Health Industry Advisor, Ilc

"Strategic Advice in an Era of Unprecedented Change"

COVID19 VITAL SIGNS

ISSUE #364

MONDAY, JANUARY 10, 2022

How Many People Were Infected Last Week? In the Last Two Weeks?

In the past 7 days alone¹, Covid infected an estimated 1 of every 12 people in the U.S.². In the past two weeks, the virus infected an estimated 1 of every 8 Americans.











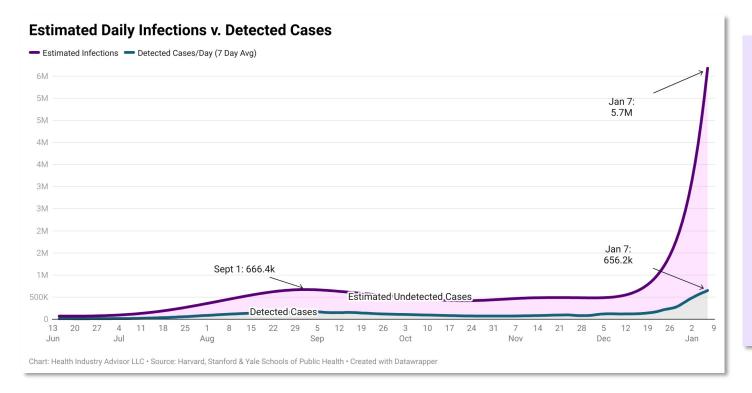




1- January 1-7, 2022

2 - Source: Calculated from https://covidestim.org model, accessed January 8, 2020

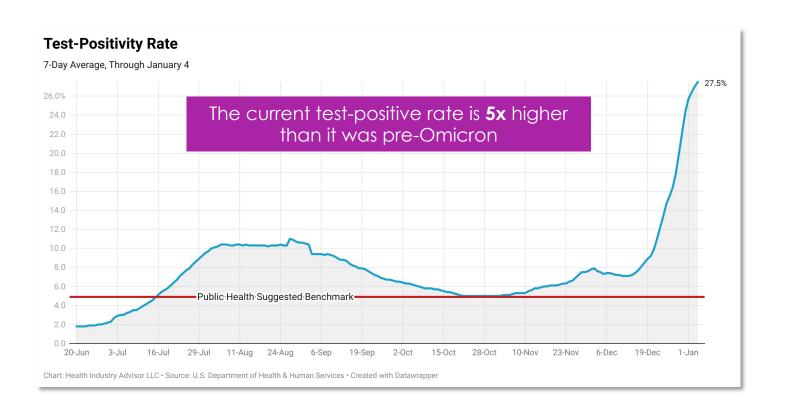
Estimated Infections Are Spiking Faster Than Reported Cases

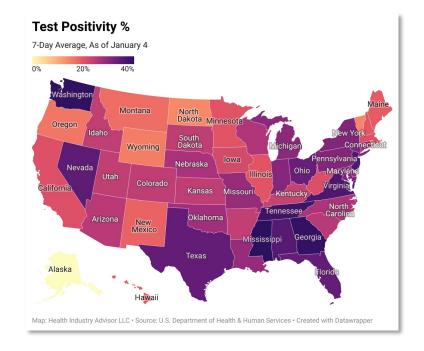


- ✓ 1.7% of the U.S. population may have been infected on Friday alone (Harvard/Stanford/Yale Schools of Public Health estimate https://covidestim.org)
- √ 12.5% of the population may have been infected since Christmas
- Estimated infections Friday were nearly 9x higher than reported cases



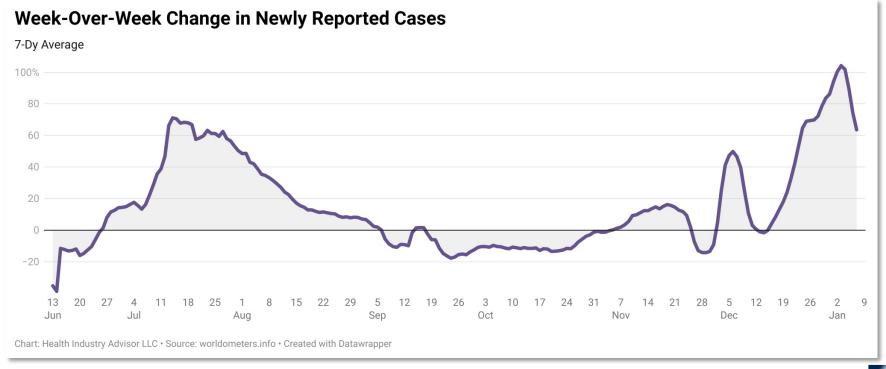
Omicron and A Lack of Test Supplies Are Driving Up Test-Positive Rates







Cases Were Nearly Doubling Each Week – Are We Now Seeing This Growth Taper?



Who is Vaccinated? Who Isn't?

- More than half of senior citizens are max protected (vaccinated + booster)
- Nearly one-in-five working age adults have no vaccine protection. One-in-five are max protected.
- Only half of middle and high school aged persons are double vaccinated
- Less than half of elementary age children have received a Covid vaccine

Vaccination Status By Age

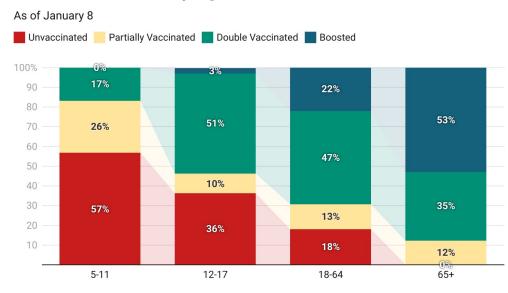
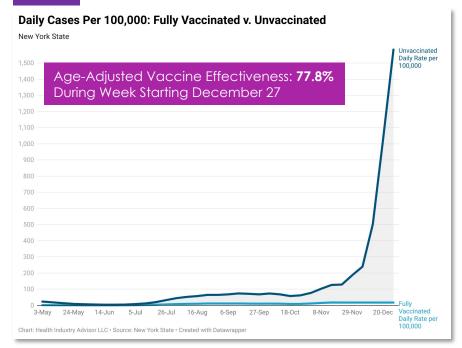


Chart: Health Industry Advisor LLC · Source: CDC · Created with Datawrapper

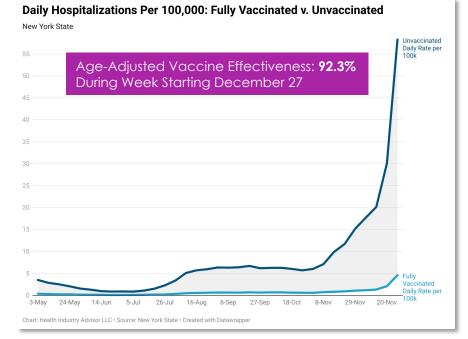


Despite Breakthrough Cases, Vaccines Prevent Many Infections and Most Hospital Stays

Cases



Hospitalizations



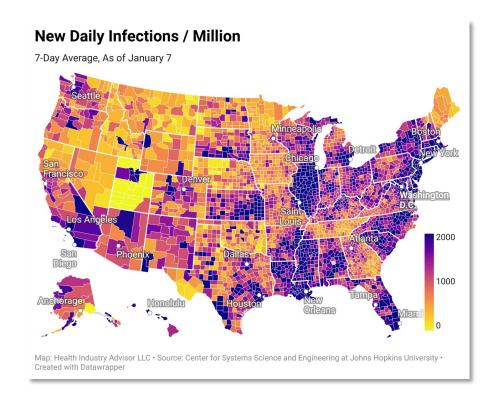
For the most recently reported week:

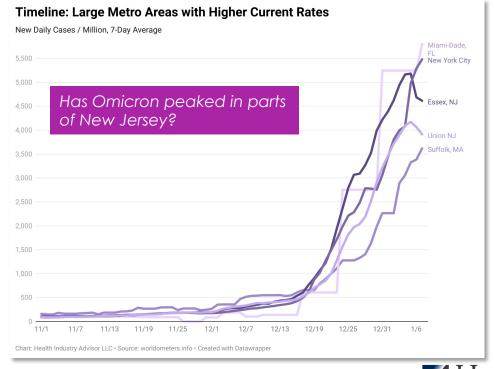
- 1-in-4,480 vaccinated persons reported a new breakthrough case
- ✓ 1-in-63 unvaccinated persons reported a new case
- √ 1-in-21,786 vaccinated persons were hospitalized
- √ 1-in-1,716 unvaccinated persons were hospitalized

Week Starting Week Starting



Omicron Spread Quickly Across the Country, Especially in Heavily-Populated Areas

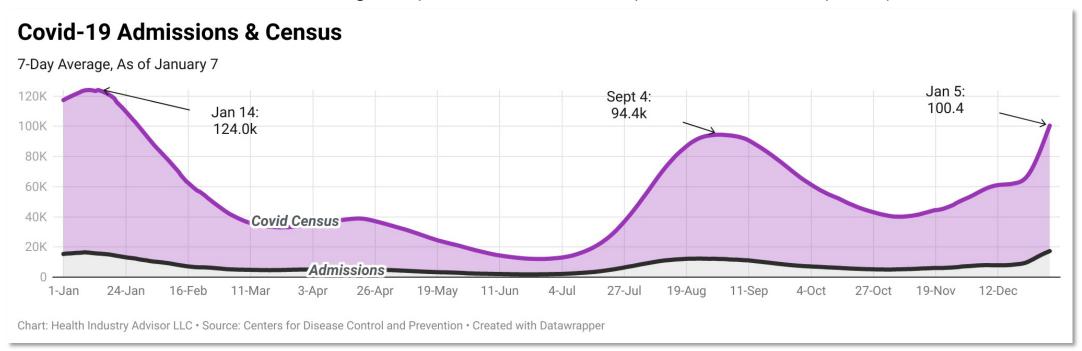






Timeline: How Many Covid Patients Are in the Hospital?

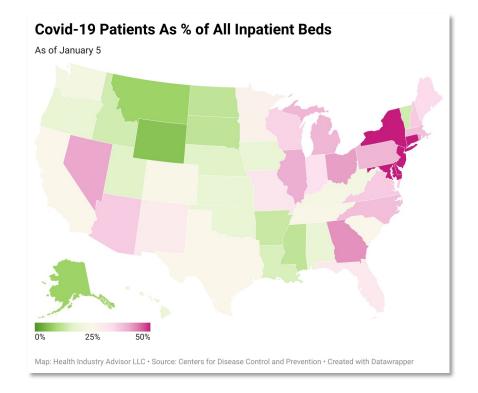
The average daily census last week nearly matched its January 2021 peak

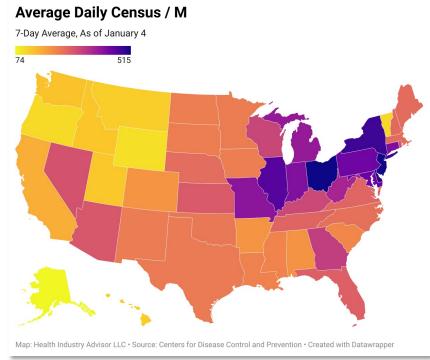




Where Are Caregivers and Hospitals Straining With Covid Patients?



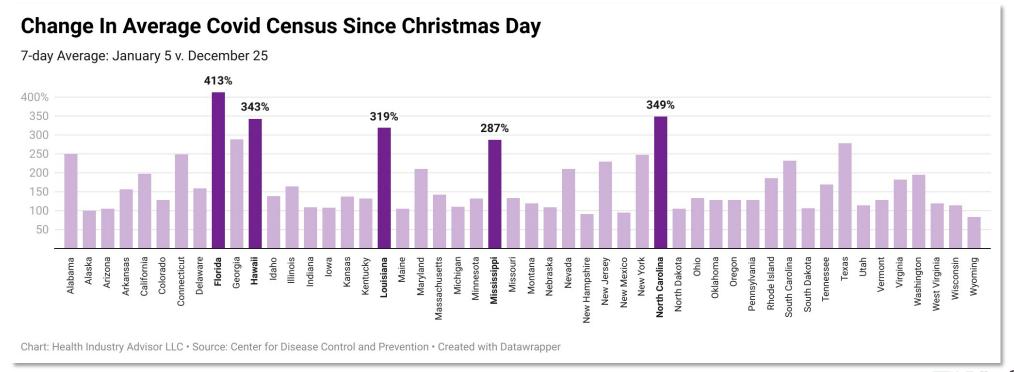




Per Capita

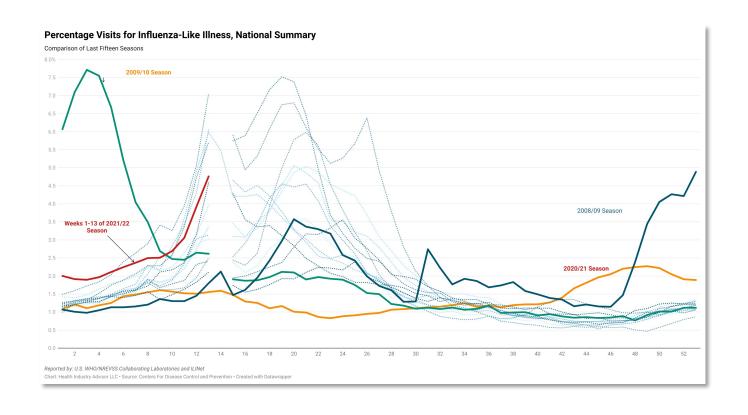


Hospital Census Skyrocketed Since Christmas with New Covid Patients



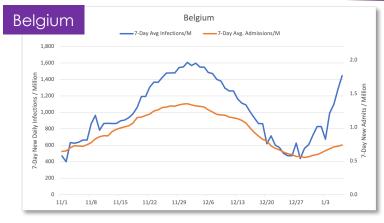


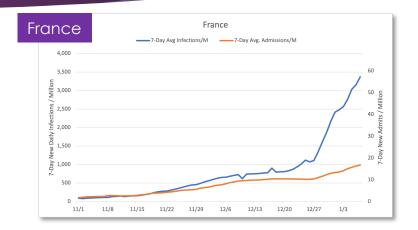
Flu Visits Are Spiking, Following the Pattern of Most Flu Seasons



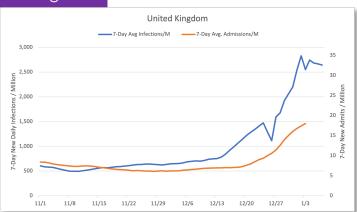


The Surge in Omicron Cases Is Driving Hospital Admissions; However, Omicron's Mildness Is Tempering Its Impact



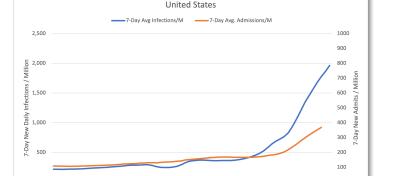


United Kingdom



Monday, January 10, 2022

United States



12/6

12/13

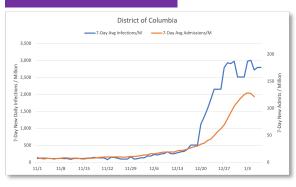
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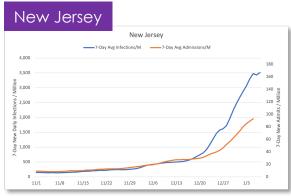
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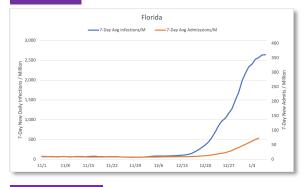
Hard-Hit States Witnessed A Similar Tempering of Omicron's Impact on Admissions

District of Columbia

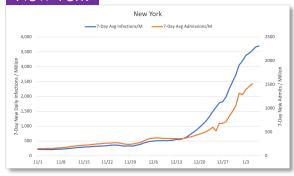




Florida



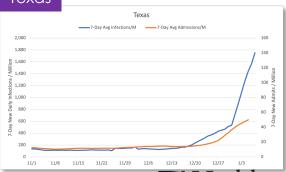
New York



Michigan



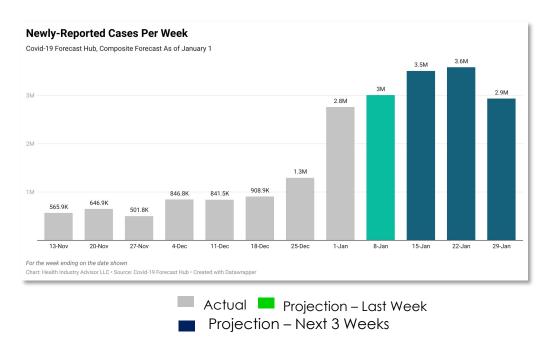




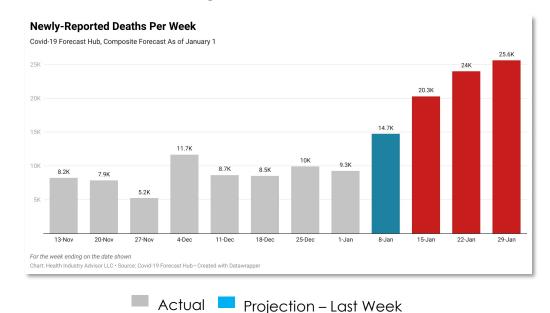


What is the Consensus for Cases and Deaths in the Next Few Weeks?

New cases could peak this week or next . . .



yet, deaths might rise for several weeks.

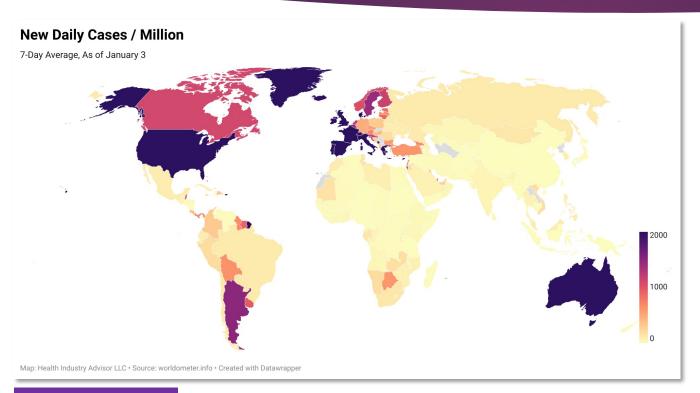


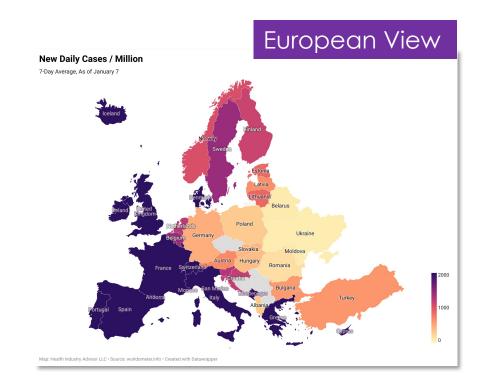
Projection - Next 3 Weeks

Source: Covid-19 Forecast Hub



New Case Rates Per Capita Exploded Across Western Europe and Australia



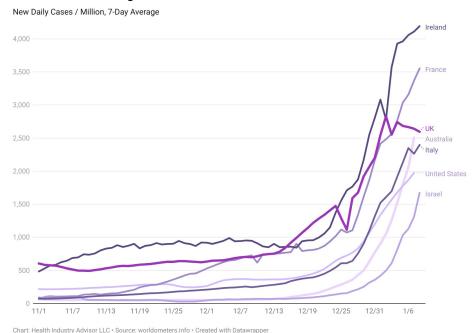






Omicron Spread Rapidly Across the Globe Last Week

Timeline: Select Large Countries

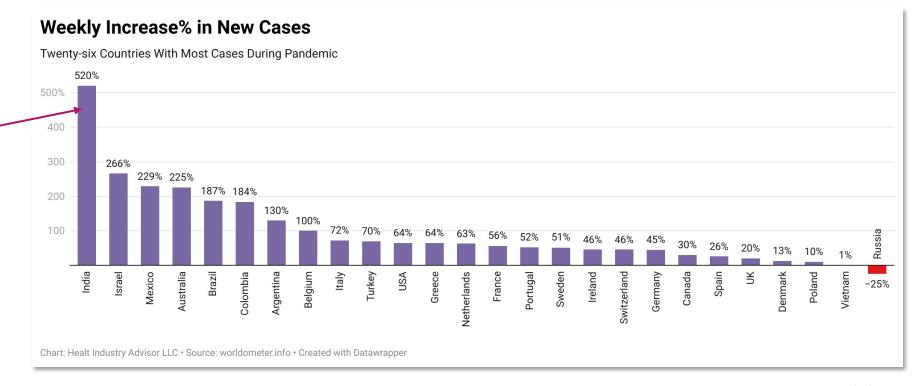


- New cases in the United Kingdom may have peaked early last week
- Cases exploded in Australia, France, and Israel (among others)
- Is case growth slowing in Ireland and the United States?



Omicron Infections Swelled Last Week in India, Israel, Mexico, and Australia

India posted **5x** as many cases last weeks as the prior week





Sources

- Bloomberg Vaccine Trackers, https://www.bloomberg.com/graphics/covid-vaccine-trackeralobal-distribution/?sref=Z0b6TmH
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- 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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- Institute for Health Metrics and Evaluation, COVID-19 estimate downloads http://www.healthdata.org/covid/data-downloads
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- U.S. Department of Health & Human Services
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- U.S. Department of Health & Human Services:
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