





OSHA ETS, Executive Order, and NYC mandate

OSHA ETS:

- Stay on OSHA ETS overturned
- To give employers time to implement, OSHA will not issue citations for noncompliance with any requirements of the ETS before **January 10** and will not issue citations for noncompliance with the standard's **testing** requirements before **February 9**, so long as an employer is exercising reasonable, good faith efforts to come into compliance with the standard
- Written comments on any aspect of the ETS must now be submitted by January 19, 2022

Federal Contractor mandate

Nationwide stay December 7th

NYC Employee Mandate

- December 27th most NYC employees would need to show proof of first dose and then 45 days later proof of second dose (mRNA)
- Businesses may check each worker's proof of vaccination before they enter the workplace each day.
 They must keep a record of each verification.



By December 27



TO BE POSTED IN PUBLIC-FACING LOCATION

Affirmation of Compliance With Workplace Vaccination Requirements

Name of Business			
Street Address			
City	State	ZIP Code	

I affirm that I have read the December 13, 2021 Order of the New York City Commissioner of Health requiring vaccination of workers and that my workplace is in compliance with the Order.

_	
Signature	Date
Name (printed)	
Title	



Pfizer Under 5 Vaccine Trial

- 2 doses of 3 micrograms vaccine
- Immune response in 6months to 2 years
- No immune response in 2-, 3- and 4-year-olds
- Modifying trial to include a 3rd dose booster after 2 months





3 is much more than 2+1



Boosters and why they work

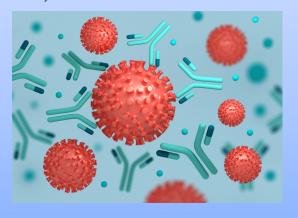
Antibody Quality

Affinity Maturation:

- The process by which B cells produce antibodies with increased affinity for an antigen
- With repeated exposures to the same antigen, a host will produce antibodies of successively greater affinities.
 - A secondary response can elicit antibodies with several fold greater affinity than in a primary response....
 A tertiary response even greater

Antibody Quantity

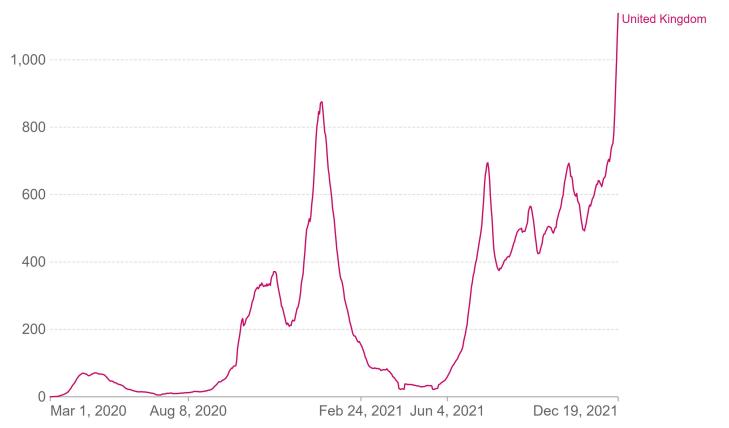
 Each dose of vaccine increases the number of antibodies (for a time)



Daily new confirmed COVID-19 cases per million people



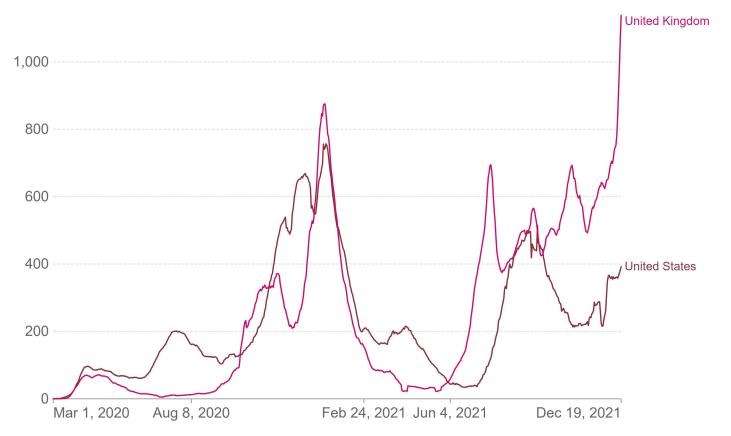
7-day rolling average. Due to limited testing, the number of confirmed cases is lower than the true number of infections.

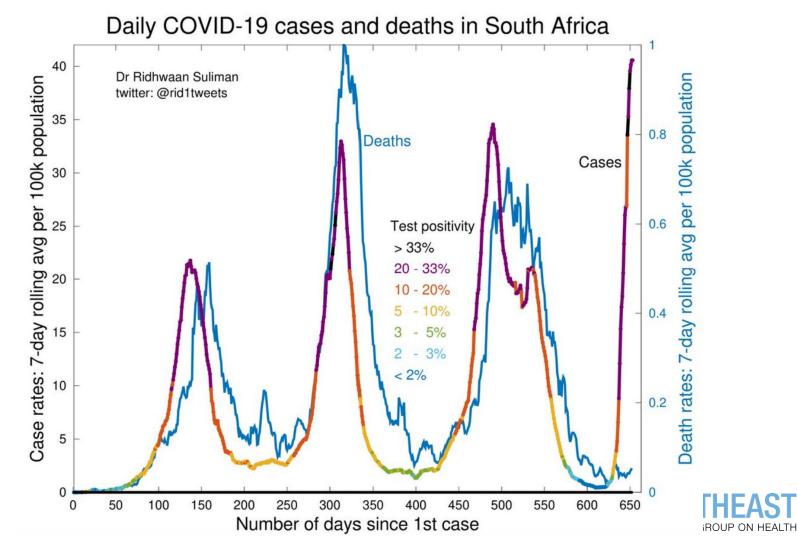


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South Africa – Study

Vaccine effectiveness:

 The two-dose Pfizer-BioNTech vaccination provides 70% protection against severe complications of COVID-19 requiring hospitalization, and 33% protection against COVID-19 infection, during the current Omicron wave.

Reinfection risk:

 For individuals who have had COVID-19 previously, the risk of reinfection with Omicron is significantly higher, relative to prior variants.

Severity:

 The risk of hospital admission among adults diagnosed with COVID-19 is 29% lower for the Omicron variant infection compared to infections involving the D614G mutation in South Africa's first wave in mid-2020, after adjusting for vaccination status

Children:

 Despite very low absolute incidence, preliminary data suggests that children have a 20% higher risk of hospital admission in Omicron-led fourth wave in South Africa, relative to the D614G-led first wave.

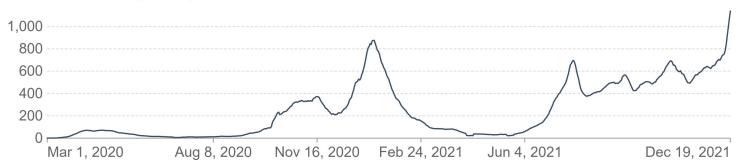
Daily new confirmed COVID-19 cases & deaths per million people



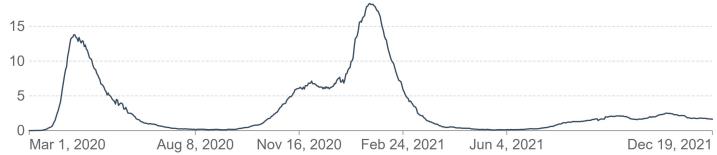
7-day rolling average. Limited testing and challenges in the attribution of cause of death means the cases and deaths counts may not be accurate.

United Kingdom

New cases (per 1M)



New deaths (per 1M)





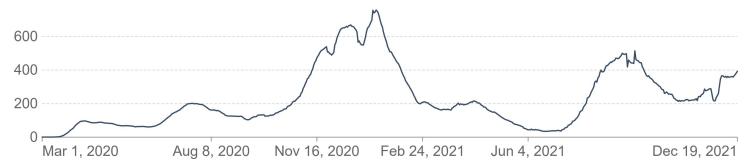
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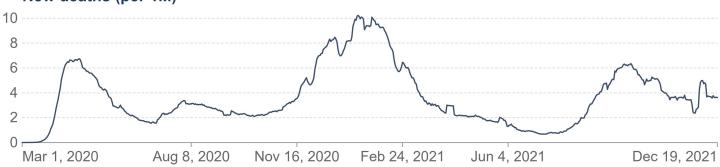
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New cases (per 1M)



New deaths (per 1M)





METRIC
Cases per 100K

PAST # OF DAYS
All time

New York City metro, NY-NJ-PA; Chicago metro...

