



"Strategic Advice in an Era of Unprecedented Change"

COVID19 VITAL SIGNS

ISSUE #376

MONDAY, APRIL 4, 2022

Highlights – As of April 1

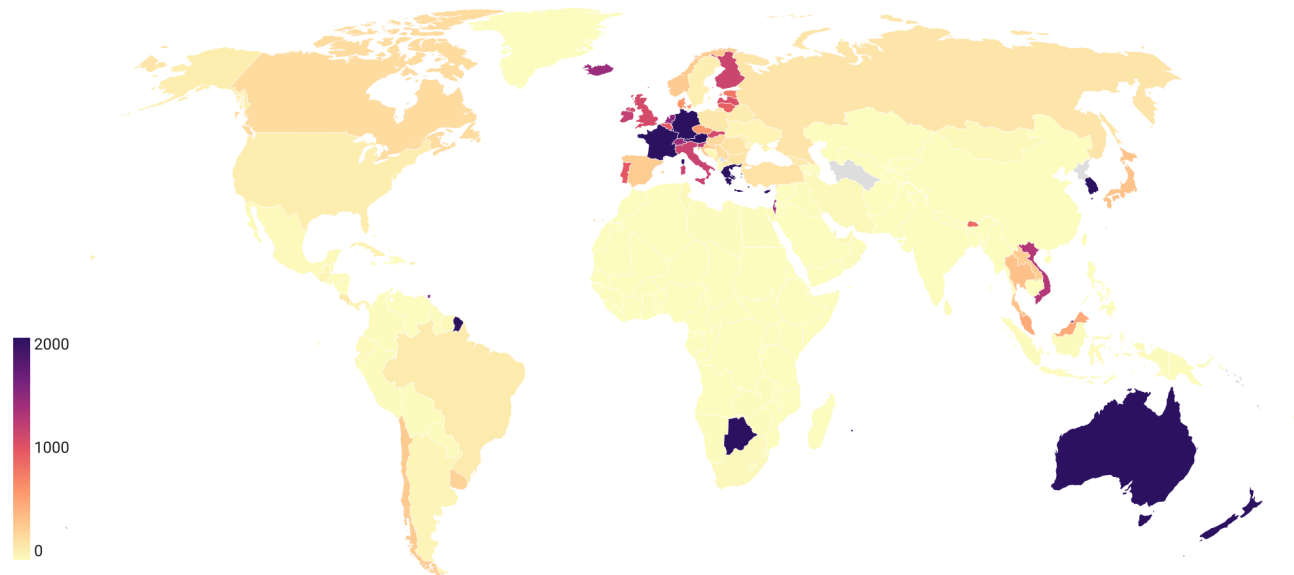
- ▶ Europe and the Asia Pacific region remain at the epicenter of Covid infections. However, cases began receding across much of Europe, without matching the peaks of the earlier Omicron wave
- ▶ New cases reported in the United States stabilized over the past week. This followed two-and-one-half months of steadily declining cases
- ▶ New cases rose in seventeen states last week, including Florida (16%), Illinois (5%), Connecticut (32%), Massachusetts (31%), New Jersey (19%), and New York (22%)
- ▶ However, hospital admissions with Covid failed to match these increased cases:
 - ▶ Thirteen of the seventeen states with increased new cases witnessed declining admissions week-to-week.
 - ▶ The four states with increased admissions saw these admissions increasing more slowly than new cases had increased
- ▶ Nationwide, admissions and patient days with Covid declined last week (15% and 21%, respectively). Fewer people were hospitalized with Covid last week than at any time since the early days of the pandemic
- ▶ The Covid situation improved across the country last week.
 - ▶ The CDC's Community Level system reported that 95% of communities rated "Low" for transmission and hospital impact, up from 91% a week ago
 - ▶ Only seventeen communities rated "High" last week (0.5%), down from 53 a week earlier (1.65%)
- ▶ Vaccination effectiveness waned slightly yet remained strong in protecting against infection and hospitalization
 - ▶ Full vaccination lowered the risk of infection by 70%, according to data from New York state. This rate exceeded 90% in early May 2021
 - ▶ Full vaccination lessened the risk of hospitalization by nearly 90%, down from nearly 95% in mid-May
- ▶ Fewer people died with Covid last week than any time since last August. Already, deaths were lowered by 4.5x from late-January levels
- ▶ Projected new Covid infections stabilize at current levels for the next three weeks, according to the latest ensemble forecast
- ▶ However, projected deaths with Covid fall further during each of the next three weeks. This model anticipates a 50% decline in deaths from the end of March to late-April

Europe and the Asia Pacific region remain as Covid hotspots

Global

New Daily Cases / Million

7-Day Average, As of April 1

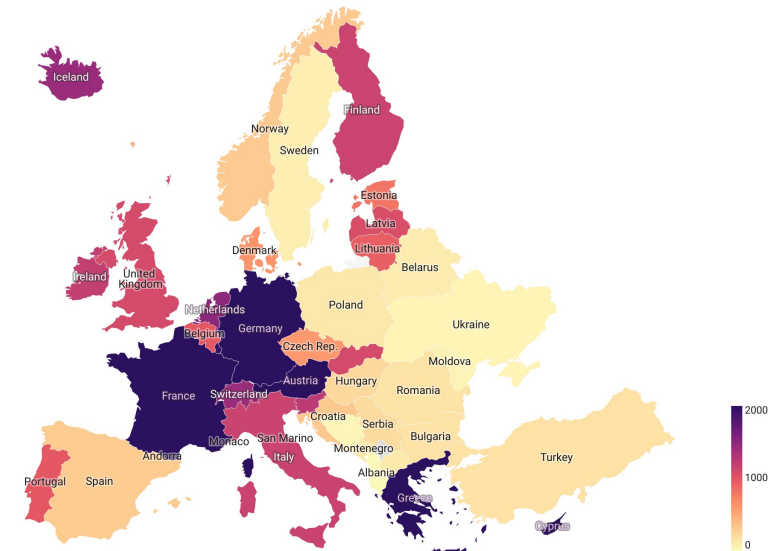


Map: Health Industry Advisor LLC • Source: worldometer.info • Created with Datawrapper

Europe

New Daily Cases / Million

7-Day Average, As of April 1



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

The Asia-Pacific region faced high infection rates last week

Oceania

New Daily Infections / Million

7 Day Average, As of April 1



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

Asia

New Daily Infections / Million

7 Day Average, As of April 1



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

Second Covid waves of 2022 struck Israel and the UK. However, these waves are milder than their January counterparts. Thus far, Sweden and the US have avoided a second 2022 wave

New Daily Cases per Million

7-Day Average, Through April 1

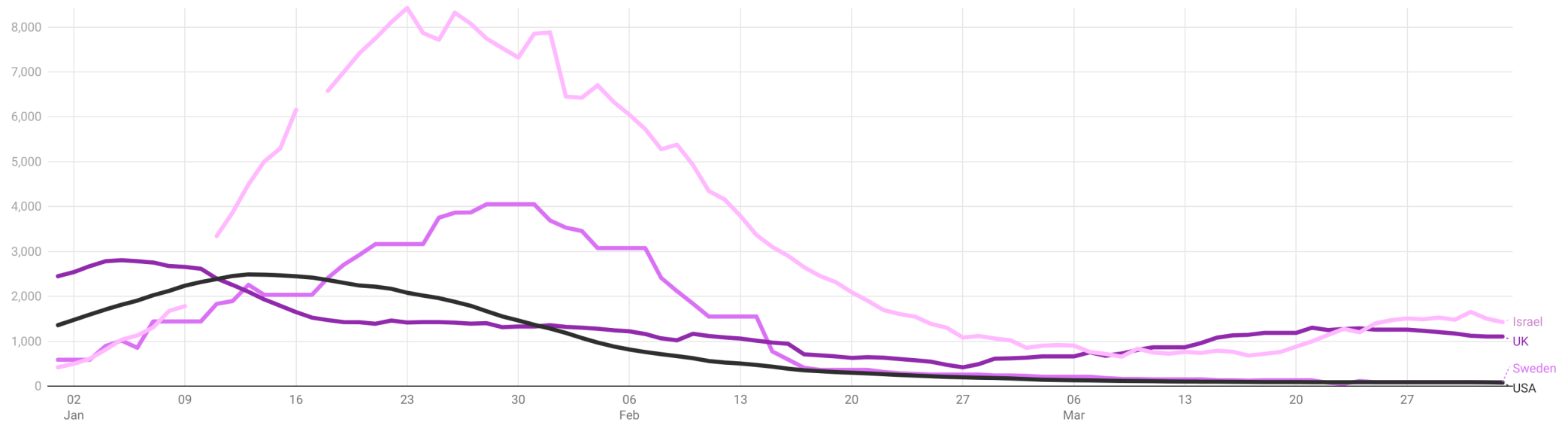


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

New cases nearly doubled in Iran last week and spiked 50% or more in the Bahamas, Barbados, Bhutan, and Malta

Week-over-Week Increase in Covid Cases

As of April

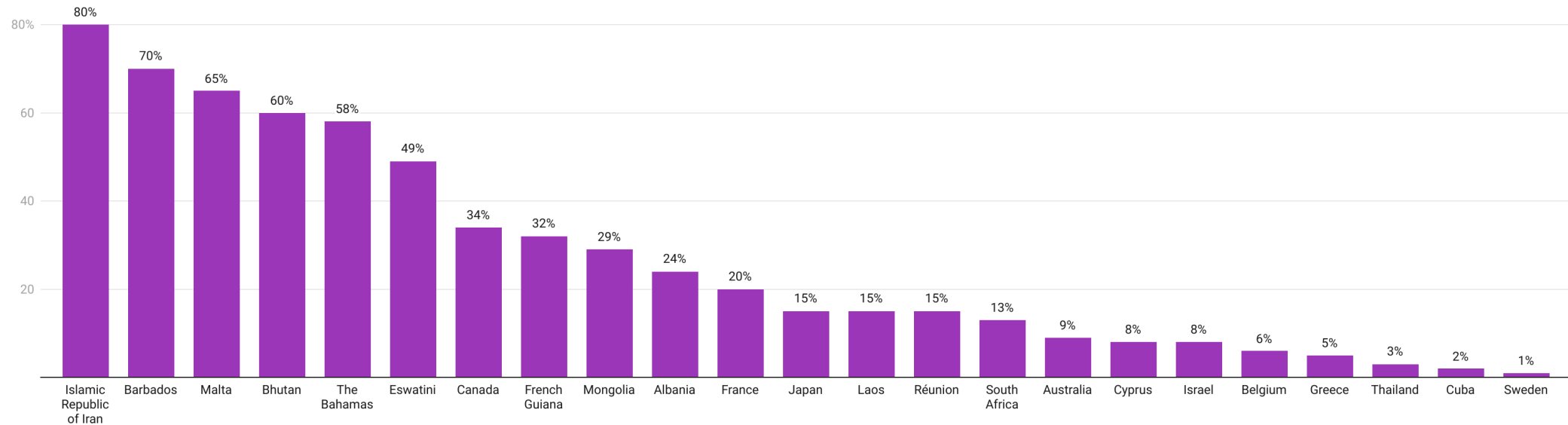
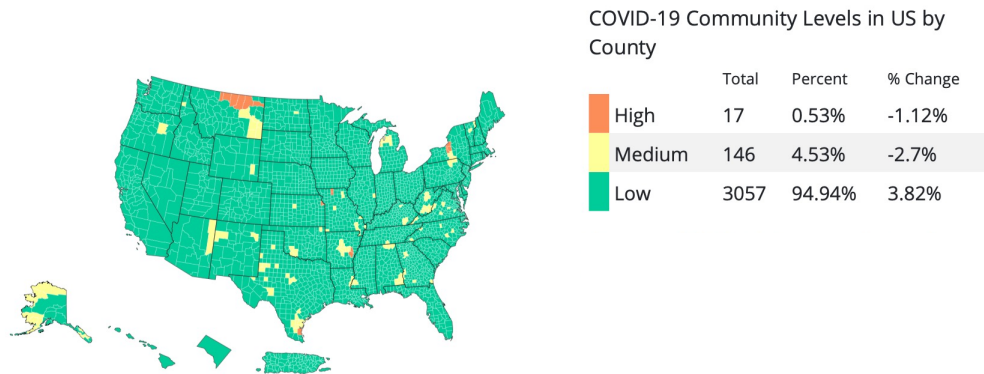


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

CDC rates most of the country as “Low” for Covid19 transmission and healthcare impact – 95% last week, up from 91% a week earlier

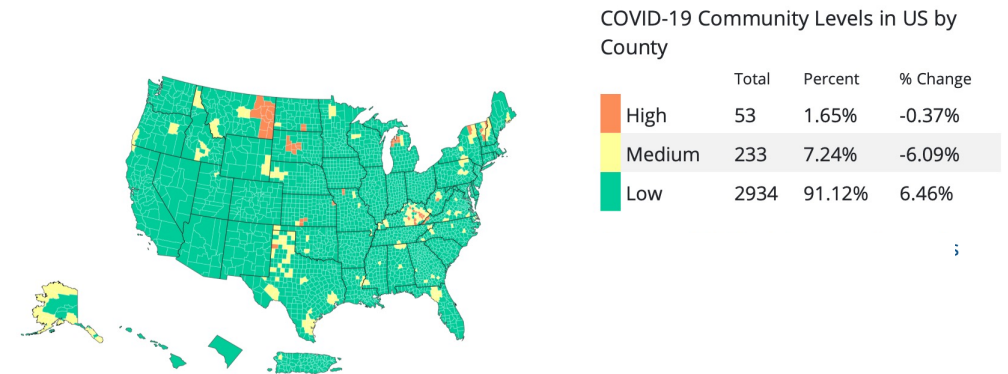
As of March 30

COVID-19 Community Levels of All Counties in US



As of March 23

COVID-19 Community Levels of All Counties in US



Low Medium High No Data

Sun Apr 03 2022 07:05:48 GMT-0400

Low Medium High No Data

Sat Mar 26 2022 05:58:58 GMT-0400

Source: https://covid.cdc.gov/covid-data-tracker/#county-view?list_select_state=all_states&list_select_county=all_counties&data-type=CommunityLevels

New Covid cases in the United States stabilized over the past week; Cases had declined week-over-week since mid-January

Week-Over-Week Change in Newly Reported Cases

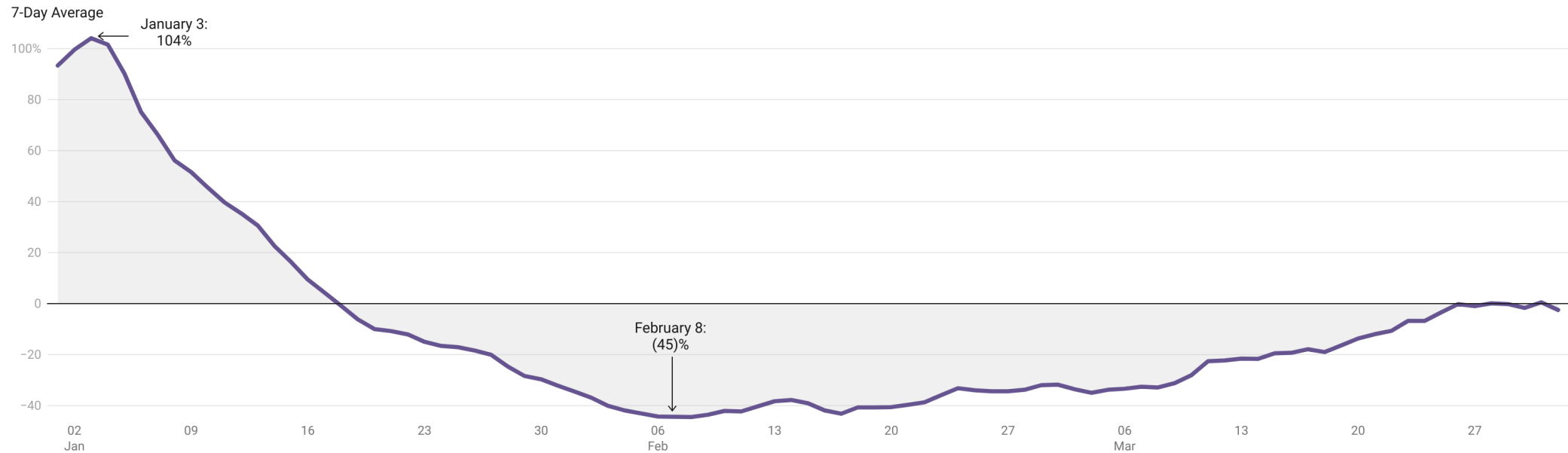
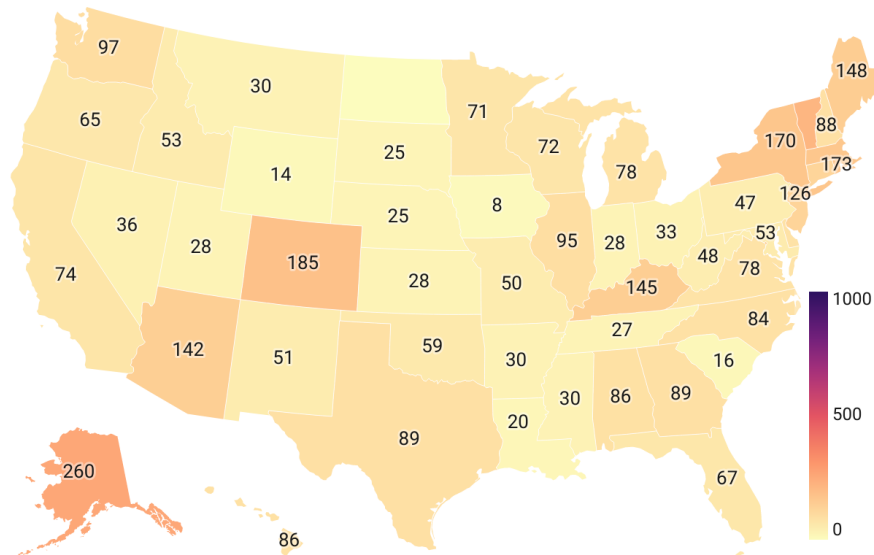


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

New case rates increased last week in Connecticut, Florida, Illinois, Massachusetts, New Jersey, and New York. New York's case rate is among the highest nationally

New Cases / Million / Day

7-Day Average, As of April 1



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

Weekly Increase (Decrease)% in New Cases

7-Day Average, As of April 1

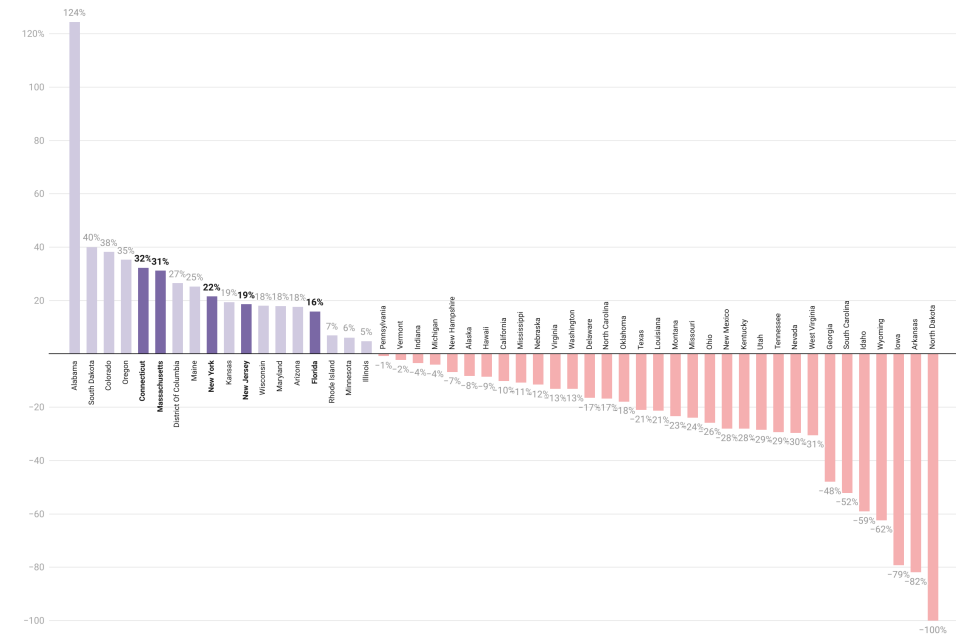


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Cases rising in Connecticut, Massachusetts, New Jersey and New York. However, admissions remain stable

New Daily Cases per Million - CT, MA, NJ, & NY

7-Day Average, Through April 1

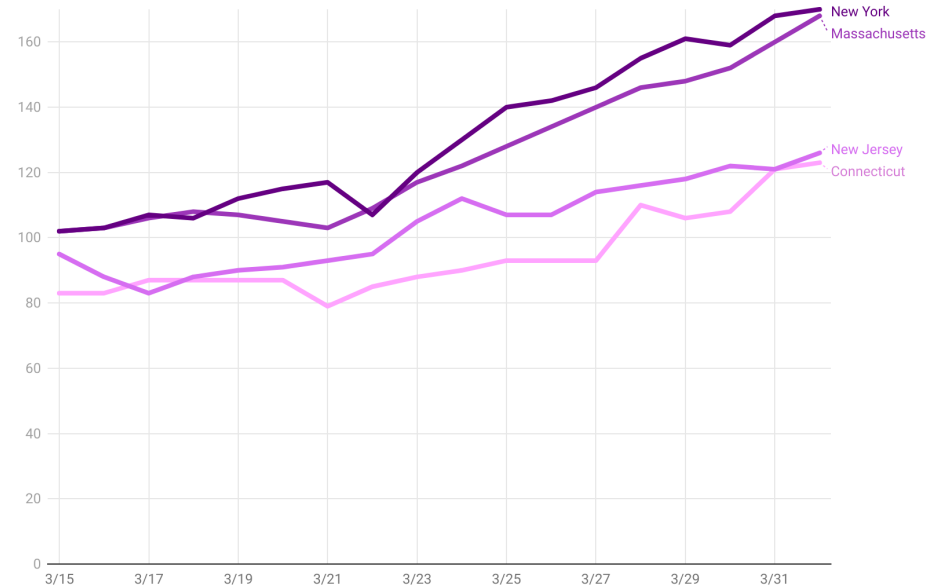


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid Admissions - CT, MA, NJ, & NY

7-Day Average, Through March 31

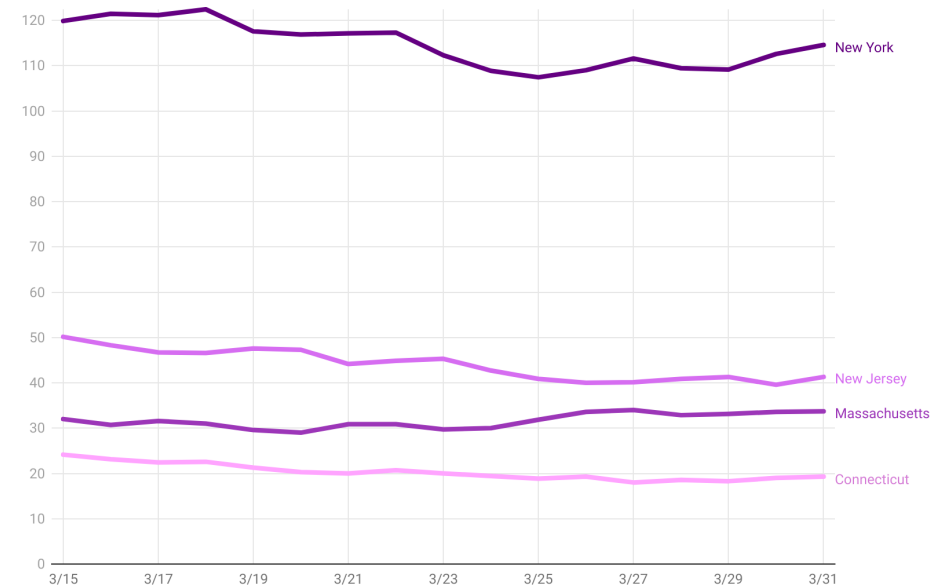


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Twenty-five Large Central Metros reported more than 100 cases per million last week. Twenty-four experienced case increases of 20% or more from the previous week

Large Central Metro Areas With Highest New Case Rates

7-day average, as of April 1

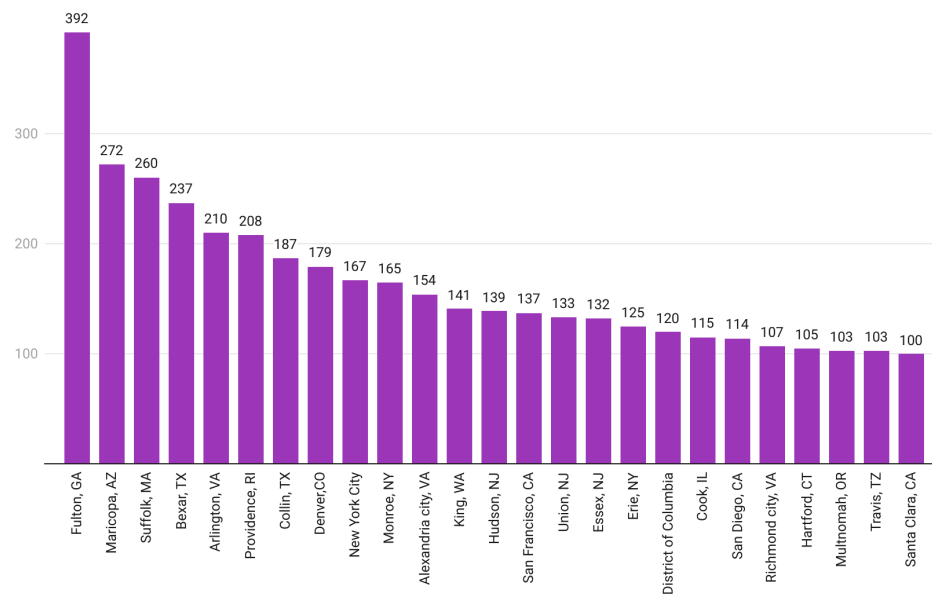


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Large Central Metro Areas With Case Increase >20% Last Week

7-day average, April 1 compared to March 25

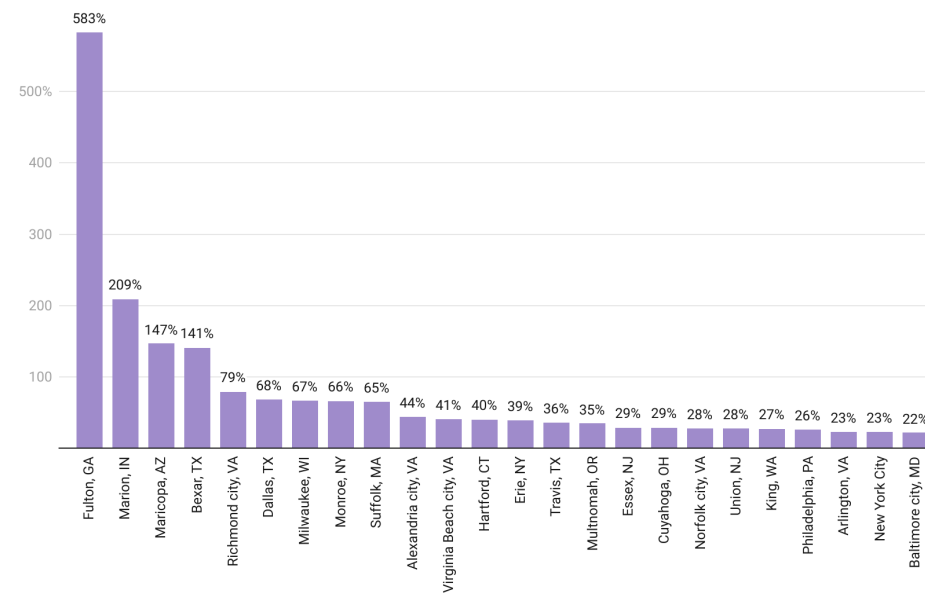
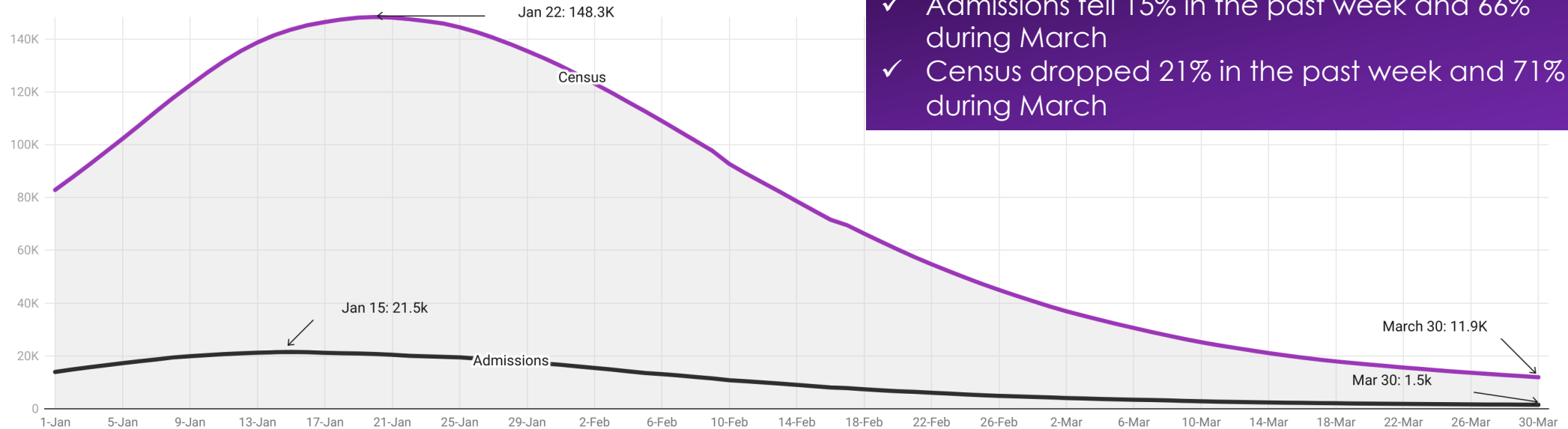


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Nationwide, Covid admissions and patient days fell to the lowest levels since the early days of the pandemic

Covid-19 Admissions & Census

7-Day Average Thru March 30



- ✓ Admissions fell 15% in the past week and 66% during March
- ✓ Census dropped 21% in the past week and 71% during March

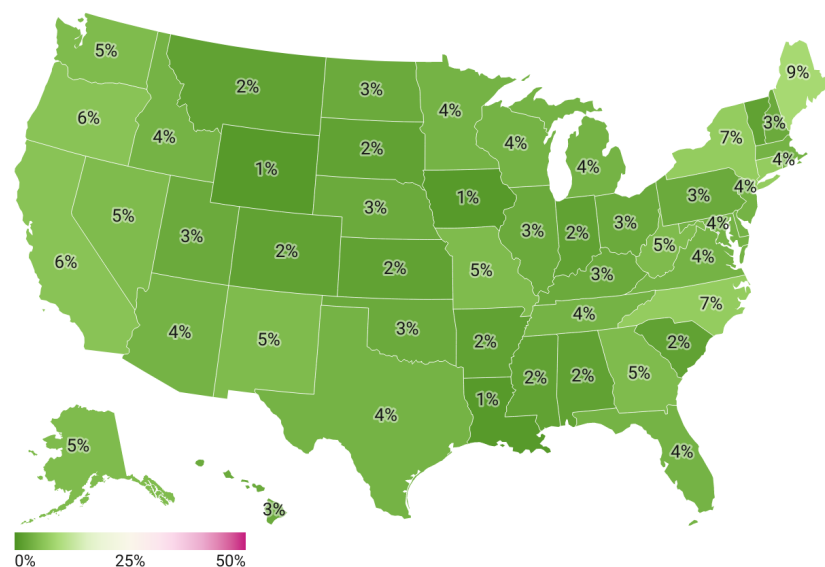
Chart: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

Hospital Covid census plunged across the country. Nationally, Covid patients occupy one of every twenty-six beds. Just a month ago, this ratio stood at one in seven.

As of March 30

Covid-19 Patients As % of All Inpatient Beds

As of March 30

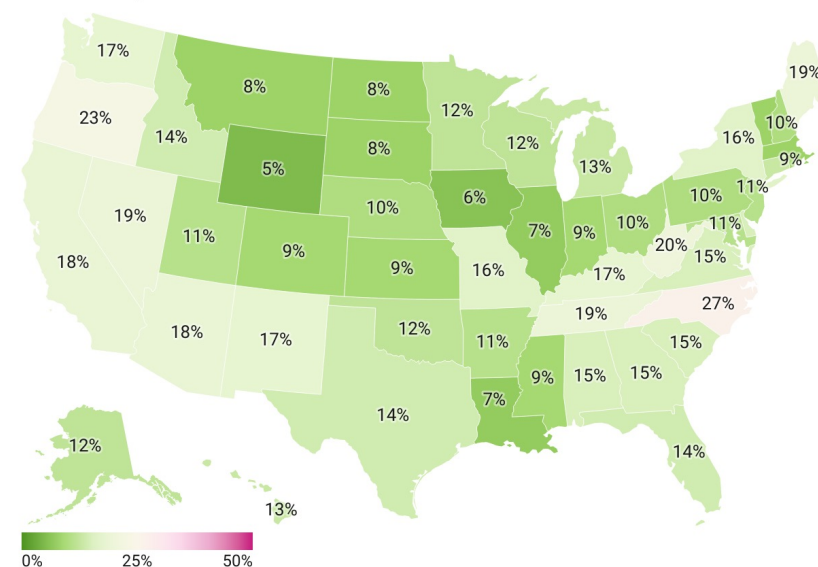


Map: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

As of February 27

Covid-19 Patients As % of All Inpatient Beds

As of February 27



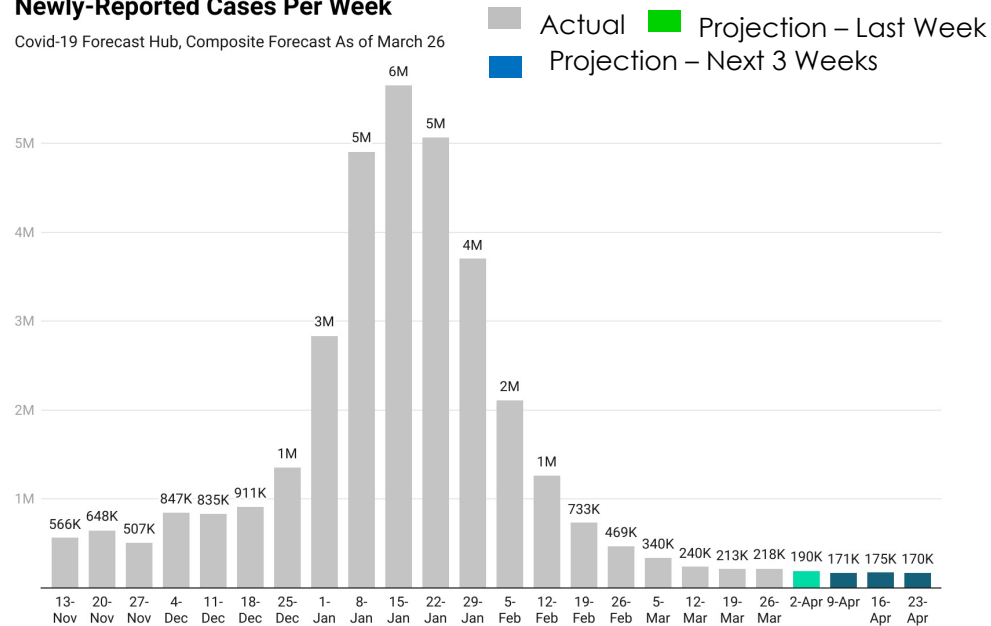
Map: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

An ensemble forecast predicts cases will stabilize and deaths will further decline over the next three weeks

Forecasted Infections

Newly-Reported Cases Per Week

Covid-19 Forecast Hub, Composite Forecast As of March 26



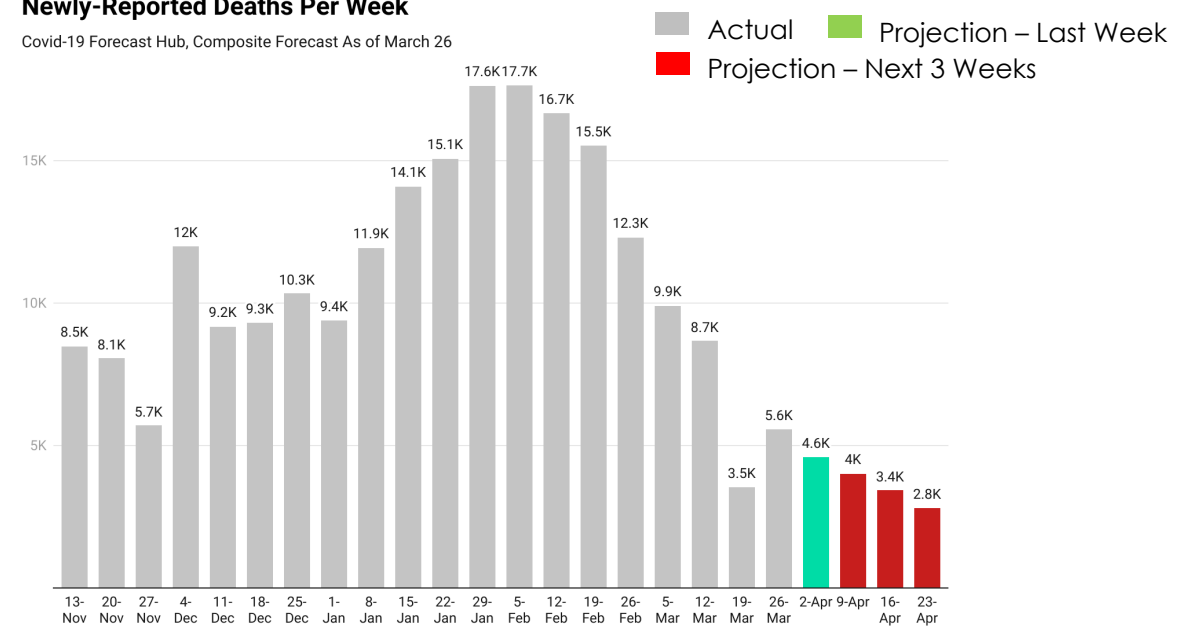
For the week ending on the date shown

Chart: Health Industry Advisor LLC • Source: Covid-19 Forecast Hub • Created with Datawrapper

Forecasted Deaths

Newly-Reported Deaths Per Week

Covid-19 Forecast Hub, Composite Forecast As of March 26



For the week ending on the date shown

Chart: Health Industry Advisor LLC • Source: Covid-19 Forecast Hub • Created with Datawrapper

The test-positive remains below public health guidelines

Test-Positivity Rate

7-Day Average, Through March 29

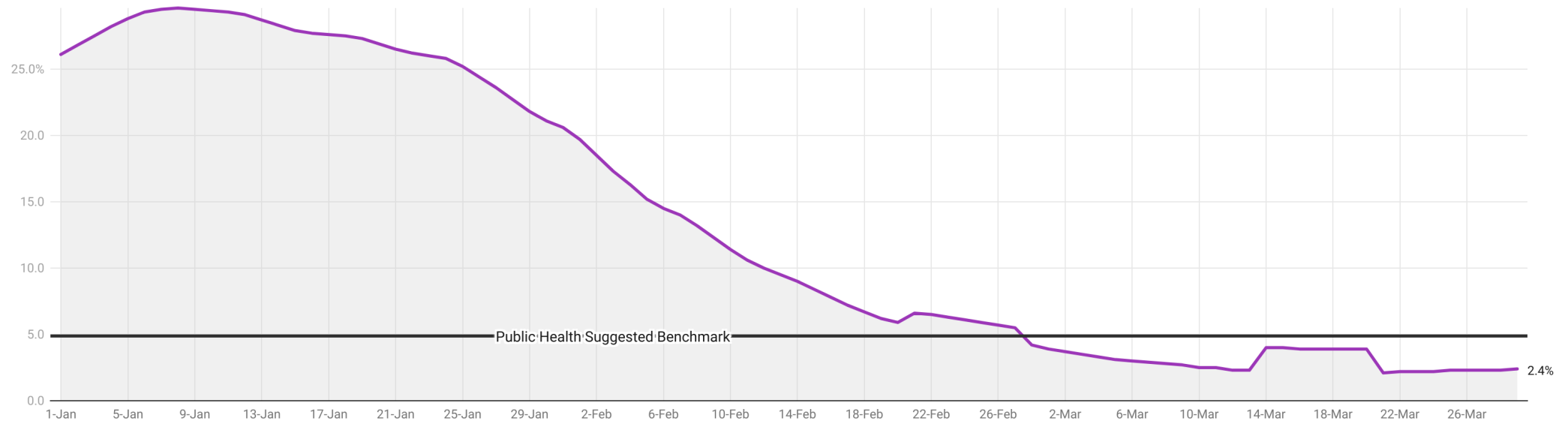


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Fewer people died with Covid last week than any time in the past seven months

Deaths With Coronavirus

7-Day Average, Through April 1

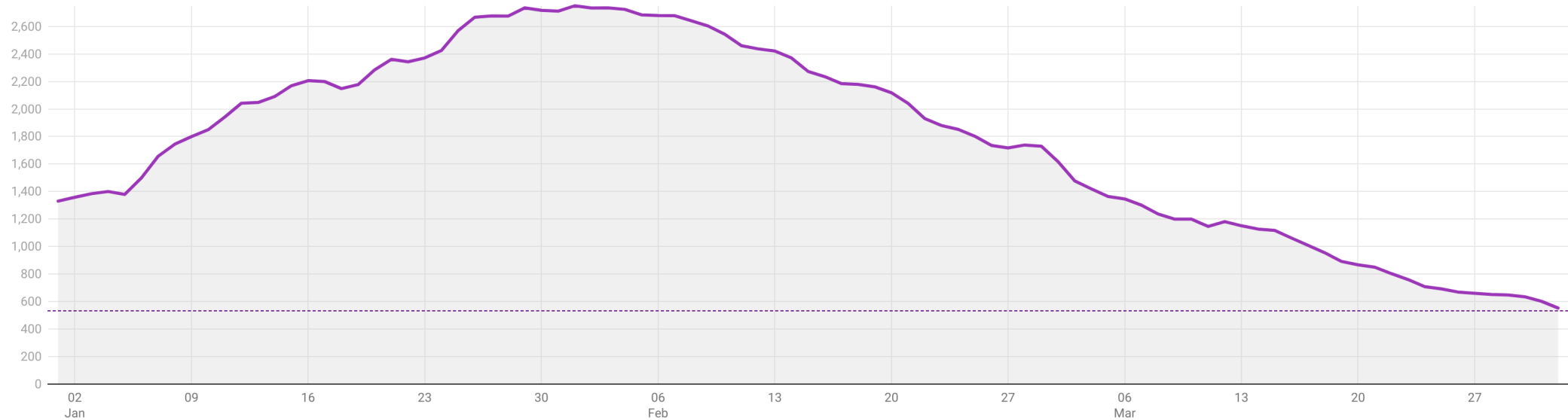


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Vaccines proved effective in lowering infection and hospitalization risk during BA.1 wave and again during BA.2

Cases

Daily Cases Per 100,000: Fully Vaccinated v. Unvaccinated

New York State

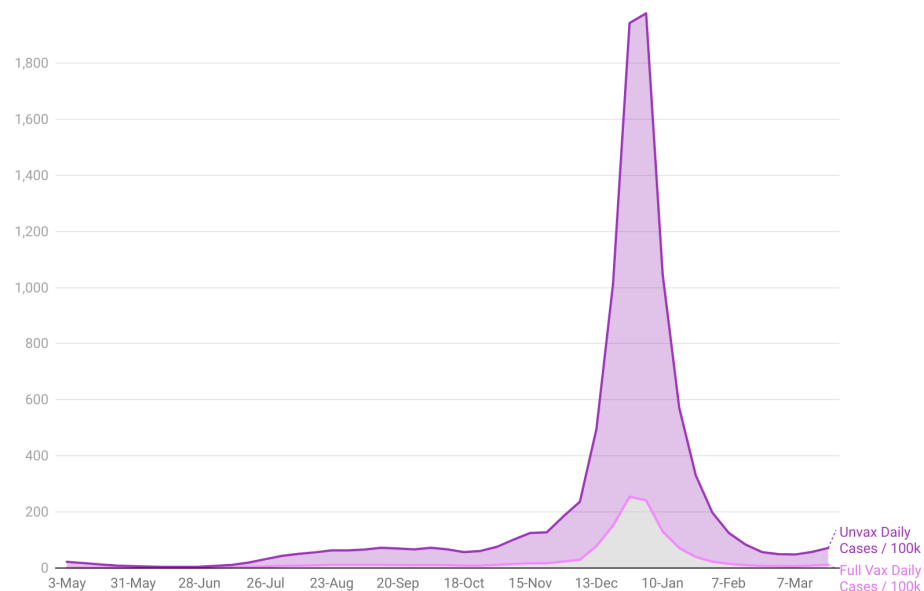


Chart: Health Industry Advisor LLC • Source: New York State • Created with Datawrapper

Week Starting

Hospitalizations

Daily Hospitalizations Per 100,000: Fully Vaccinated v. Unvaccinated

New York State

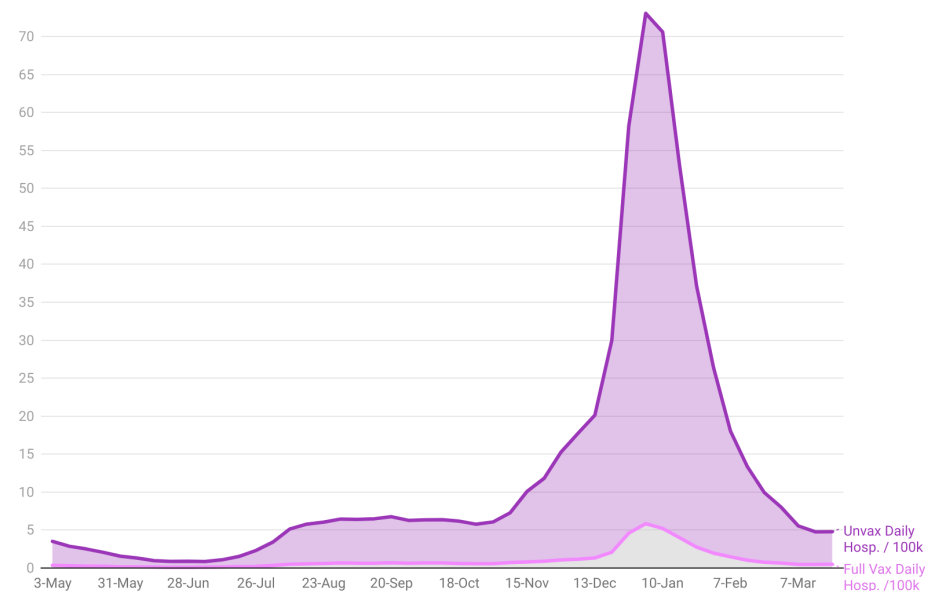


Chart: Health Industry Advisor LLC • Source: New York State • Created with Datawrapper

Week Starting

Vaccine Effectiveness wanes over time yet remains strong. Full vaccination lowered risk of infection by nearly 70% and hospitalization by nearly 90% for most recent available reporting period

Vaccine Effectiveness: Cases & Hospitalizations

New York State

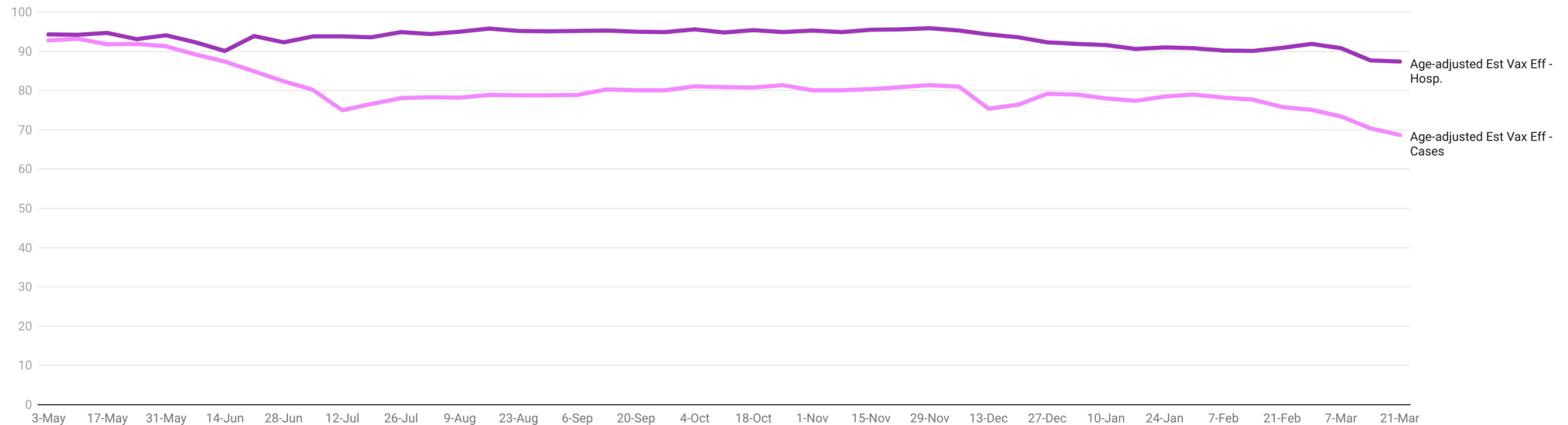


Chart: HealthIndustry Advisor LLC • Source: New York state • Created with Datawrapper

Sources

- ▶ Bloomberg Vaccine Trackers, <https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/?sref=Z0b6TmH>
- ▶ 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, COVID-19 Laboratory-Confirmed Hospitalizations https://gis.cdc.gov/grasp/COVIDNet/COVID19_5.html
- ▶ 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, Vaccines, <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html>
- ▶ COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University <https://github.com/CSSEGISandData/COVID-19>
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- ▶ U.S. Department of Health & Human Services <https://beta.healthdata.gov/dataset/COVID-19-Diagnostic-Laboratory-Testing-PCR-Testing/j8mb-icvb>
- ▶ U.S. Department of Health & Human Services: <https://healthdata.gov/dataset/covid-19-estimated-patient-impact-and-hospital-capacity-state>
- ▶ Worldometers.info: <https://www.worldometers.info/coronavirus/>
- ▶ Yale School of Public Health & Harvard TH Chan School of Public Health, <https://covidestim.org>