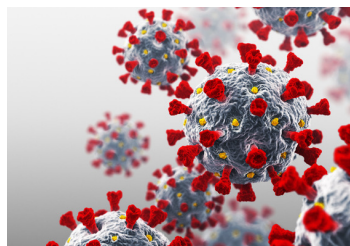


Covid-19 "Vital Signs"

Issue # 309

March 29, 2021



Covid-19 "Vital Signs"

Newly Detected Cases Per Day

In the US, 7-day new case rates increased less than 7% week-over-week but in in line with the rate three weeks ago. Outside the U.S., cases increased 14% week-over-week and nearly 50% over the last three weeks.

Newly Detected Cases

As of March 28

■ United States ■ Outside the US

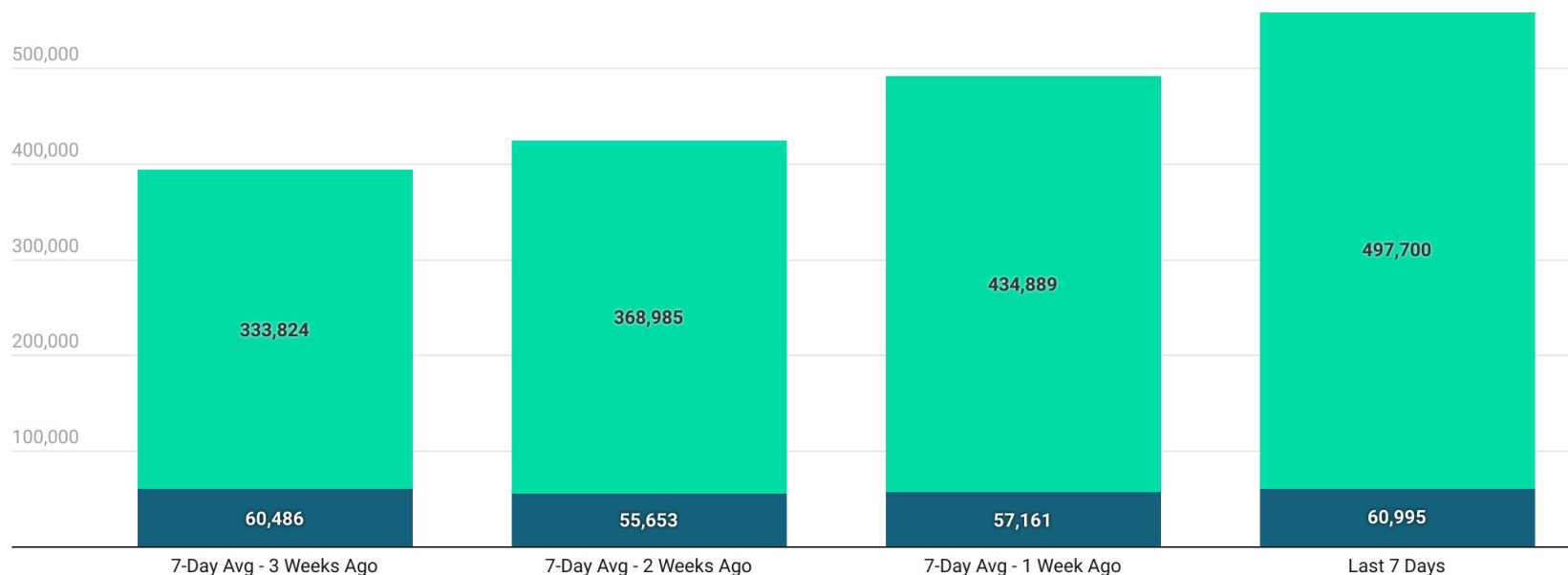


Chart: Health Industry Advisor LLC • Source: The Atlantic • Created with Datawrapper

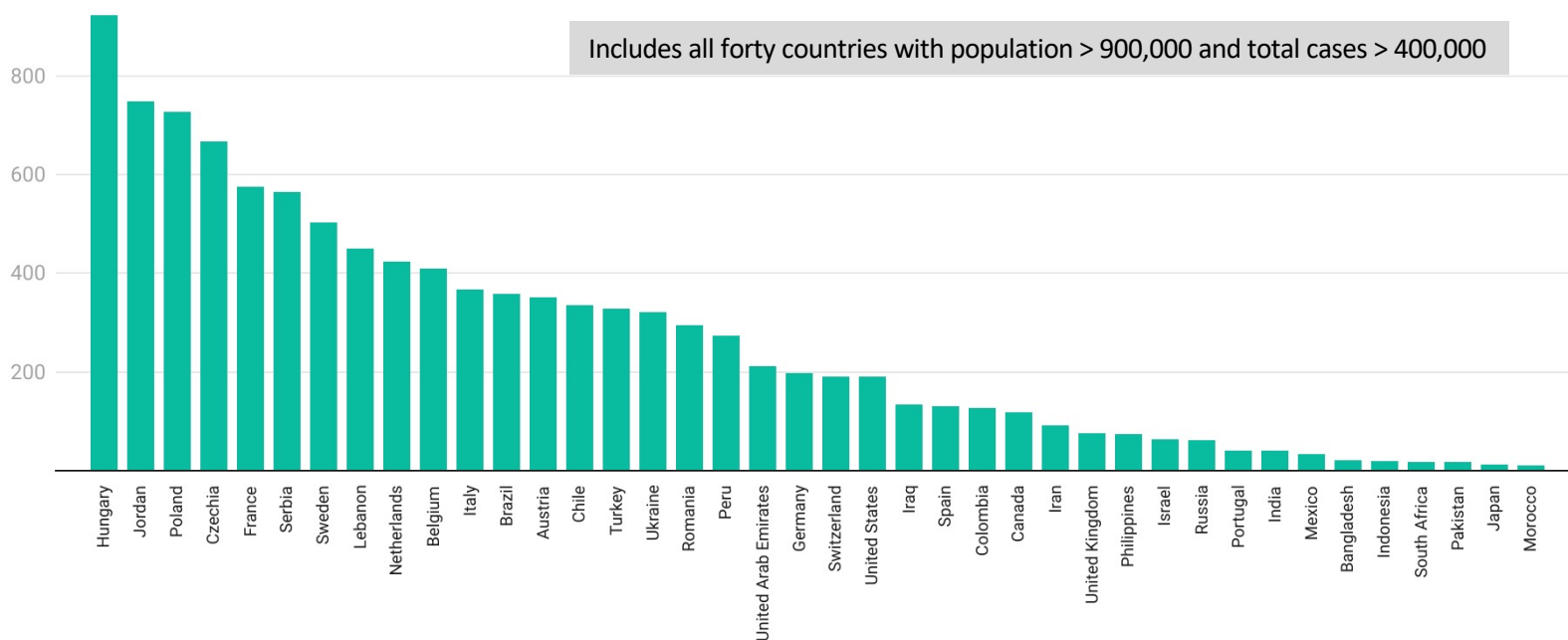
Covid-19 "Vital Signs"

Ranking of Countries By New Detected Cases / Million

The U.S. ranks 22nd in new cases per million of the forty countries with population > 900,000 and total cases > 400,000. United Kingdom ranks 28th and Israel, 30th.

Ranking of New Detected Cases / Million

As of March 28



Countries with population >= 900,000 and total cases >= 400,000

Chart: Health Industry Advisor LLC • Created with Datawrapper

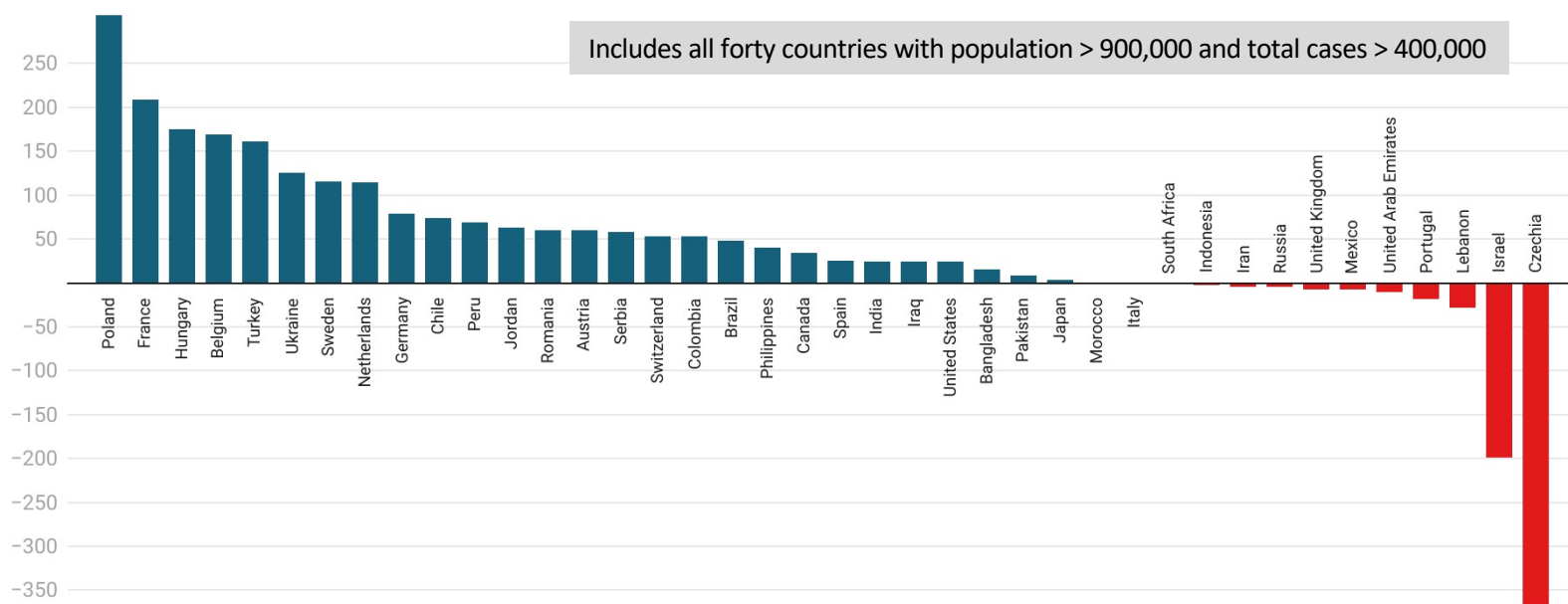
Covid-19 "Vital Signs"

Ranking of Countries By Two-Week Change in new Case Rate

Poland, France, Hungary, Belgium, and Turkey posted the greatest increases in new cases per million over the past two weeks. Czechia and Israel posted the largest declines.

Ranking of Change in New Cases / M: Last Two Weeks

7-Day Average, As of March 28



Countries with population >= 900,000 and total cases >= 400,000

Chart: Health Industry Advisor LLC • Created with Datawrapper

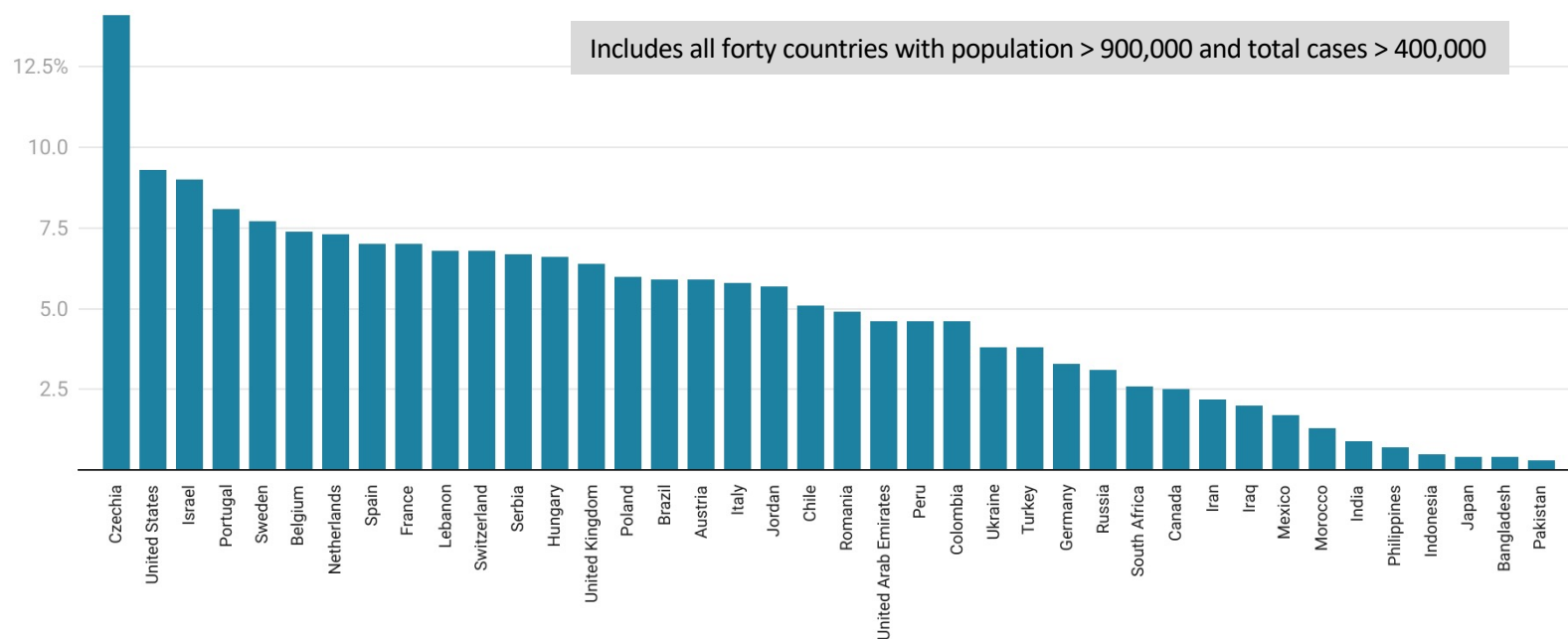
Covid-19 "Vital Signs"

Ranking of Countries By Detected Case Prevalence

Czechia experienced the highest new case prevalence (cases/resident) since the beginning of the pandemic. The United States ranks second and Israel, third.

Ranking of Detected Case Prevalence

As of March 28



Countries with population >= 900,000 and total cases >= 400,000

Chart: Health Industry Advisor LLC • Created with Datawrapper

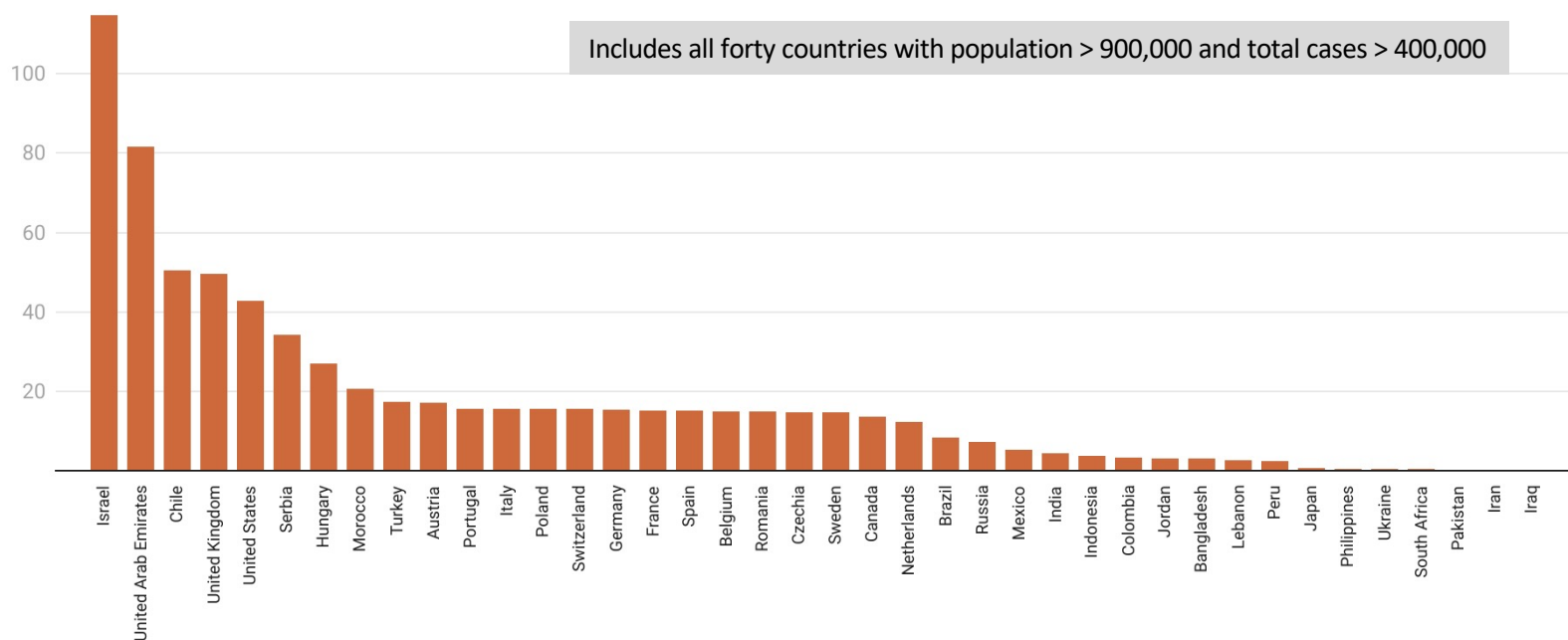
Covid-19 "Vital Signs"

Newly Detected Cases Per Day

In the US, 7-day new case rates increased 5% week-over-week; 3% compared to two weeks ago. Outside the U.S., cases increased 14% week-over-week and 31% over the last two weeks.

Ranking of Vaccine Doses / Million

As of March 28



Countries with population >= 900,000 and total cases >= 400,000

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

Covid-19 "Vital Signs"

Relationship Between Vaccination Rates and Recent Changes in Case Rates

Four of the five countries that have administered 42 or more doses per person have kept the changes in new cases rates below 25. Six of seven countries that posted increased new case rates larger than 100 have administered fewer than 18 doses per person.

Changes in New Infections/M v. Vaccine Doses/Person

As of March 28

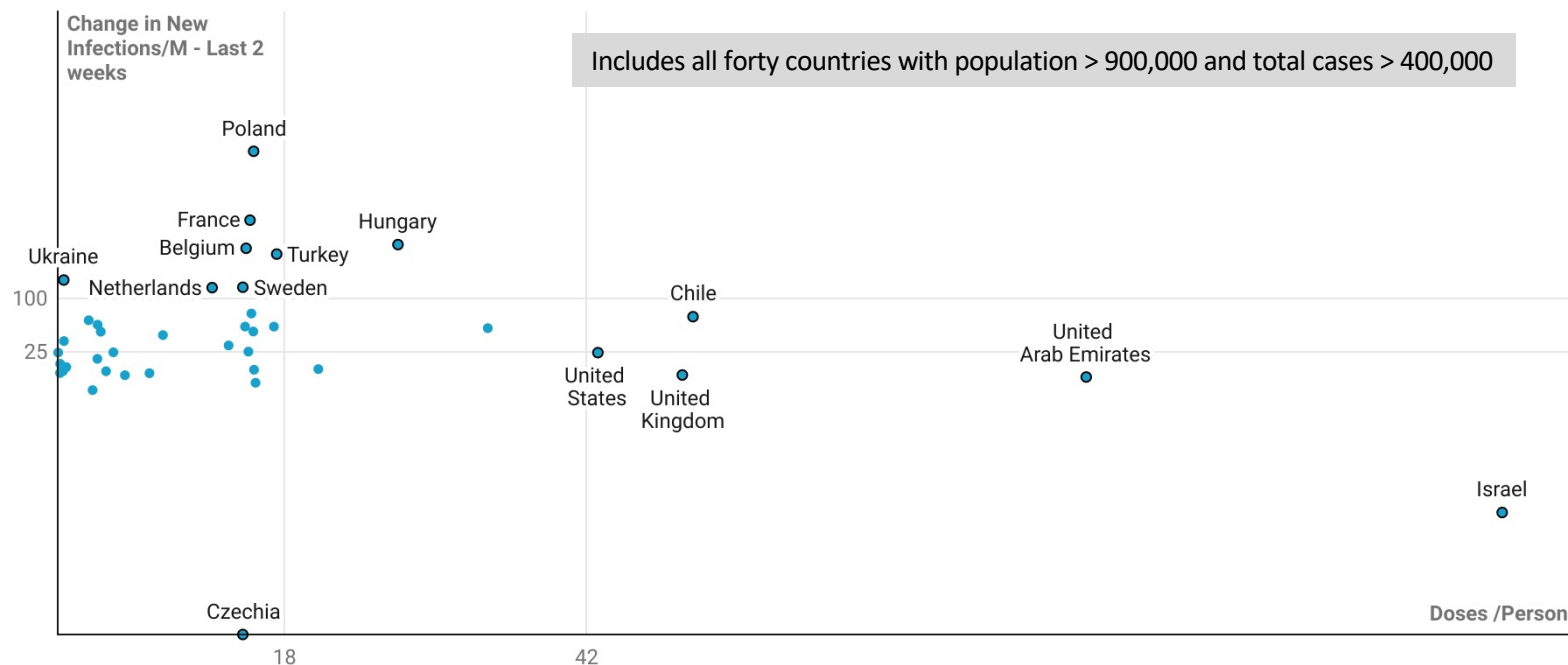


Chart: Health Industry Advisor LLC • Source: Our World in Data & Others • Created with Datawrapper

Covid-19 "Vital Signs"

Newly Detected Cases / Million - US

New case rates in the United States rose over the past week, although they dipped slightly yesterday.

Newly-Detected Cases / Million

7-Day Average

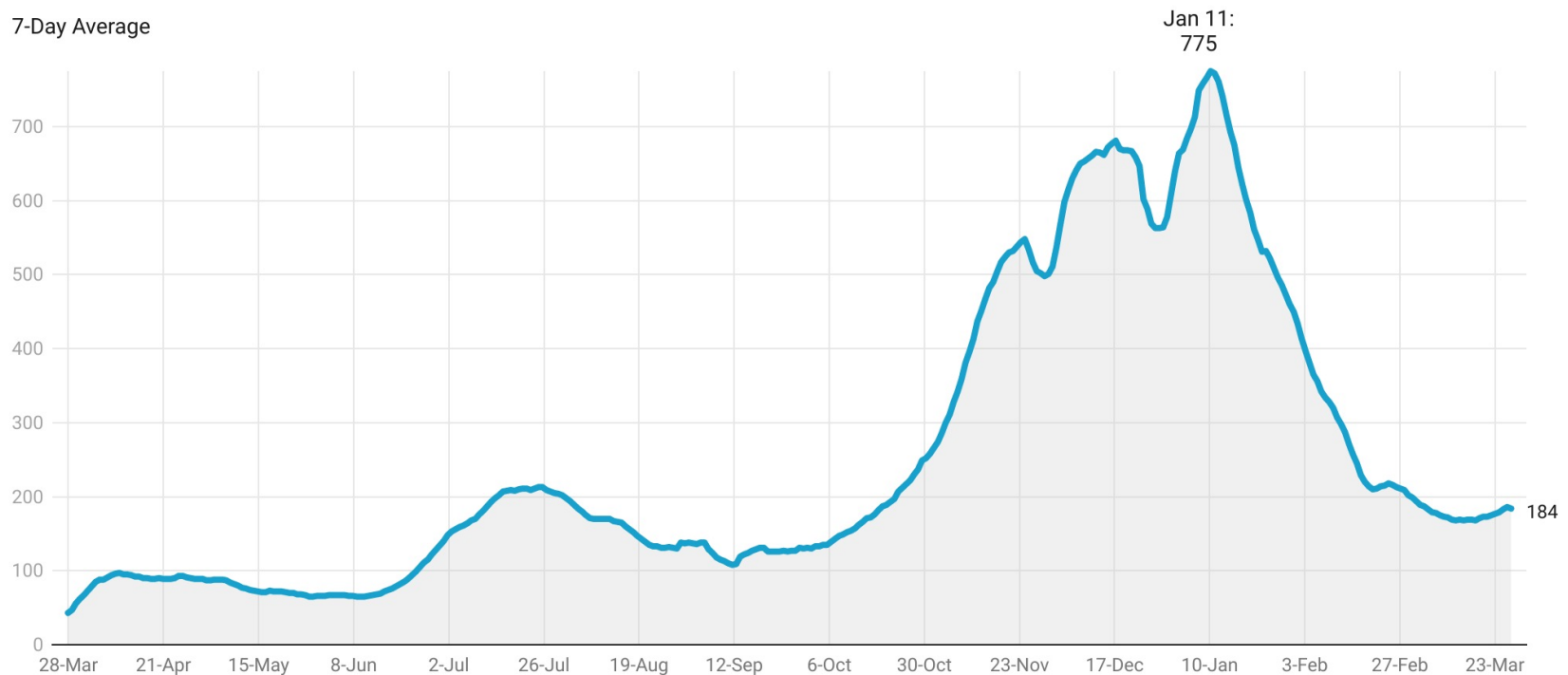


Chart: Health Industry Advisor LLC • Created with Datawrapper

Estimated Daily Infections & New Case Rates

Covid-19 "Vital Signs"

Estimated new infections (7-day average) increased for the past twelve consecutive days.

Estimated Daily Infections v. Detected Cases

Yale/Harvard Schools of Public Health Model

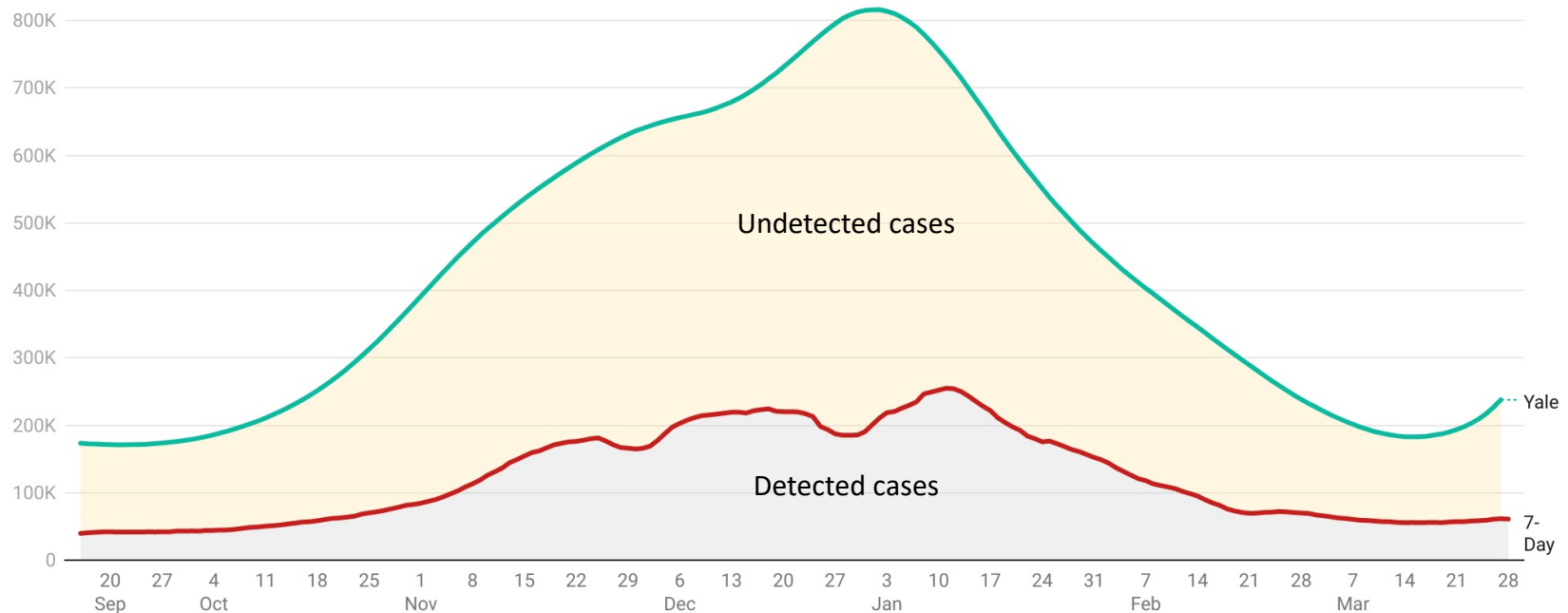


Chart: Health Industry Advisor LLC • Source: Youyang Gu, Yale School of Public Health • Created with Datawrapper

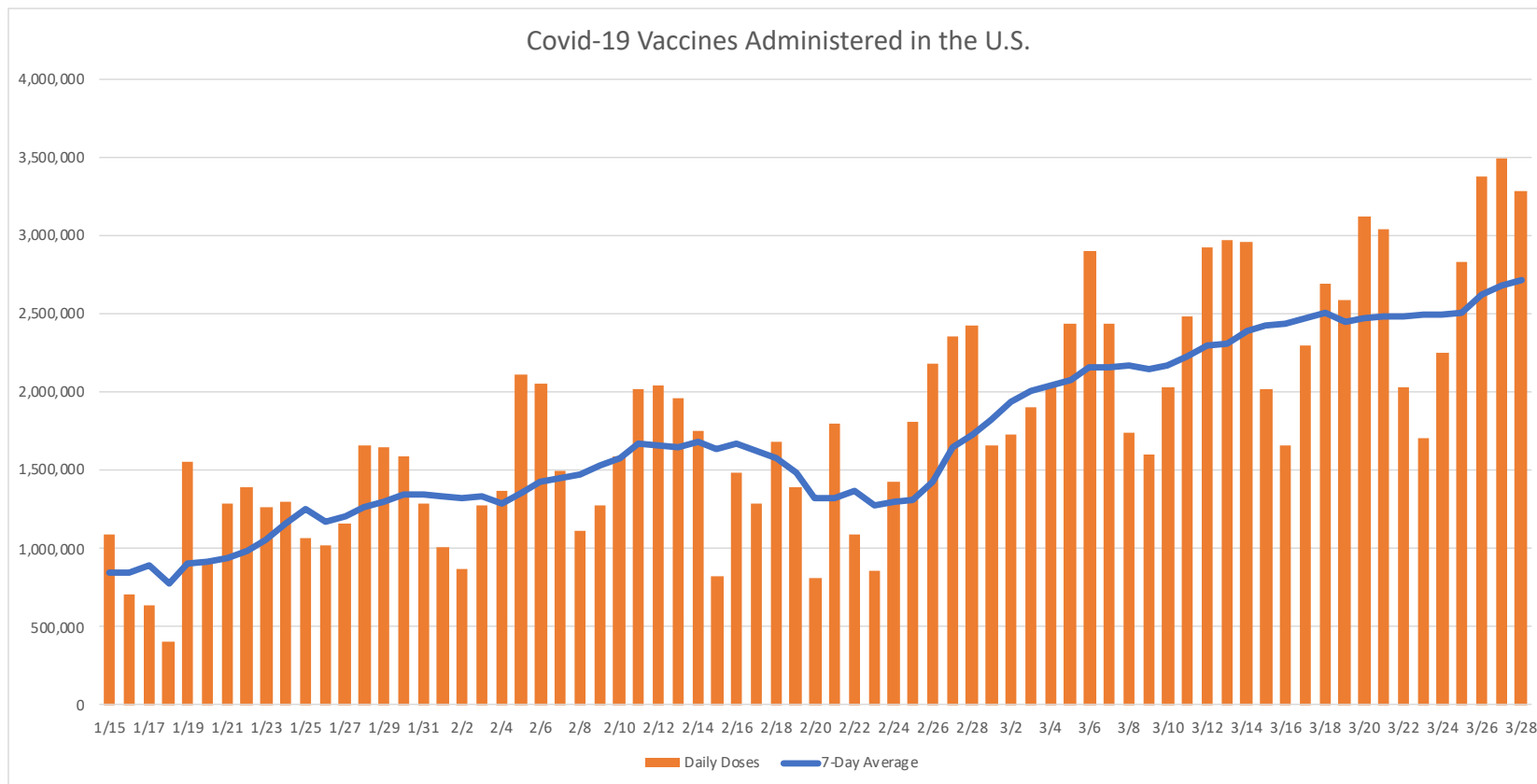
Two models:

- Youyang Gu: <https://covid19-projections.com>, lags by two weeks
- Yale School of Public Health: <https://covidestim.org>

Covid-19 "Vital Signs"

Pace of Vaccinations

The vaccination pace accelerated over the past week. As of yesterday, the U.S. is vaccinating an average of 2.7 million people daily (7-day average). Expect this to continue, as sufficient new doses were distributed this week to vaccinate more than 3.4 million daily.



Covid-19 "Vital Signs"

Vaccine Tracking

To date, the US has administered 143 million doses, with 51 million people fully inoculated – 19.9% of the adult population. Another 41.7 million people have received the first of two required doses.

Vaccination Progress

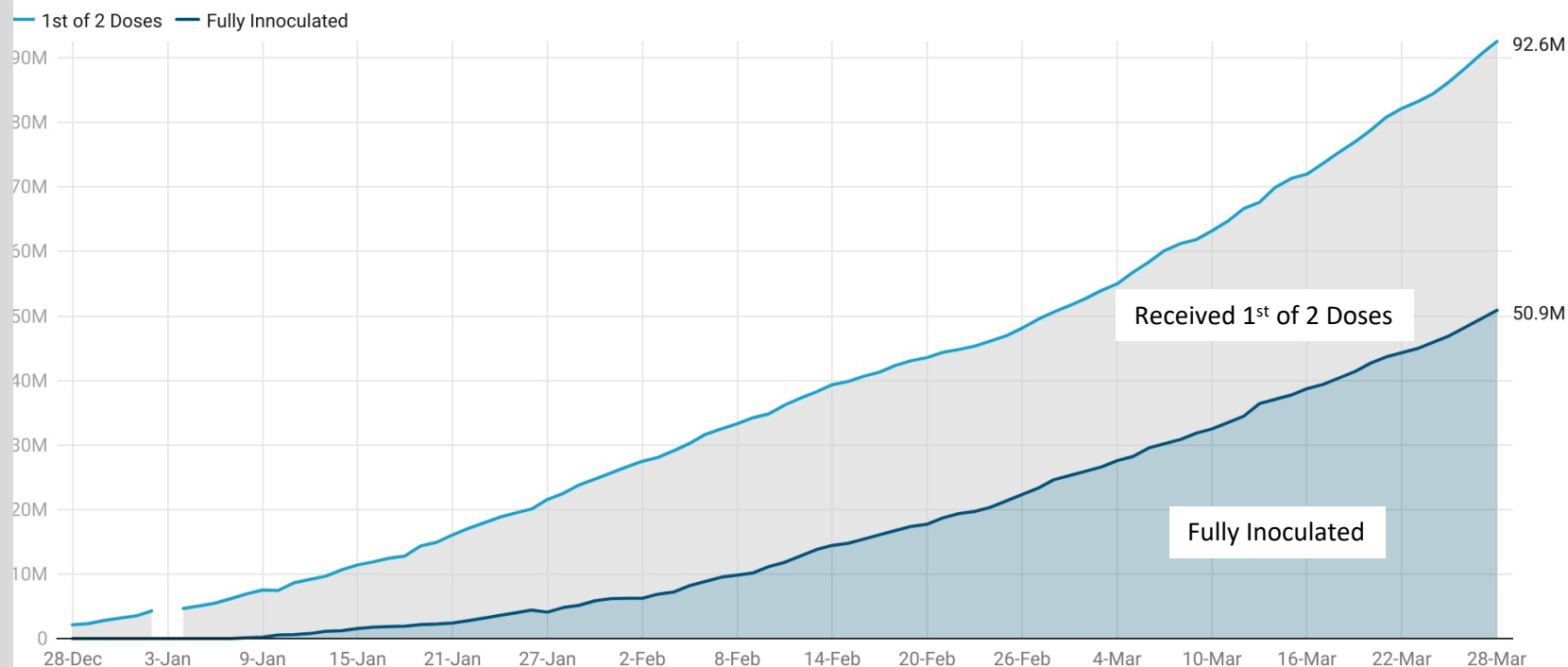


Chart: Health Industry Advisor LLC • Source: CDC, Bloomberg • Created with Datawrapper

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

Covid-19 "Vital Signs"

Test-Positivity Rate

The 7-day test-positivity rate began moving up slightly in the last several days. However, this rate remains strong by historical levels and below the target set by the World Health Organization.

Test-Positivity Rate

7-Day Average, Through March 28

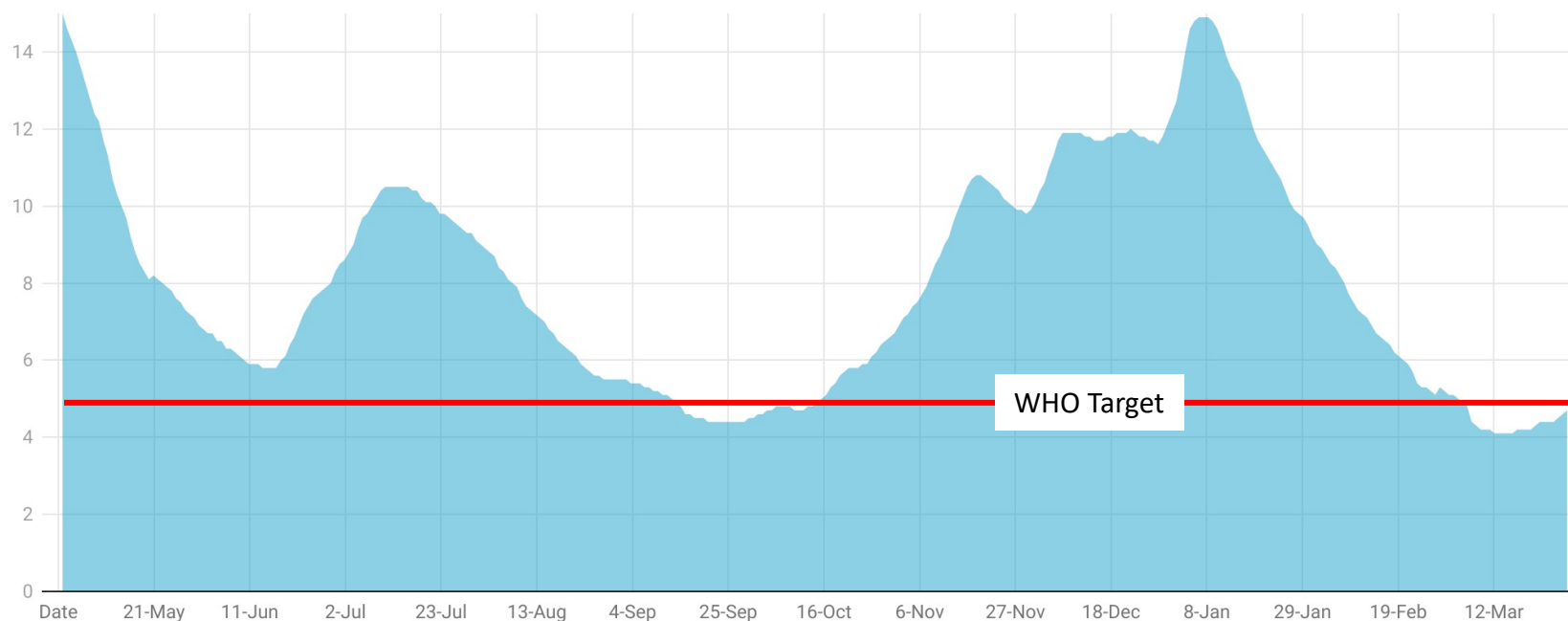


Chart: Health Industry advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Covid-19 "Vital Signs"

Test-Positivity Rate

The test-positivity rate increased slightly last week yet remains below the suggested WHO target.

Test-Positivity Rate

As of March 25

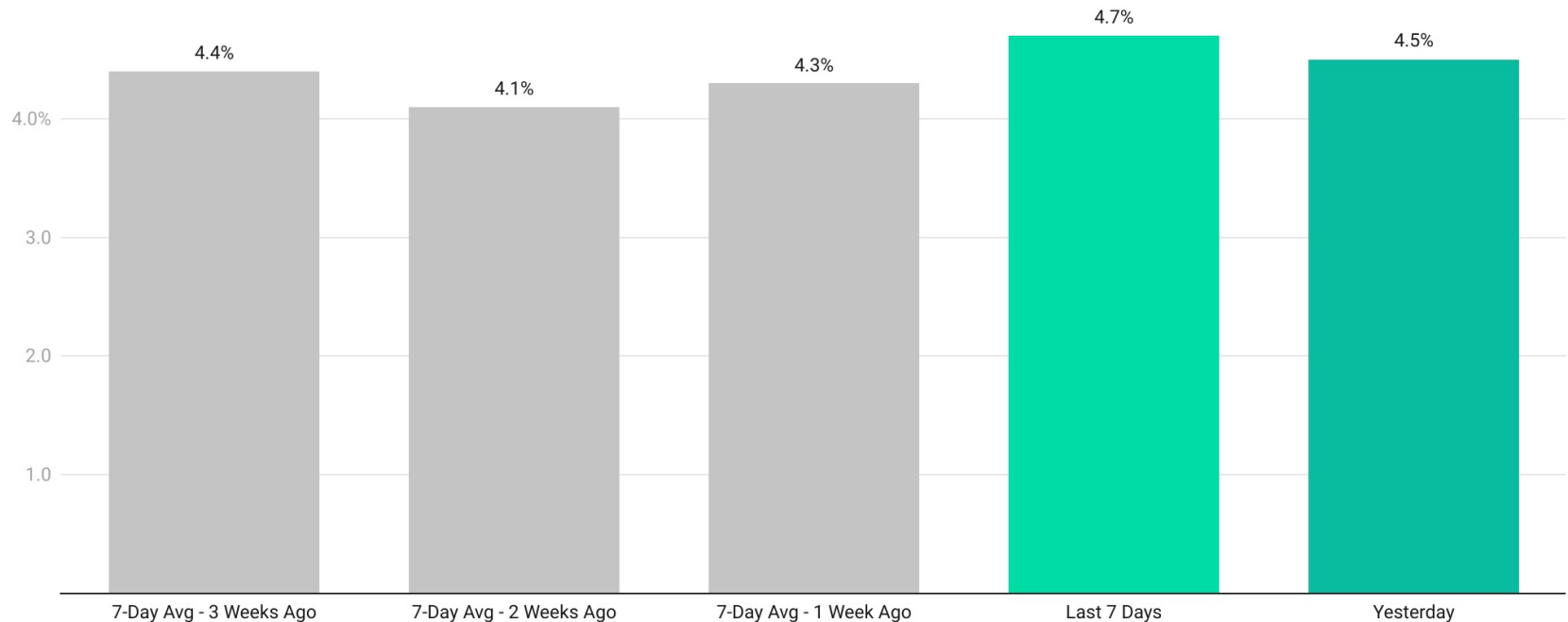


Chart: Health Industry Advisor LLC • Source: The Atlantic • Created with Datawrapper

Covid-19 "Vital Signs"

Covid-19 Inpatient Census

Covid-19 inpatient census declined sharply from early February levels (when the Department of Health & Human Services began tabulating these data.)

Covid-19 Inpatient Census

Through March 28

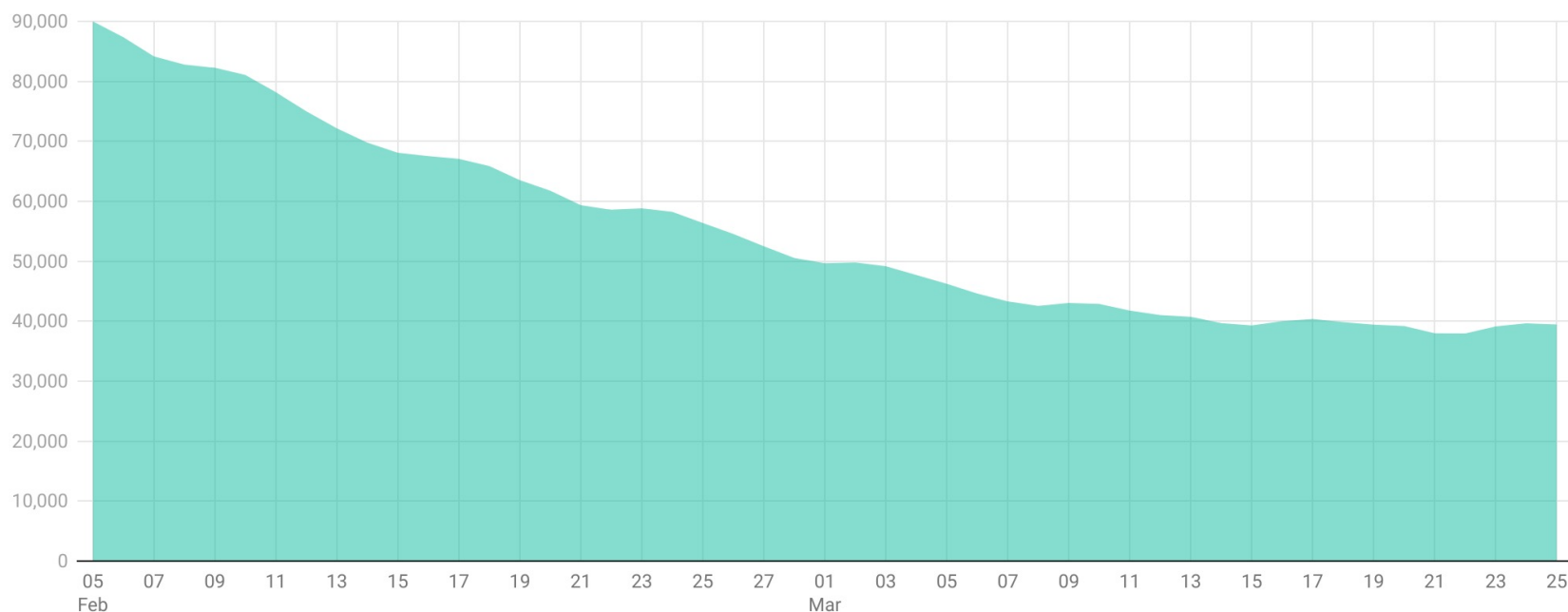


Chart: Health Industry advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Covid-19 Inpatient Census

Covid-19 inpatient census was stable week-over-week, after falling 4% to 16% per week during the previous three weeks.

Hospitalized Covid-19 Patients

Compared to Same Day, Prior Weeks, As of March 28

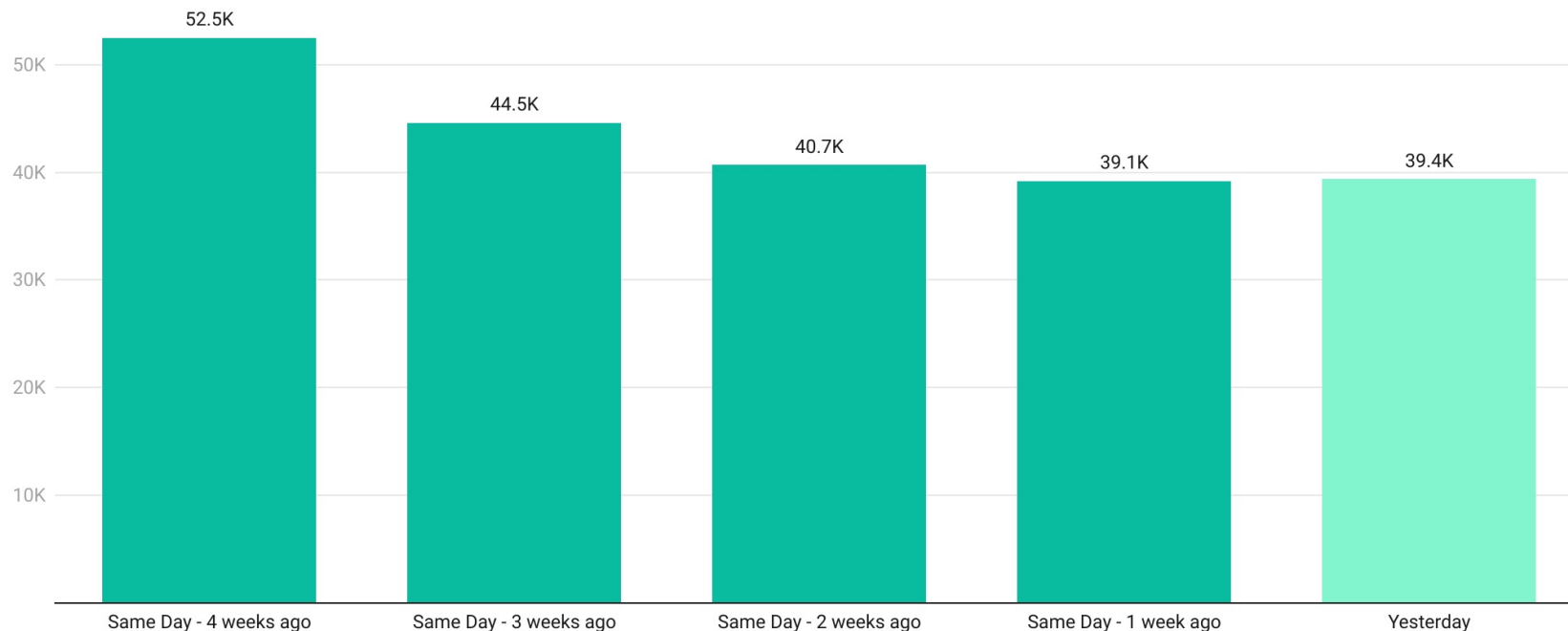


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Covid-19 “Vital Signs”

Deaths With Coronavirus

Deaths with coronavirus (7-day average) have declined by 70% since a peak in late January. This rate is lower than at any time in the last twenty weeks.

Deaths With Coronavirus

7-Day Average, Through March 28



Chart: Health Industry Advisor LLC • Created with Datawrapper

Covid-19 "Vital Signs"

Deaths Reported With Coronavirus

The 7-day average death rate fell 11% from last week and 40% in three weeks. This 7-day rate has not been lower than 1,000 since the beginning of November.

Daily Deaths Reported With Coronavirus

As of March 28

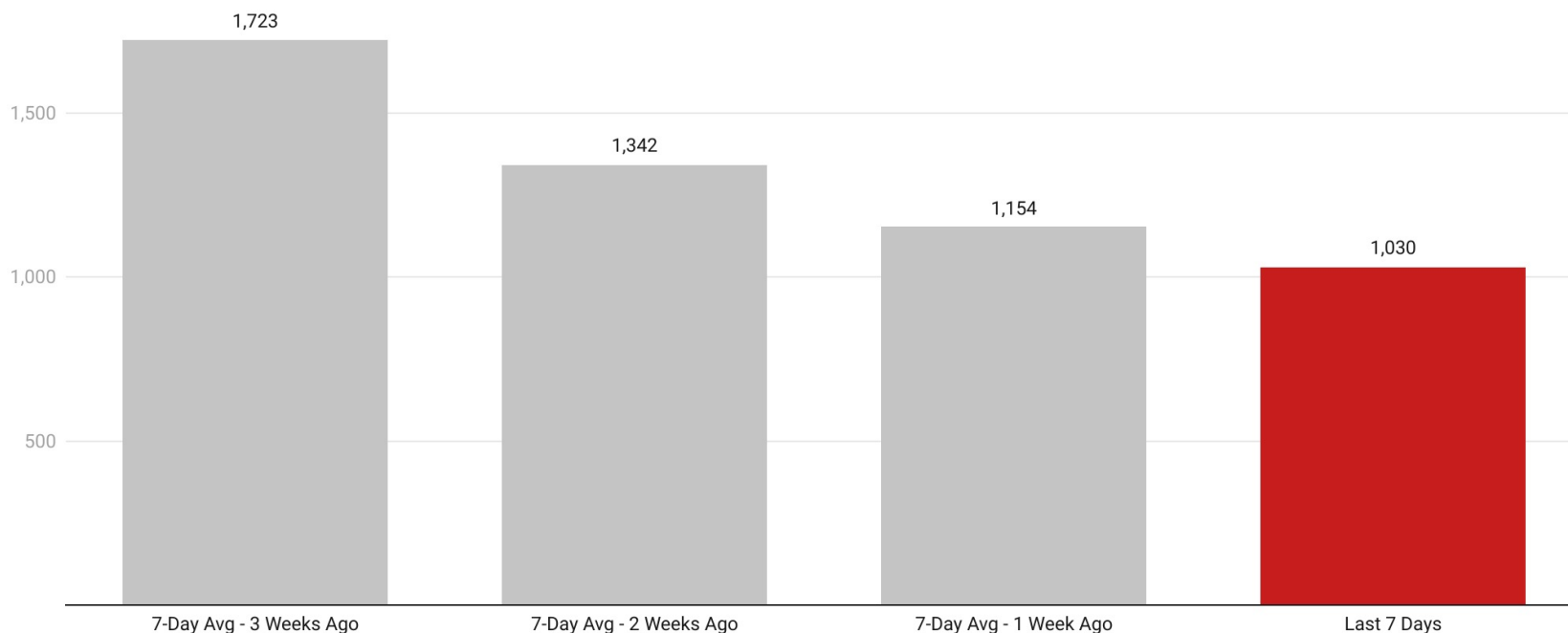


Chart: Health Industry Advisor LLC • Source: The Atlantic • Created with Datawrapper

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>
- 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>