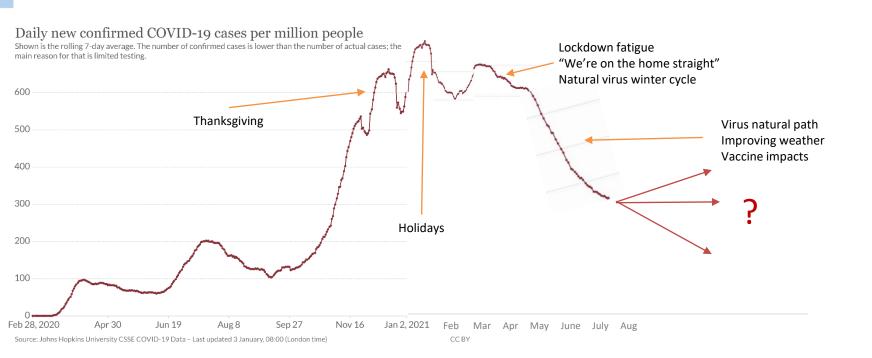
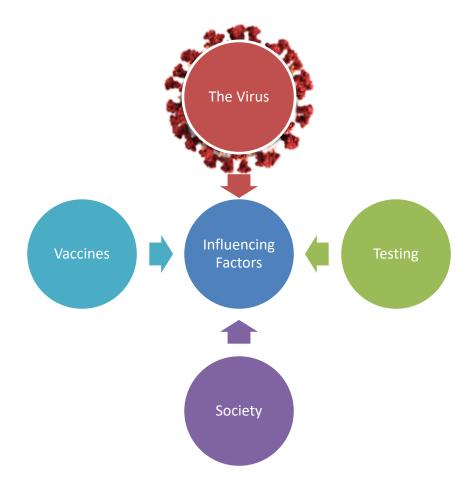




## **Dr Chill's Prediction**











## Virus mutations

- Increased infectivity e.g., B.1.1.7 in UK
- Identified in 30 countries
- Found in 3 states so far

RANK	COUNTRY	REPORTED CASES	SAMPLES SEQUENCED	PERCENTAGE OF CASES SEQUENCED
1	Australia	28,238	16,537	58.6%
2	New Zealand	2,128	1,034	48.6
3	Taiwan	776	137	17.7
4	Denmark	144,047	16,790	11.7
5	Iceland	5,683	601	10.6
6	Gambia	3,791	360	9.5
7	Vietnam	1,421	113	8.0
8	Britain	2,116,609	157,439	7.4
9	Thailand	5,762	343	6.0
10	Japan	207,001	9,599	4.6
43	United States	18,229,260	51,212	0.3

New daily coronavirus cases, per million residents

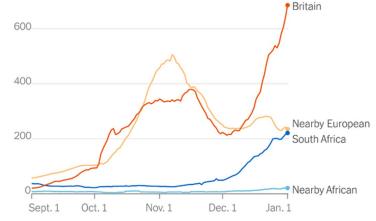
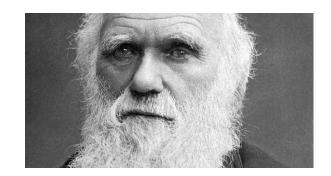


Chart shows rolling 7-day averages. "Nearby European" is Belgium, Germany, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain and Switzerland. "Nearby African" is Botswana, Eswatini, Lesotho, Namibia, Mozambique and Zimbabwe.

By The New York Times | Sources: Local and national governments and health organizations, World Bank



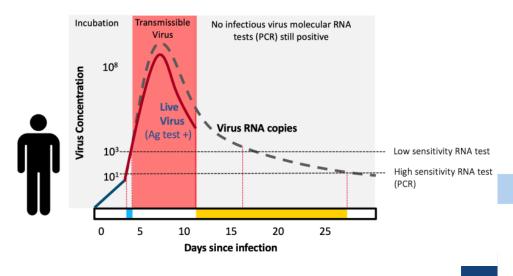




# **Testing**

- Availability of widespread frequent rapid antigen tests
- Simple, cheap and good at identifying people who are infectious







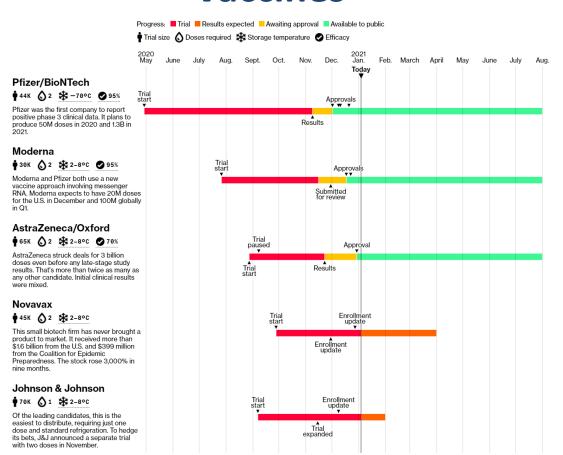
## **Controls and Behaviors**

- Limitations on social gatherings, restaurants, gyms, schools etc
- Mask mandates and mask usage
- Physical distancing
- Personal hygiene
- Travel restrictions





### **Vaccines**

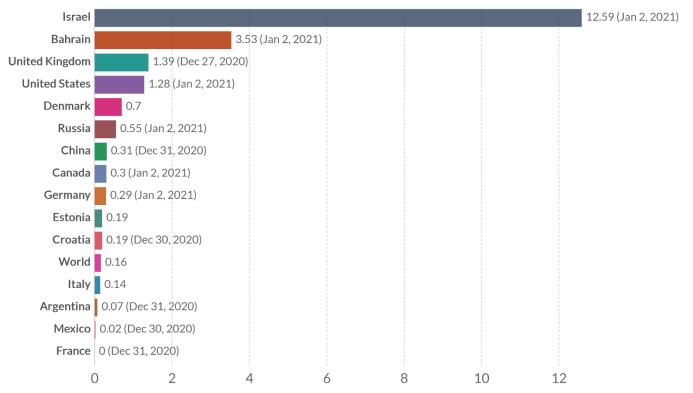




### COVID-19 vaccination doses administered per 100 people, Jan 3, 2021



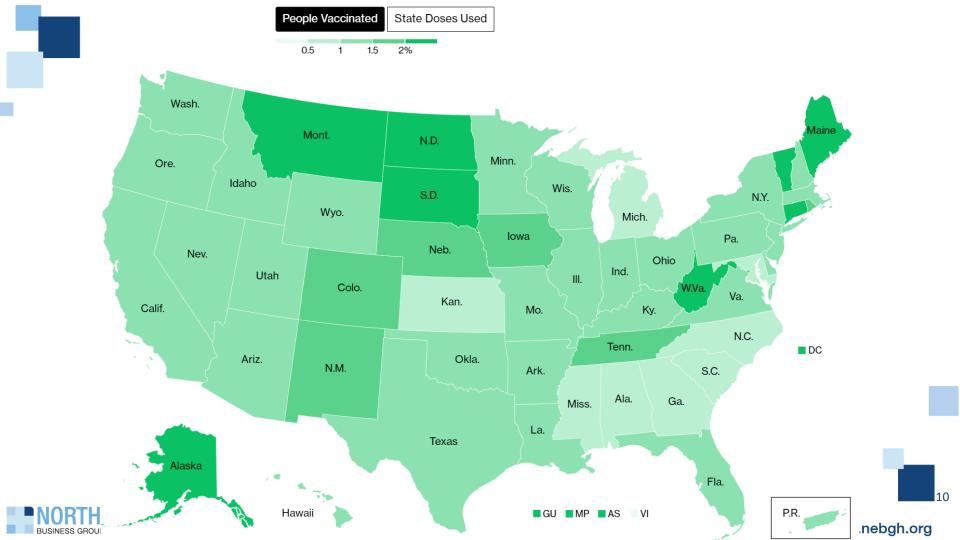
Total number of vaccination doses administered per 100 people in the total population. This is counted as a single dose, and may not equal the total number of people vaccinated, depending on the specific dose regime (e.g. people receive multiple doses).



 $Source: Official\ data\ collated\ by\ Our\ World\ in\ Data.\ Dates\ refer\ to\ when\ the\ data\ was\ reported.$ 

OurWorldInData.org/covid-vaccinations • CC BY





### **Vaccine Roll Out**

- Approximately 220M over age of 16
- If 70% want to be vaccinated = 154 million
- Current vaccines 2 shots = 308 million
- 4.2 million doses administered so far
  - First dose December 14<sup>th</sup>
  - Approximately 210K per day at this rate if would take 3.9 years to vaccinate all who wanted it
  - Increase to 1M per day end of 2021





## **UK Vaccine Prioritization Bands**

When can we expect a vaccination?

Band 1

Band 2

Band 3

First 10 million vaccines

Second 30 million vaccines

Rest of population

#### Who is eligible to be in each group?

Group	Who it includes		
1	Older adults resident in a care home and care home workers 1,098,000 (number of people in group)		
2	All those 80 years and over and health and social care workers 5,062,000  All those 80 years and million million doses ordered		
3	All those 75 years of age and over 2,325,296		
4	All those 70 years of age and over 3,318,867		
<b>5</b>	All those 65 years of age and over 3,368,199		

6	All individuals aged 16 years to 64 years with underlying health conditions which put them at higher risk of serious disease and mortality 2,200,000		
7	All those 60 years of age and over 3,755,185 All 40m doses ordered		
8	All those 55 years of age and over 4,405,908		
9	All those 50 years of age and over 4,661,015		
10	Rest of the population (priority to be determined) 41,599,738		





## **UK Approach**

- Pfizer-BioNtech vaccine schedule is for second dose
   21 days after the first dose
- UK are delaying second dose to 12 weeks with aim of vaccinating more people with at least one dose to minimize death toll
- They are also saying if needed can mix-n-match vaccines

