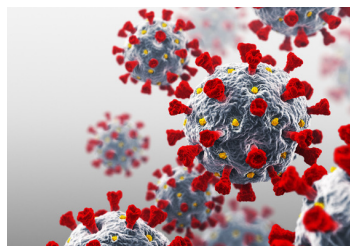


Covid-19 "Vital Signs"

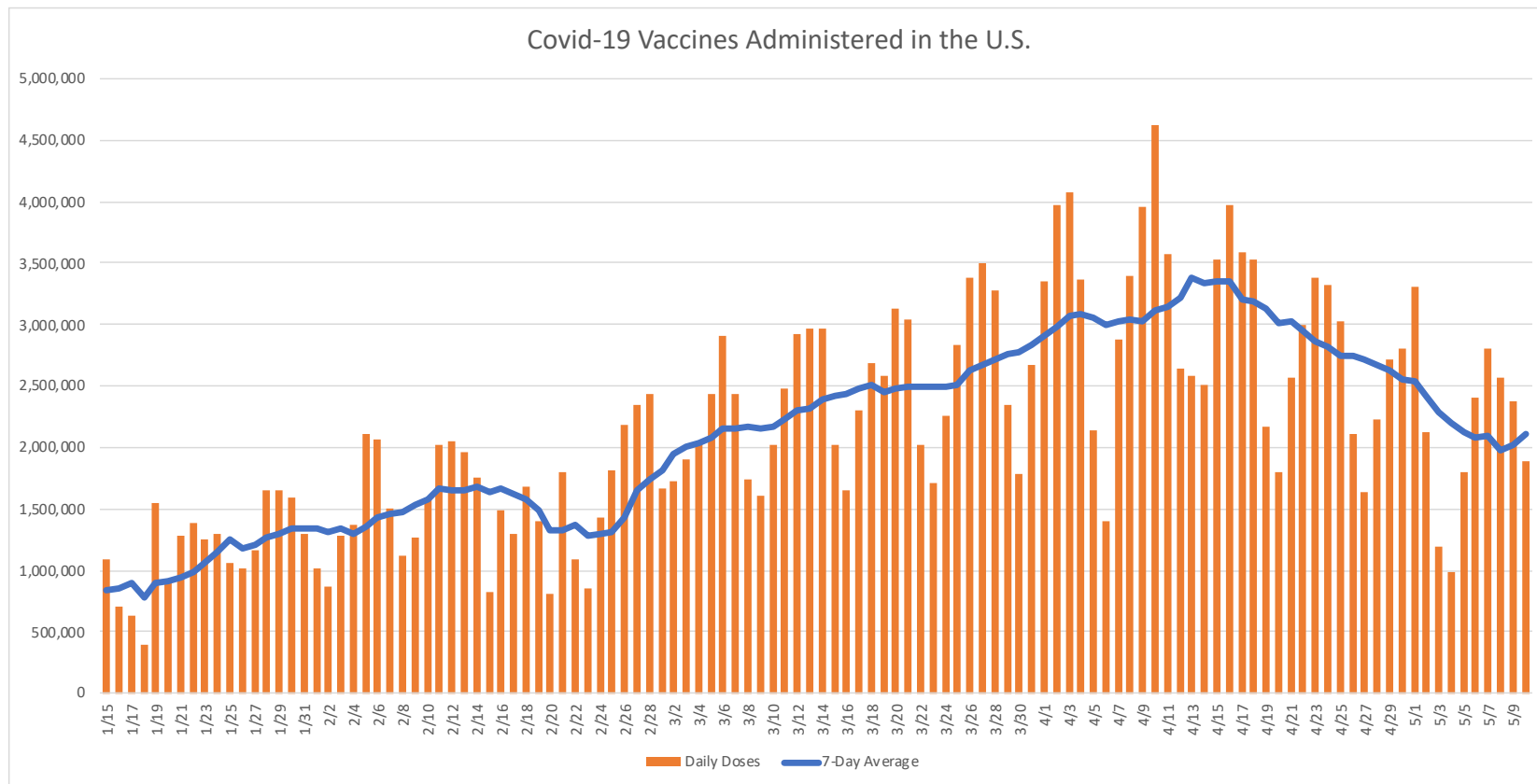
Issue # 332

May 11, 2021



Pace of Vaccinations

Vaccinations increased recently, following weeks of decline. The 7-day average rose to 2.1 million doses.



Covid-19 “Vital Signs”

Vaccine Tracking

To date, the US has distributed 330 million doses and administered 262 million. 114 million people are fully inoculated – 45% of the adult population. Another 33 million people have received the first of two required doses.

Vaccination Progress

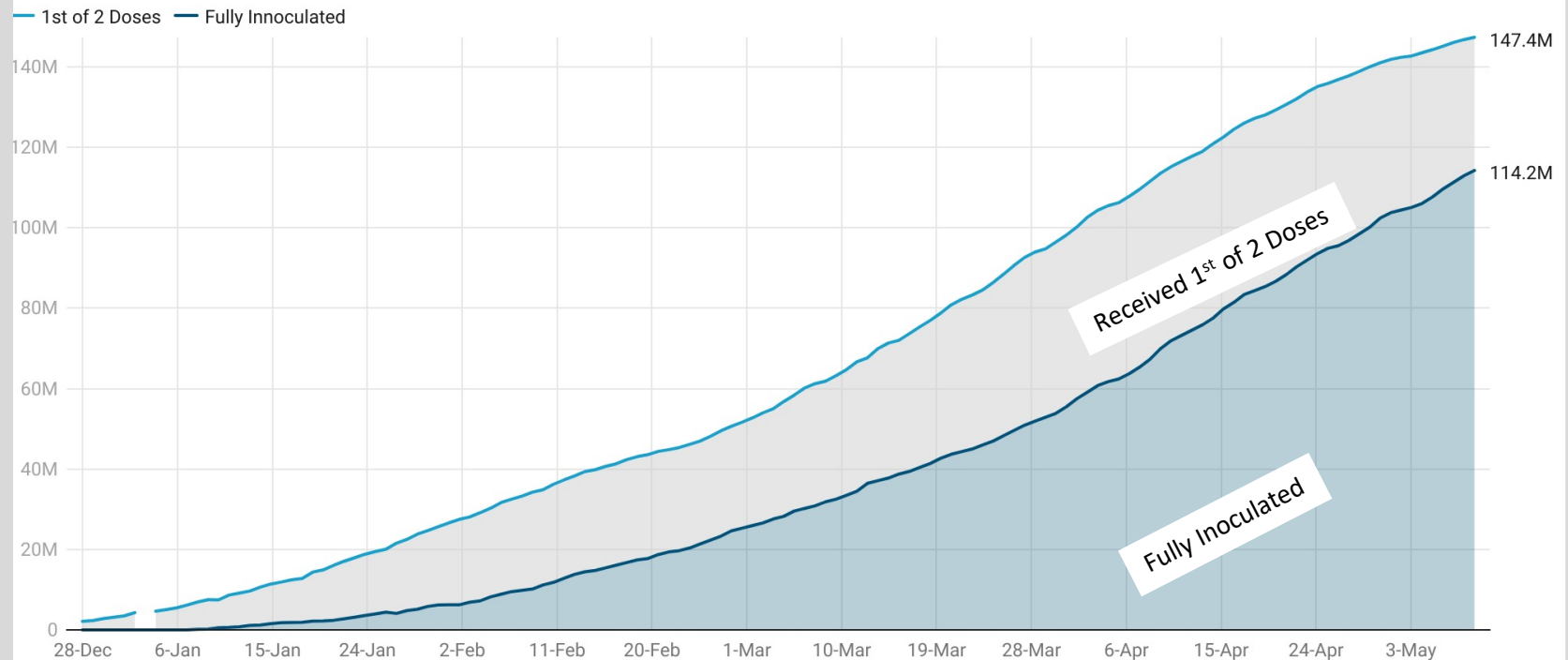


Chart: Health Industry Advisor LLC • Source: CDC, Bloomberg • Created with Datawrapper

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

Vaccination Status By Age

84% of seniors are participating in the vaccination process; 72% are fully vaccinated. Half of younger adults have received at least one shot; 37% are fully vaccinated. Half of younger adults have received at least one shot; 37% are fully vaccinated..

Vaccination Status By Age

As of May 9

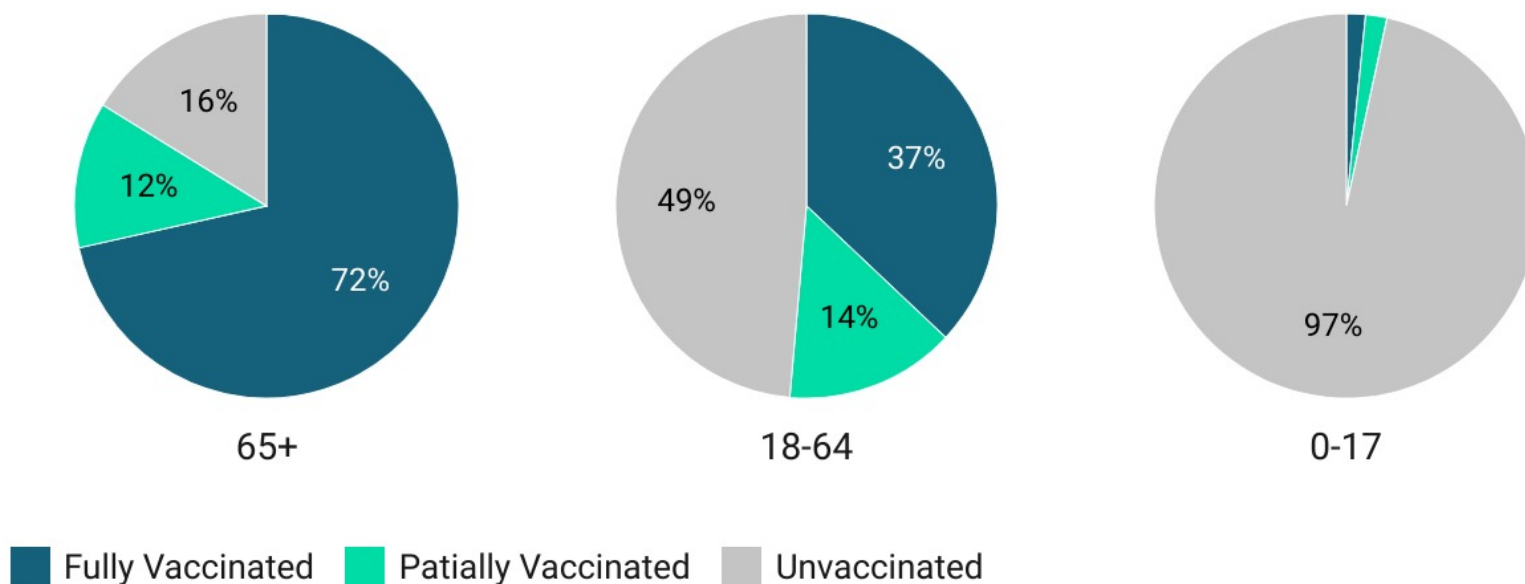


Chart: Health Industry Advisor LLC • Source: CDC • Created with Datawrapper

Covid-19 "Vital Signs"

Vaccine Tracking - % of Adult Population Vaccinated

Hawaii, Massachusetts, and Vermont are the first states to have begun vaccinating 70+% of the population. Connecticut, Maine, and New Jersey have fully inoculated 55+% of the population.

Vaccinations of Adult Population

% Receiving 1 or 2 doses, as of May 10

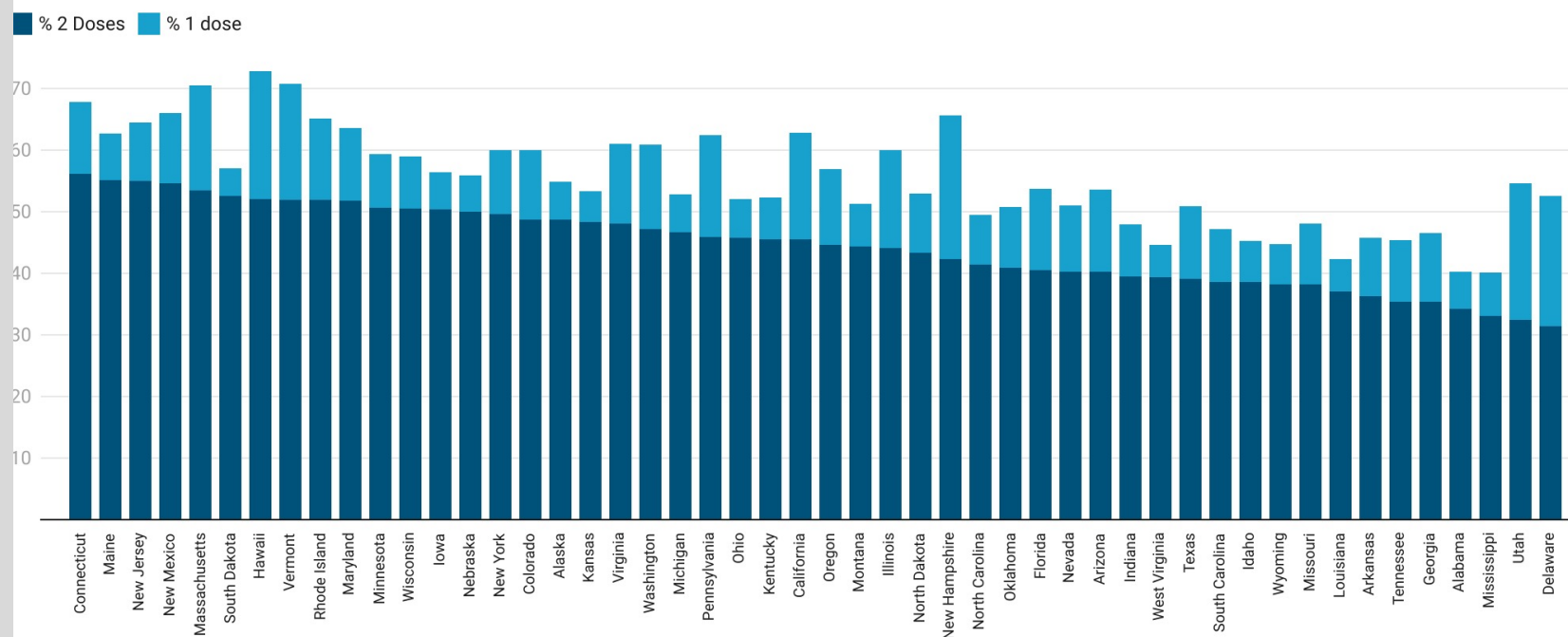


Chart: Health Industry Advisor LLC • Source: CDC, Bloomberg • Created with Datawrapper

Covid-19 "Vital Signs"

Pace of Worldwide Vaccinations

Among large countries, Israel, Chile, and the UAE are pacing the world in vaccinating residents. The United Kingdom and the United States rank twelfth and thirteenth respectively among all nations.

Doses Per 100 Persons - 25 Highest Country Rates

Most Recent Data, As of May 9

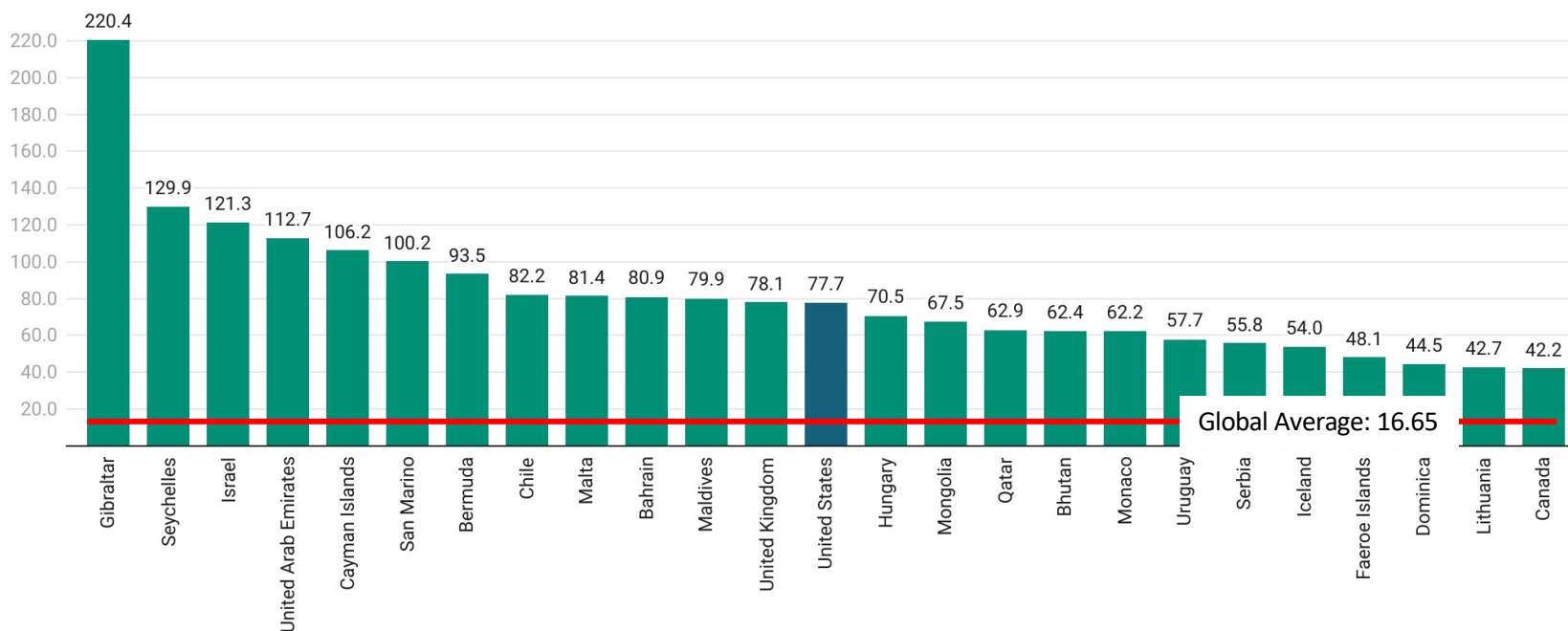


Chart: Health Industry Advisor LLC • Source: Our World In Data • Created with Datawrapper

<https://ourworldindata.org/covid-vaccinations>

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 May 9

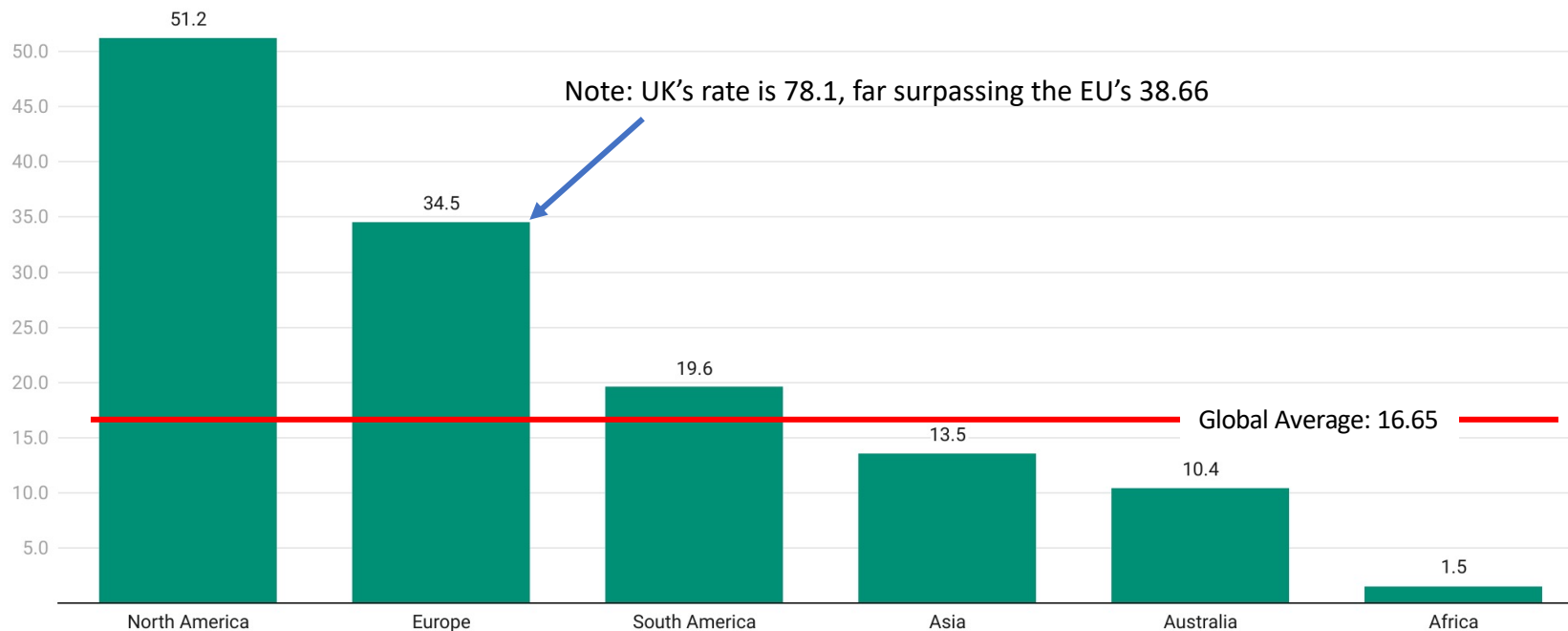


Chart: Health Industry Advisor LLC • Source: Our World In Data • Created with Datawrapper

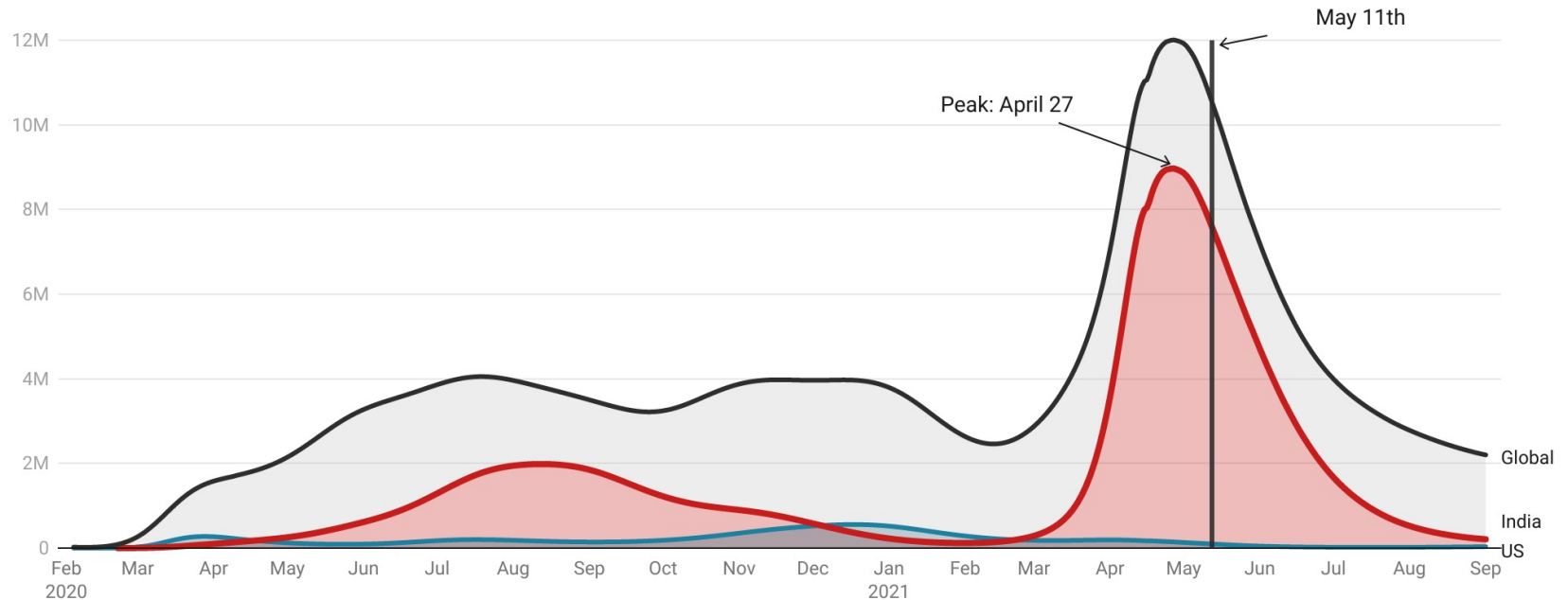
Covid-19 "Vital Signs"

Estimated Infections - IHME Projection

Estimated daily infections appear to have peaked globally and in India in particular, based on the latest IHME model. India's daily estimated infections topped out at nine million on April 27th.

New Daily Infections

Global, India & United States



Based on IHME's May 6th Model

Chart: Health Industry Advisor LLC • Source: Institute For Health Metrics and Evaluation • Created with Datawrapper

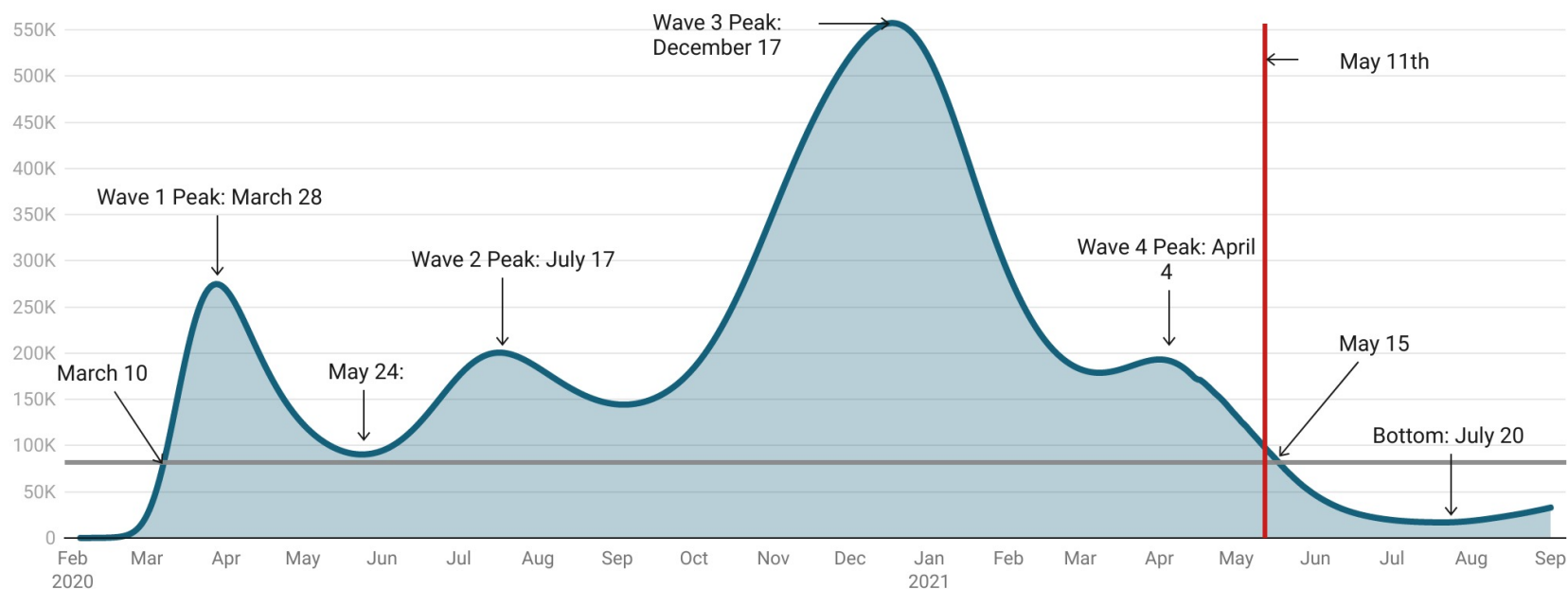
Covid-19 "Vital Signs"

Estimated Infections IHME Projection

Estimated daily infections in the U.S. are expected to decline through July. By May 15, estimated new infections fall to the lowest point since March 10, 2020.

Estimated and Projected Infections

Institute For Health Metrics and Evaluation



Forecast Date: May 6th

Chart: Health Industry Advisor LLC • Source: Institute For Health Metrics and Evaluation • Created with Datawrapper

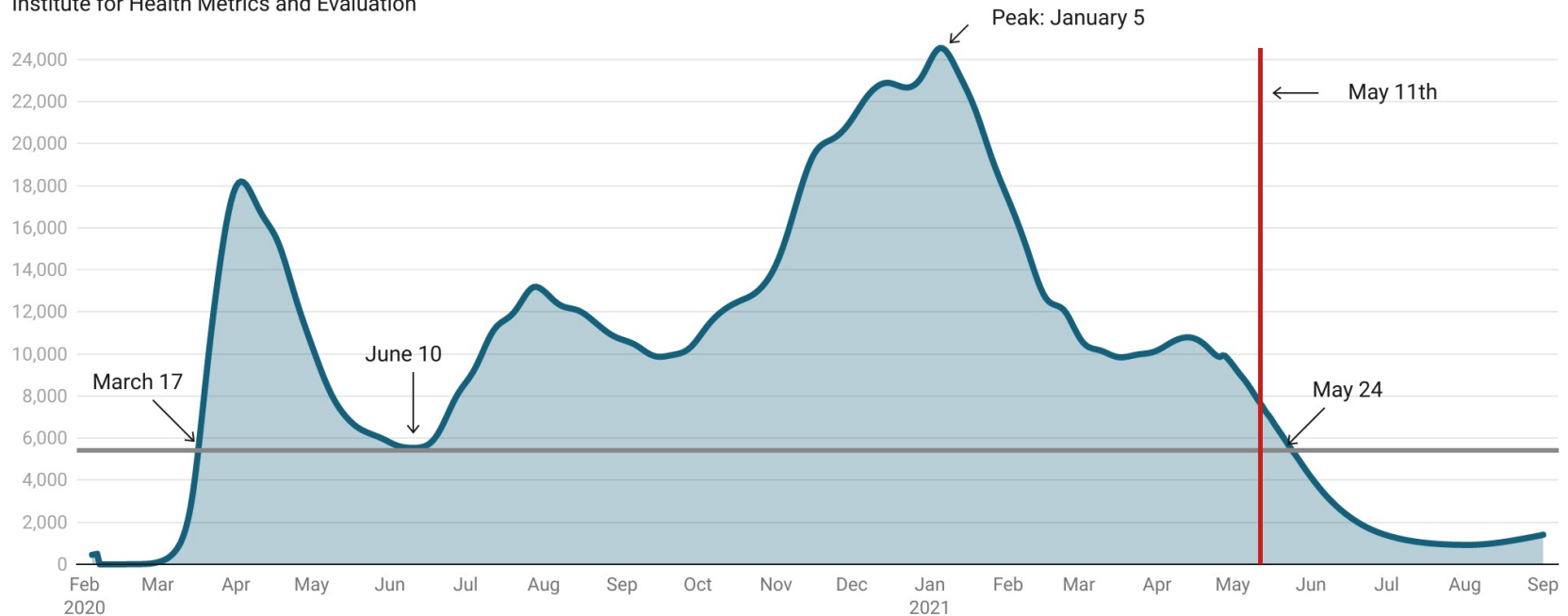
Covid-19 "Vital Signs"

Covid-19 Inpatient Admissions – IHME Projections

Projected Covid-19 admissions began declining weeks ago, according to the latest IHME model. By May 24th, projected admissions drop lower than at any time since mid-March 2020.

Estimated & Projected Hospital Covid-19 Admissions

Institute for Health Metrics and Evaluation



Forecast Date: May 6th

Chart: Health Industry Advisor LLC • Source: Institute for Health Metrics and Evaluation • Created with Datawrapper

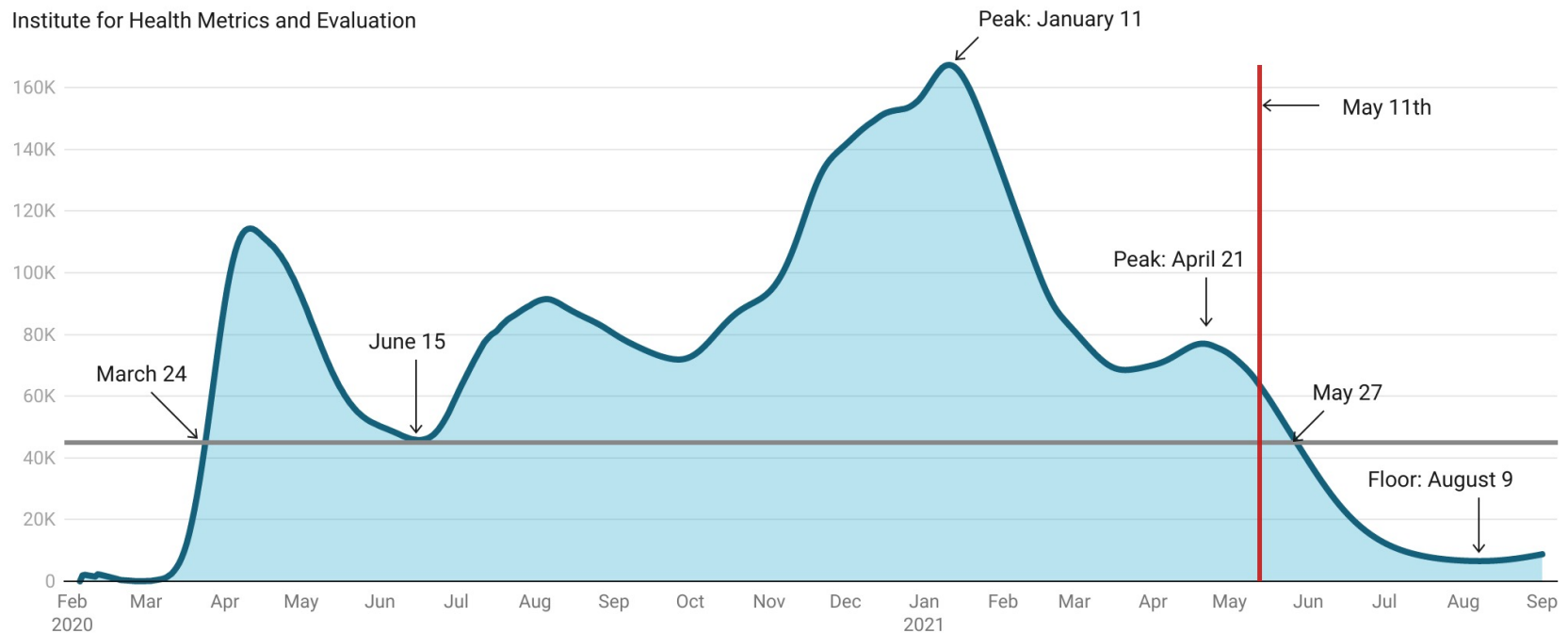
Covid-19 “Vital Signs”

Covid-19 Inpatient Census – IHME Projections

Projected Covid-19 admissions peaked nearly three weeks ago according to the latest IHME model. By May 27th, projected admissions drop lower than at any time since March, 24, 2020.

Estimated & Projected Hospital Covid-19 Inpatient Census

Institute for Health Metrics and Evaluation



Forecast Date: May 6th

Chart: Health Industry Advisor LLC • Source: Institute for Health Metrics and Evaluation • Created with Datawrapper

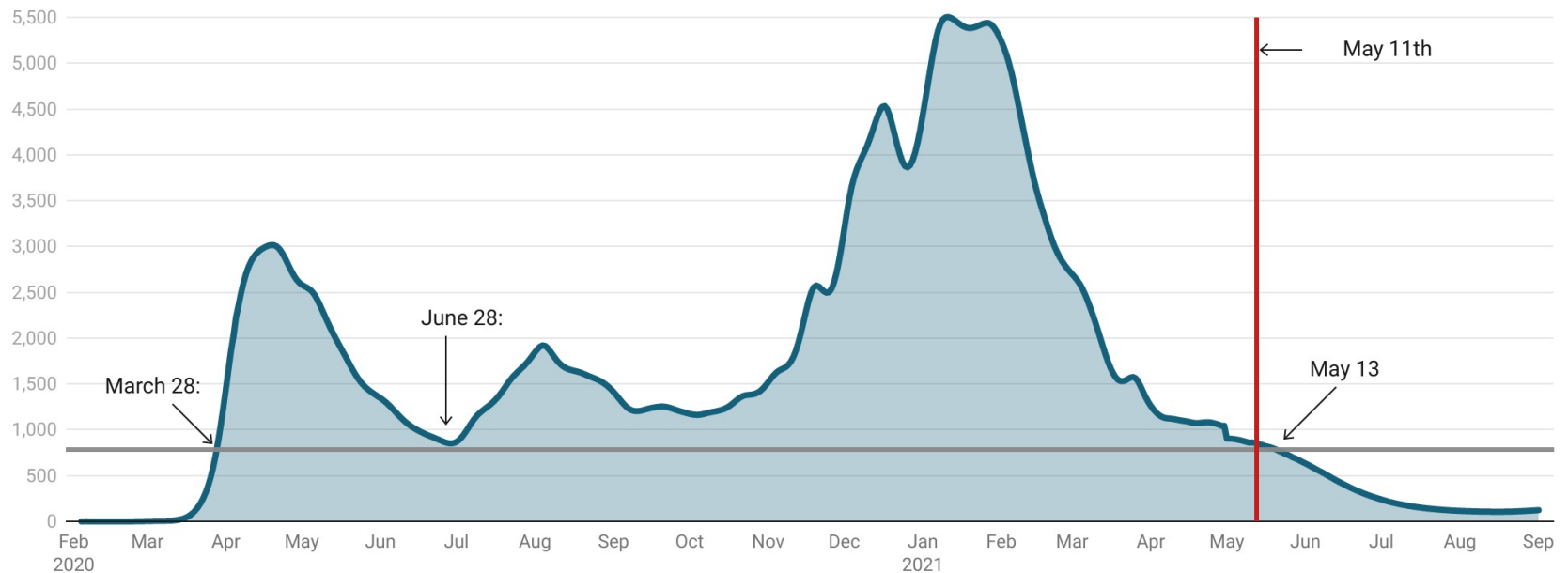
Covid-19 "Vital Signs"

Deaths With Covid-19: IHME Projection

By Thursday, projected Covid-19 deaths fall lower than at any time since the last week in March 2020.

Estimated & Projected Deaths With Covid-19

Institute for Health Metrics and Evaluation



Forecast Date: May 6th

Chart: Health Industry Advisor LLC • Source: Institute for Health Metrics and Evaluation • Created with Datawrapper

Covid-19 "Vital Signs"

Newly Detected Cases Per Day

In the US, 7-day new case rate declined 21% week-over-week and 42% over the last three weeks. Outside the U.S., cases declined 3% week-over-week, after spiking for several weeks.

Newly Detected Cases

As of May 10

■ United States ■ Outside the US

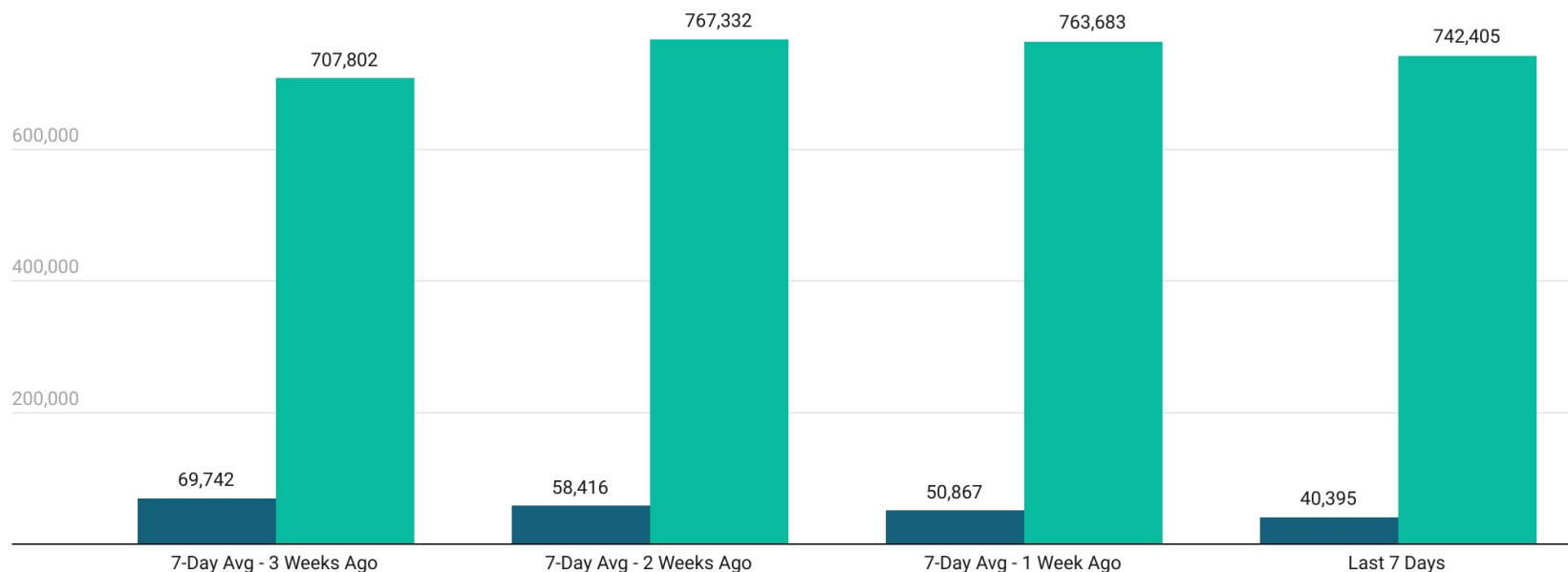


Chart: Health Industry Advisor LLC • Source: The Atlantic • Created with Datawrapper

Covid-19 "Vital Signs"

Week-Over-Week Changes in New Cases

*New cases in the U.S. have been declining at a faster rate each day.
Worldwide, new cases have been trending down for ten straight days.*

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

7-Day Moving Average, As of May 6

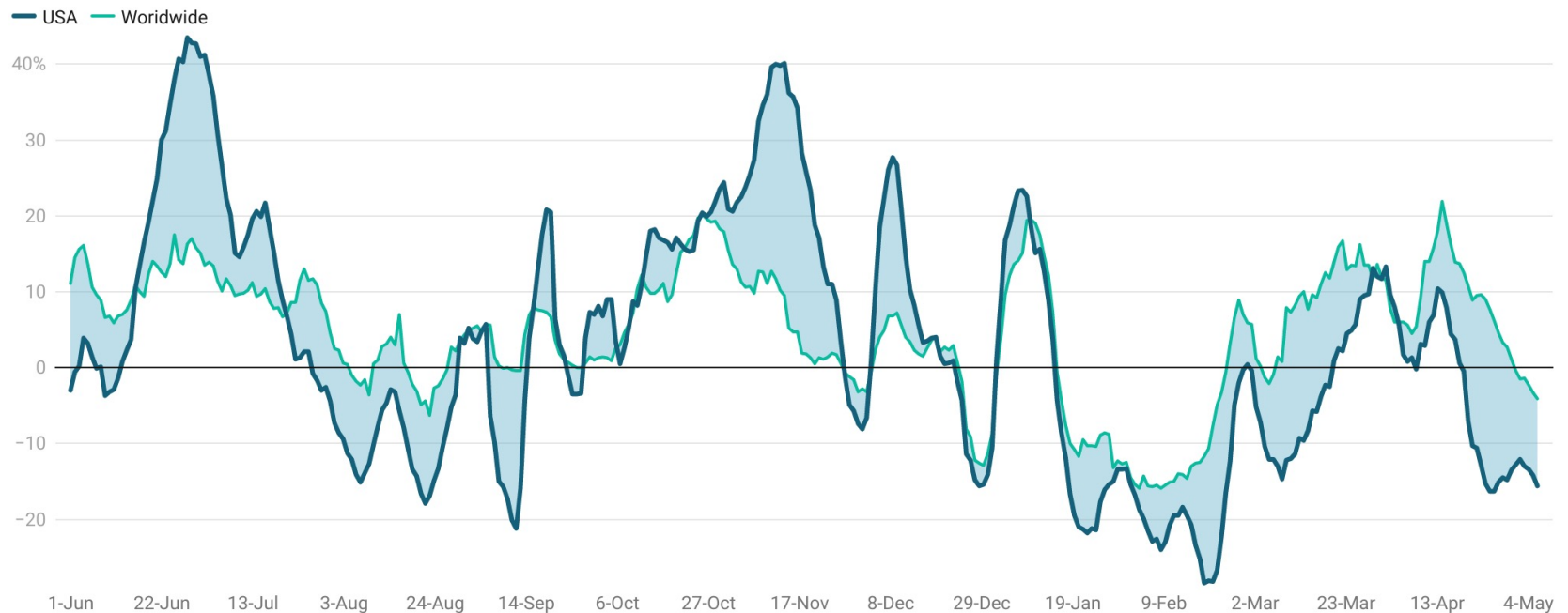


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

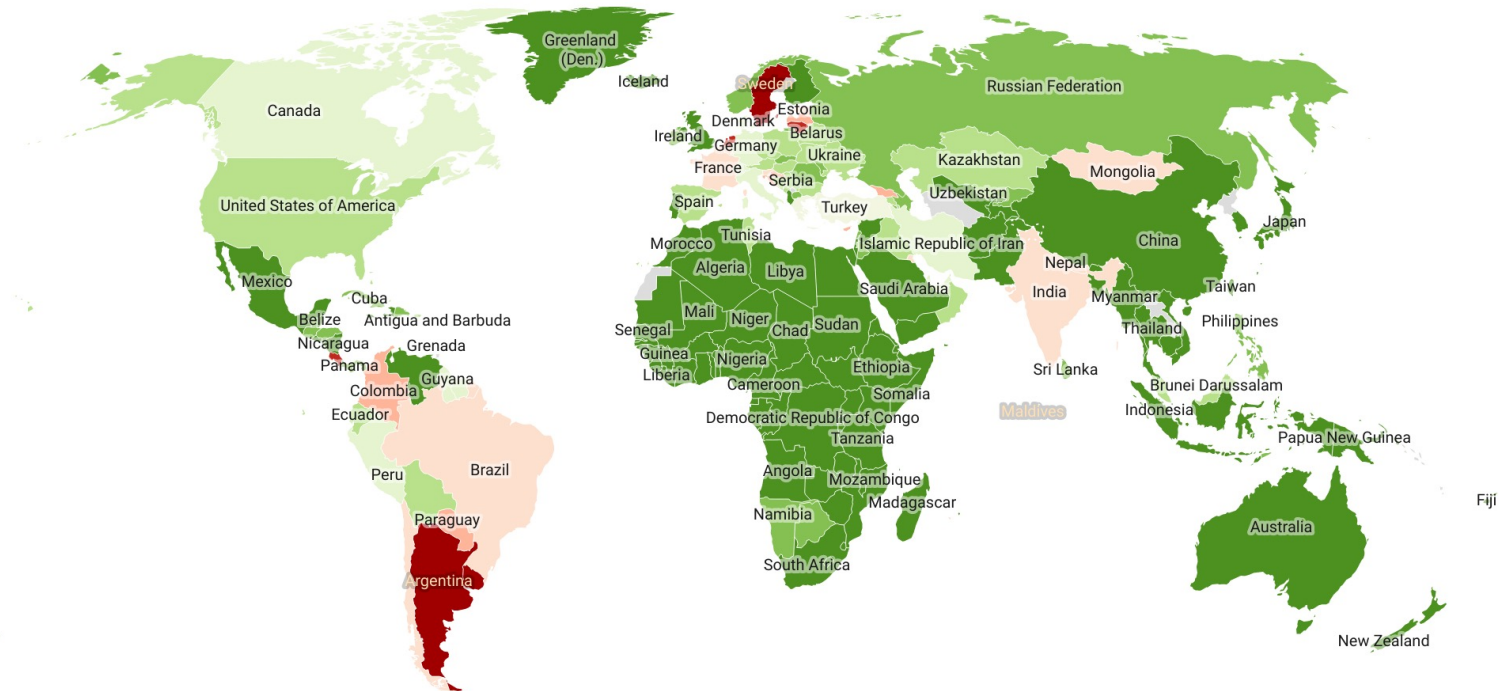
Newly Detected Cases / Million

New case rate per capita are high in parts of Europe and South America.

New Infections / Million

7-Day Moving Average, As of May 10

■ < 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

Highest Current Infection Rates Worldwide

New Daily Cases / Million - Twenty Highest Countries of 500k+ Population

7-Day Average, As of May 10

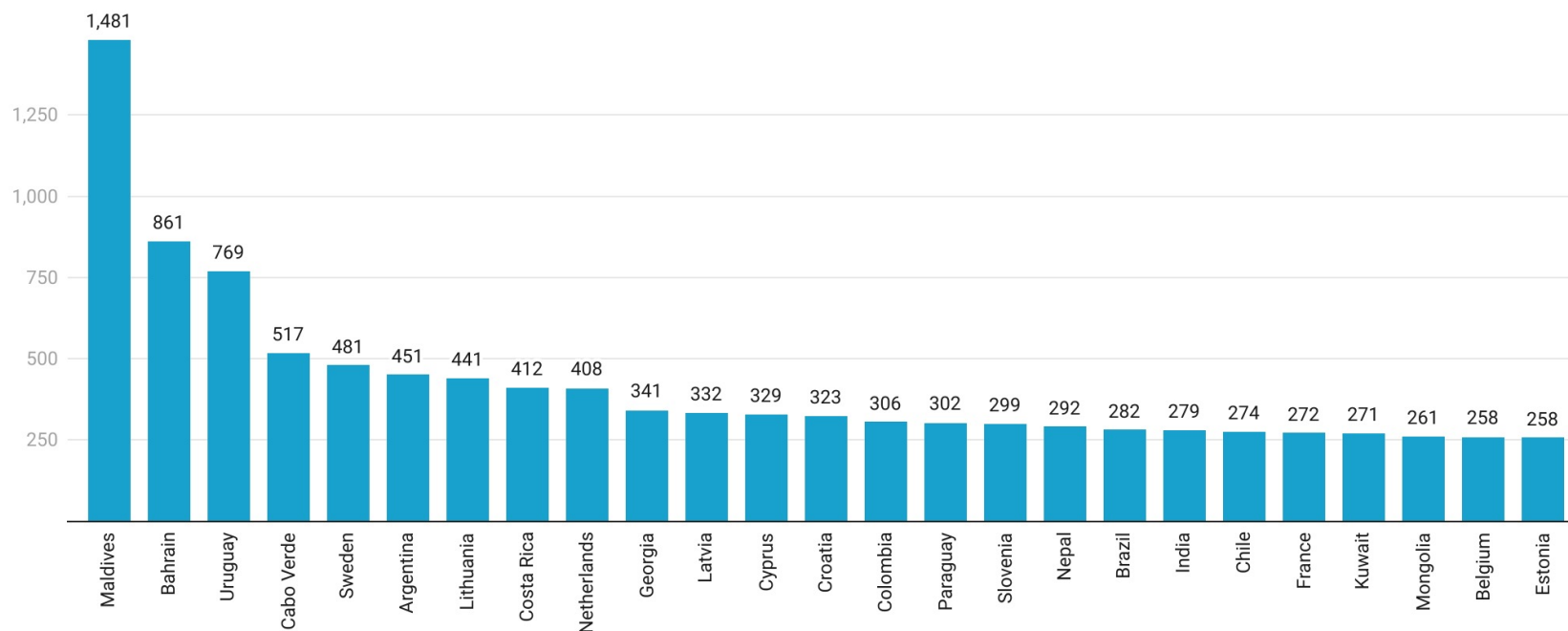


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Largest Change in Infection Rates in Last Two Weeks

Biggest Movers - Change in New Cases/M Past Two Weeks

7-Day Average, Countries > 500k Population

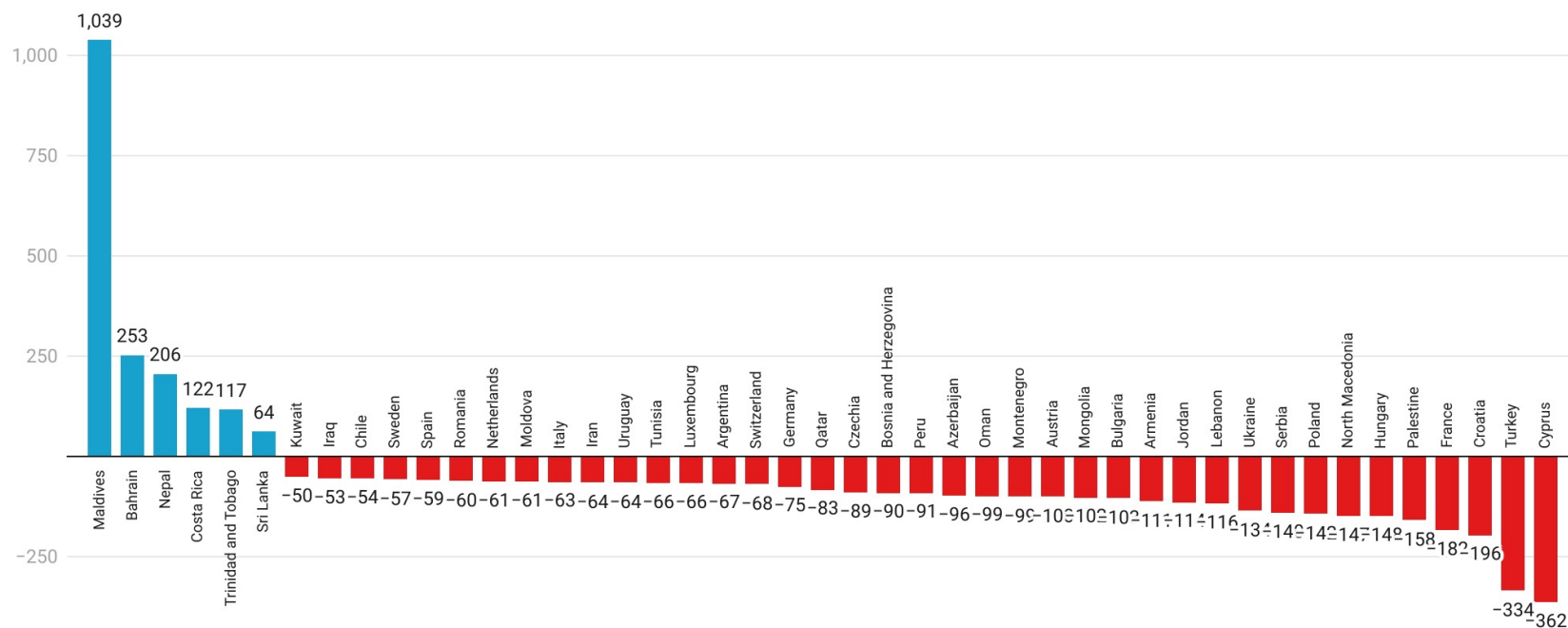


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

Case Trends – Select Countries of Interest

Turkey has seen strong improvement in the past two weeks. India may be seeing a leveling or decline in newly reported cases.

Newly Detected Cases Per Million

7-Day Moving Average

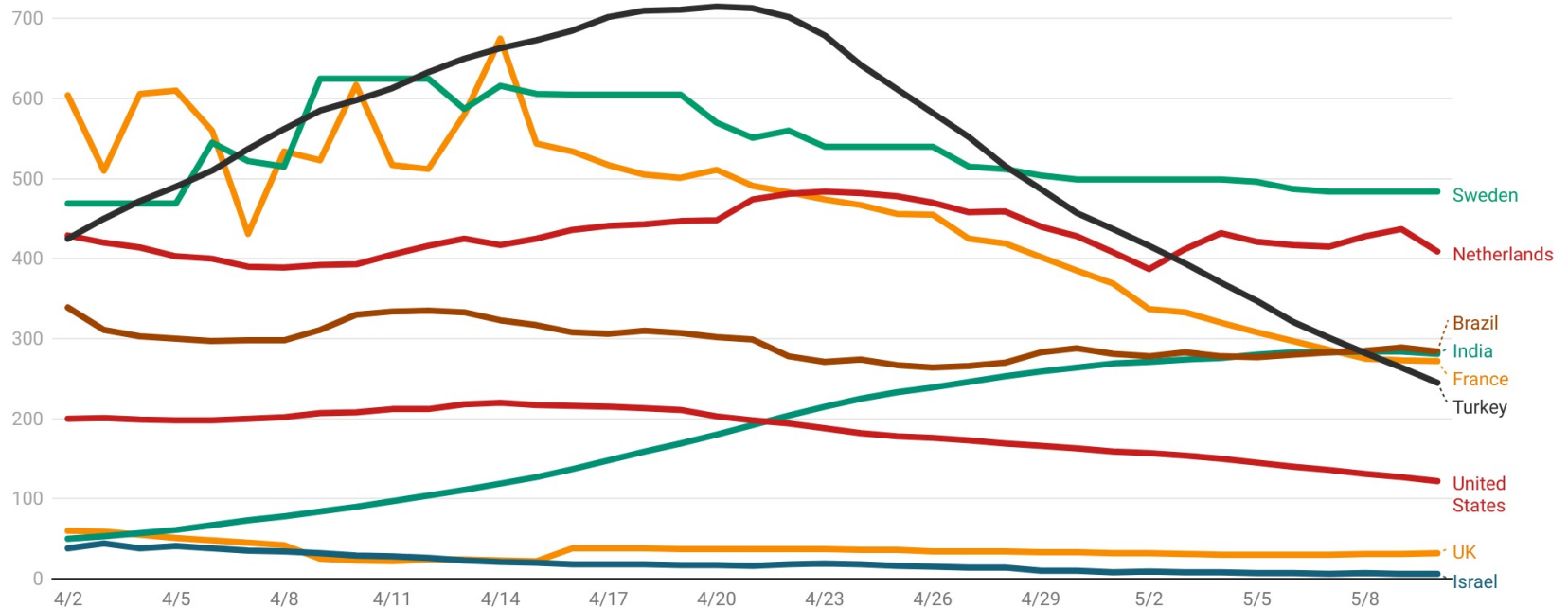


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

Newly Detected Cases / Million - US

The U.S. 7-day new case rate declined for the twenty-sixth straight day, dropping to 12 per million. This rate is lower than it has been since September 15..

Newly-Detected Cases / Million

7-Day Average

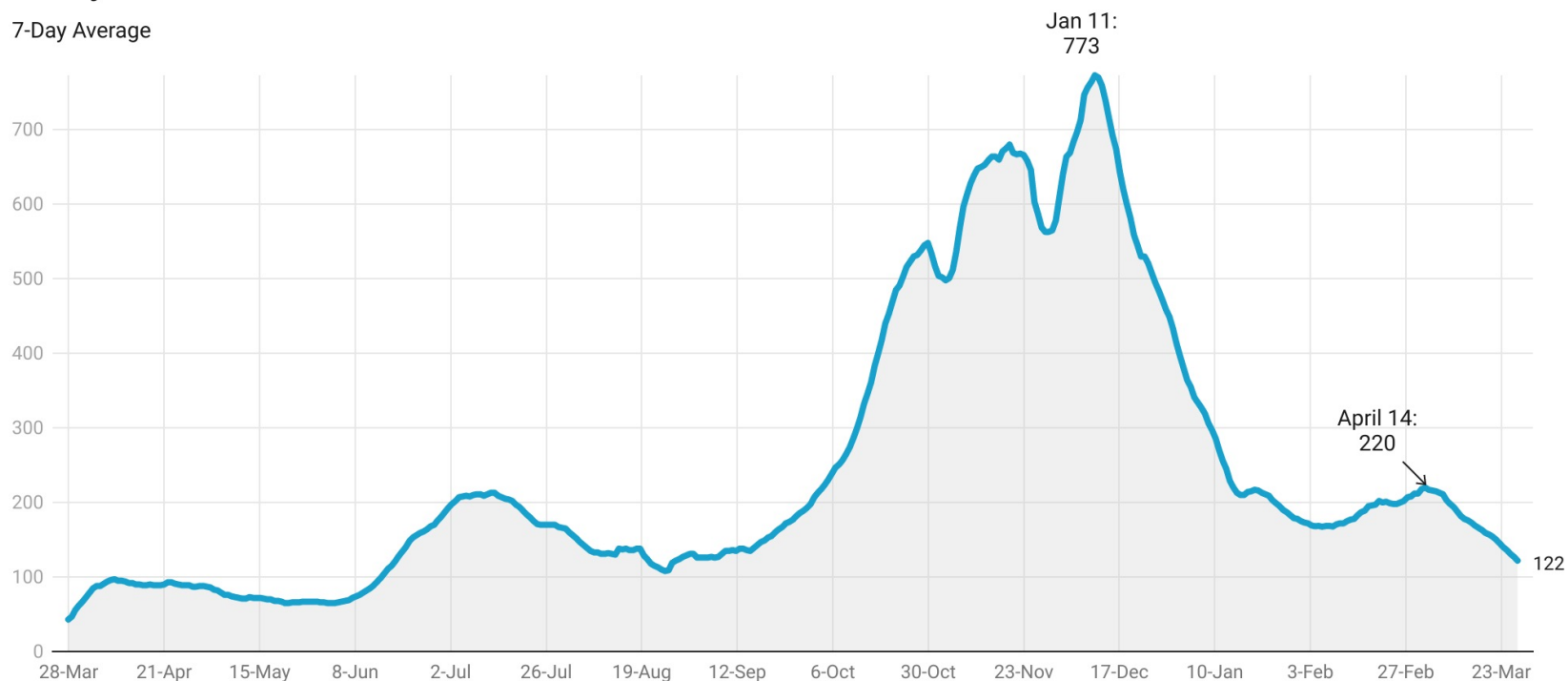


Chart: Health Industry Advisor LLC • Created with Datawrapper

Covid-19 "Vital Signs"

Estimated Daily Infections & New Case Rates

Estimated infections have dropped to the lowest level since last March when the national emergency was declared. Detected cases have dropped to levels seen for only seven days since July.

Estimated Daily Infections v. Detected Cases

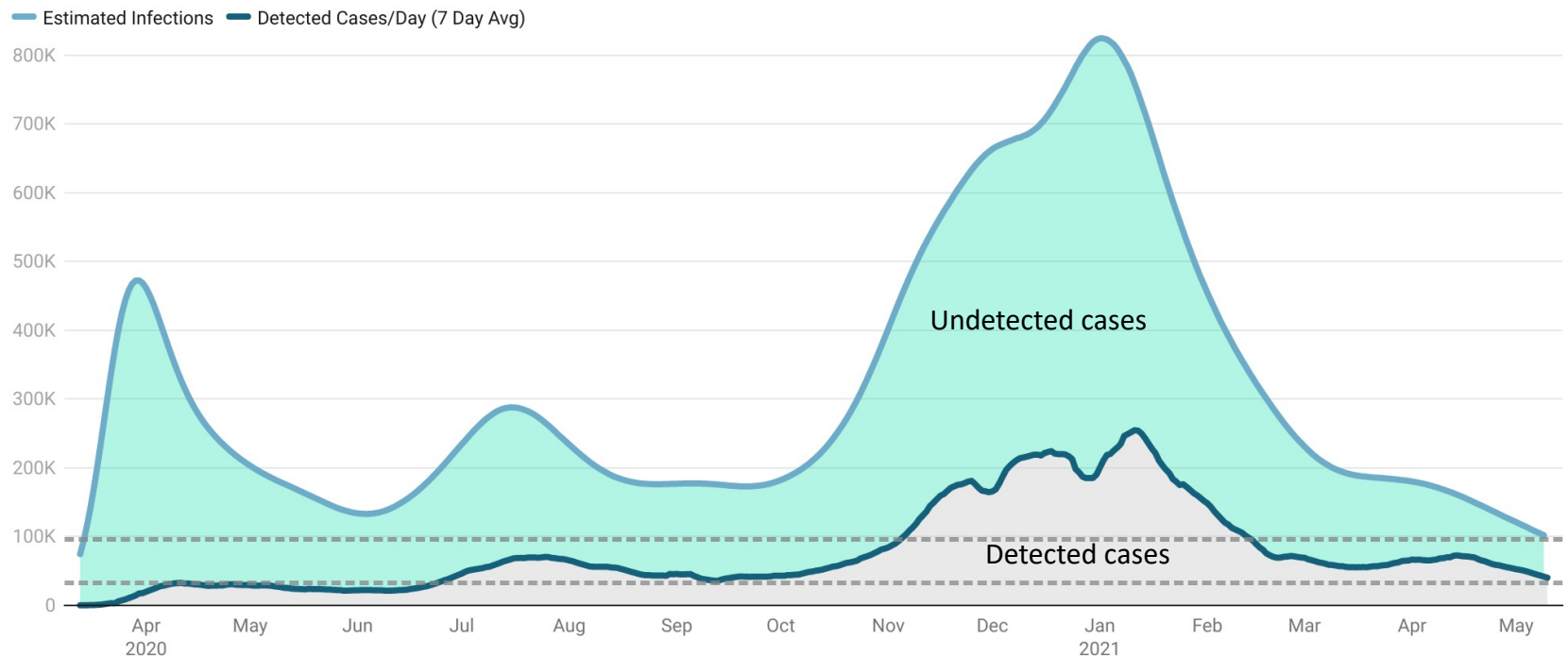


Chart: Health Industry Advisor LLC • Source: Yale School of Public Health • Created with Datawrapper

Test-Positivity Rate

The test-positivity rate dropped below the suggested WHO target and continues to trend downward.

Test-Positivity Rate

As of May 3

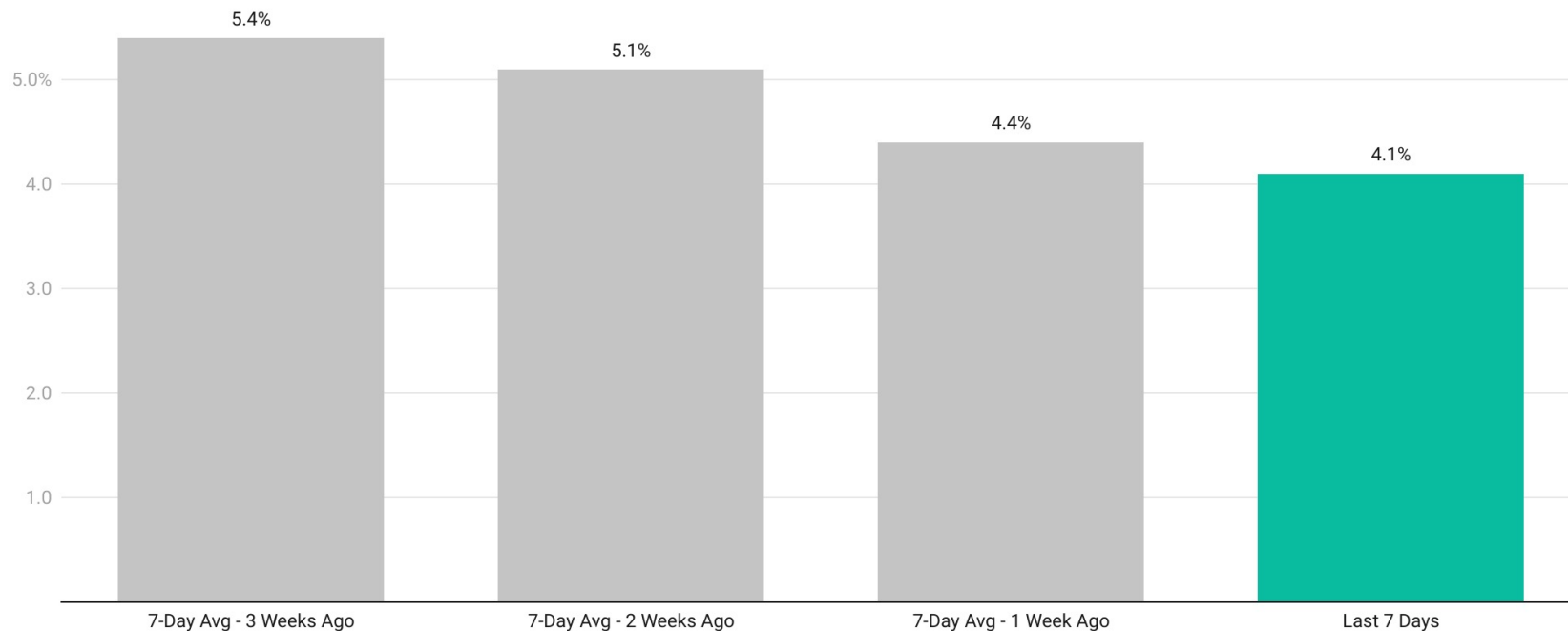


Chart: Health Industry Advisor LLC • Source: The Atlantic • Created with Datawrapper

Covid-19 "Vital Signs"

Covid-19 Hospital Census – Distribution By Age

As vaccinations have taken effect, senior citizens now represent a smaller share of inpatient Covid-19 patients than both young and middle-aged adults.

Hospitalized Covid-19 Patients By Age (%)

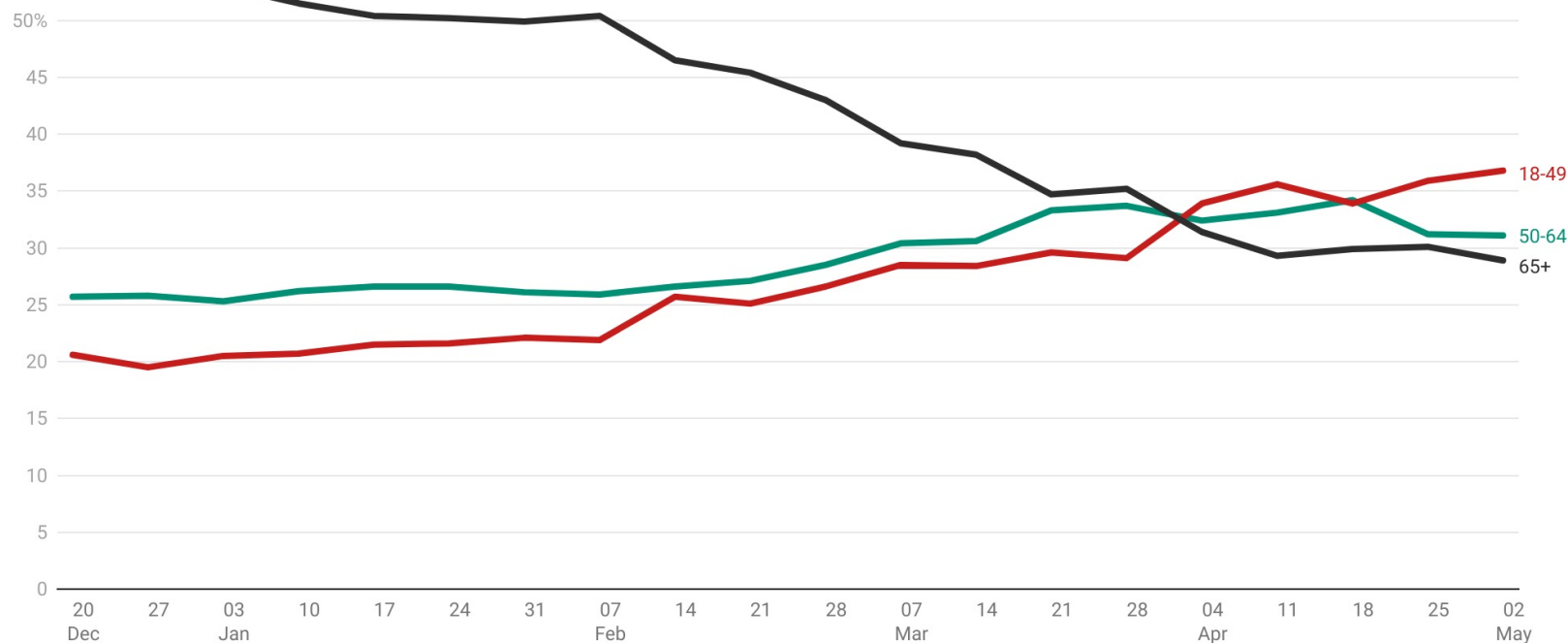


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

Test-Positivity Rate

The 7-day test-positivity rate remains below the target set by the World Health Organization.

Test-Positivity Rate

7-Day Average, Through May 3

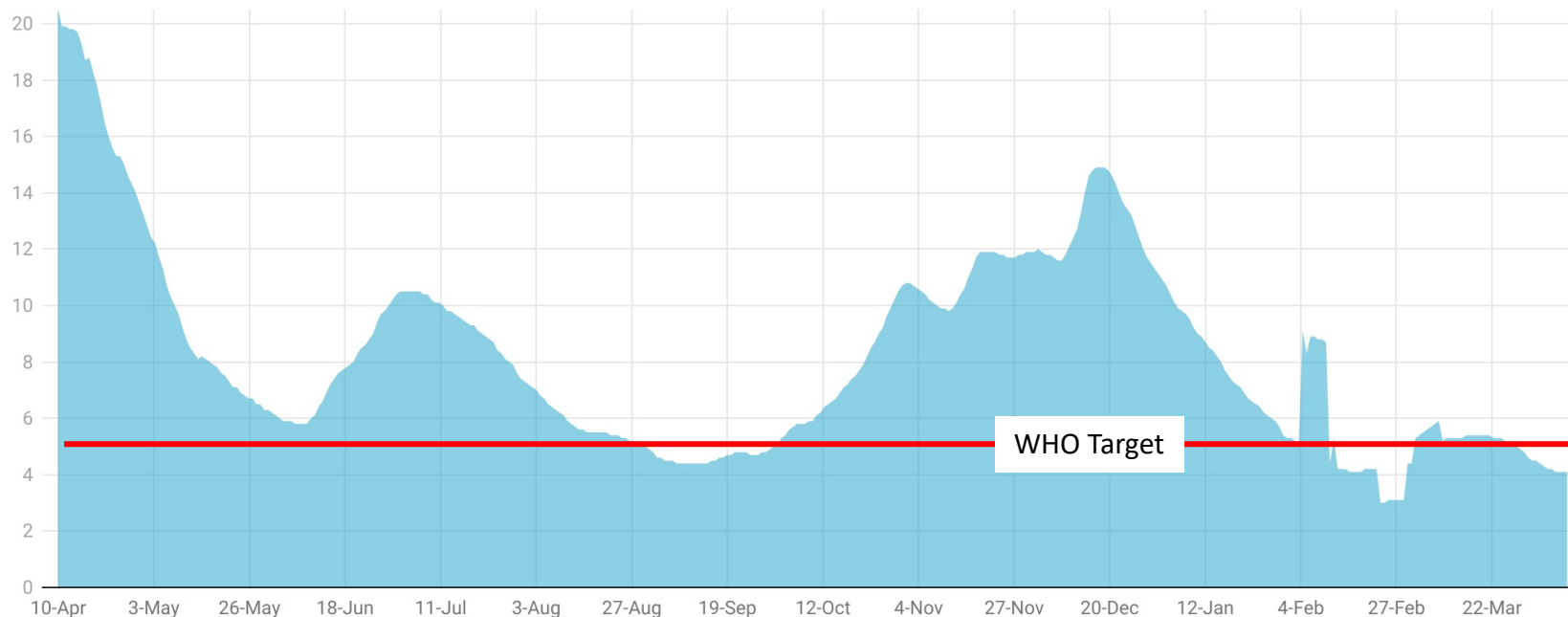


Chart: Health Industry advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Covid-19 Inpatient Census

Covid-19 inpatient census has declined 19% in the last three weeks.

Hospitalized Covid-19 Patients

Compared to Same Day, Prior Weeks

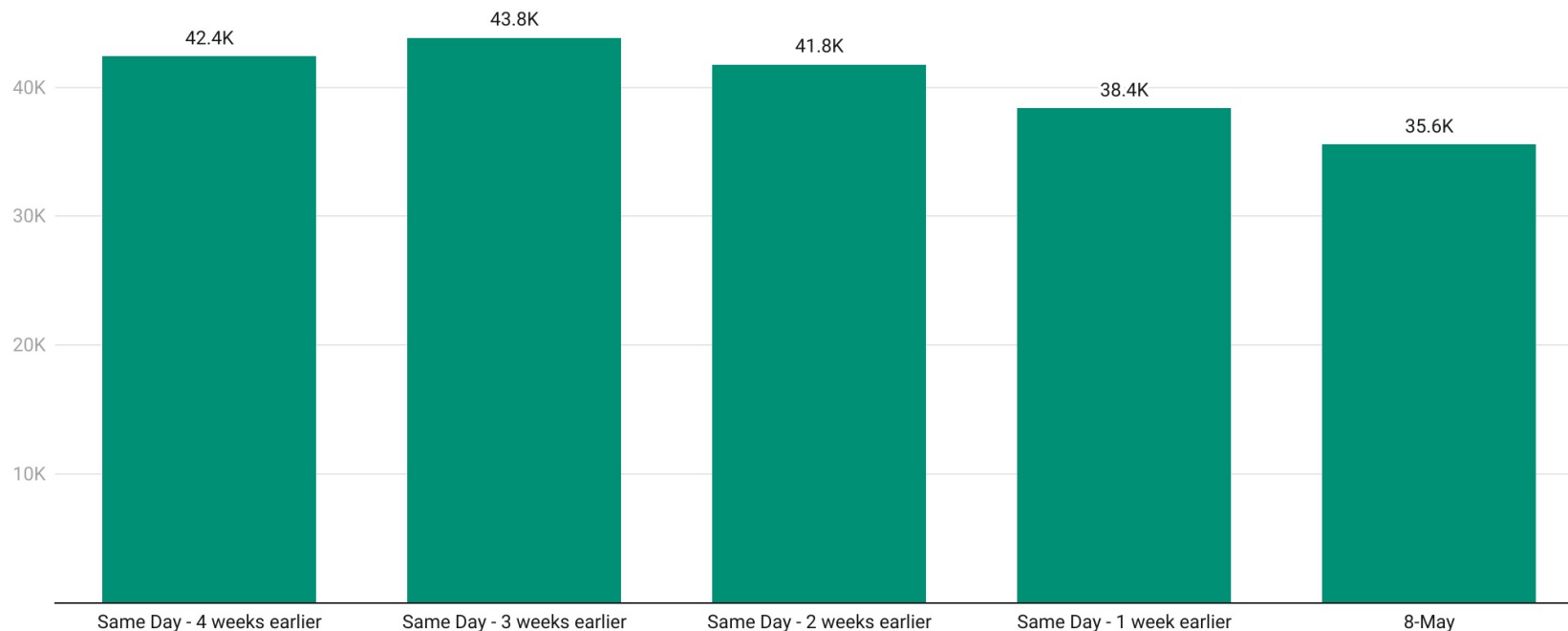


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Covid-19 Inpatient Census

Covid-19 inpatient census has dropped to levels unseen since last October.

Covid-19 Inpatient Census

Through May 8

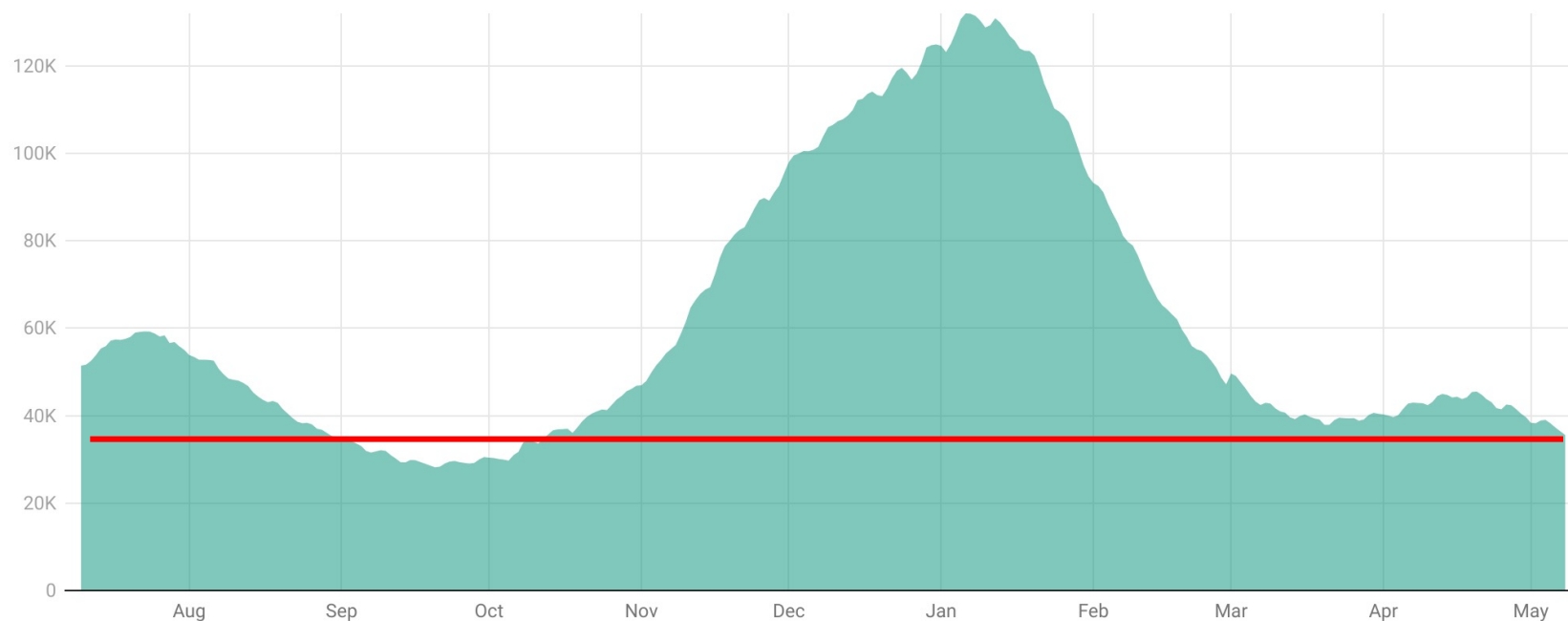


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Deaths Reported With Coronavirus

The 7-day death rate declined 11% in the last three weeks.

Daily Deaths Reported With Coronavirus

As of May 6

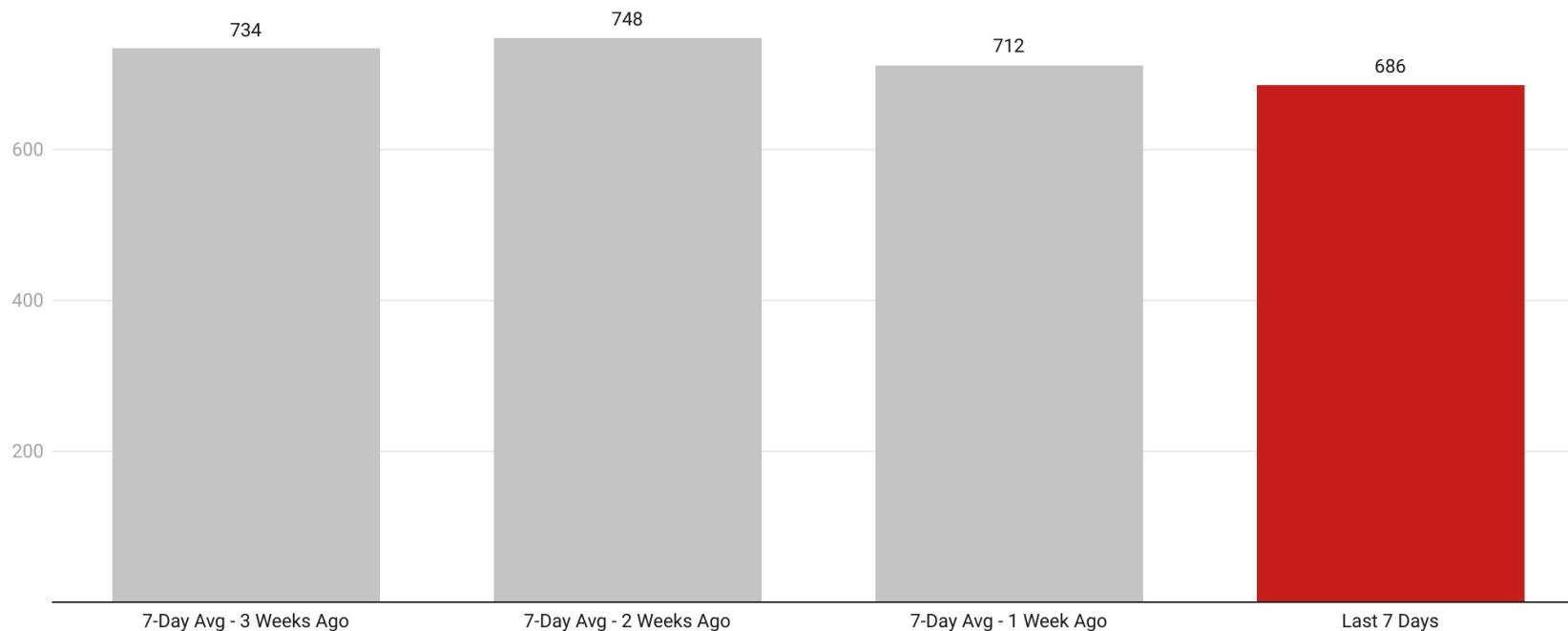


Chart: Health Industry Advisor LLC • Source: worldometer.info • Created with Datawrapper

Deaths With Coronavirus

Deaths with coronavirus (7-day average) is lower than it has been in ten months.

Deaths With Coronavirus

7-Day Average, Through May 10

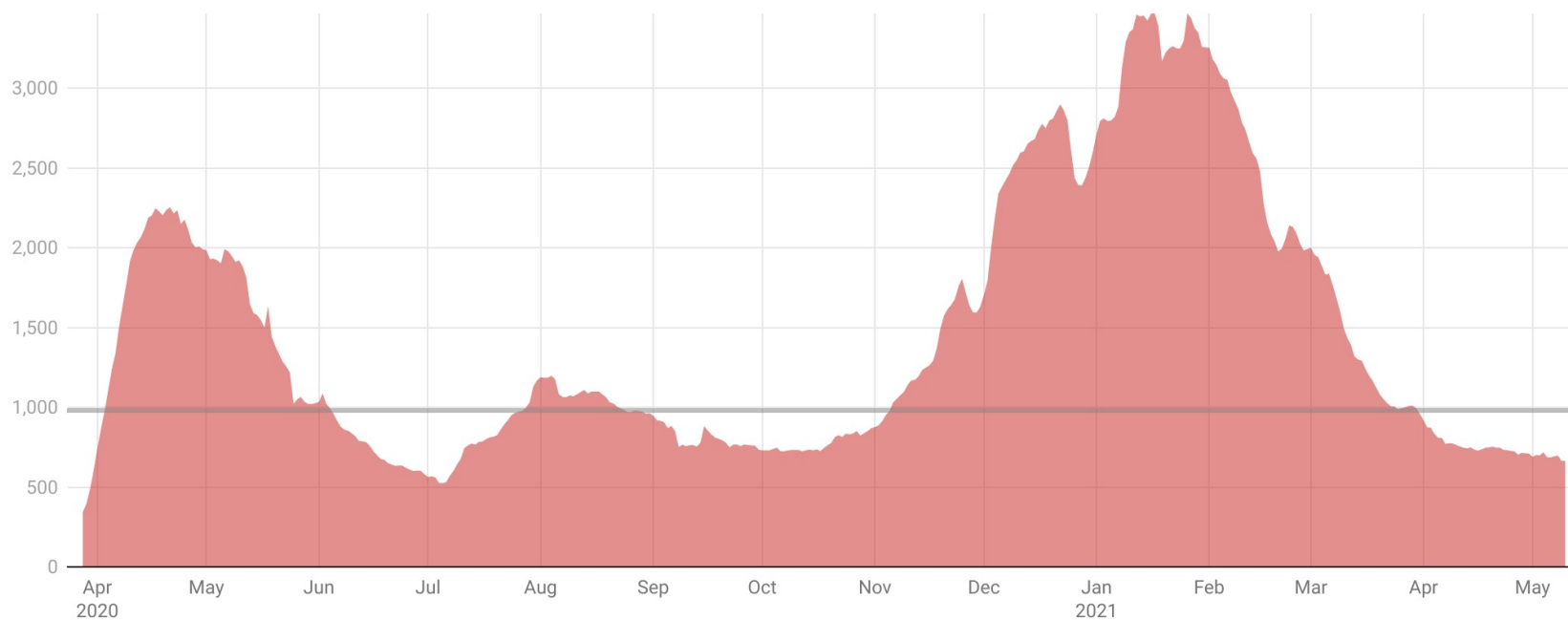


Chart: Health Industry Advisor LLC • Created with Datawrapper

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>