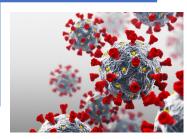


"Strategic Advice in an Era of Unprecedented Change"









Covid-19 "Vital Signs"

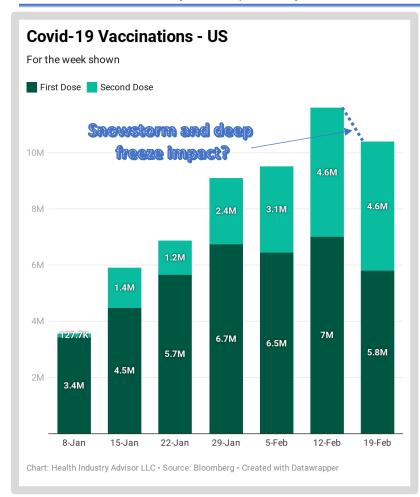
Issue # 288 February 20, 2021

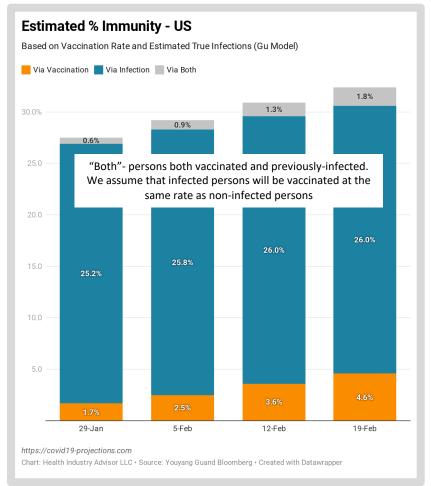
Covid-19 "Vital Signs"

Vaccination and Immunity Status - US

Vaccinations slowed this week, likely due to the widespread snowstorms and deep-freeze in Texas

Estimated immunity neared one-third of the US population, still mostly coming from a prior infection





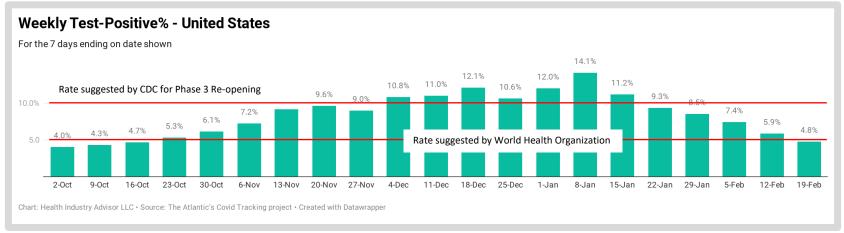




Covid-19 Testing

Testing declined for the fifth straight week, suggesting that fewer people are concerned about a recent exposure. Test-positivity met the World Health Organization's guidance – for the first time since mid-October.



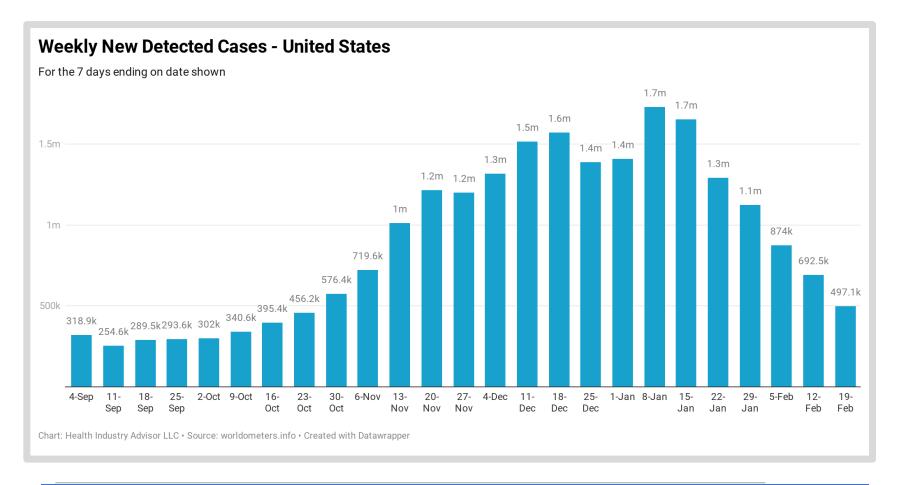






Newly Detected Cases

New cases dropped for the sixth successive week, plunging to just more than one-third of the early-January peak. We are seeing fewer new cases now than any time since mid-October.

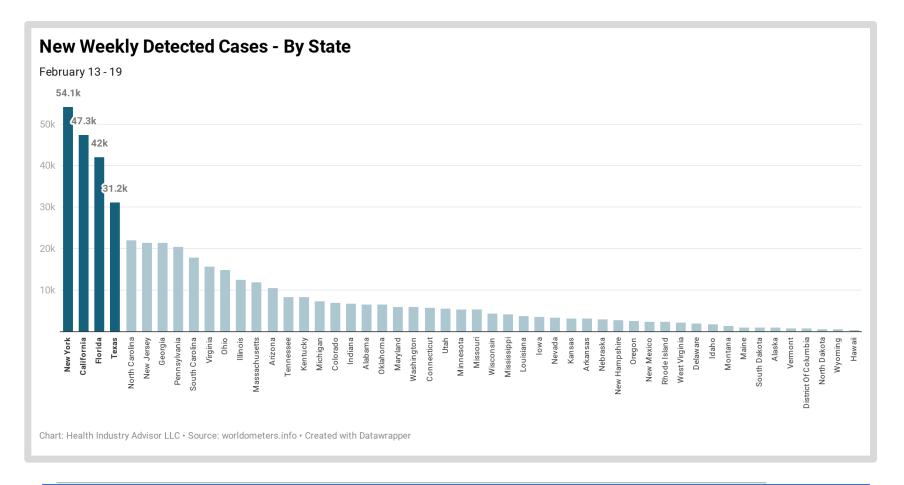






Newly Detected Cases - By State

California, Florida, New York and Texas accounted for 35% of all new cases in the US over the past seven days.

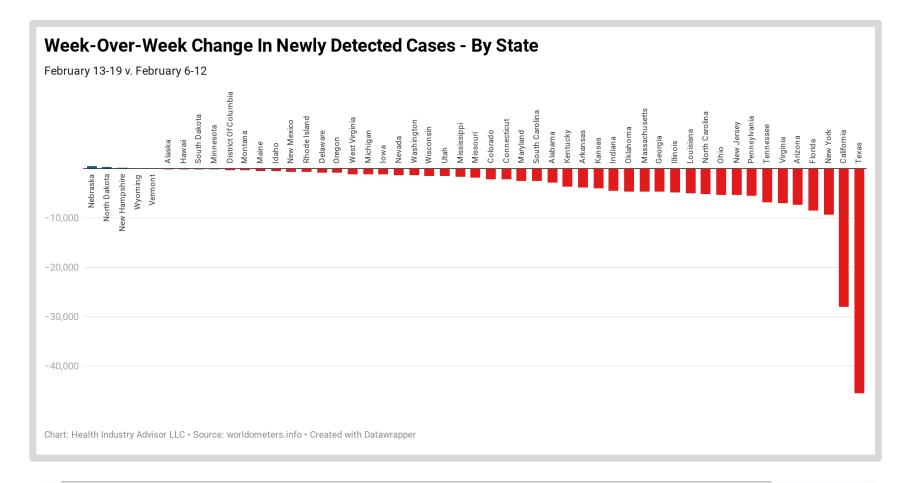






Week-Over-Week Change in Newly Detected Cases

Texas detected 31,200 fewer new cases last week than the week prior and California, 27,900 fewer.

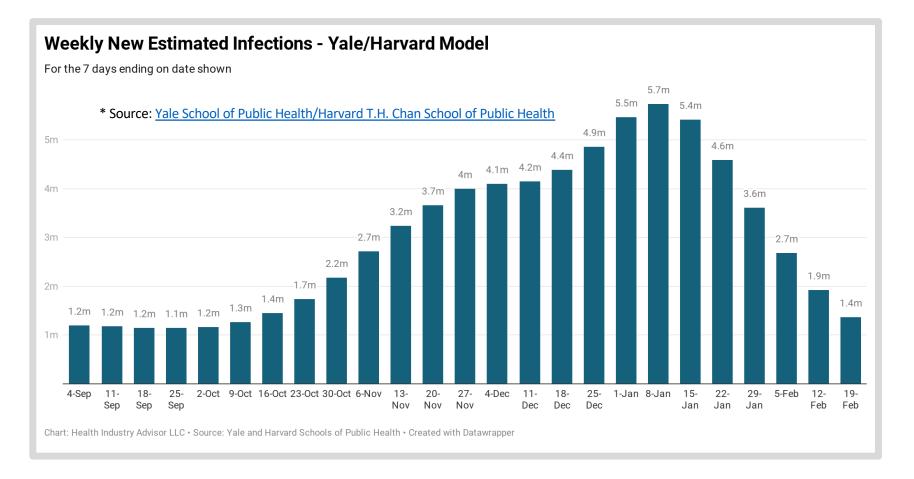






Estimated Actual Infections – Yale/Harvard Model

Estimated infections dropped for the sixth successive week, plummeting by 75% in the time. There were fewer estimated infections last week than any week since early October

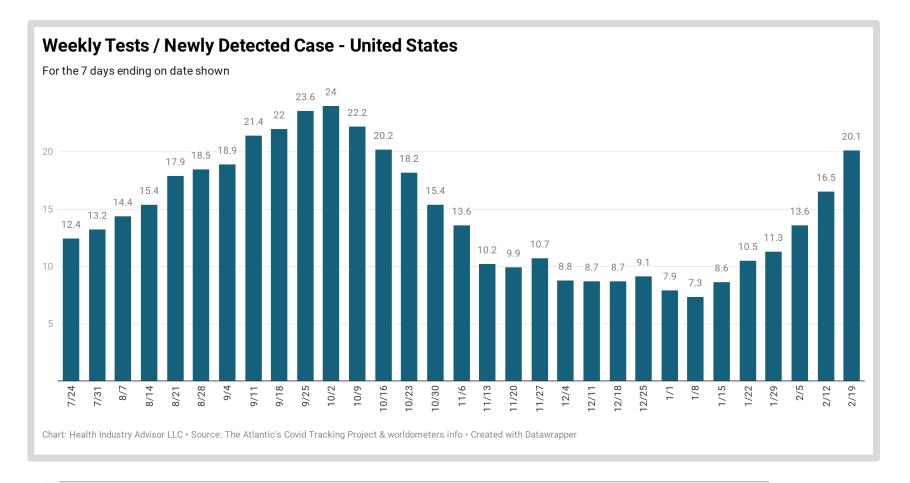




Covid-19 "Vital Signs"

Test Efficiency: Tests Per Case Detected

Test efficiency strengthened for the six successive week, thanks to an improving test-positivity and falling cases. It required 20 tests to detect a new case last week, up from a low of only 7 tests in early January.

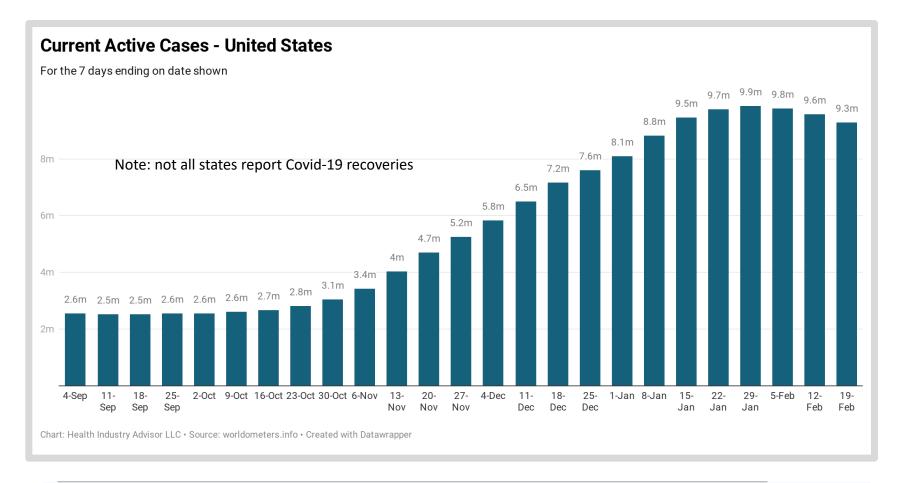






Active Cases

The number of Active Cases eased for the third straight week, as recoveries outpaced newly-detected cases

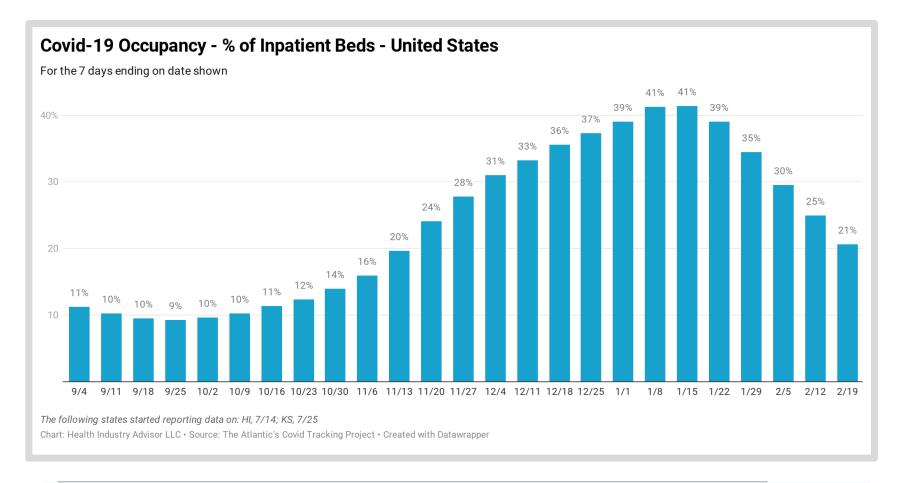






Covid-19 Hospital Occupancy

Covid-19 patients spent fewer days in the hospital for the fifth straight week. Covid-19 occupancy fell to its lowest rate since mid-November.

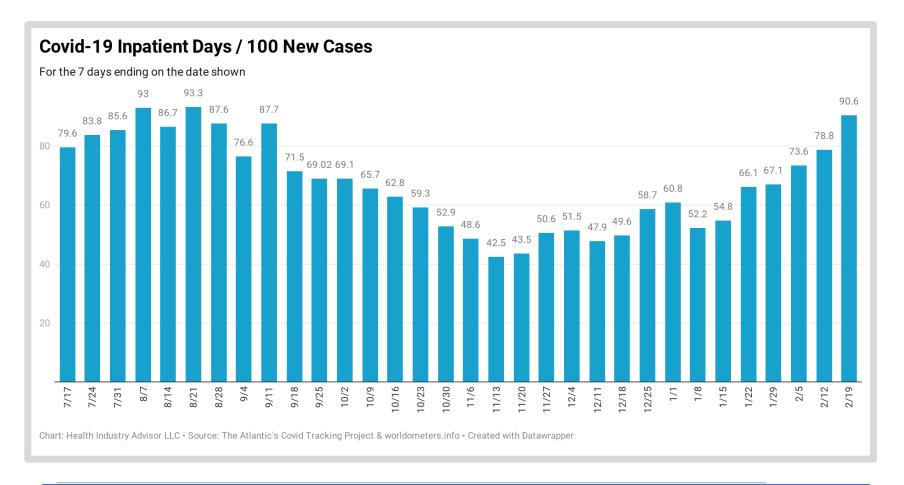






Covid-19 Patient Days / 100 New Cases

Newly-detected cases declined faster than Covid-19 census over the past month. Given the lag from new case detection to hospital discharge, Covid-19 census should decline even further in the coming weeks.

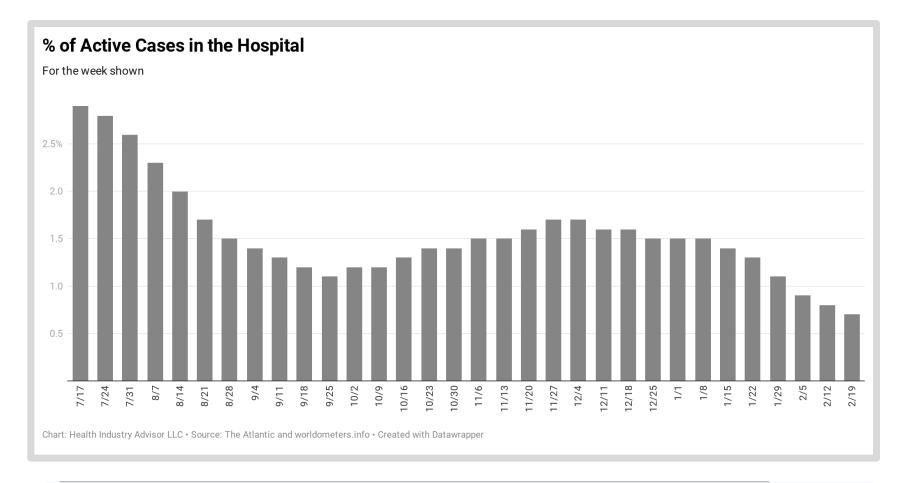






Hospitalized Covid-19 Patients / Active Cases

Active Covid-19 cases increasingly are recovering outside hospitals — more so than at any other time during the pandemic

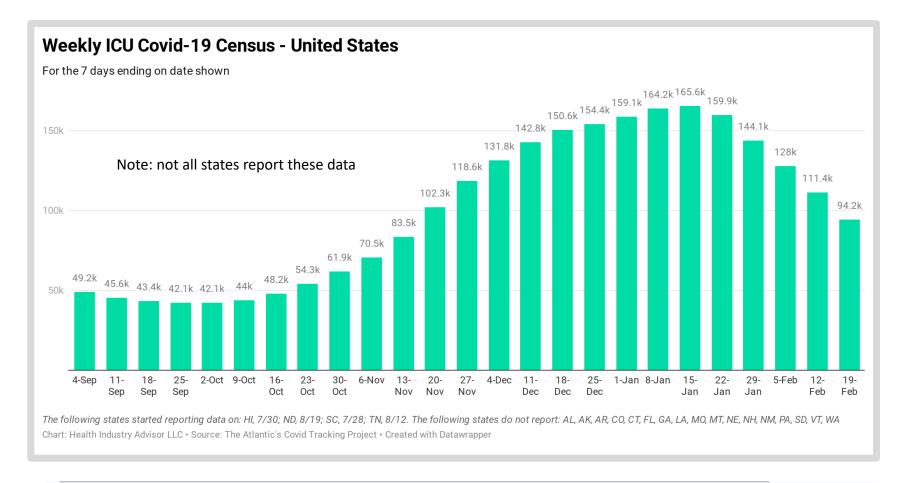






Covid-19 ICU Patient Days

Covid-19 ICU patient days declined for the fifth straight week,. There were fewer Covid-19 patients in the ICU last week than any week since the first half of November.

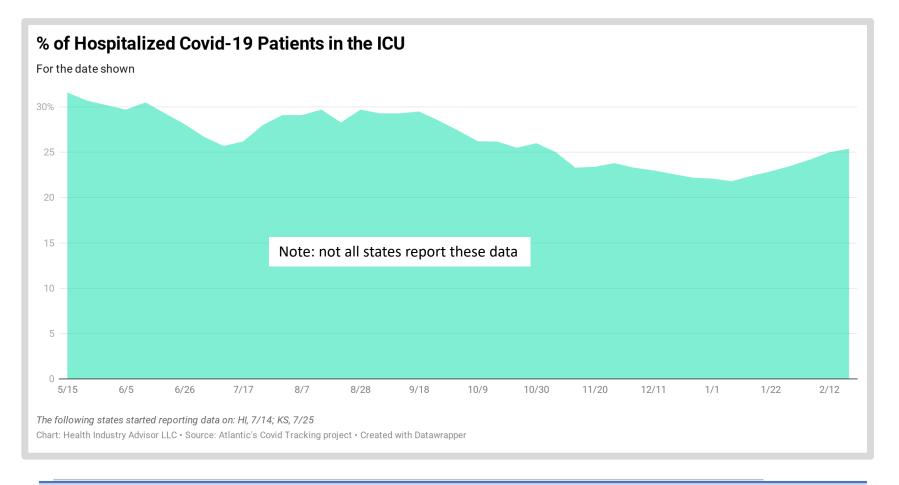






Mix of Covid-19 Patients: % in ICU

The % of Covid-19 patients requiring intensive care increased each of the past few weeks - this measure is likely a trailing indicator of the pandemic.

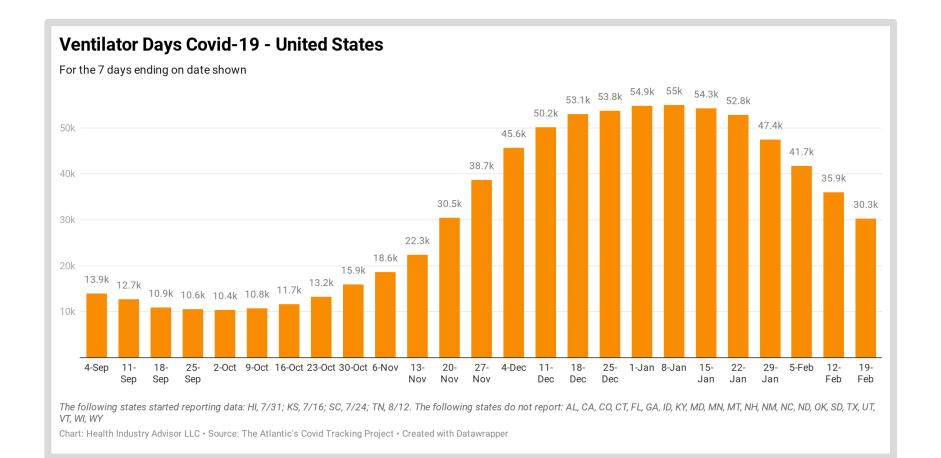






Covid-19 Ventilator Days

Covid-19 ventilator days dropped for the sixth straight week. There were 24,600 fewer Covid-19 ventilator days last week than the week of January 2-8.

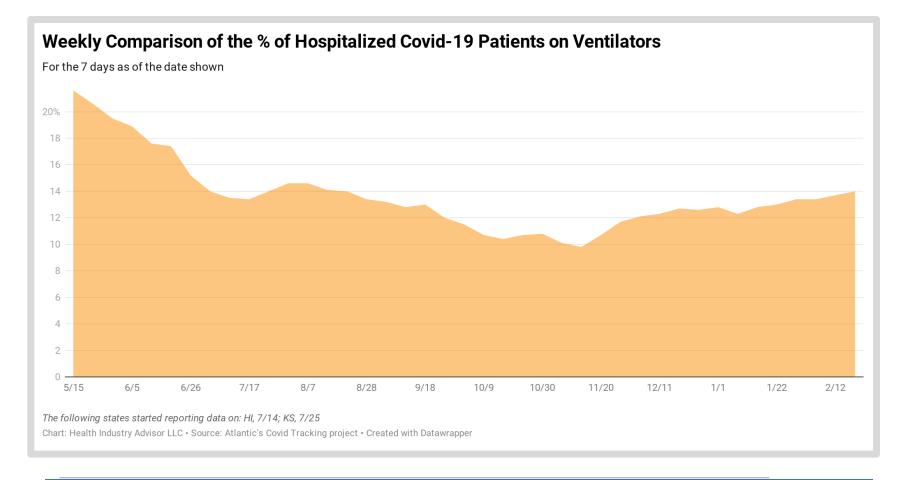






Mix of Covid-19 Patients: % on Ventilators

The % of Covid-19 patients requiring ventilator care has inched upward since the beginning of the year. Like the % of patients in the ICU, this is likely a trailing indicator of the pandemic.

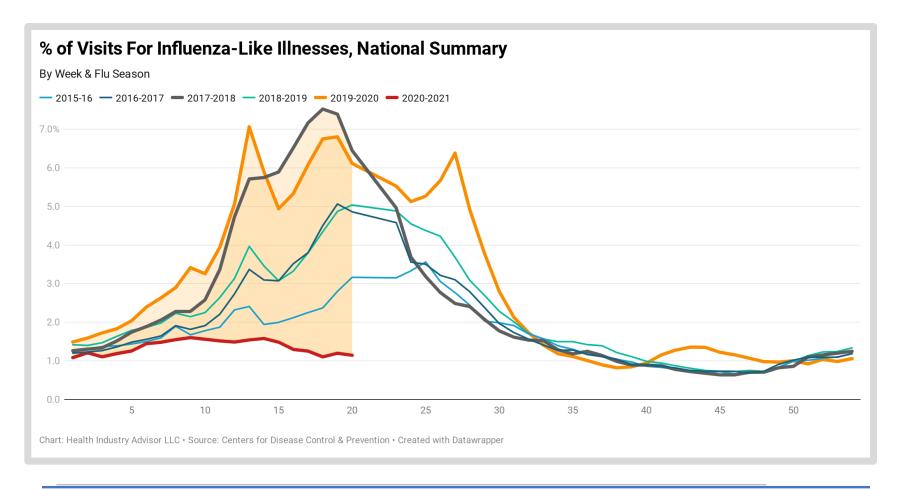






% of Visits Relating to Influenza

As we move past the normal peak of the flu season, we observe how mild this season was compared to each of the past several seasons.

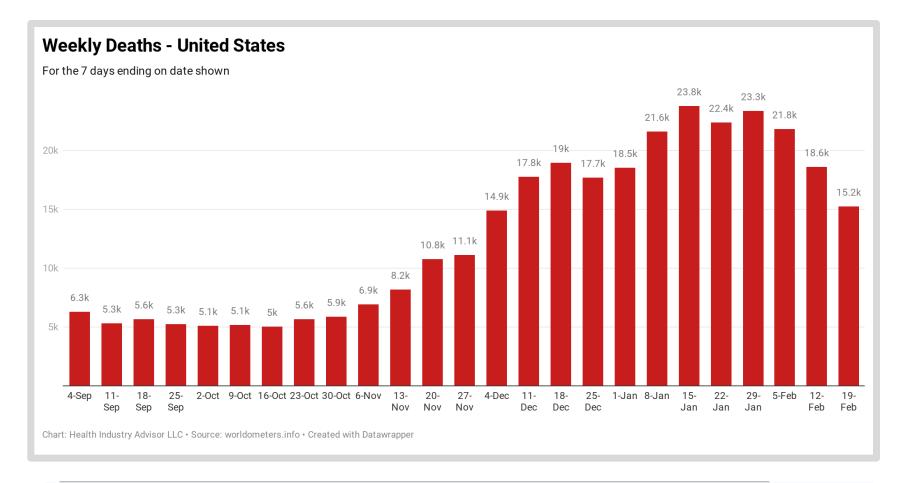






Deaths With Coronavirus

Tragically, too many people died with coronavirus last week. Still, there were fewer deaths with coronavirus last week than during any week since early December.

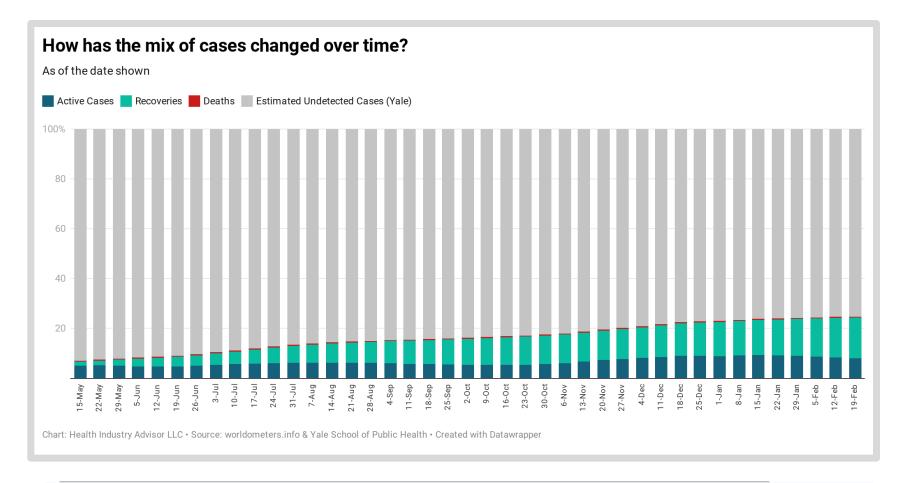






Mix of Cases – Active, Recovered, Death & Undetected

Although improving over time, most cases still go undetected







Sources

The following data sources are accessed on a daily or weekly basis

- The Atlantic's Covid Tracking Project: https://covidtracking.com
- 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
- Oliver Wyman Pandemic Navigator, <u>https://pandemicnavigator.oliverwyman.com/forecast?mode=country®ion=United%20States&panel=mortality</u>
- Rt.live
- 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=Z0b6TmHW

