

# Good data means nothing if communication is poor

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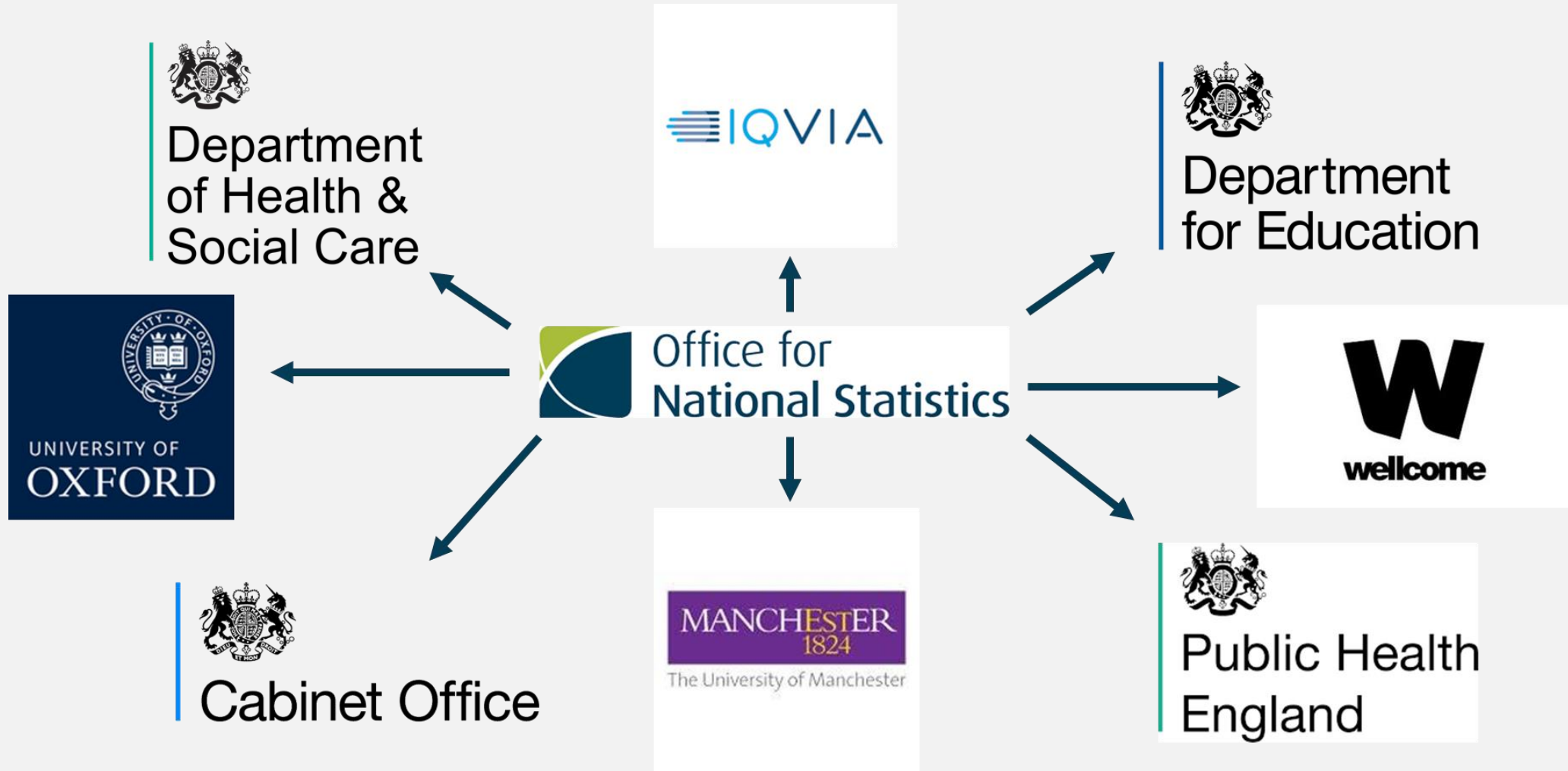
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# Introduction to the survey

- The COVID-19 Infection Survey is a large-scale community based survey which tracks the current extent of infection and transmission of COVID-19.
- **April 2020** - ONS, University of Oxford, IQVIA and others quickly established the household COVID-19 Infection Survey (CIS) in 7 days.
- **Field work began:**
  - England: 26 April 2020
  - Wales: 29 June 2020,
  - Northern Ireland: 26 July 2020
  - Scotland: 21 September 2020

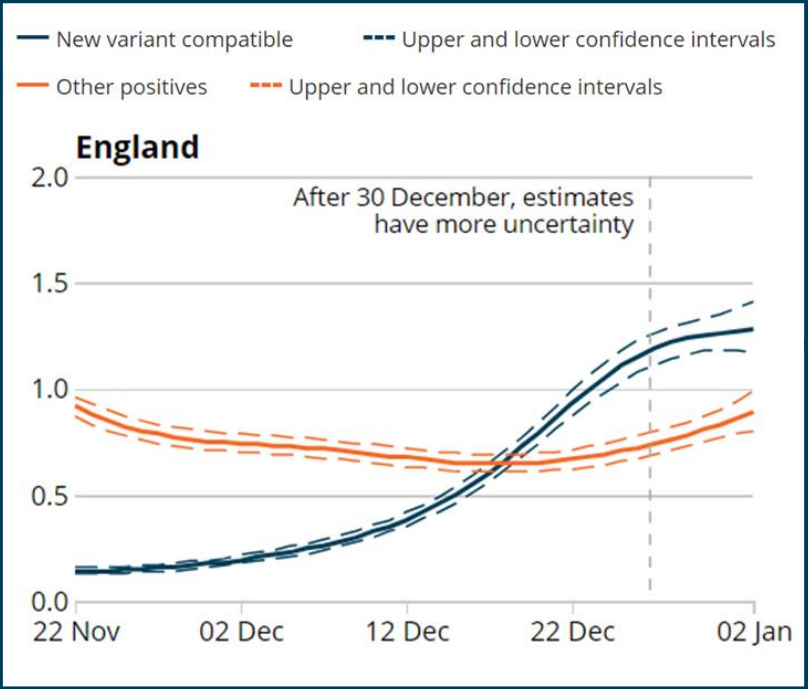


# Collaboration at Pace



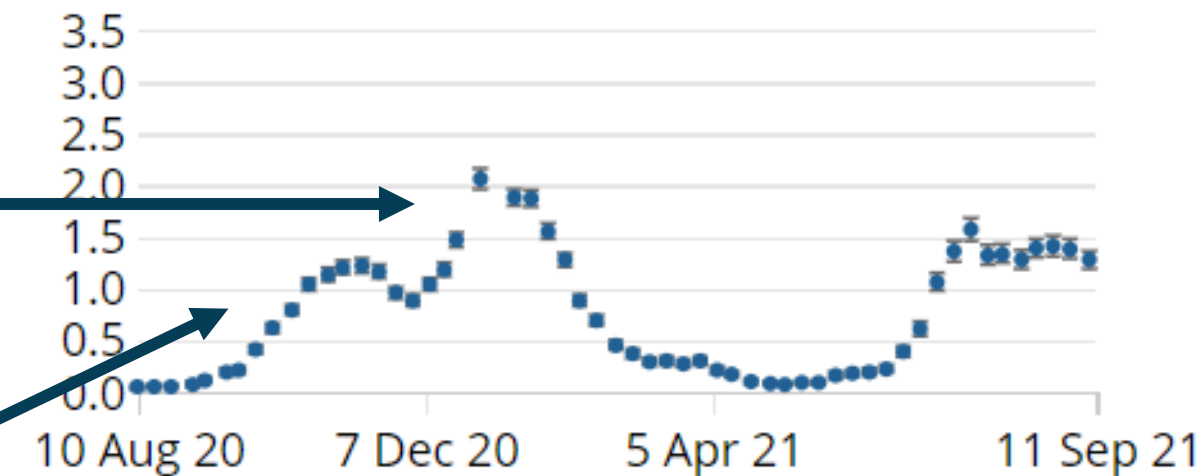
# Analysis to inform the Second wave of COVID-19

## Variants of Concern

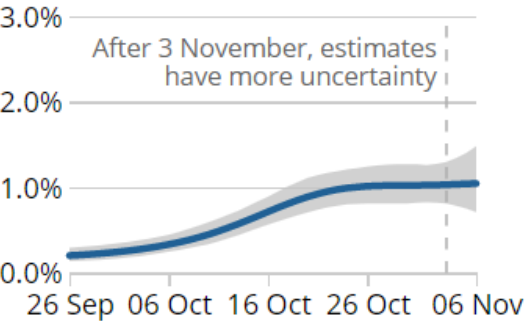


## England

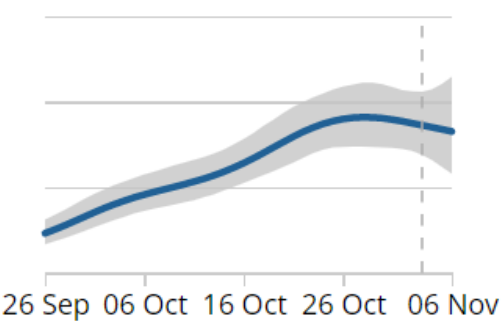
### Percentage testing positive for COVID-19



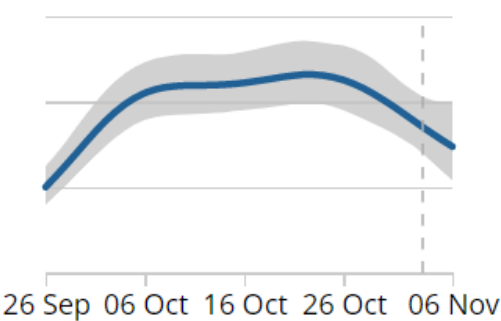
### Age 2 to School Year 6



### School Year 7 to Year 11



### School Year 12 to Age 24



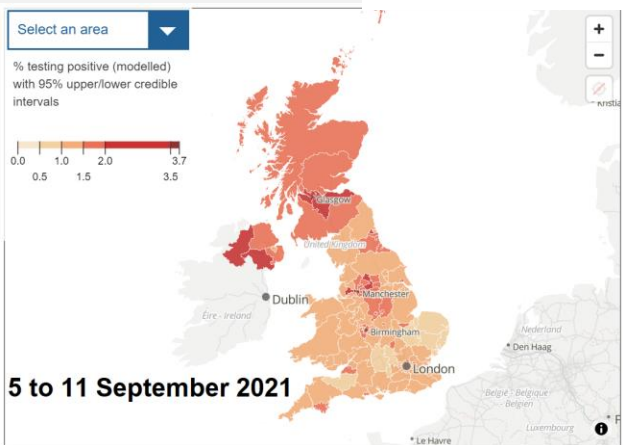
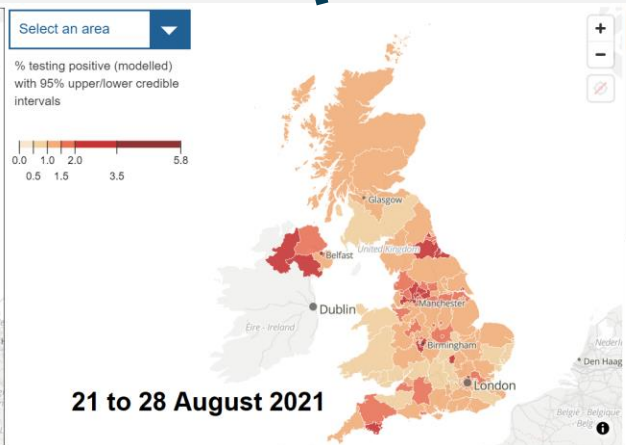
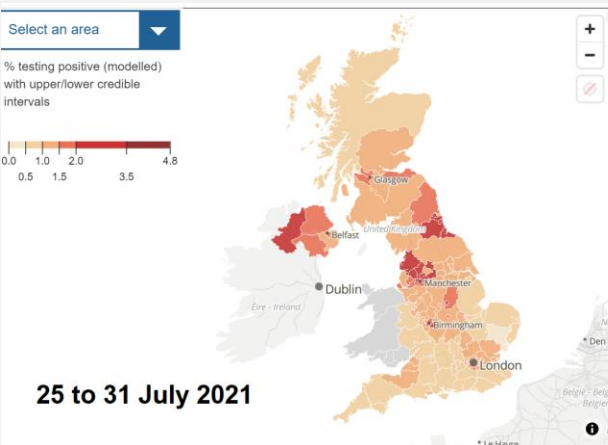
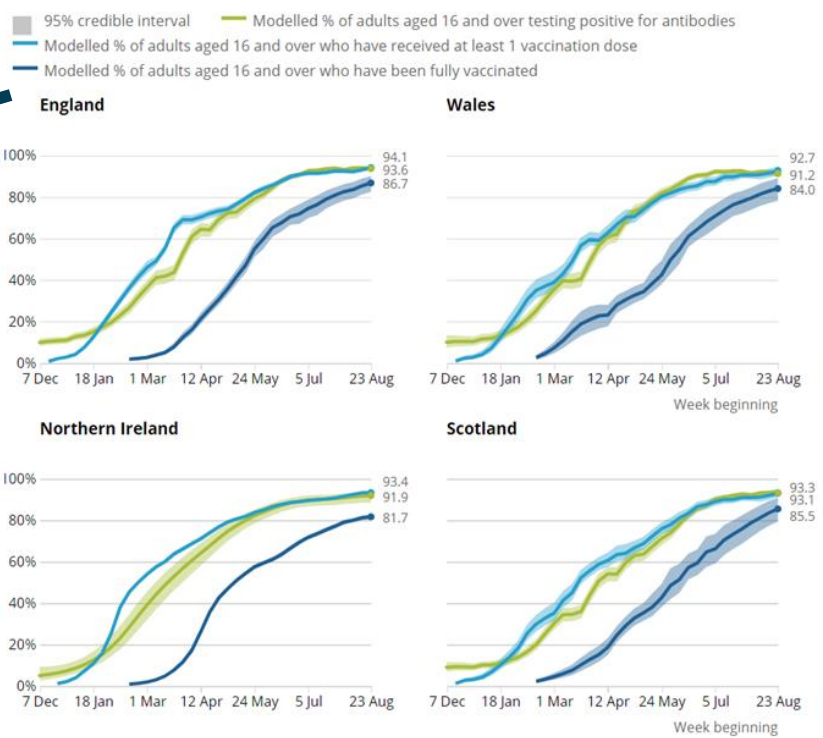
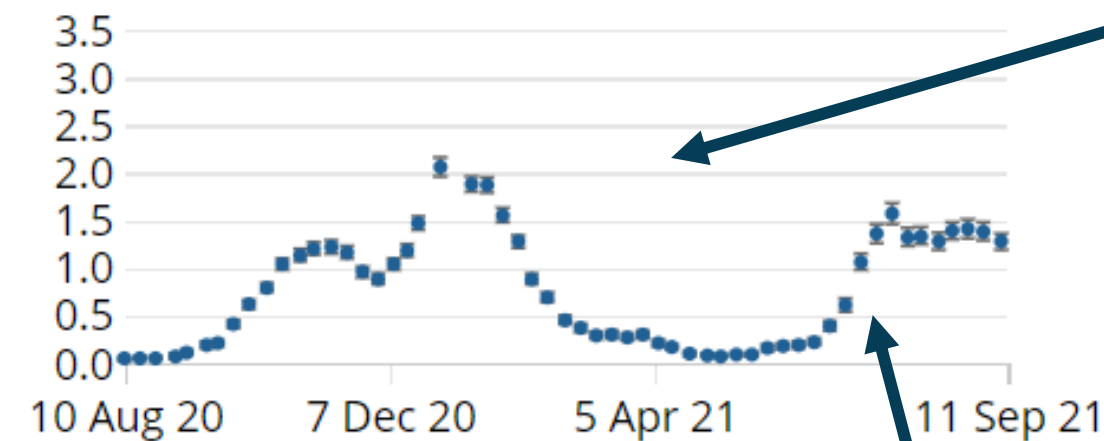
## Positivity by age

# Analysis throughout the pandemic

## Antibody and vaccination analysis

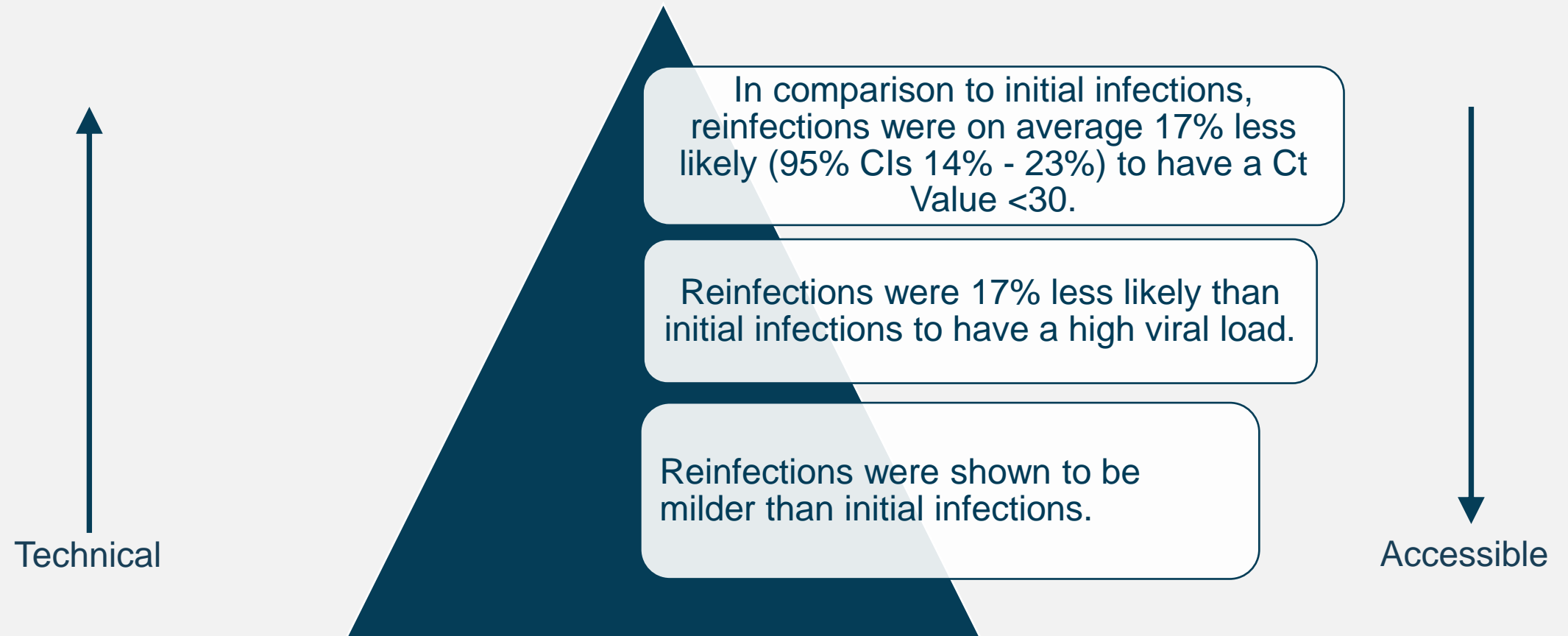
### England

Percentage testing positive for COVID-19



## Subregional Analysis

# Briefing - Thinking about your audience





# Weekly bulletins and Fortnightly articles

## Coronavirus (COVID-19) Infection Survey, UK: 17 September 2021

Estimates for England, Wales, Northern Ireland and Scotland. This survey is being delivered in partnership with the University of Oxford, University of Manchester, Public Health England and Wellcome Trust. This study is jointly led by the ONS and the Department for Health and Social Care (DHSC) working with the University of Oxford and Lighthouse laboratory to collect and test samples.

## Coronavirus (COVID-19) Infection Survey, antibody and vaccination data, UK: 16 September 2021

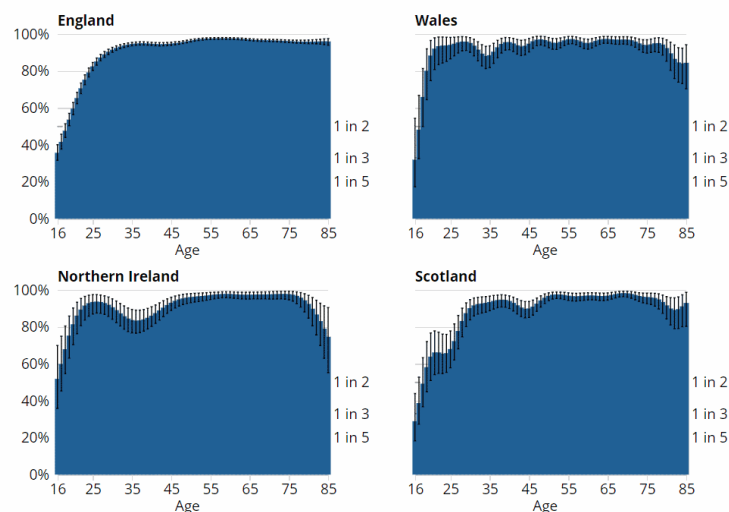
Antibody and vaccination data by UK country and regions in England from the Coronavirus (COVID-19) Infection Survey. This analysis has been produced in partnership with the University of Oxford, University of Manchester, Public Health England, and Wellcome Trust. This study is jointly led by the ONS and the Department for Health and Social Care (DHSC) working with the University of Oxford and Lighthouse Laboratory to collect and test samples.

## Coronavirus (COVID-19) Infection Survey, characteristics of people testing positive for COVID-19, UK: 25 August 2021

Characteristics of people testing positive for COVID-19 from the Coronavirus (COVID-19) Infection Survey. This survey is being delivered in partnership with University of Oxford, University of Manchester, Public Health England and Wellcome Trust. This study is jointly led by the ONS and the Department for Health and Social Care (DHSC) working with the University of Oxford and Lighthouse Laboratories to collect and test samples.

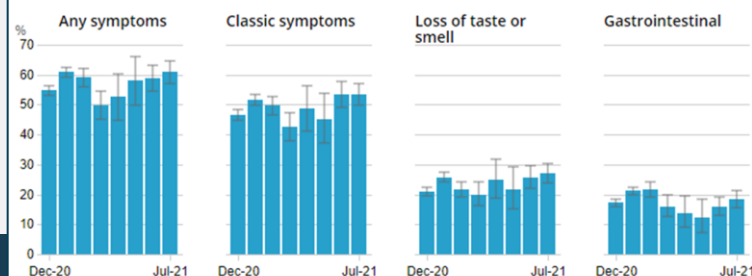
04 Jul 2021

Black lines represent 95% confidence intervals around the estimates.

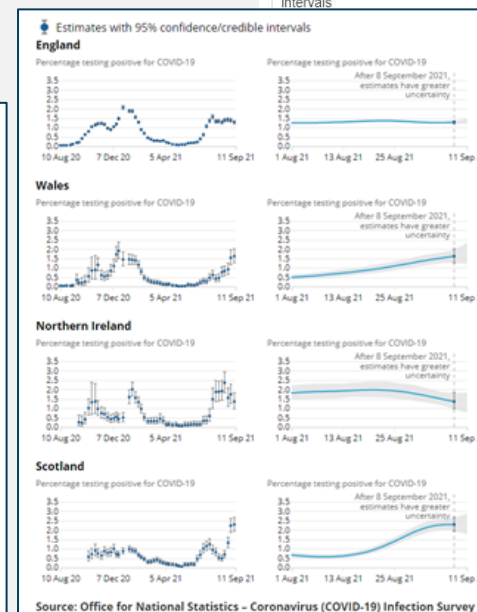


Source: Office for National Statistics – Coronavirus (COVID-19) Infection Survey

Unweighted percentage of people with symptoms, including only those who have strong positive tests (Ct less than 30) by month, UK, 1 December 2020 to 12 July 2021

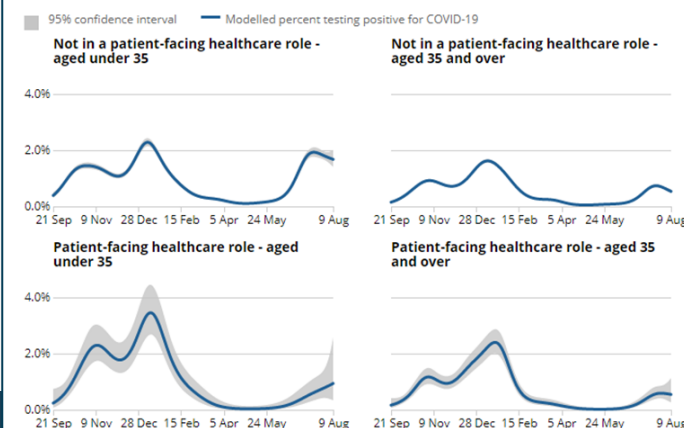


Source: Office for National Statistics – Coronavirus (COVID-19) Infection Survey



Source: Office for National Statistics – Coronavirus (COVID-19) Infection Survey

Estimated percentage of the adult population testing positive for COVID-19 on nose and throat swabs by those in patient-facing and not in patient-facing healthcare job roles, by age, UK, 21 September 2020 to 9 August 2021

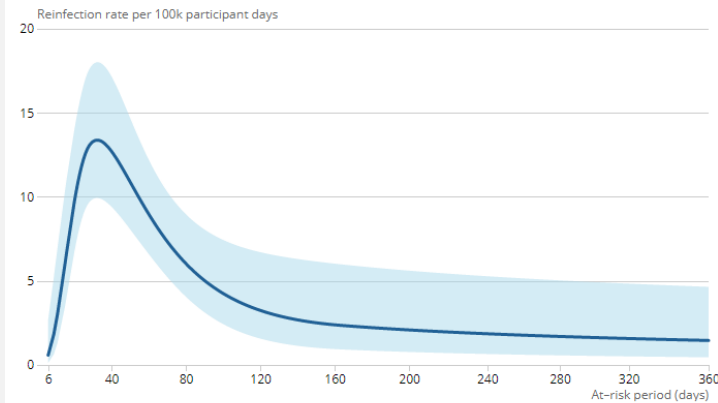


Source: Office for National Statistics – Coronavirus (COVID-19) Infection Survey

# Technical articles

**Figure 1: Risk of reinfection peaked around the first month after becoming "at risk" for reinfection and declined afterwards**

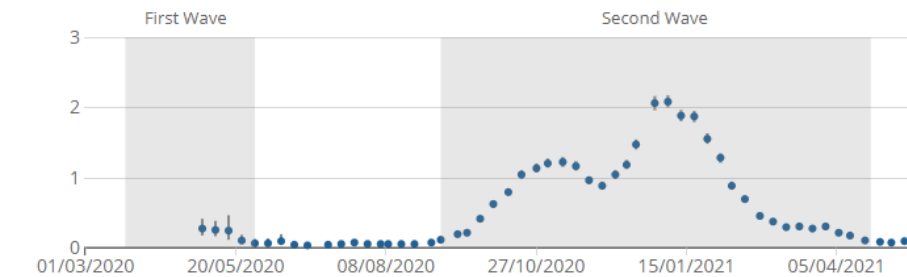
Estimated rate of COVID-19 reinfection according to time at risk per 100,000 participant days, 26 April 2020 to 5 June 2021, UK



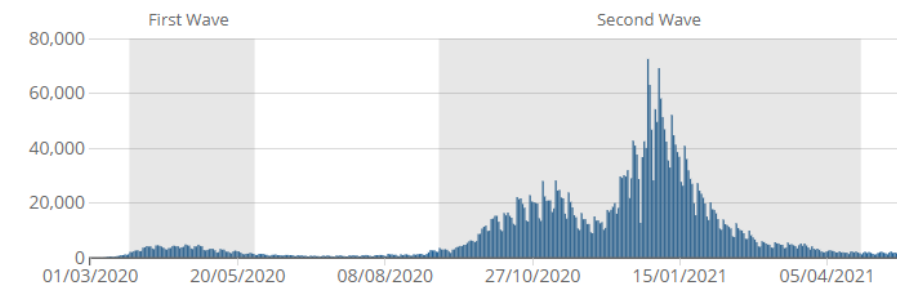
Source: Office for National Statistics – Coronavirus (COVID-19) Infection Survey

Reinfections

**Estimated percentage of people testing positive for COVID-19 - Coronavirus (COVID-19) Infection Survey**



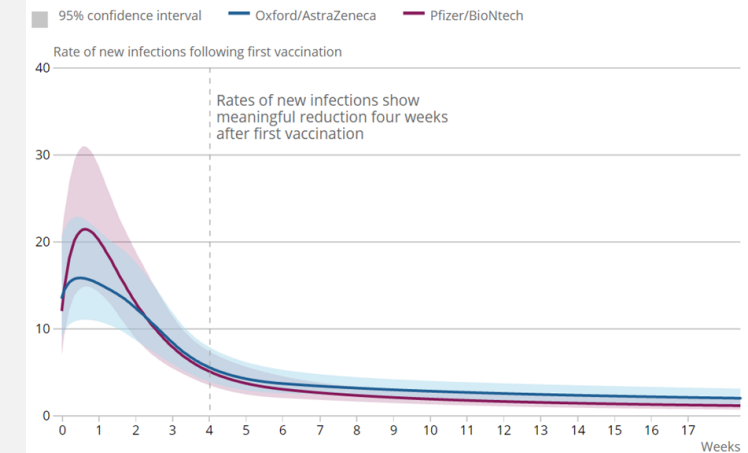
**Number of new cases by specimen date - NHS Test and Trace**



Waves and Lags of COVID-19

**Figure 1: Risk of infection continues to decline over time following first vaccination**

Modelled adjusted infection rate following first vaccination by type of vaccine, 1 December 2020 to 31 May 2021, UK

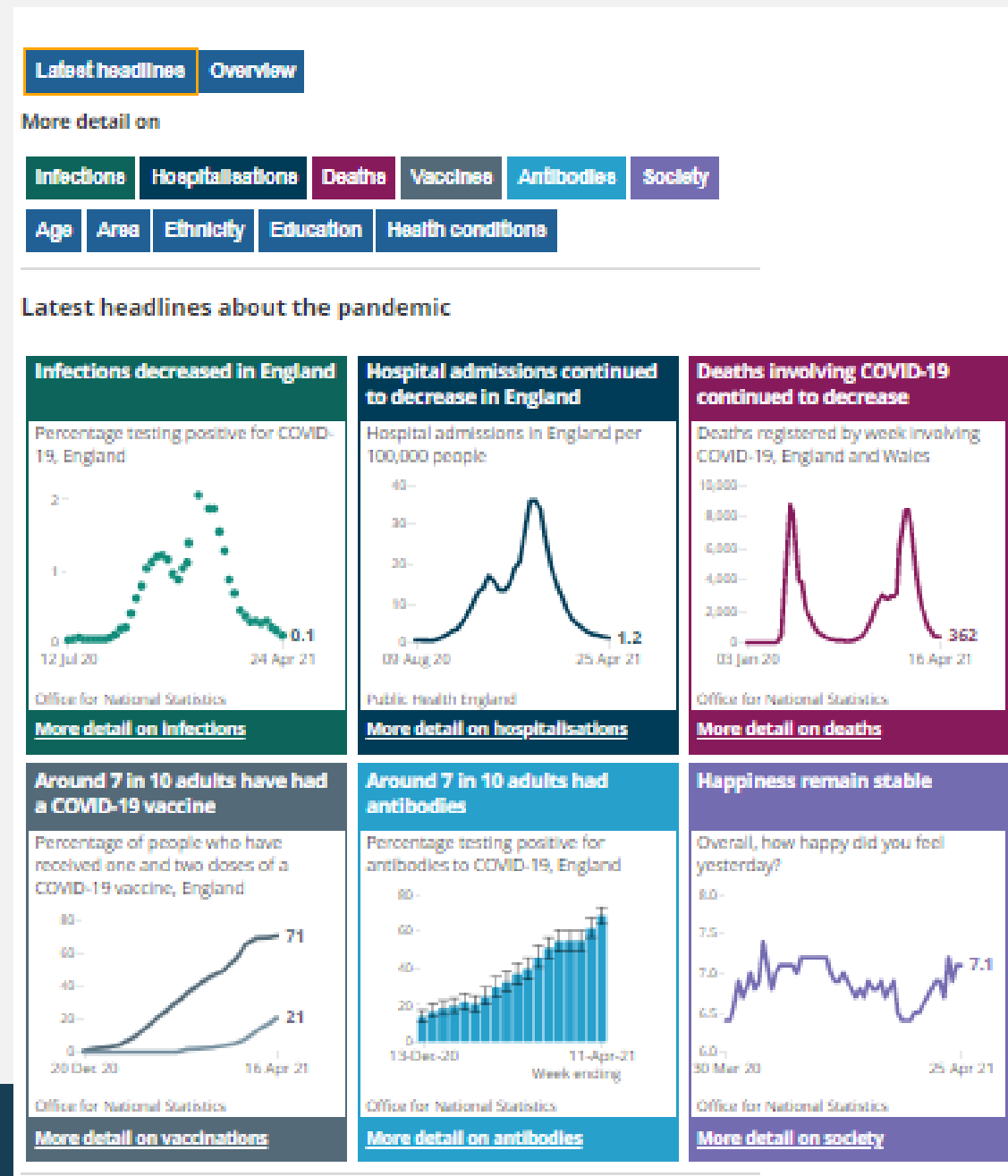


Positivity after Vaccination



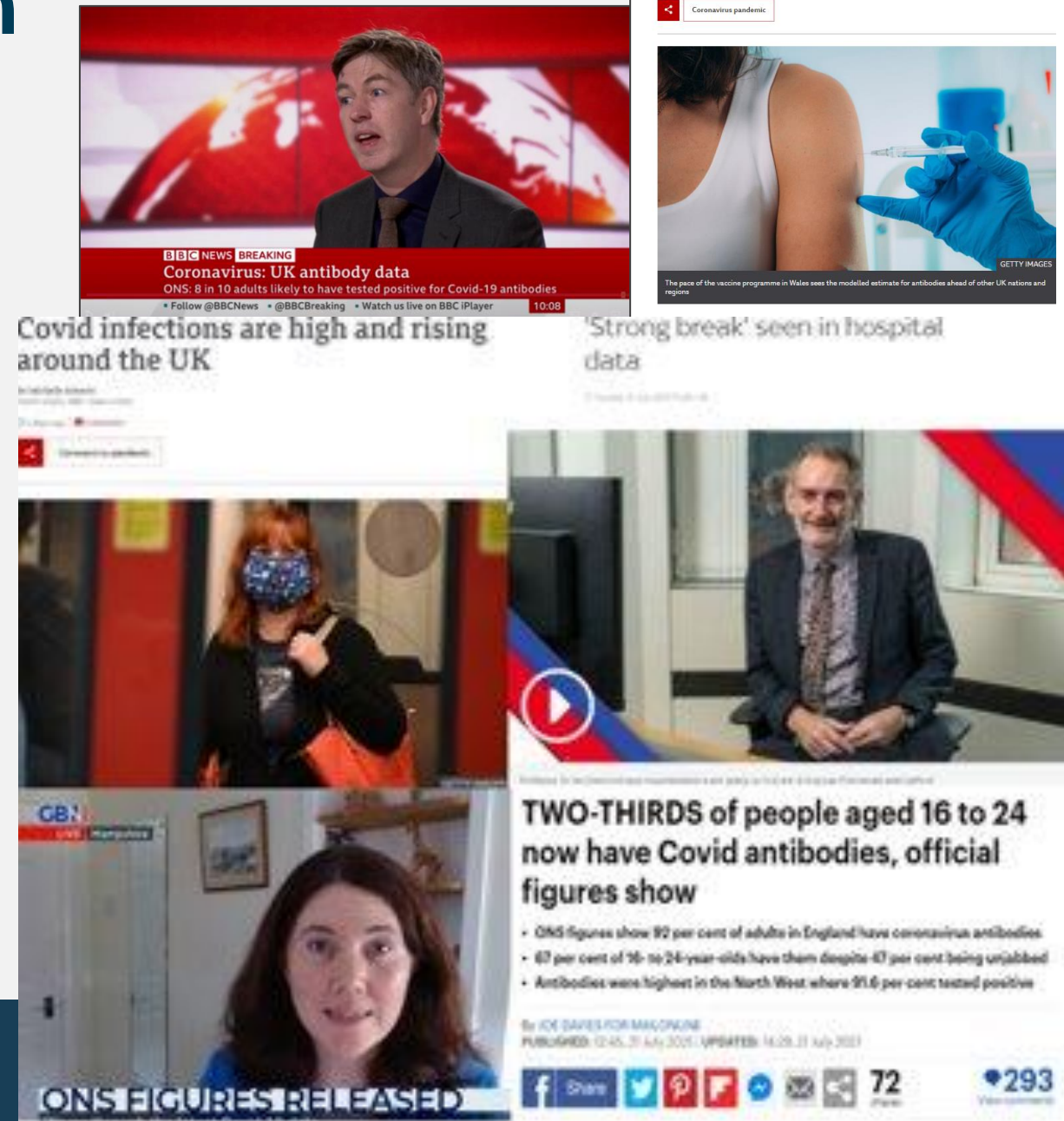
# COVID-19 Insights tool

- Within ONS collaboration
- Putting users at the heart
- Triangulation and comparisons between data sources



# Other public dissemination

- Blogs
- TV interviews
- Graphs and figures used in Government briefings
- Our data are picked up regularly by news outlets



# What have our findings shown?

- Data from the CIS has directly supported key decision making:
  - Regional lockdown
  - November 5th lockdown
  - Regional tier regulations
  - New variant restrictions
  - Roadmap evidence

## Covid: England's regional tiers to be set out

🕒 26 November 2020 | 💬 Comments

## Covid-19: Christmas rules tightened for England, Scotland and Wales

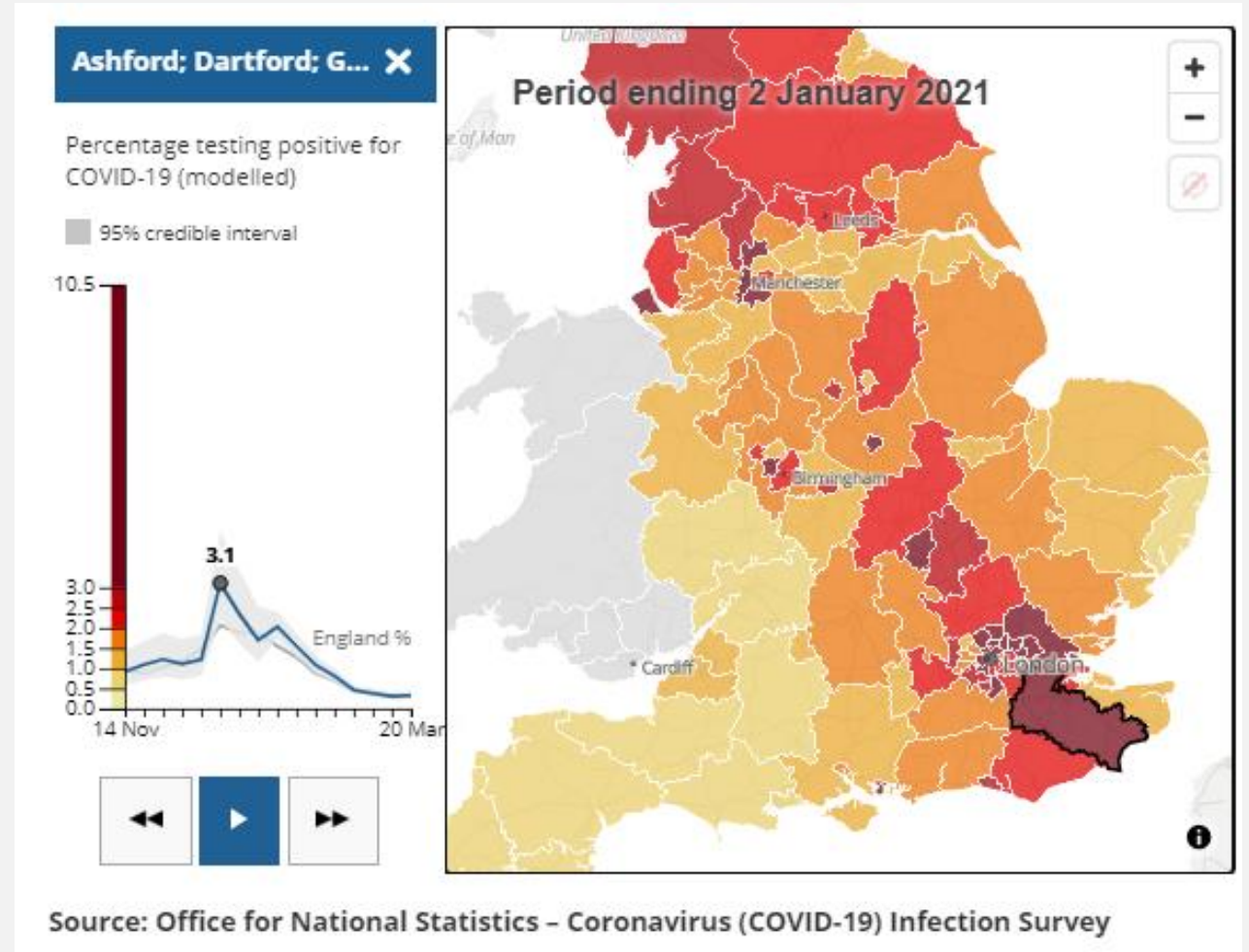
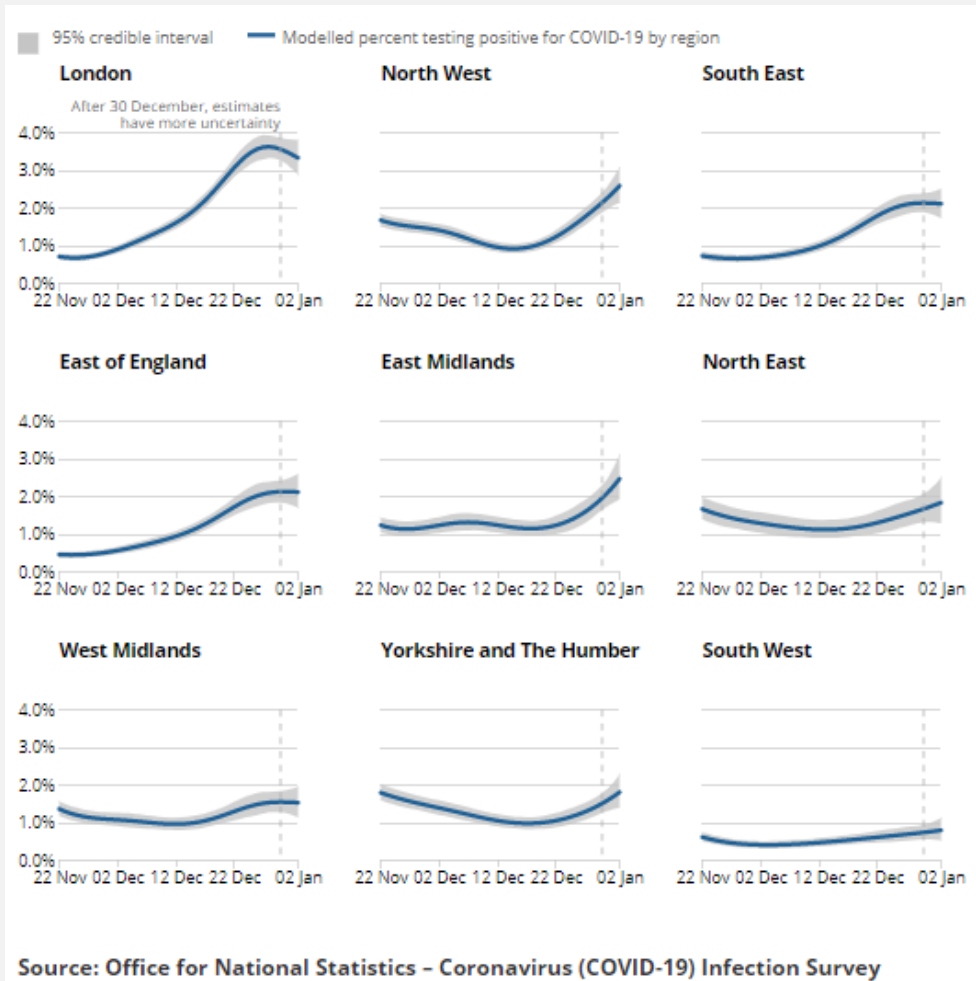
🕒 20 December 2020 | 💬 Comments

## Confirmed cases of COVID-19 variants identified in UK

Press release

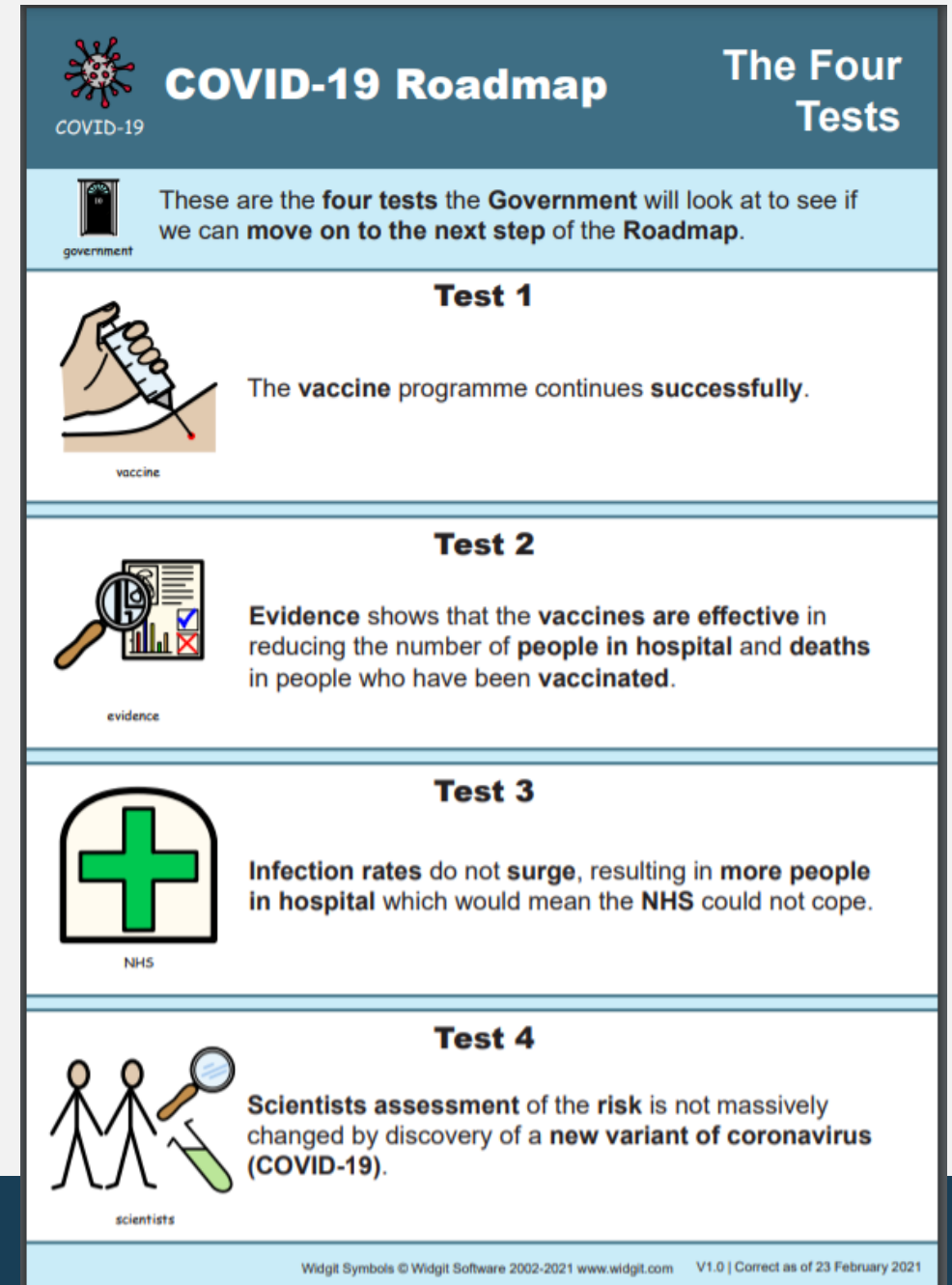
## Prime Minister sets out roadmap to cautiously ease lockdown restrictions

# Analysis to inform local lockdowns



# The four tests

- The government set out a roadmap plan to completely ease the restrictions in England in July.
- The COVID-19 Infection Survey was crucial in providing data as part of a suite of evidence on 4 tests that needed to be satisfied before the restrictions could be eased.









I am very happy to answer questions...

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