Latest numbers on COVID-19 in the UK – 14\textsuperscript{th} May 2021

We are at a crucial tipping point ahead of proposed unlocking on Monday May 17th.

1. Cases

2. Hospitalisations

3. Vaccinations

4. Schools

5. Variants

With many thanks to Bob Hawkins for his help in collating the data
Four tests of the Roadmap

Before each step proceeds, four tests must be met:

Test 1: The vaccine deployment programme continues successfully.

Test 2: Evidence shows vaccines are sufficiently effective in reducing hospitalisations and deaths in those vaccinated.

Test 3: Infection rates do not risk a surge in hospitalisations which would put unsustainable pressure on the NHS.

Test 4: Our assessment of the risks is not fundamentally changed by new Variants of Concern.
Cases
Number of new UK confirmed COVID-19 cases by reported date (people who have had a positive test)

Data from https://coronavirus.data.gov.uk
Number of new UK confirmed COVID-19 cases by reported date (people who have had a positive test)

Data from https://coronavirus.data.gov.uk

Easter holidays & opening outdoor spaces
Cases per 100K by Rolling 7 Days for the Home Nations Aug 15 – Apr 17

England cases include those identified by LFD tests - temporarily community LFD positive tests do not require confirmatory PCR tests.

Specimen date: Date someone had a test

Because it takes a few days for results to come through, can’t use most recent few days of data.

Data from https://coronavirus.data.gov.uk
Visualisation courtesy of Bob Hawkins
Daily Test Positivity Rate for the Home Nations Aug 15 – Mar 20

All rates are calculated based on PCR tests only and are comparable across the Home Nations

Data from https://coronavirus.data.gov.uk
Visualisation courtesy of Bob Hawkins
Prevalence rate (people currently infected) by nation to 9\textsuperscript{th} May – ONS

Prevalence is low and flat across all nations

Chart from https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/bulletins/coronaviruscovid19infectionsurveypilot/latest
Cases per 100K by Rolling 7 Days for English Regions Aug 15 – Apr 17

Cases include those identified from LFD tests - temporarily community LFD positive tests do not require confirmatory PCR tests

Data from https://coronavirus.data.gov.uk
Visualisation courtesy of Bob Hawkins
Daily Test Positivity Rate for English Regions Aug 15 – May 8
(Source: England – Covid Daily Update based on PCR tests only)

Data from https://coronavirus.data.gov.uk
Visualisation courtesy of Bob Hawkins
Positivity Rate for English Regions
Comparison of week ending May 8 to prior week to week ending Sep 1
ONS infection survey (prevalence) for English regions to 9\textsuperscript{th} May

Data from https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/bulletins/coronaviruscovid19infectionsurveypilot/latest
Hospitalisation
Number of people in hospital per million people – UK nations to 5 May

Data from https://coronavirus.data.gov.uk
Number of 1\textsuperscript{st} and 2\textsuperscript{nd} doses given by day in the UK to 5\textsuperscript{th} May

Data from https://coronavirus.data.gov.uk/

Thanks to Bob Hawkins for the chart
UK First / Second Dose Coverage of the Adult Population by Day: Jan 10 to May 12
(Source: Covid Daily Update)
Proportion of adults given at least one dose over time for each nation to 12th May

Data from https://coronavirus.data.gov.uk/
Thanks to Bob Hawkins for the chart
First and Second Dose Coverage by Age for England to 12th May

Data from https://www.england.nhs.uk/statistics/statistical-work-areas/covid-19-vaccinations
Second Dose Coverage for Over 80s by NHS Region from Jan 10 to May 9
(Source: https://www.england.nhs.uk/statistics/statistical-work-areas/covid-19-vaccinations/)
Second Dose as a Percent of First Doses for Over 80s by NHS Region from Mar 10 to May 9

(Source: https://www.england.nhs.uk/statistics/statistical-work-areas/covid-19-vaccinations/)
Second Dose as a Percent of First Doses for Over 40s by Deprived MSOA
(Source: https://www.england.nhs.uk/statistics/statistical-work-areas/covid-19-vaccinations/)
Schools
Cases per 100K by Rolling 7 Days for England Under 20’s
(Source: England – Covid Daily Update)

Return to School. Secondary school children routinely tested with LFD

School Easter Holiday. Secondary school children testing voluntarily with confirmatory PCR test.

Mainly secondary school children routinely tested
Primary / nursery children not routinely tested

Data from: https://coronavirus.data.gov.uk/details/download
Volume of LFD Tests by Day (7DMA): England Dec 1 – May 8

Data from: https://coronavirus.data.gov.uk/details/download
Percentage of population testing positive by age in England (to 2\textsuperscript{nd} May) (ONS infection survey)

Figure 3: The percentage testing positive in England decreased in people aged two years to school Year 11 in the week ending 2 May 2021

Estimated percentage of the population testing positive for the coronavirus (COVID-19) on nose and throat swabs, daily, by age group since 22 March 2021, England

Chart from https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/bulletins/coronaviruscovid19infectionsurveypilot/latest
School outbreaks – Public Health England to 2\textsuperscript{nd} May

Weekly cases per 100,000 for nursery to Year 6

Weekly cases per 100,000 for secondary school year groups (Year 7 to Year 13)

Test 4: Our assessment of the risks is not fundamentally changed by new Variants of Concern.
Cumulative number of sequenced samples of different variants in England (COVID-19 Genomics (COG-UK) Consortium)

Includes all sequenced tests, including from travellers to UK & surge testing.
Number of sequenced cases each week in UK for each of four new variants (COVID-19 Genomics (COG-UK) Consortium)

Includes all sequenced tests, including from travellers to UK & surge testing
Number of sequenced cases each week in UK for each of four new variants (COVID-19 Genomics (COG-UK) Consortium)

Includes all sequenced tests, including from travellers to UK & surge testing
Number of sequenced cases each week in UK by B1617 ("India") subtype. (Sanger Institute - *excludes* travel related cases and surge testing cases).

The numbers are smaller but the trend is the same.

Data from [https://covid19.sanger.ac.uk/downloads](https://covid19.sanger.ac.uk/downloads)
Proportion of sequenced cases each week in UK by B1617 (“India”) subtype. (Sanger Institute - *excludes* travel related cases and surge testing cases).

B1617.2 makes up over 10% of sequenced cases.

Data from https://covid19.sanger.ac.uk/downloads
India placed on the ‘Red List’
Proportion of sequenced cases each week that are B.1.617 or its sub-lineages by region

Excludes cases from travellers and surge testing.
Excludes regions where proportion B.1.617 is currently below 5%

Data from https://covid19.sanger.ac.uk/downloads.
Proportion of cases detected with (purple) and without (green) S-gene dropout

Summary

Cases have stated to rise, although positivity remains flat across all nations. Positivity presents a slightly mixed picture regionally.

Vaccination going very well. Disparities by deprivation and ethnicity persist.

Small rises in school-age children and number of outbreaks in schools.

The rapid increase of B.1.617.2 and cases not linked to travel suggest it is spreading rapidly in the community in the UK.

Spreading in areas where other variants are falling suggests higher transmissibility.

No firm evidence yet that vaccines don’t work against it

Increased transmissibility could still mean an unpleasant “exit wave” if not contained.