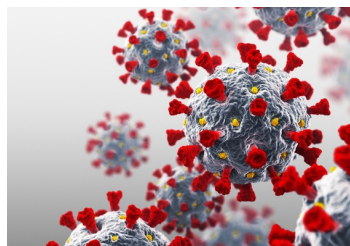


## Covid-19 "Vital Signs"

Issue # 335

May 18, 2021



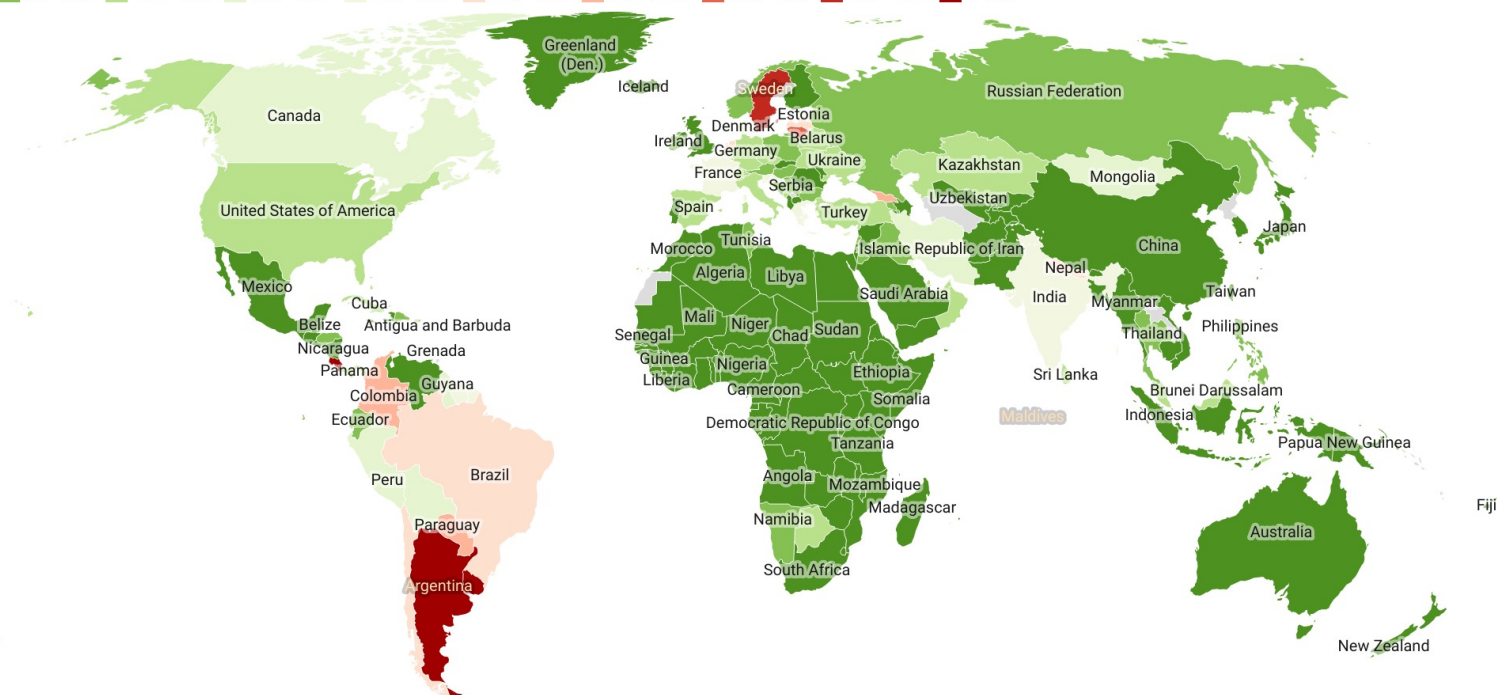
## Newly Detected Cases / Million

*New case rate per capita are highest in parts of South America.*

### New Infections / Million

7-Day Moving Average, As of May 17

■ < 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

## Covid-19 "Vital Signs"

# Newly Detected Cases Per Day

*In the US, 7-day new case rate declined 21% week-over-week and 45% over the last three weeks. Outside the U.S., cases increased 1% week-over-week et declined 2% over the past three weeks.*

## Newly Detected Cases

As of May 17

■ United States ■ Outside the US

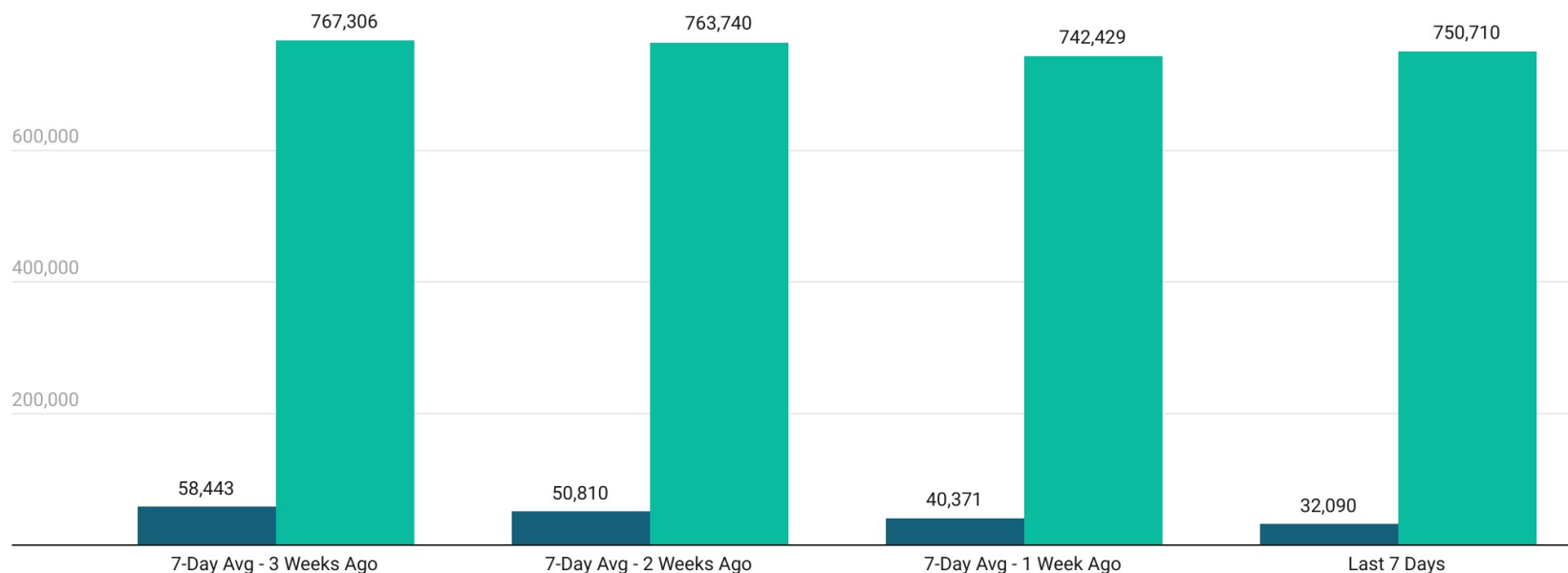


Chart: Health Industry Advisor LLC • Source: The Atlantic • Created with Datawrapper

## Covid-19 "Vital Signs"

# Week-Over-Week Changes in New Cases

*New cases in the U.S. continue to decline each day. Led by the U.S., new cases worldwide have been declining every day in May.*

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

7-Day Moving Average, As of May 17

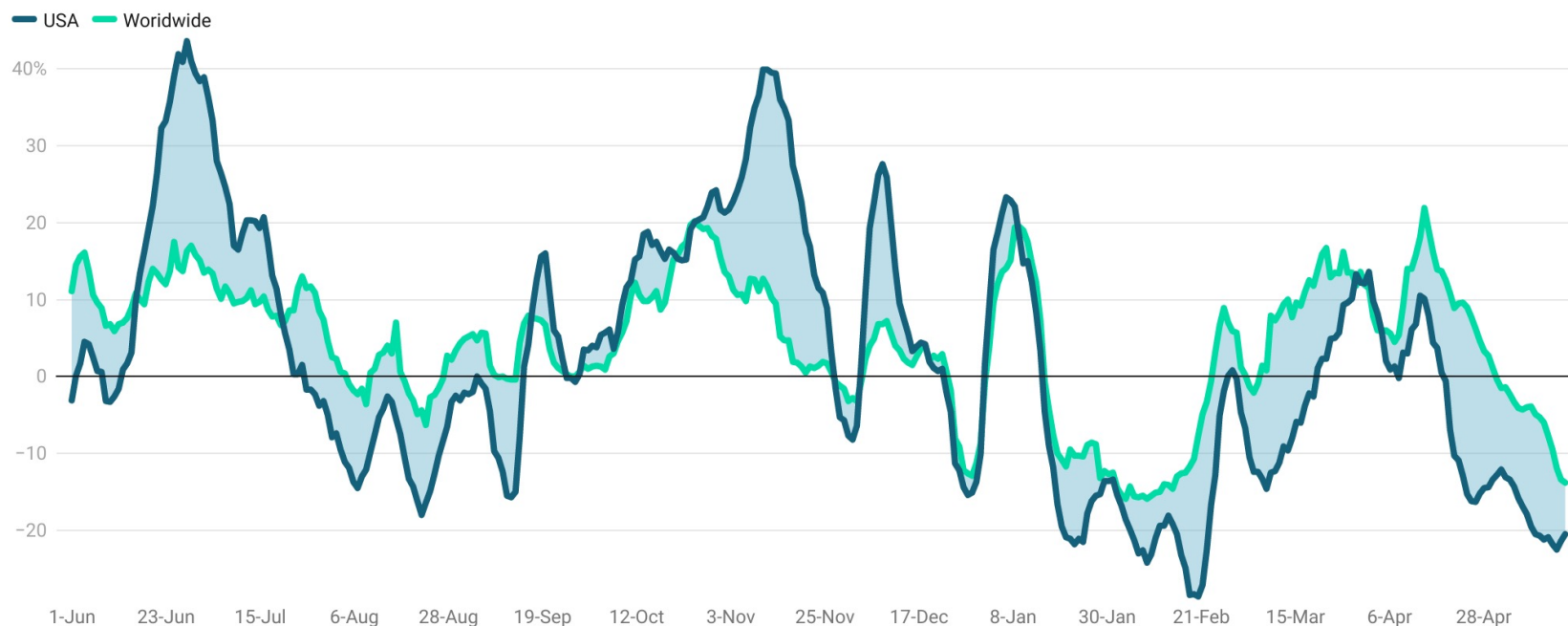


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

## Highest Current Infection Rates Worldwide

*Twenty-five countries of more than 500,000 people have 200 or more new cases per million per day.*

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

7-Day Average, As of May 17

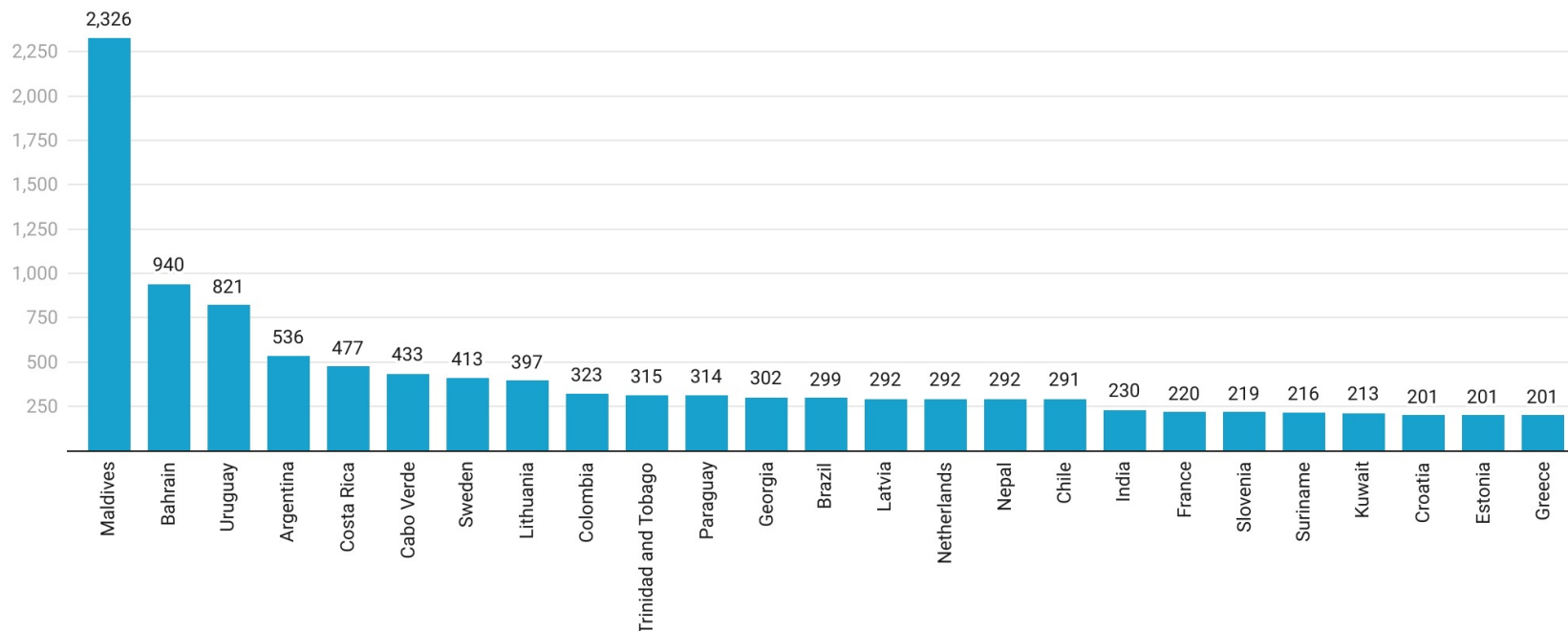


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

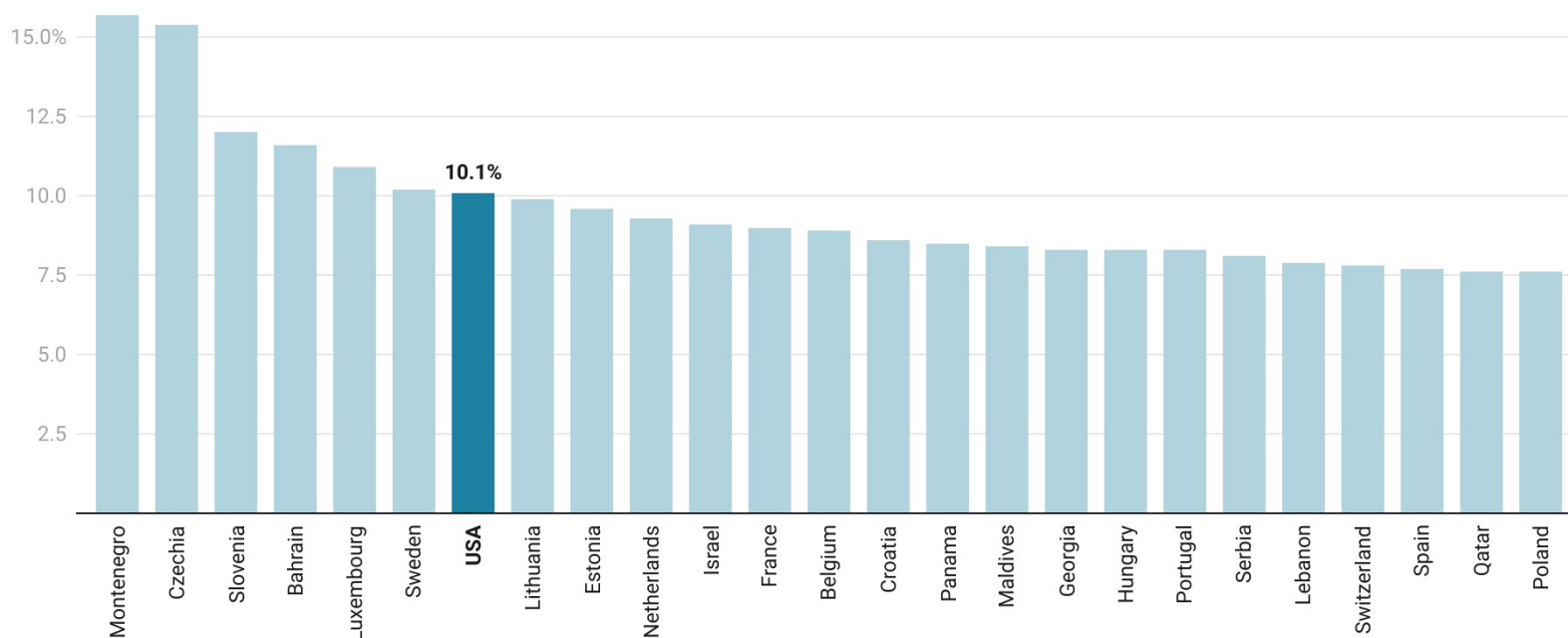
## Covid-19 "Vital Signs"

# Highest Rate of Infection Prevalence Worldwide

*One-in-ten Americans have experienced a detected Covid-19 infection. The US ranks 7<sup>th</sup> worldwide in infection prevalence (% of population with a detected case) among countries with >500,000 people.*

## Ranking of Detected Case Prevalence

As of May 17



Countries with >500,000 population

Chart: Health Industry Advisor LLC • Created with Datawrapper

## Covid-19 "Vital Signs"

# Largest Change in Infection Rates in Last Two Weeks

*Among countries with >500,000 people, eight saw new cases rate increase by >50 new cases per million per day over the past two weeks. Forty countries saw declines >50 new cases per million per day.*

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

7-Day Average, Countries > 500k Population

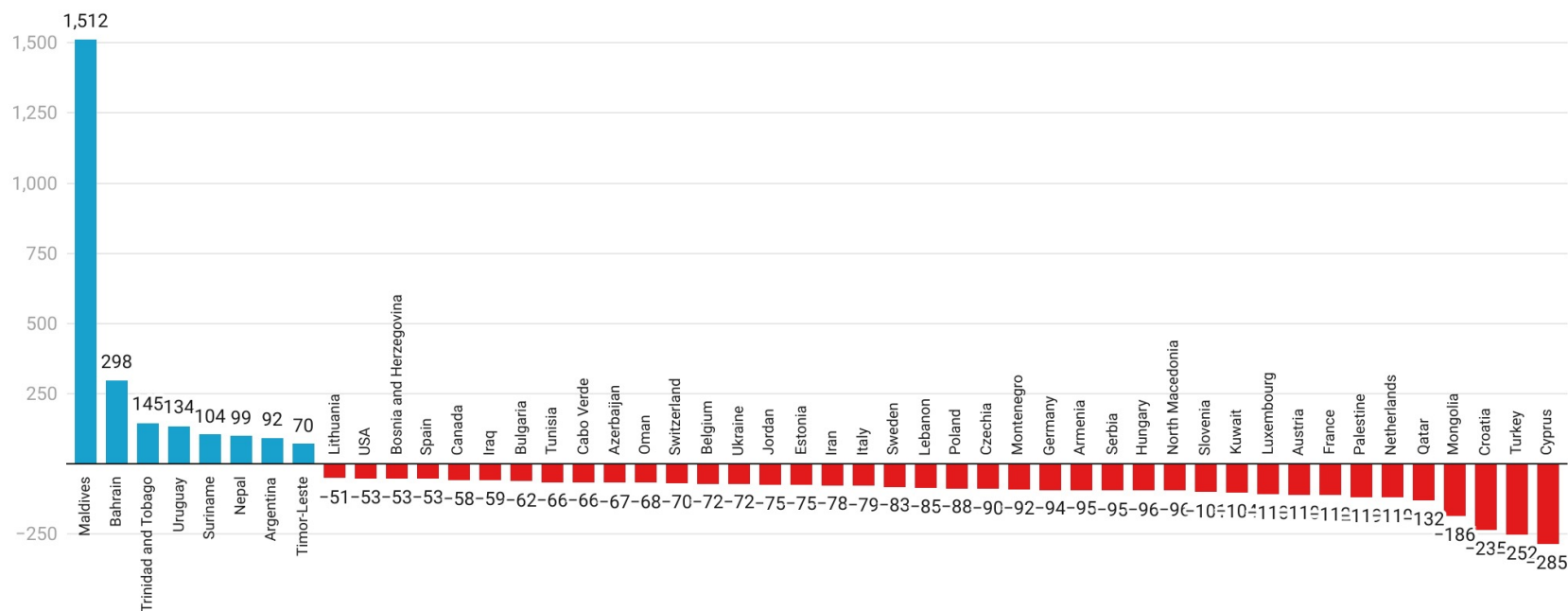


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

## Covid-19 "Vital Signs"

### Case Trends – Select Countries of Interest

*France, Sweden and Turkey have seen strong improvement in the past two weeks. India has seen a modest decline in newly reported cases in recent days.*

#### Newly Detected Cases Per Million

7-Day Moving Average

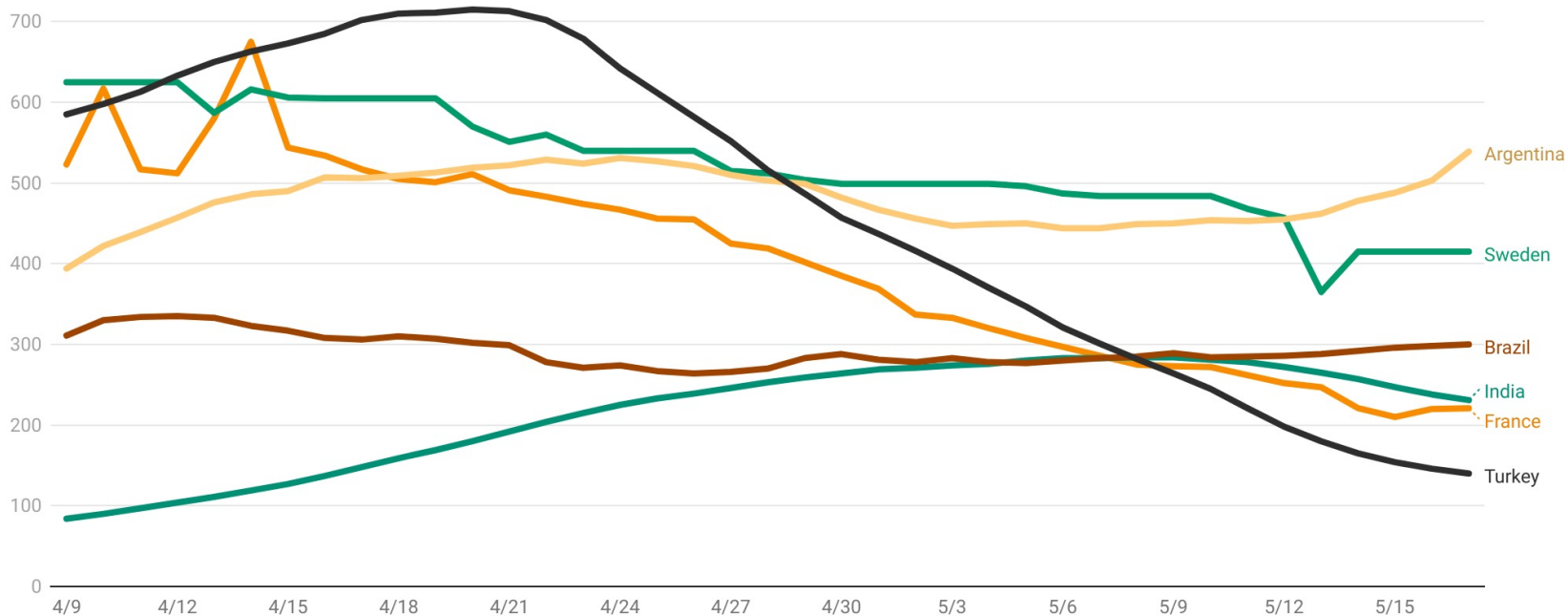


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

## Covid-19 "Vital Signs"

# Pace of Worldwide Vaccinations

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

### Doses Per 100 Persons - 25 Highest Country Rates

Most Recent Data, As of May 16

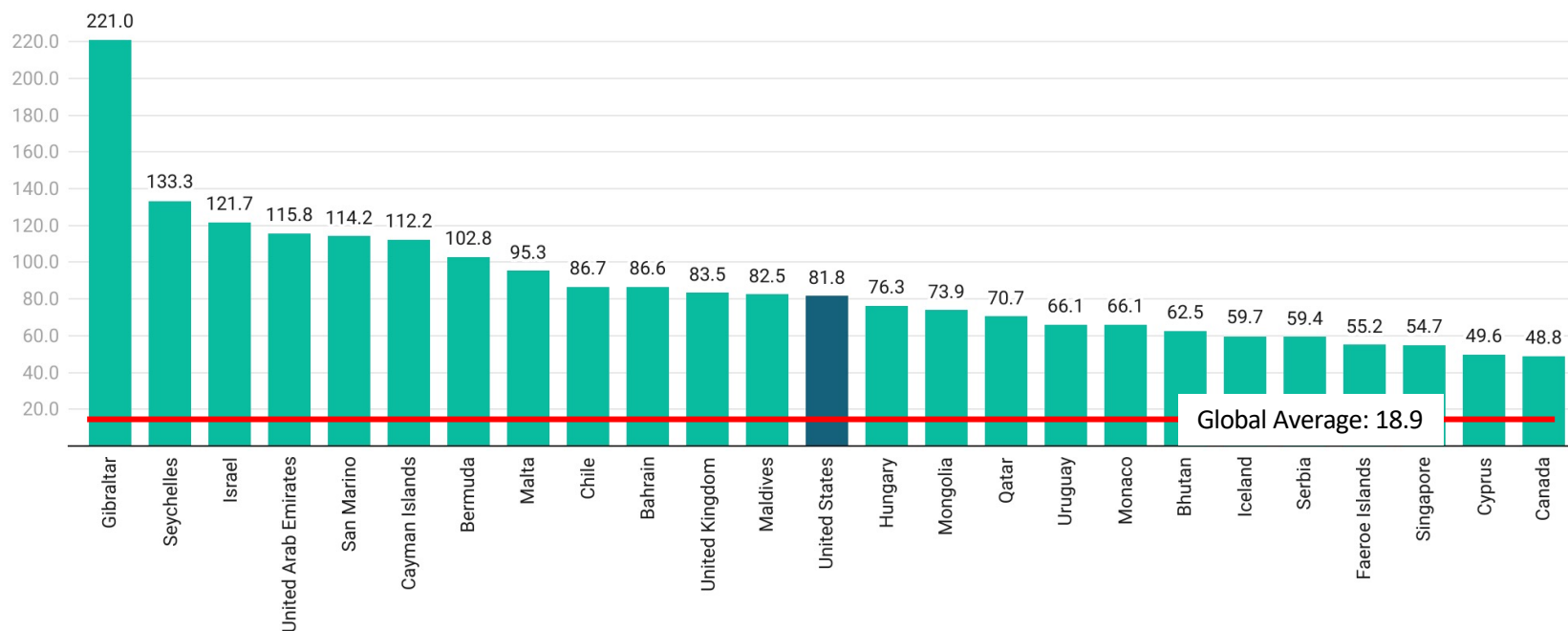


Chart: Health Industry Advisor LLC • Source: Our World In Data • Created with Datawrapper

<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 16

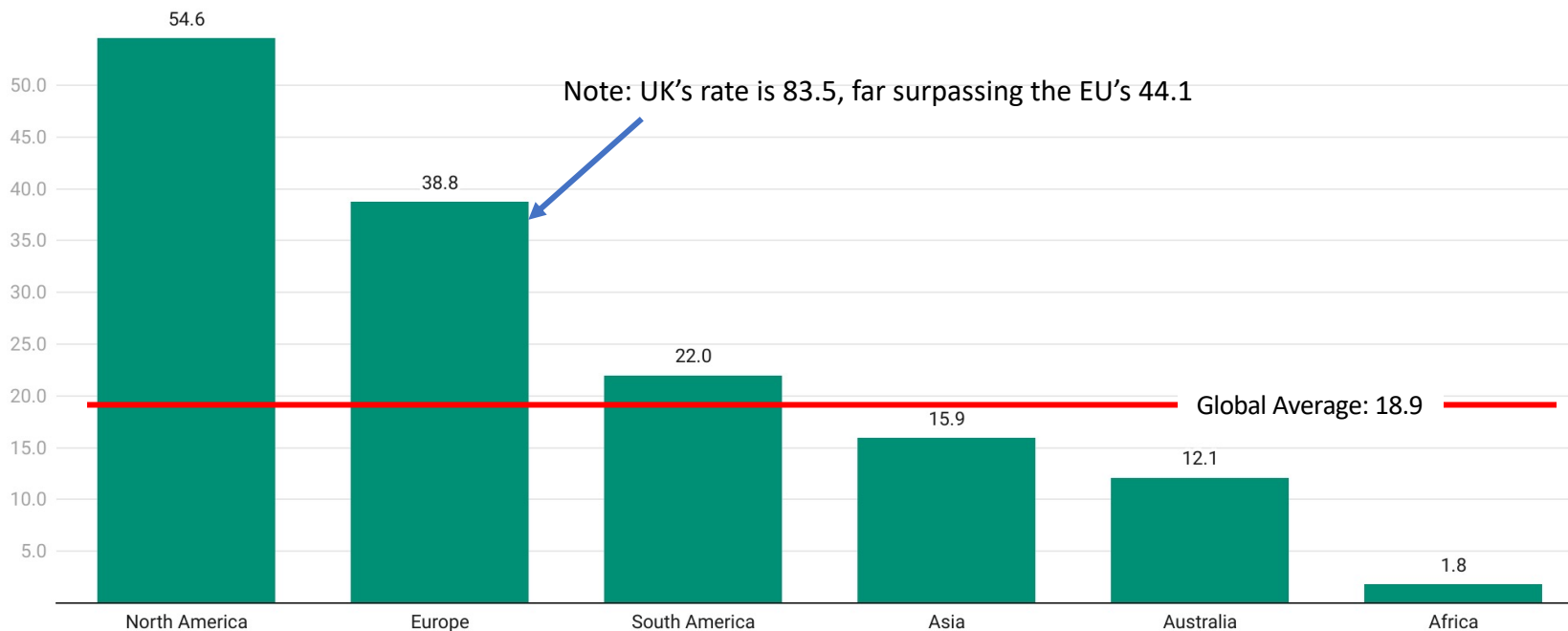


Chart: Health Industry Advisor LLC • Source: Our World In Data • Created with Datawrapper

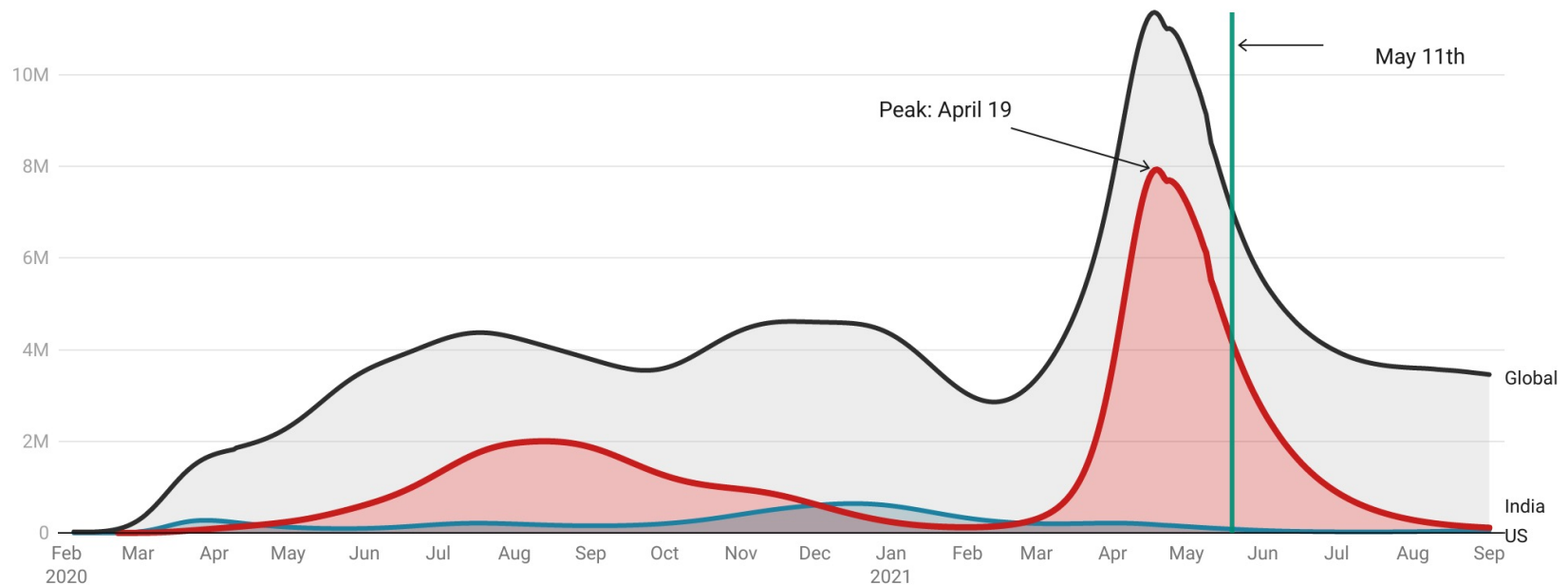
## Covid-19 “Vital Signs”

# Estimated Infections - IHME Projections

*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 eight million on April 19<sup>th</sup>. Since then, new daily infections have been reduced by half.*

## New Daily Infections

Global, India & United States



Based on IHME's May 14th Model

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

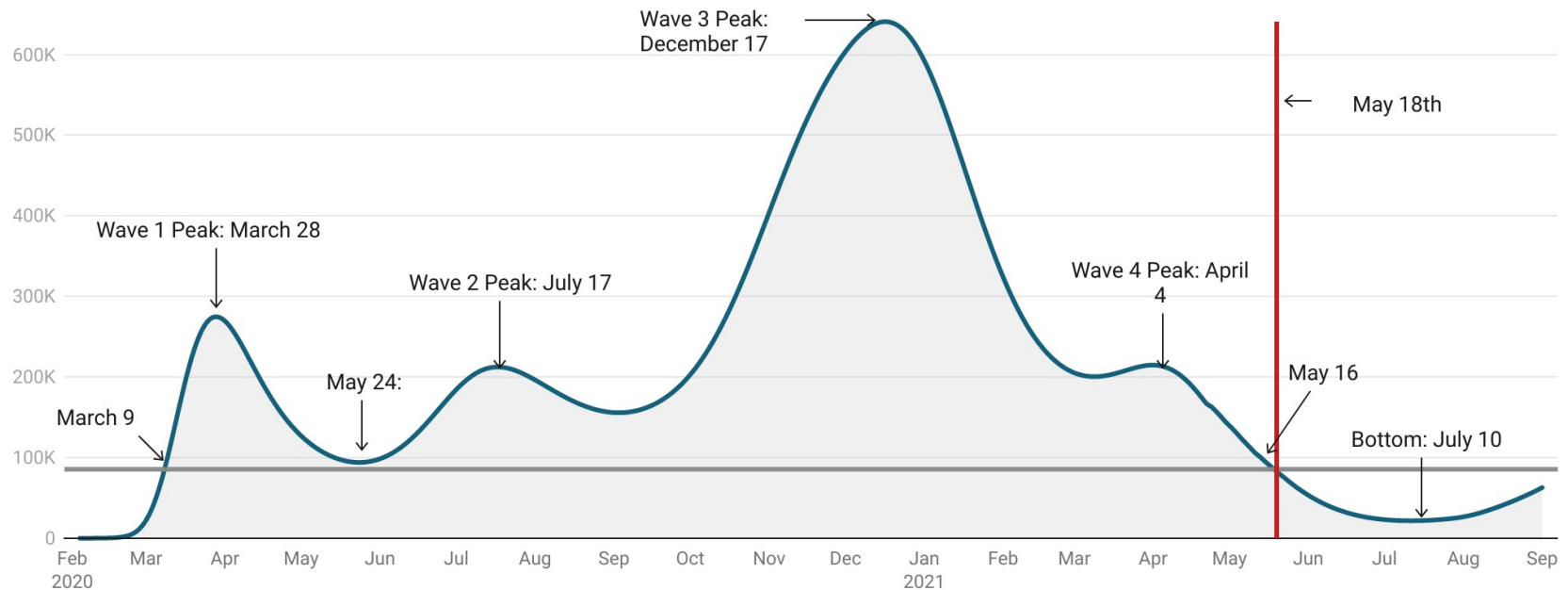
## Covid-19 "Vital Signs"

# Estimated Infections IHME Projections

*Estimated daily infections in the U.S. are expected to decline through July. IHME anticipates infections to increase from the date. Estimated new infections already have fallen to the lowest point since March 9, 2020.*

## Estimated and Projected Infections

Institute For Health Metrics and Evaluation



Forecast Date: May 14th

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

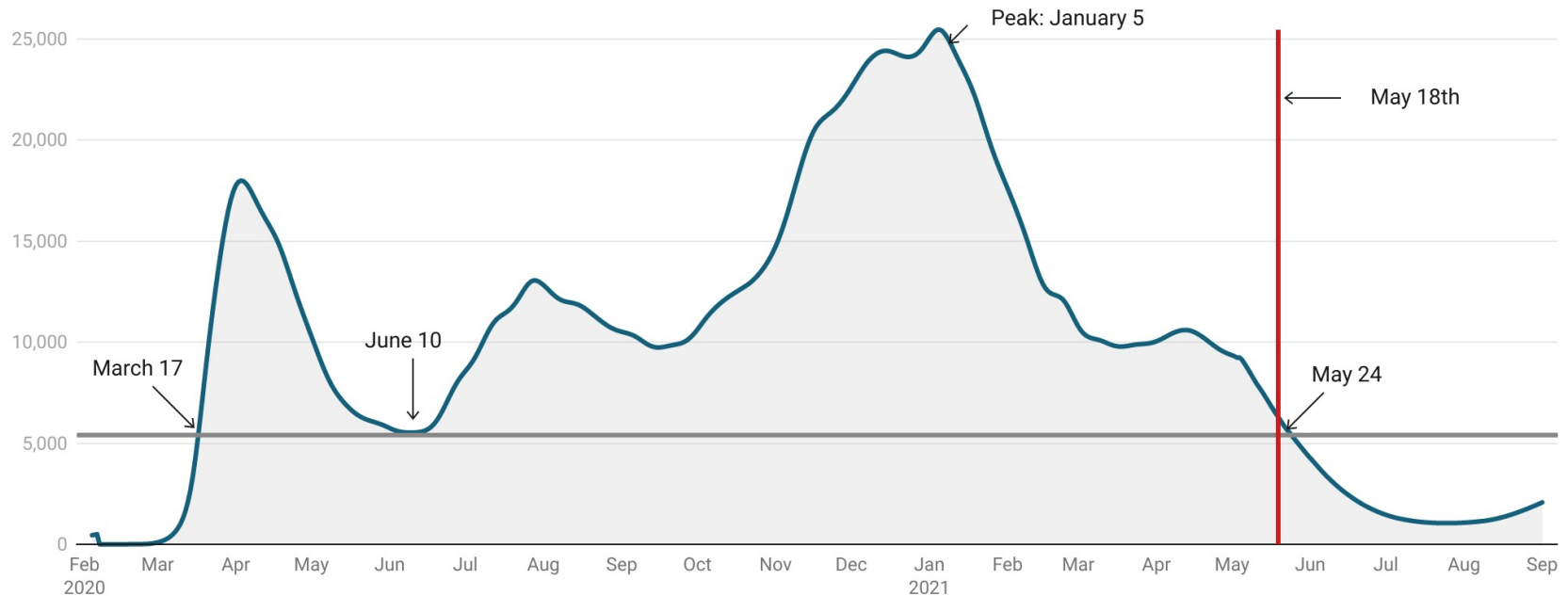
## Covid-19 "Vital Signs"

# Covid-19 Inpatient Admissions – IHME Projections

*Projected Covid-19 admissions began declining weeks ago, according to the latest IHME model. By next Monday, 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 14th

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

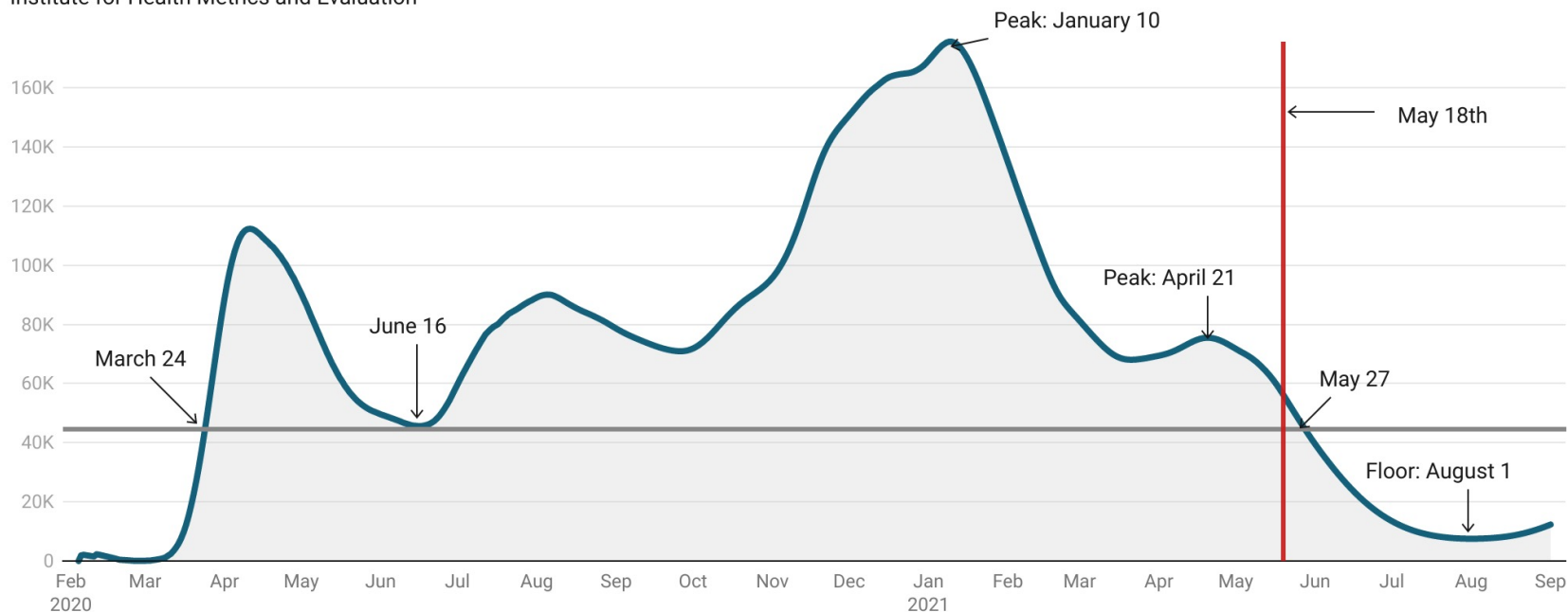
## Covid-19 "Vital Signs"

# Covid-19 Inpatient Census – IHME Projections

*Projected Covid-19 admissions peaked a month ago according to the latest IHME model. By next week, 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 14th

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

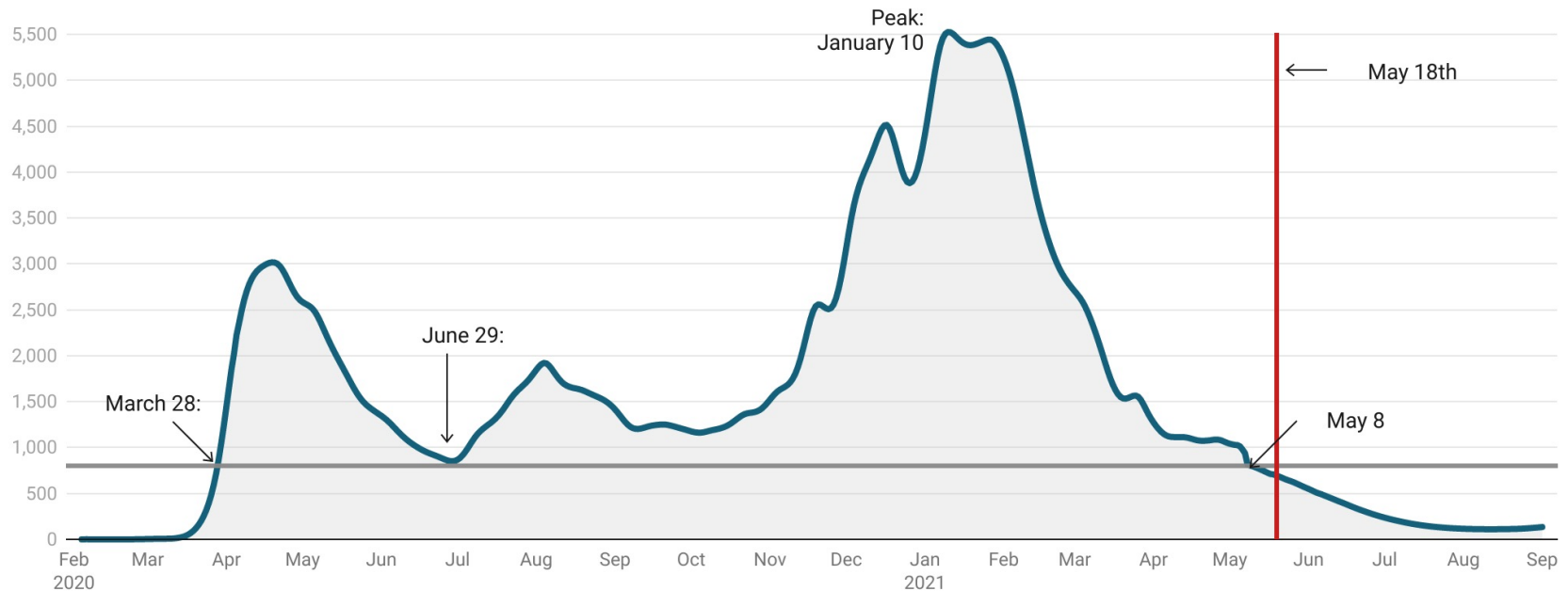
## Covid-19 "Vital Signs"

# Deaths With Covid-19: IHME Projection

*Covid-19 deaths already fell below levels experienced at any time since March 2020.*

## Estimated & Projected Deaths With Covid-19

Institute for Health Metrics and Evaluation



Forecast Date: May 14th

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

## Covid-19 "Vital Signs"

# Newly Detected Cases / Million - US

*The U.S. 7-day new case rate dropped below 100 per million per day on Sunday and Monday. This rate had not been below 100 since June 23, 2020.*

## Newly-Detected Cases / Million

7-Day Average

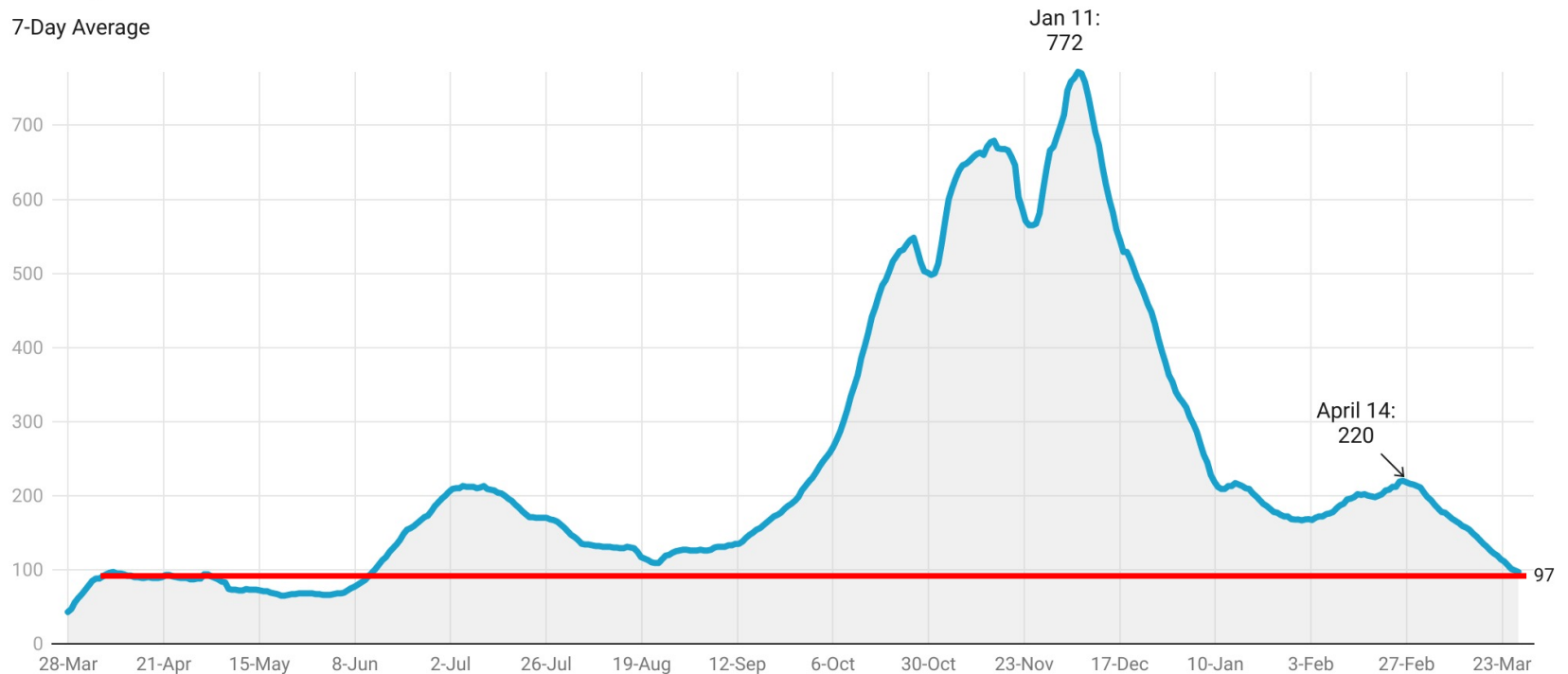


Chart: Health Industry Advisor LLC • Created with Datawrapper

## Covid-19 "Vital Signs"

# Estimated Daily Infections & New Case Rates

*Estimated infections have dropped to the lowest level since last March 13, the very day the national emergency was declared.*

### Estimated Daily Infections v. Detected Cases

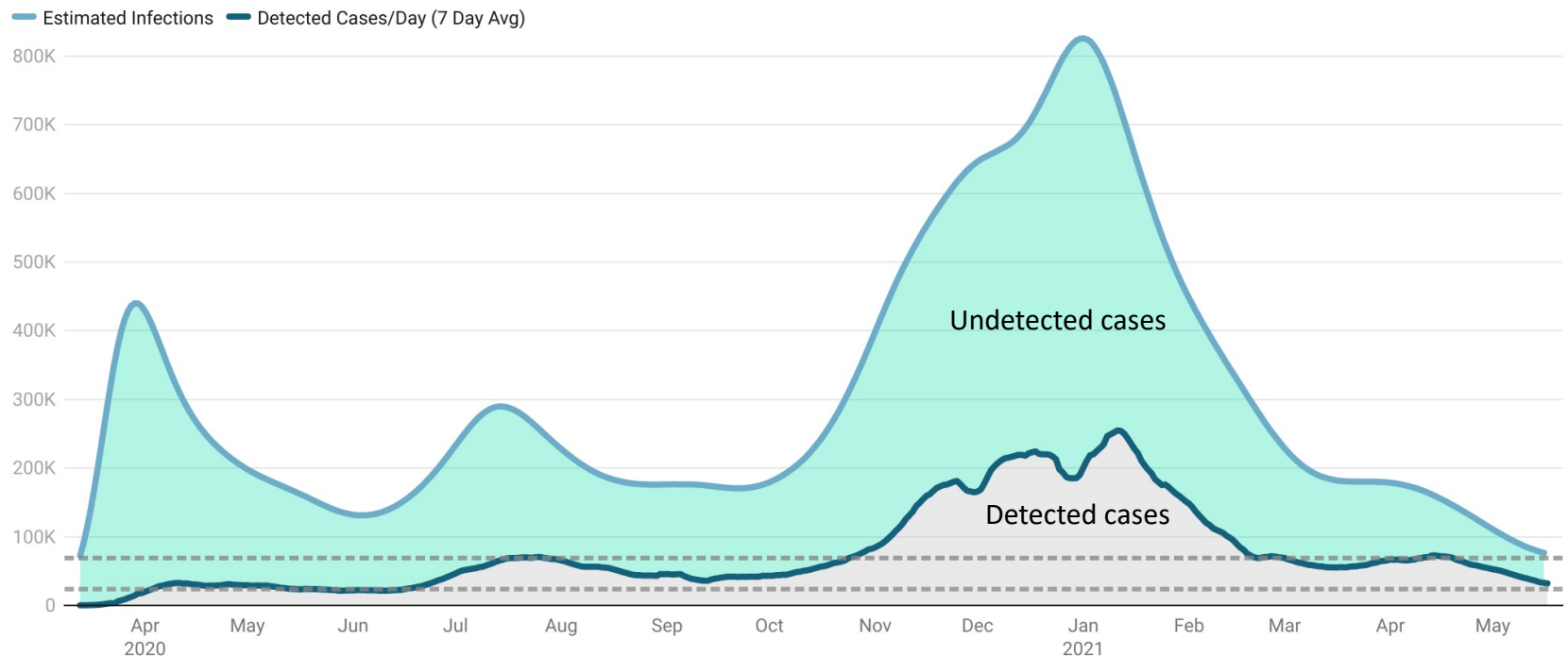
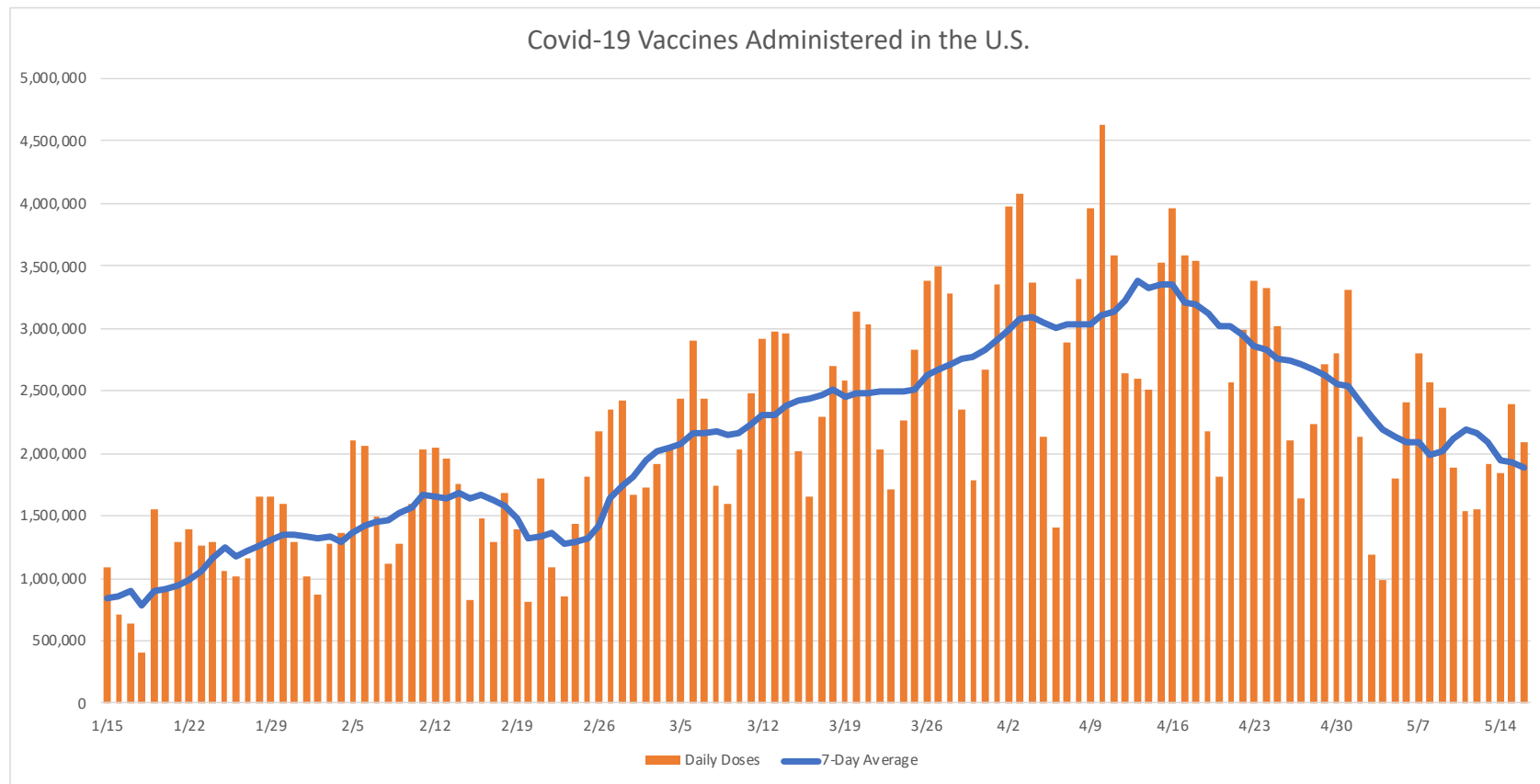


Chart: Health Industry Advisor LLC • Source: Yale School of Public Health • Created with Datawrapper

# Pace of Vaccinations

*The 7-day average vaccination rate fell below 1.9 million doses.*



## Covid-19 "Vital Signs"

# Vaccine Tracking

To date, the US has distributed 345 million doses and administered 273 million. 122 million people are fully inoculated. Another 30 million people have received the first of two required doses.

### Vaccination Progress

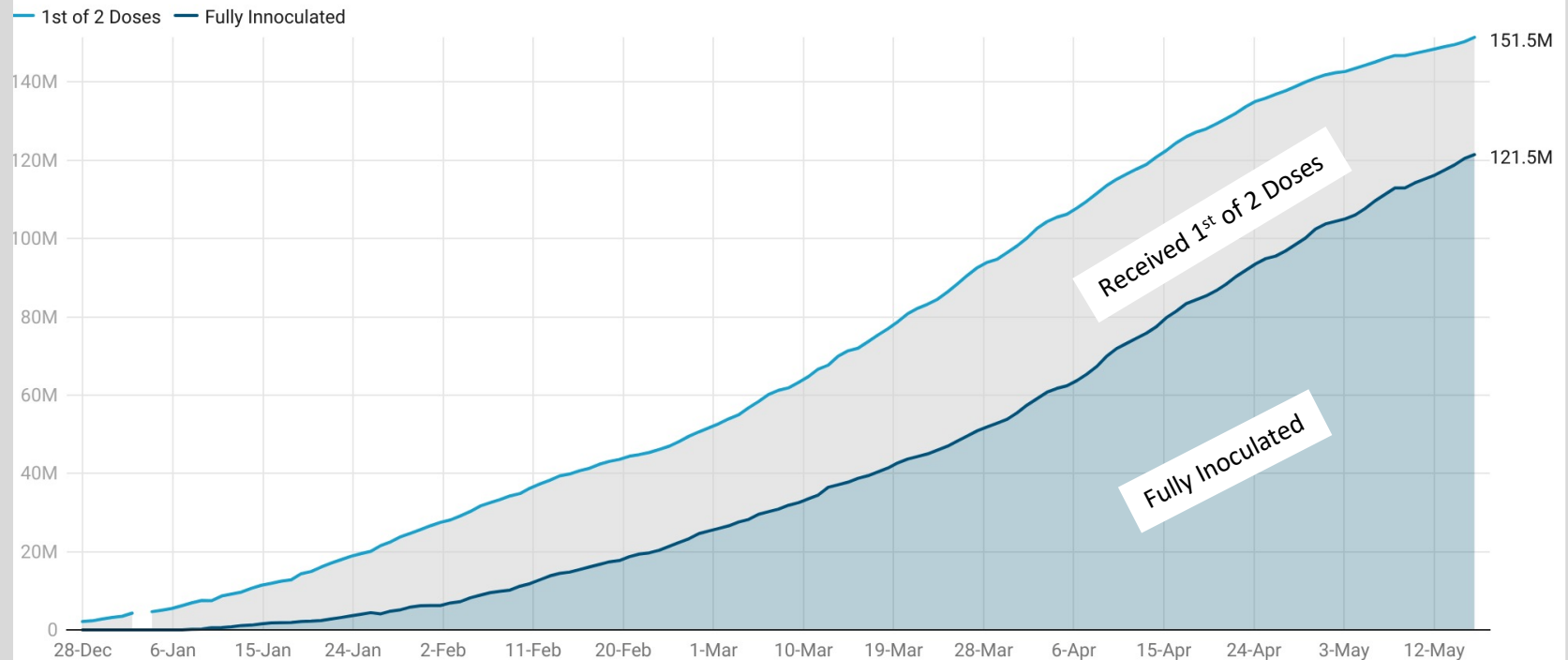


Chart: Health Industry Advisor LLC • Source: CDC, Bloomberg • Created with Datawrapper

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

## Vaccination Status By Age

*85% of seniors are participating in the vaccination process; 73% are fully vaccinated. 53% of younger adults have received at least one shot; 40% are fully vaccinated. 53% of younger adults have received at least one shot; 40% are fully vaccinated.*

### Vaccination Status By Age

As of May 17

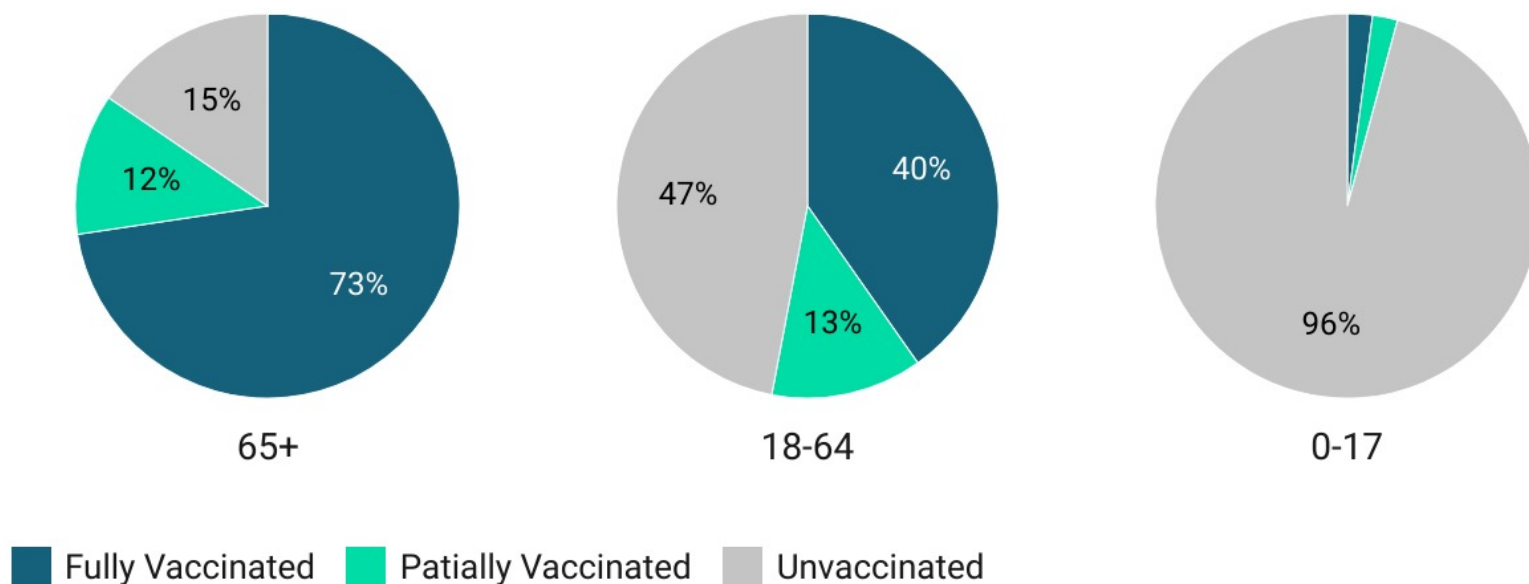


Chart: Health Industry Advisor LLC • Source: CDC • Created with Datawrapper

## Covid-19 Inpatient Census

*Covid-19 inpatient census has declined 12% in the last week and 28% in the last four weeks.*

### Hospitalized Covid-19 Patients

Compared to Same Day, Prior Weeks

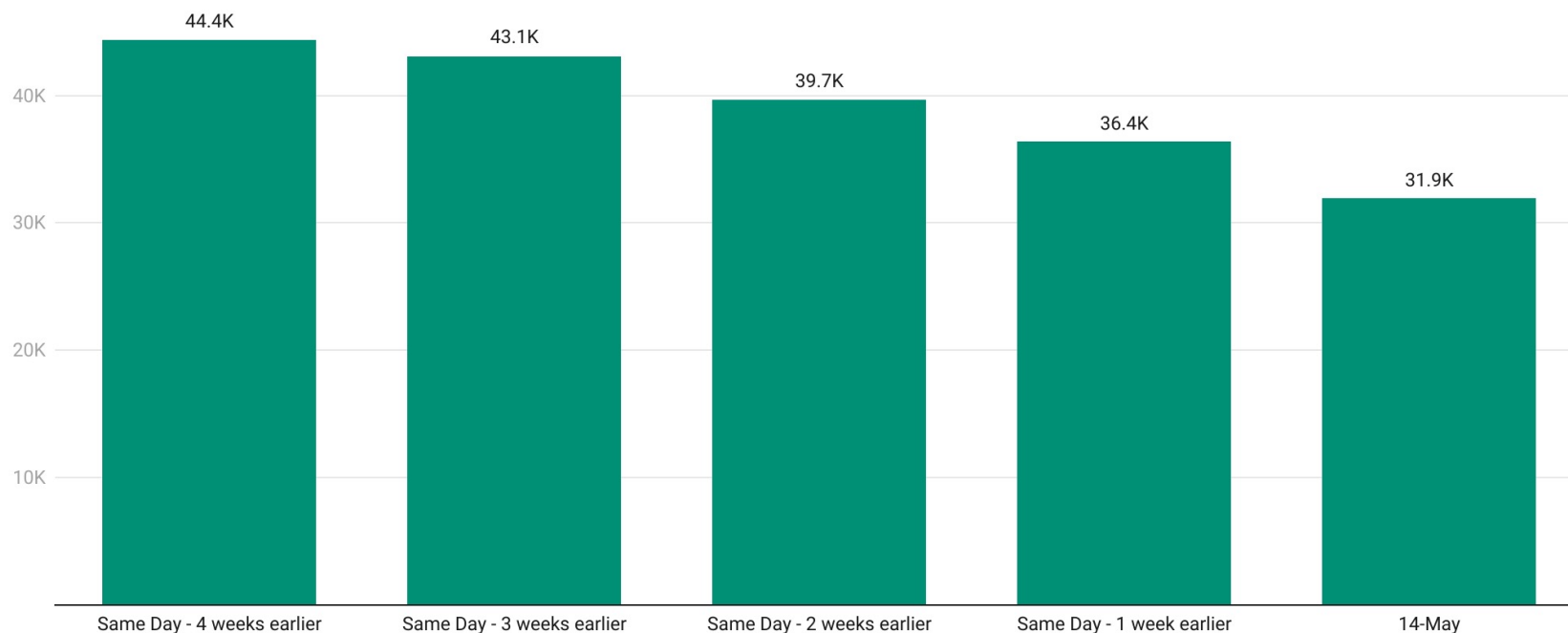


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

## Covid-19 Inpatient Census

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

### Covid-19 Inpatient Census

Through May 14

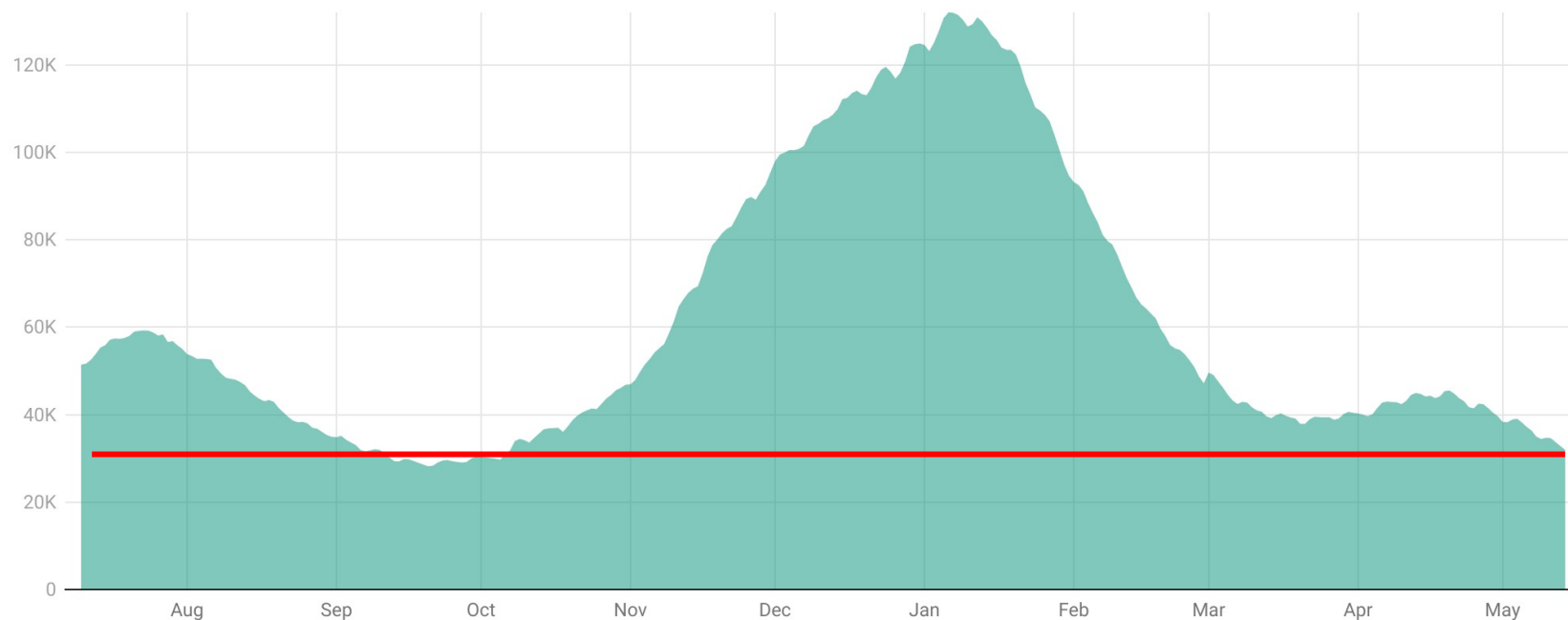


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

## Deaths Reported With Coronavirus

*The 7-day death rate declined 7% week-over-week and 14% in the last three weeks.*

### Daily Deaths Reported With Coronavirus

As of May 12

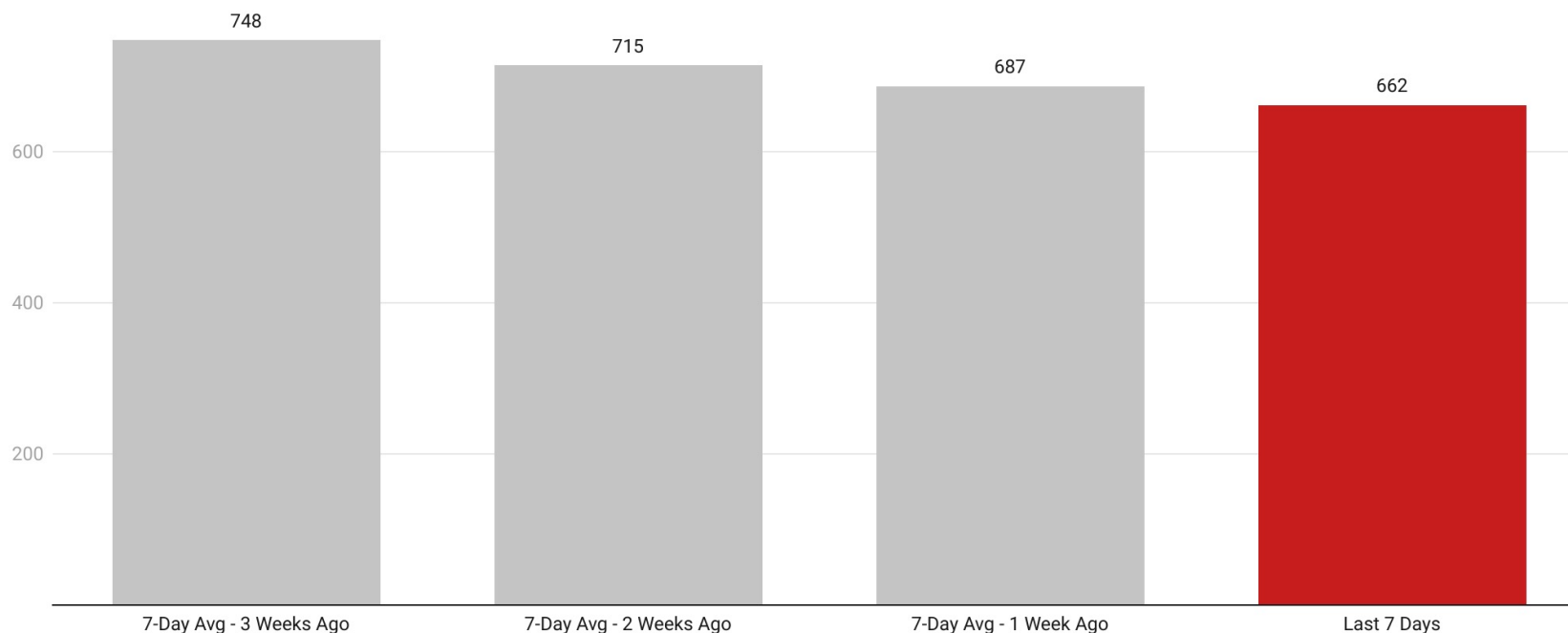


Chart: Health Industry Advisor LLC • Source: worldometer.info • Created with Datawrapper

## Covid-19 “Vital Signs”

# Deaths With Coronavirus

*Deaths with coronavirus (7-day average) is lower than it has been since June 25 – July 8.*

## Deaths With Coronavirus

7-Day Average, Through May 17

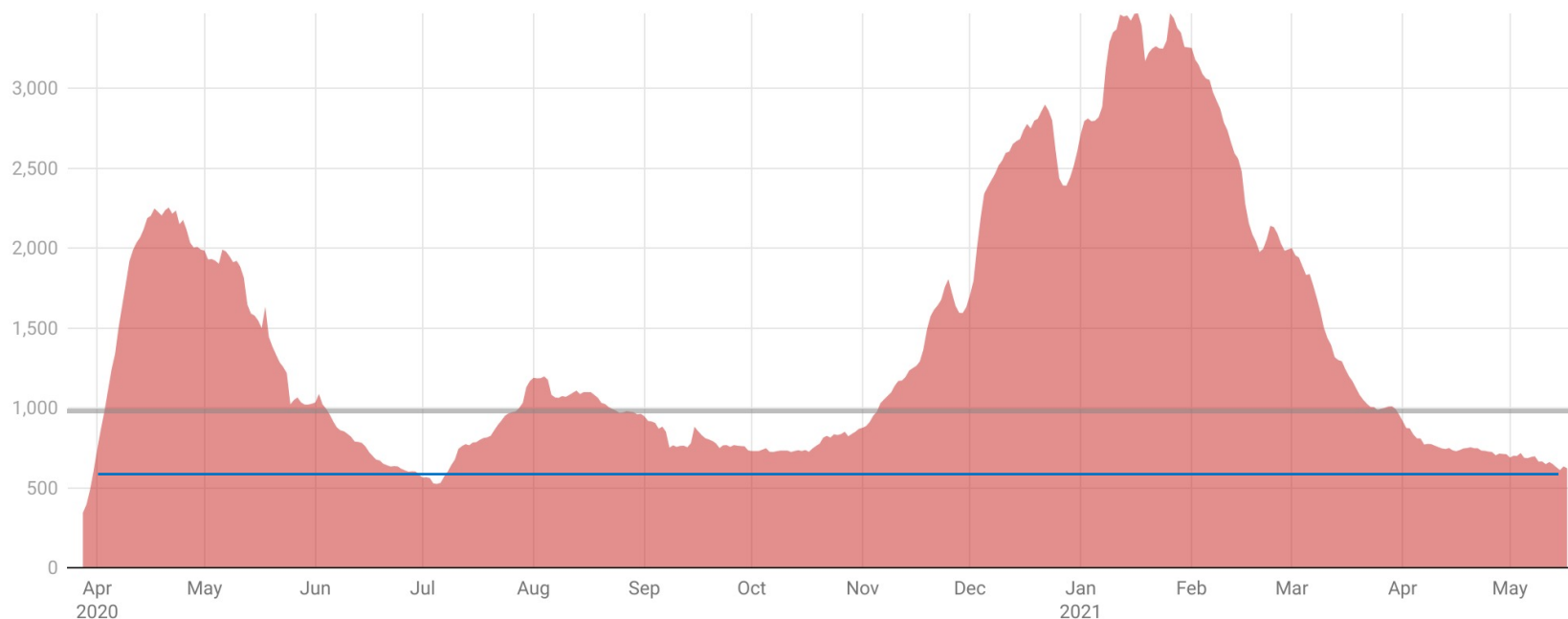


Chart: Health Industry Advisor LLC • Created with Datawrapper

## 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](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>