

EEOC on testing

- A COVID test is a medical exam which has implications under the Americans with Disabilities Act (ADA). The ADA generally prohibits medical exams or disability-related inquiries for employees unless they are "job related and consistent with business necessity."
- New EEOC guidance that now requires organizations to conduct a risk assessment as to "job-relatedness and business necessity"
 - https://www.eeoc.gov/wysk/what-you-should-know-about-covid-19-and-ada-rehabilitation-actand-other-eeo-laws

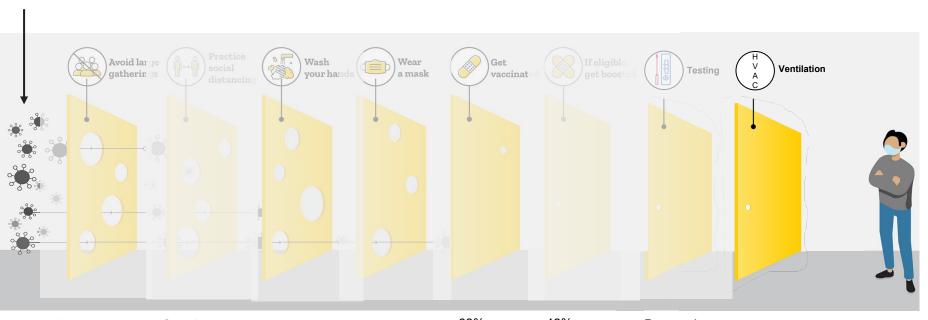


EEOC Testing Criteria

- The level of community transmission;
- The vaccination status of employees;
- The accuracy and speed of processing for different types of COVID-19 viral tests;
- The degree to which breakthrough infections are possible for employees who are "up to date" on vaccinations;
- The ease of transmissibility of the current variant(s);
- The possible severity of illness from the current variant;
- What types of contacts employees may have with others in the workplace or elsewhere that they are required to work; and
- The potential impact on operations if an employee enters the workplace with COVID-19



Still high case rates of super transmissible variant



Large gatherings starting to happen Gone!

Decreasing

80-90% gone! 68% vaccinated

48% boosted Decreasing (EEOC ruling may decrease further)

MERV13 but debatable whether truly

optimized ORTHEAST 4
BUSINESS GROUP ON HEALTH

Masking and Vaccines work

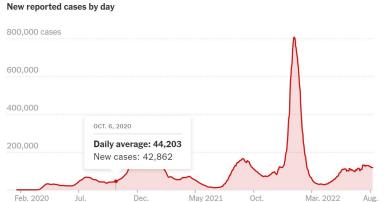
- Study of 140 000 class meetings at a large US university, there were over 850 cases of SARS-CoV-2 infection identified through weekly surveillance testing of all students and faculty on campus
- Everyone was vaccinated and wore masks
- Findings:
 - 850 cases
 - There were 9 instances of potential in-class transmission identified as identical lineages confirmed by SARS-CoV-2 genome sequencing, and none of these instances were confirmed to be in-class transmission

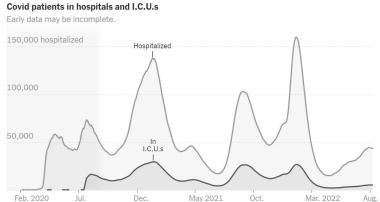


https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2794964

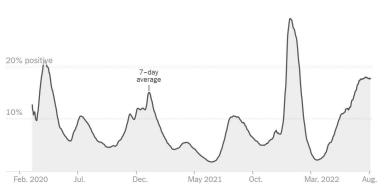


Current State of the pandemic in the US

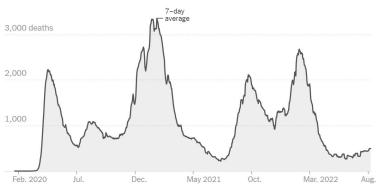


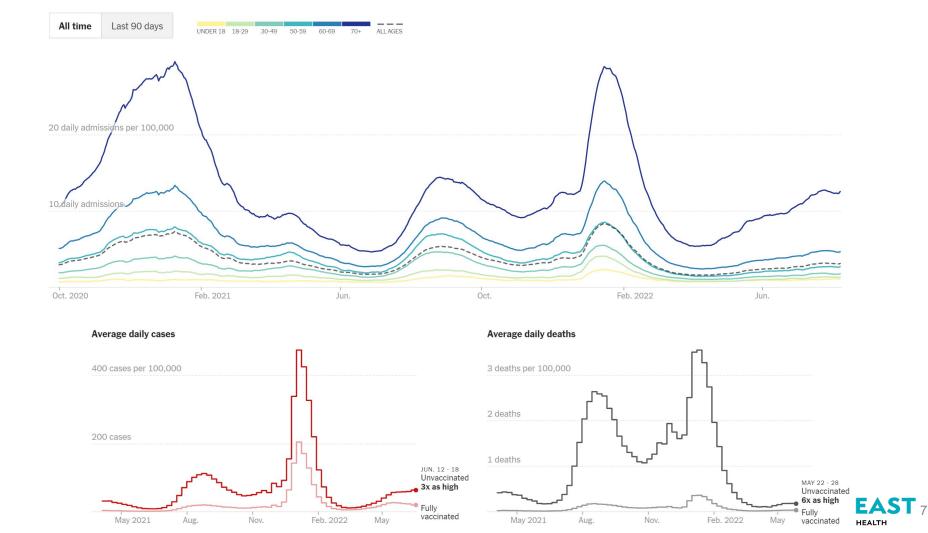






New reported deaths by day

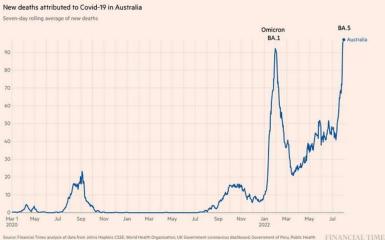




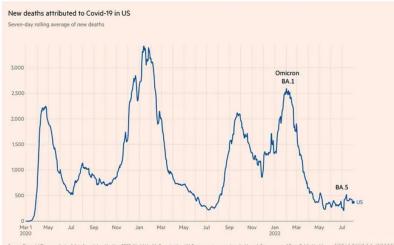
Immunity Walls

- The "immunity wall" of a population is an aggregate of many factors that include:
 - Demographics such as age and comorbidities, like obesity or diabetes.
 - Prior infections, vaccines, boosters, combined infections and boosters (hybrid immunity)
 - Waning of the immunity from vaccines or infections over time.
 - There are also other factors that come into play providing intrinsic protection (without exposure) vs Covid





Source: Financial Times analysis of data from Johns Hopkins CSSE, World Health Organization, UK Government coronavirus disabboard, Government of Peru, Public Health FINANCIAL TIMES France, izeael Health Ministry, Slovenia

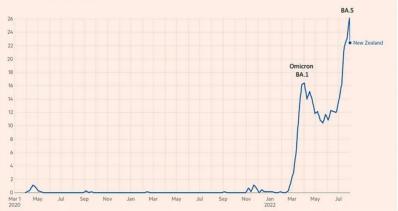


Source: Financial Times analysis of data from Johns Hopkins CSSE, World Health Organization, UK Government coronavirus dishboard, Government of Peru, Public Health Finance, Israel Health Mexistry, Slovenian Ministry of Health, Fernish Institute for Health and Welfare and the Swedish Public Health Agency.

Data updated August 12/022 12/39 mB 51 Interactive version for Interchieversion for Interchieversion



Seven-day rolling average of new deaths



Source Financial Times analysis of data from Johns Hopkins CSSE, World Health Organization, UK Government coronavirus dashboard, Government of Peru, Public Health Finance, Israel Health Ministry, Sloverian Ministry of Health, Financh Institute for Health and Welfare and the Swedish Public Health Agency.

Data updated August 1 2022 2.23 pm 81 Interactive version from Evonoporum Connection State (Connection State Connection State

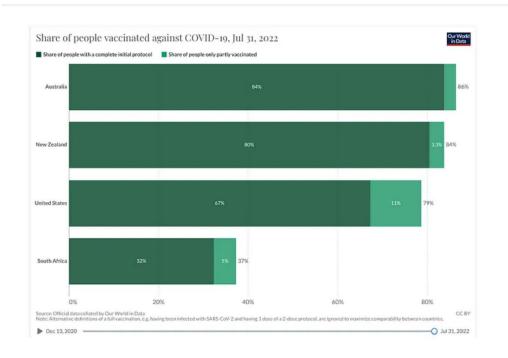
New deaths attributed to Covid-19 in South Africa

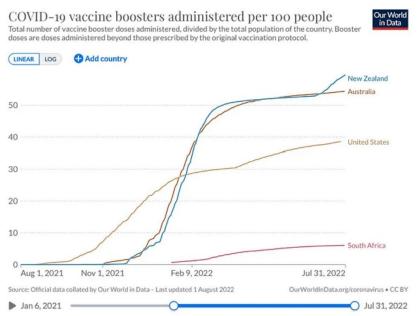
Seven-day rolling average of new deaths Beta Delta Omicron 300 BA.1 250 200 150 South Africa Mar 1 May Sep 2020

Source Financial Times analysis of data from Johns Hopkins CSSE, World Health Organization, UK Government coronavirus dashboard, Government of Peru, Public Health Financia Institute for Health and Welfare and the Swedish Public Health Agency, Data updated August 2 1022 2 22 pm 81 his Institute for Institute for Institute for Health and Welfare and the Swedish Public Health Agency, Data updated August 2 1022 2 22 pm 81 his Institute for Institute Vision (Institute for Institute Vision Institute for Institute Vision Institute for Institute Vision Institute Vision



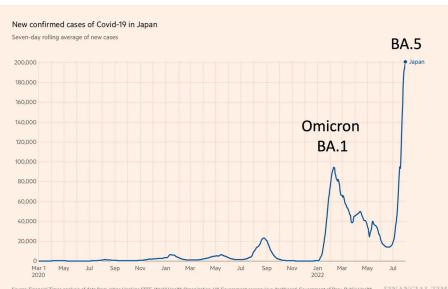
Vaccine & Booster Rates

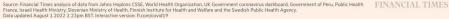


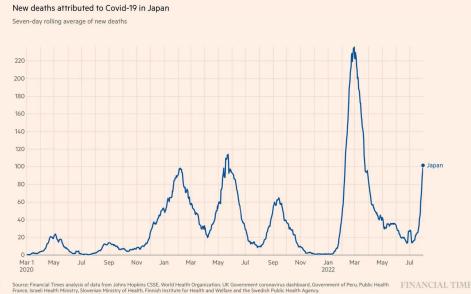




Prior infections







Data updated August 1 2022 2.23pm BST. Interactive version: ft.com/covid19



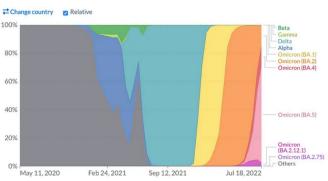
Variant of Past Infection

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SARS-CoV-2 variants in analyzed sequences, Australia

The number of analyzed sequences in the preceding two weeks that correspond to each variant group. This number may not reflect the complete breakdown of cases since only a fraction of all cases are sequenced.

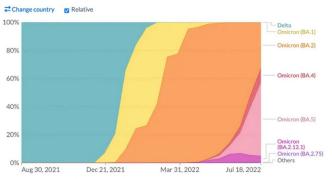


Source: GISAID, via CoVariants.org – Last updated 31 July 2022

OurWorldInData.org/coronavirus • CC BY Note: Recently-discovered or actively-monitored variants may be overrepresented, as suspected cases of these variants are likely to be sequenced preferentially or faster than other cases.

SARS-CoV-2 variants in analyzed sequences, New Zealand

The number of analyzed sequences in the preceding two weeks that correspond to each variant group. This number may not reflect the complete breakdown of cases since only a fraction of all cases are sequenced.



Our World in Data

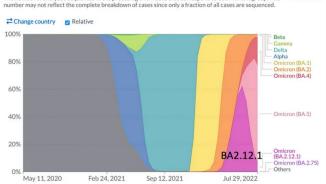
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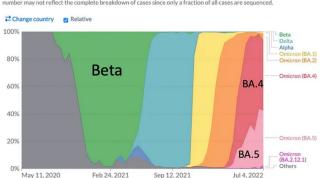
SARS-CoV-2 variants in analyzed sequences, United States

The number of analyzed sequences in the preceding two weeks that correspond to each variant group. This



SARS-CoV-2 variants in analyzed sequences, South Africa

The number of analyzed sequences in the preceding two weeks that correspond to each variant group. This number may not reflect the complete breakdown of cases since only a fraction of all cases are sequenced.

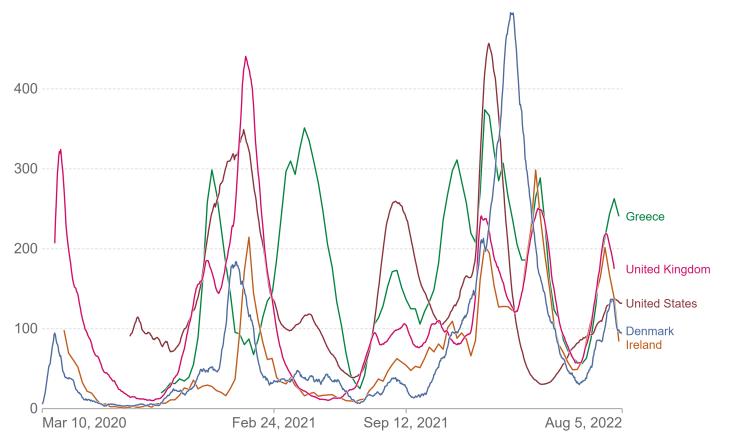




Weekly new hospital admissions for COVID-19 per million people



Weekly admissions refer to the cumulative number of new admissions over the previous week.

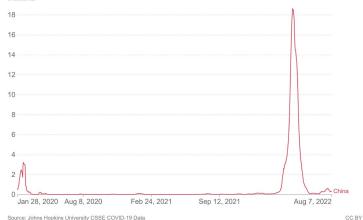




The very same variant that is seen as "mild" in one county can be quite "severe" in another



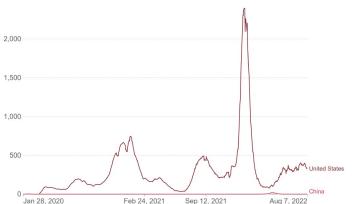
Daily new confirmed COVID-19 cases per million people 7-day rolling average. Due to limited testing, the number of confirmed cases is lower than the true number of Infections.



Source: Johns Hopkins University CSSE COVID-19 Data

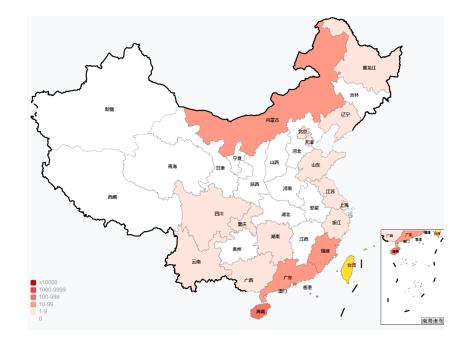
Daily new confirmed COVID-19 cases per million people

7-day rolling average. Due to limited testing, the number of confirmed cases is lower than the true number of infections.



China

Our World in Data





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Travel and COVID



Risk of catching COVID while Abroad

- This is a real risk as travel brings you into many new people, crowded spaces and possibly new variants – so what can you do:
 - Get up to date on vaccinations and boosters
 - Wear a high-efficiency mask while in the airport, on the plane and on public transport. Also in busy indoor spaces and tourist locations – just because others are not wearing a mask doesn't mean it is safe!
 - If high risk or elderly traveler see if their PCP will prescribe paxlovid to take if they get sick while aboard
 - Check what your travel insurance will/will not cover
 - Most countries have dropped testing requirements to travel but still take some tests with you if you
 test positive don't get the first flight home quarantine for at least 5 days and then wear a KN95/N95
 100% of the time when around others.
 - Test 2-3 days after getting home just to be sure and don't go and visit your most vulnerable relatives until you know you are probably not infected
 - Take non-stop flights where possible





Upcoming NEBGH virtual events:

- August 22 Monday Bi-Weekly COVID-19 Update w/ Dr. Mark
 - Sept. 8 Digital Health Tech's Hot Summer: What's On the Horizon?