

COVID-19 Update Dr Mark Cunningham-Hill Medical Director NEBGH



COVID-19 RESPONSE



U.S. Department of Health and Human Services Centers for Disease Control and Prevention

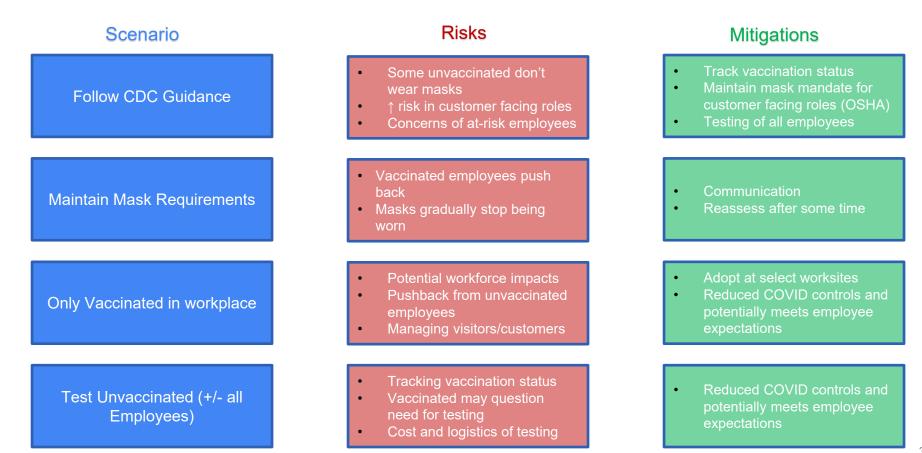




CDC: FULLY VACCINATED DON'T NEED TO MASK, PHYSICALLY DISTANCE IN MOST CASES



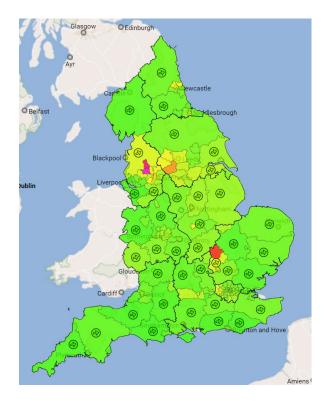
Options For Employers

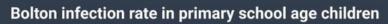


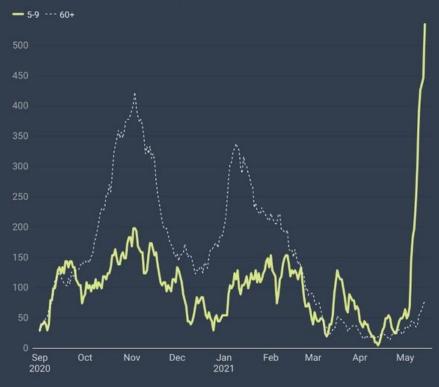


UK and B1.617.2

- 3,424 cases identified of infection with B1.617.2 up 2,111 cases in a week
- B1.617.2 was (wrongly) labelled the "Double Mutant" because concerns of ↑infectivity and ↓ protection from vaccines
 - Does appear to be more infectious
 - Vaccines
 - fully vaccinated with Pfizer of AZ vaccines protects against serious infections
 - 1 dose only 33% effective
- Germany suspended travel from the UK
- Estimated 0.5% of US cases







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Bolton infection rate in 10-14 year olds

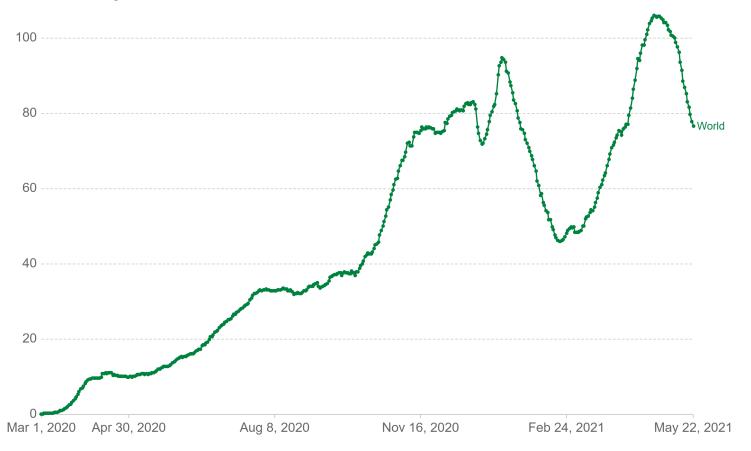


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Daily new confirmed COVID-19 cases per million people



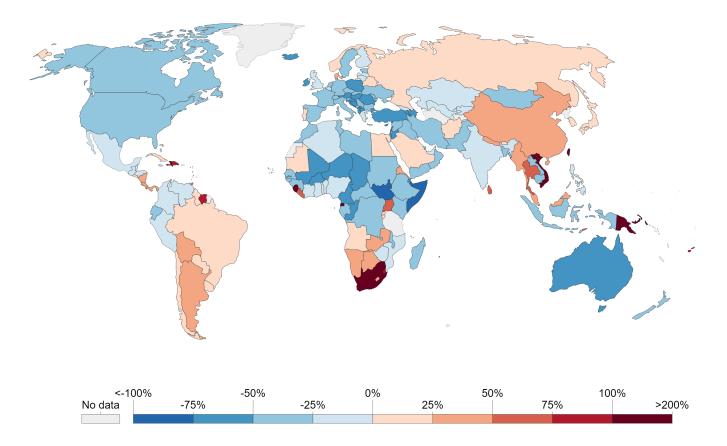
Shown is the rolling 7-day average. The number of confirmed cases is lower than the number of actual cases; the main reason for that is limited testing.



Biweekly change in confirmed COVID-19 cases, May 22, 2021



The biweekly growth rate on any given date measures the percentage change in the number of new confirmed cases over the last 14 days relative to the number in the previous 14 days.



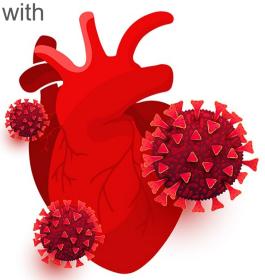
COVID Treatment Update

Mild to Moderate COVID-19 Not Hospitalized	 For patients who are not high risk for disease progression provide supportive care and symptomatic management For patients who are high risk of disease progression use one of the following combinations: Bamlanivimab plus etesevimab Casirivimab plus imdevimab
Hospitalized but does not require oxygen	Insufficient evidence for routine use of remdesivir however, remdesivir may be appropriate for high-risk patients
Hospitalized and requires supplemental oxygen	Use of one of the following options: • Remdesivir – cases with minimal oxygen requirements • Dexamethasone plus remdesivir for patients requiring increasing oxygen
Hospitalized and requires oxygen delivery through a high-flow device	Use of one of the following options: Dexamethasone Dexamethasone plus remdesivir for patients requiring increasing oxygen
Hospitalized and requires ventilation	 Dexamethasone Dexamethasone plus tocilizumab for patients who are within 24 hours of admission to ICU.



Myocarditis

- COVID-19 Vaccine Safety Technical (VaST) Work Group reported cases of myocarditis associated with mRNA vaccines¹
 - Predominantly in adolescents and young adults,
 - More often in males than females,
 - More often following dose 2 than dose 1, and
 - Typically, within 4 days after vaccination.
 - Most cases appear to be mild
- Experts 'watching' "an abundance of caution"
 - Relatively few cases
 - Myocarditis rates post vaccination are no higher than background



Polycystic Ovary Syndrome and COVID

- Women with PCOS had a 51% higher chance of confirmed or suspected Covid-19 infection than women without
- Adjusting for comorbidities such as T2DM, obesity increase was still 28%
- Potential reasons:
 - PCOS is a pro-inflammatory state
 - Link between COVID-19 infection and androgens
 - Tansmembrane serine protease 2 (TMPRSS2)
 - Androgens and immune response

ease was still 28%



EXCESSIVE BODY

PCOS AFFECTS 1-IN-10 WOMEN

12

Vaccine Attitudes

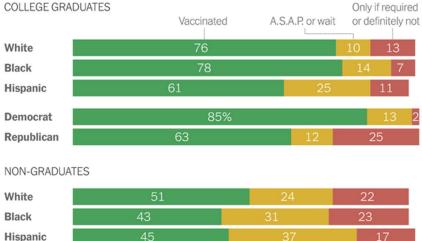
Vaccine Attitudes

People chose one of five categories: vaccinated; want to be A.S.A.P; wait and see; only if required; definitely not.

	Vaccinated	A.S.A.P. or wait	Only if required or definitely not	
White	60	19	19	
Black	51	27	20	
Hispanic	47	35	16	
Democrat	67		24 8	
Republican	46	22	29	

By The New York Times | Source: Kaiser Family Foundation

Vaccine Attitudes by Class



White	51	24		22
Black	43	31		23
Hispanic	45	37		17
Democrat	58		30	11
Republican	39	26	31	

Random survey of 2,097 adults conducted from April 15 to April 29, 2021. Not all figures total to 100 percent; some people did not give an answer. By The New York Times | Source: Kaiser Family Foundation

- -36% in daily CO2 emissions in early 2020 compared to year-2019
- Up to 40% reduction in observed nitrogen dioxide (NO2) concentrations in China
- Statistically significant decreases in NO2 and PM_{2.5} in the United States

Lockdowns to combat the spread of Covid-19 may have saved up to 32,000 lives due to lowered emissions from vehicles and coal-powered electricity plants

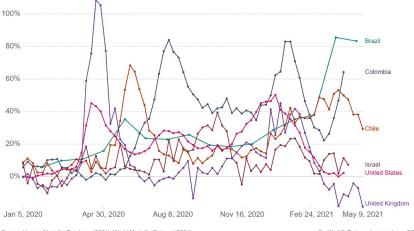
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Deaths from COVID

$\mathop{\rm Excess}$ mortality during COVID-19: Deaths from all causes compared to previous years, all ages



Shown is how the number of weakly or monthly deaths in 2020-2021 differs as a percentage from the average number of deaths in the same period over the years 2015-2019. This metric is called the P-score. The reported number of deaths might not count all deaths that occurred due to incomplete coverage and delays in death reporting.

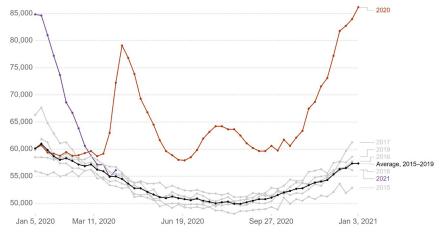


Source: Human Mortality Database (2021), World Mortality Dataset (2021) OurWorldInData.org/coronavirus • CC BY Note: Comparisons across countries are affected by differences in the completeness of death reporting. Details can be found at our Excess Mortality page.

Reported COVID Deaths 3.64 million

Excess mortality during COVID-19: Number of deaths from all causes compared to previous years, United States

Shown is how the number of weekly or monthly deaths in 2020–2021 differs from the number of deaths in the same period over the years 2015–2019. The reported number of deaths might not count all deaths that occurred due to incomplete coverage and delays in death reporting.

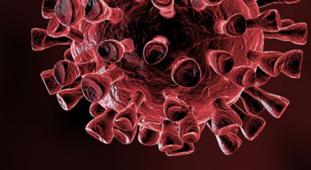


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Estimated COVID Deaths 6.9 million

Our World

in Data



Questions

Upcoming NEBGH virtual events:

- May 31: Memorial Day No Dr. Mark!
- Jun. 2: Hate Crimes and Mental Health: Strategies and Resources for Employers
- Jun. 10/17: Where Do We Go From Here? Employee Health & Wellbeing for a New Era