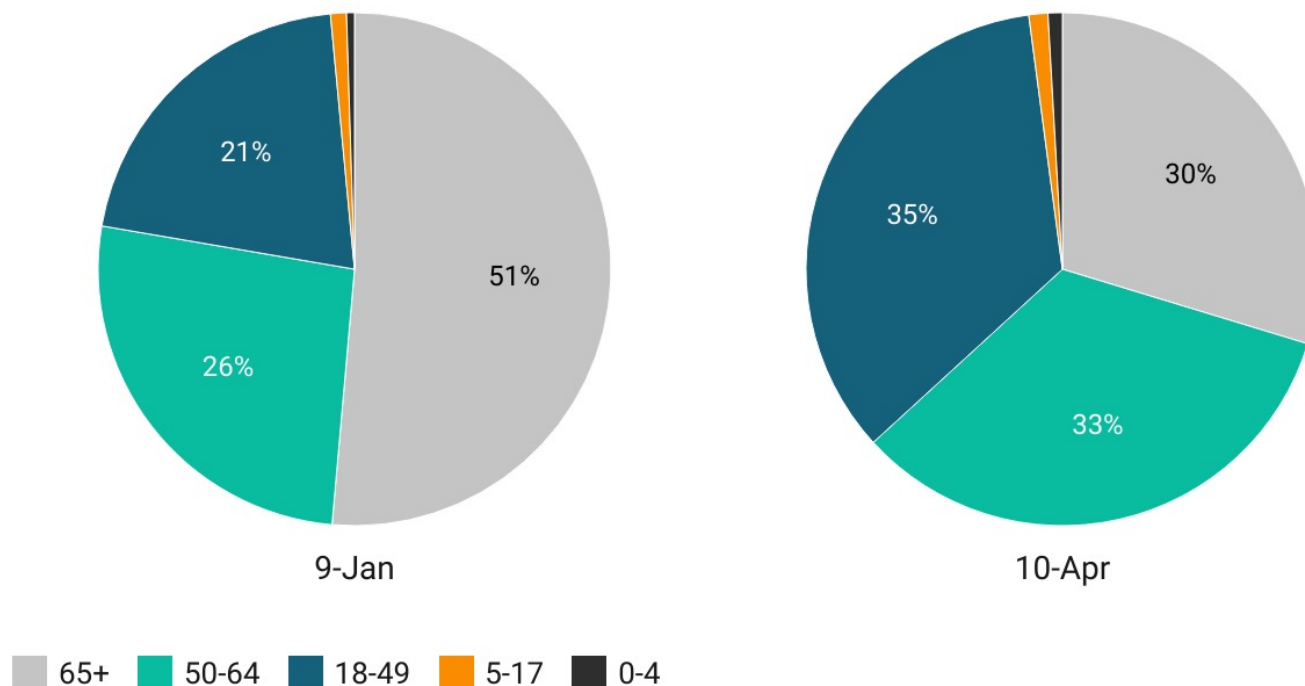


Chart: Health Industry Advisor LLC • Source: CDC • Created with Datawrapper

Covid-19 "Vital Signs"

Deaths With Coronavirus

Deaths with coronavirus (7-day average) have declined nearly 80% since a peak in late January. This rate is lower than it has been in nearly six months.

Deaths With Coronavirus

7-Day Average, Through April 18

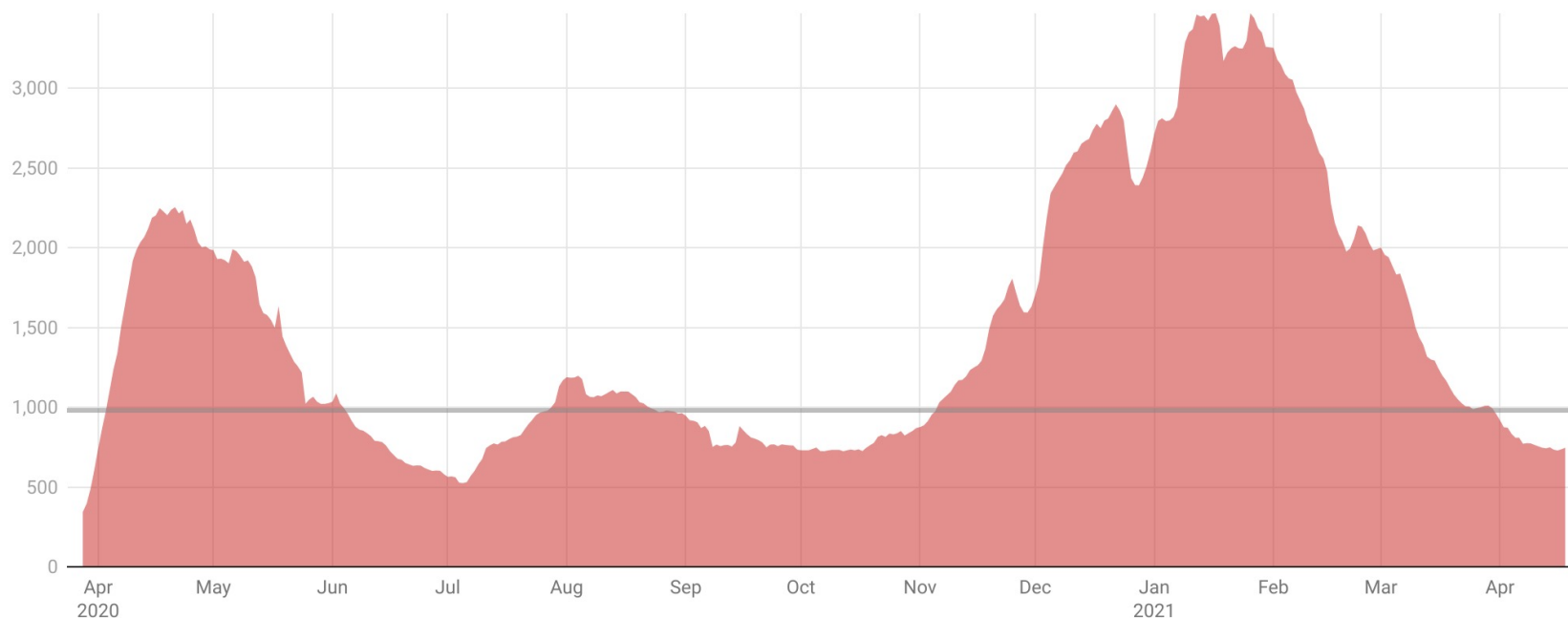


Chart: Health Industry Advisor LLC • Created with Datawrapper

Deaths Reported With Coronavirus

Deaths declined slightly week-over-week, after falling 10% and 17% the prior two weeks.

Daily Deaths Reported With Coronavirus

As of April 18

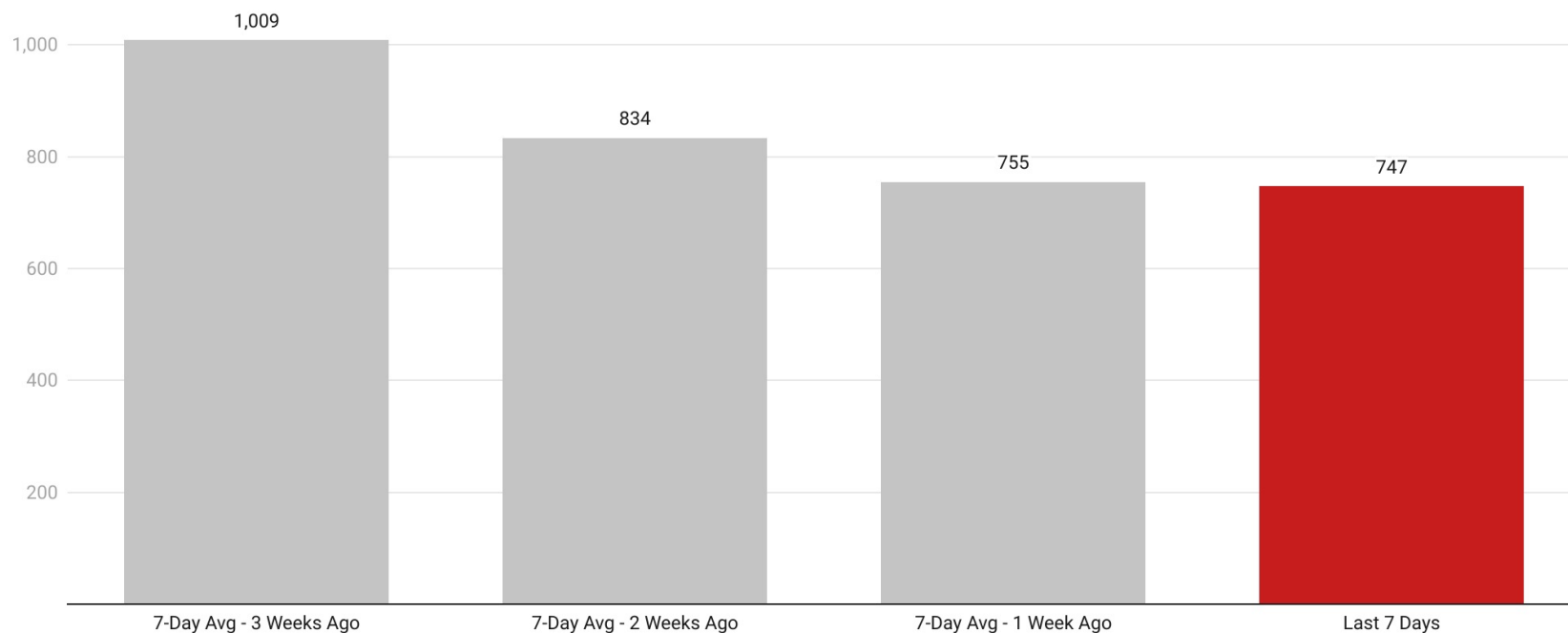


Chart: Health Industry Advisor LLC • Source: worldometer.info • Created with Datawrapper

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>