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# Latest numbers on COVID-19 in the UK – 7th May 2021

Things are generally good – but beware the variants.

1. Cases
2. Hospitalisations & Deaths
3. Vaccinations
4. Schools
5. Variants
6. International Context

**With many thanks to Bob for his help in collating the data**

# Cases

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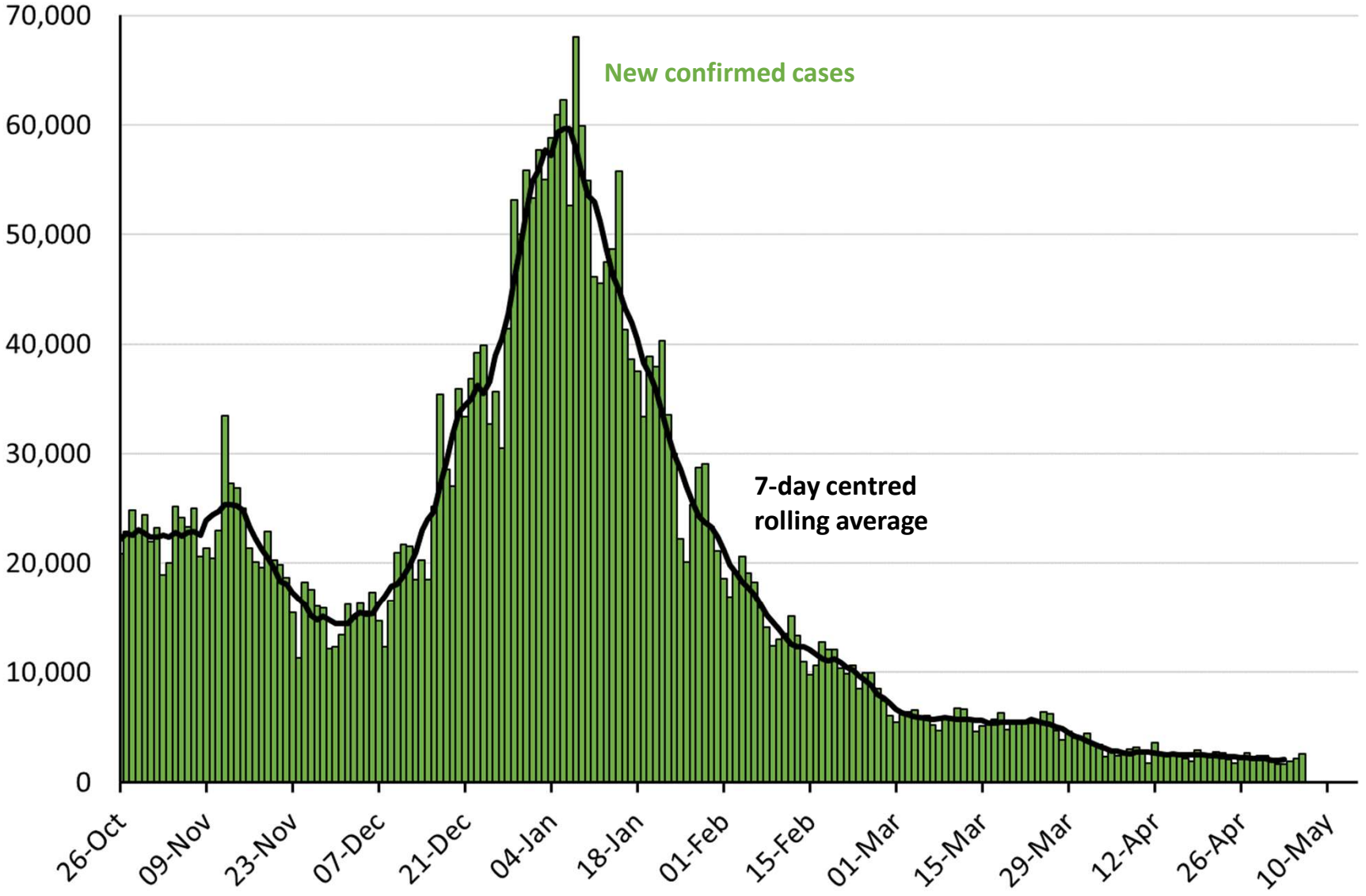
# Number of new UK confirmed COVID-19 cases by reported date (people who have had a positive test)




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

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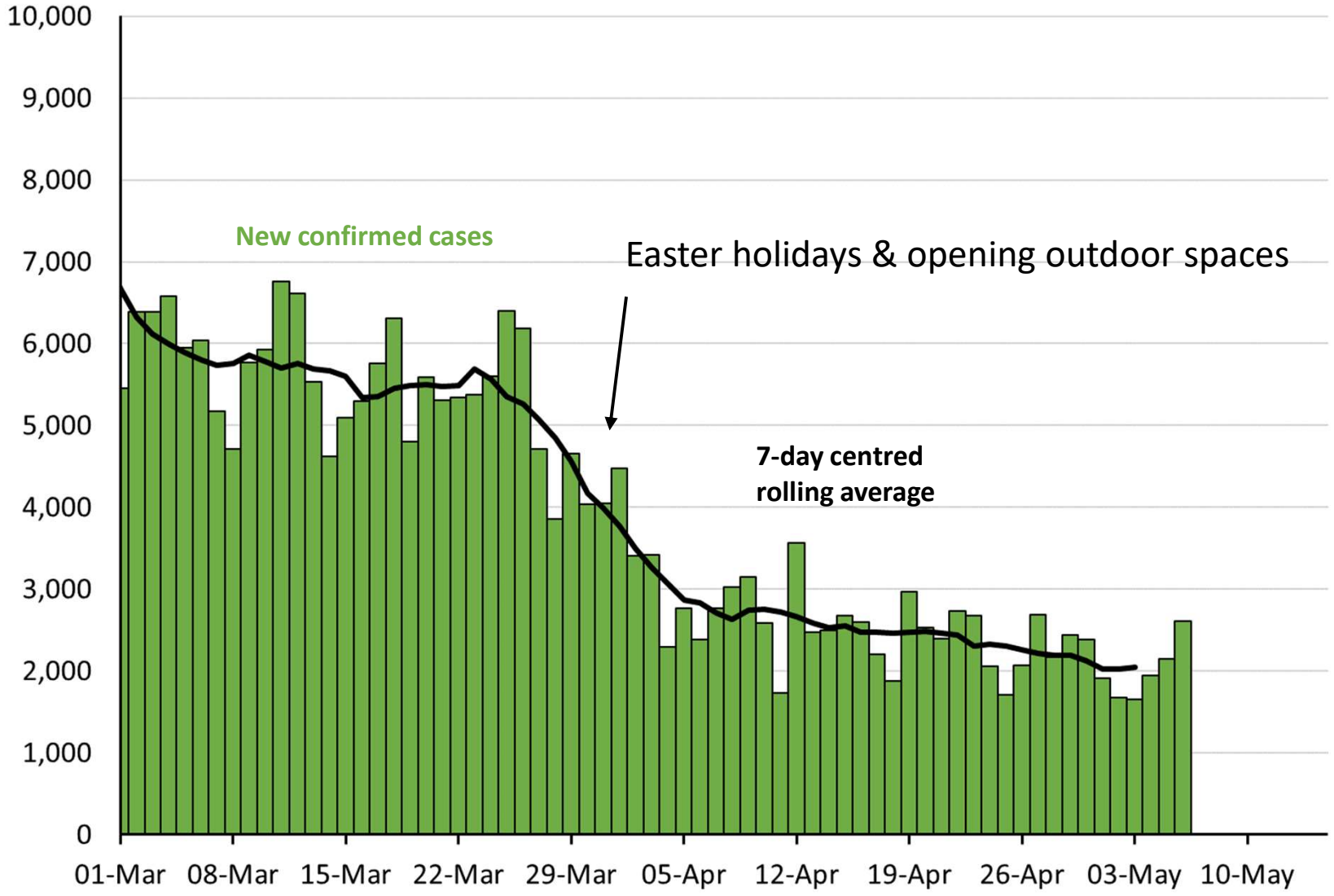


Data from https://coronavirus.data.gov.uk

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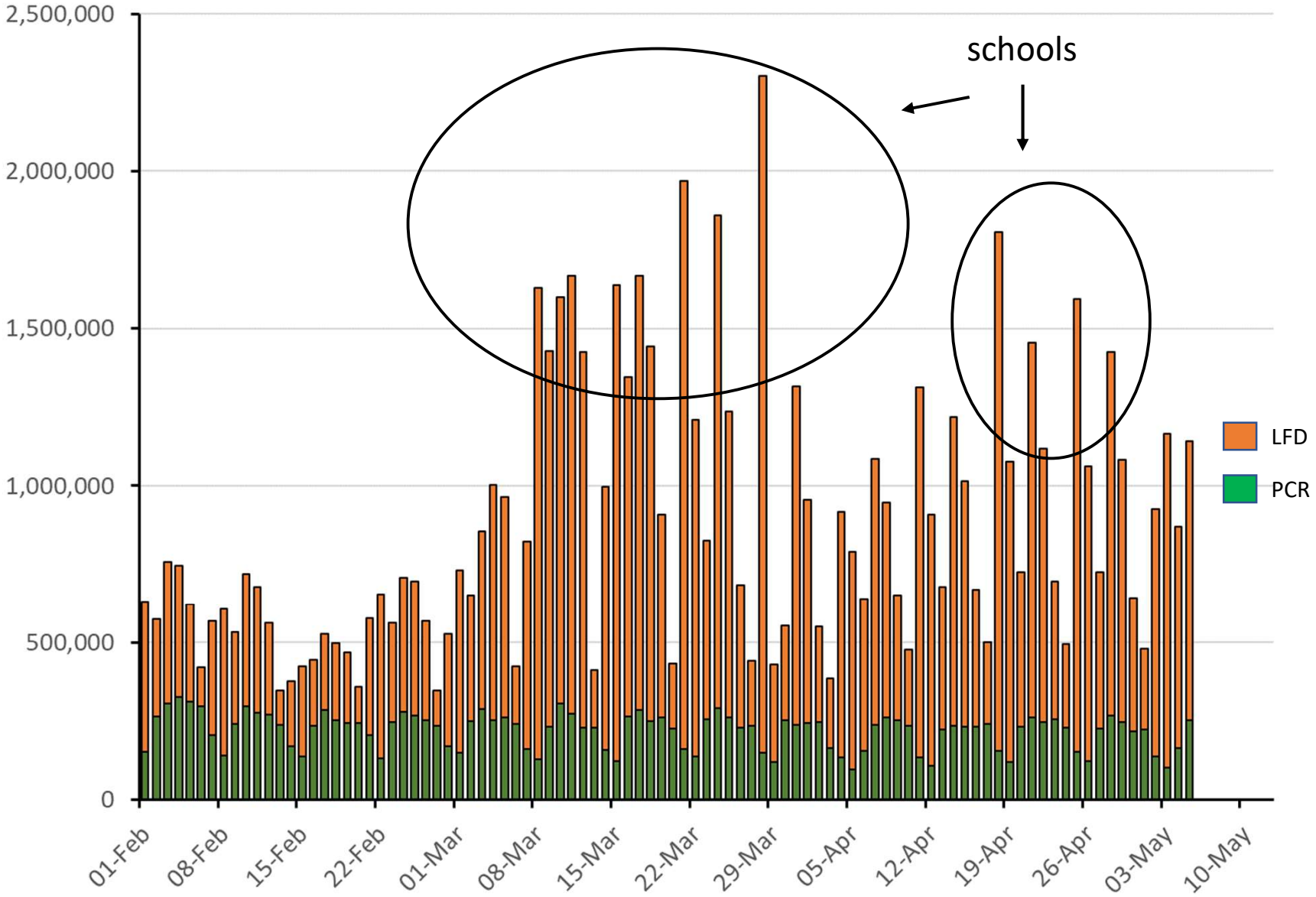
# Number of tests performed each day by LFD or PCR type in England (to 5th May)




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

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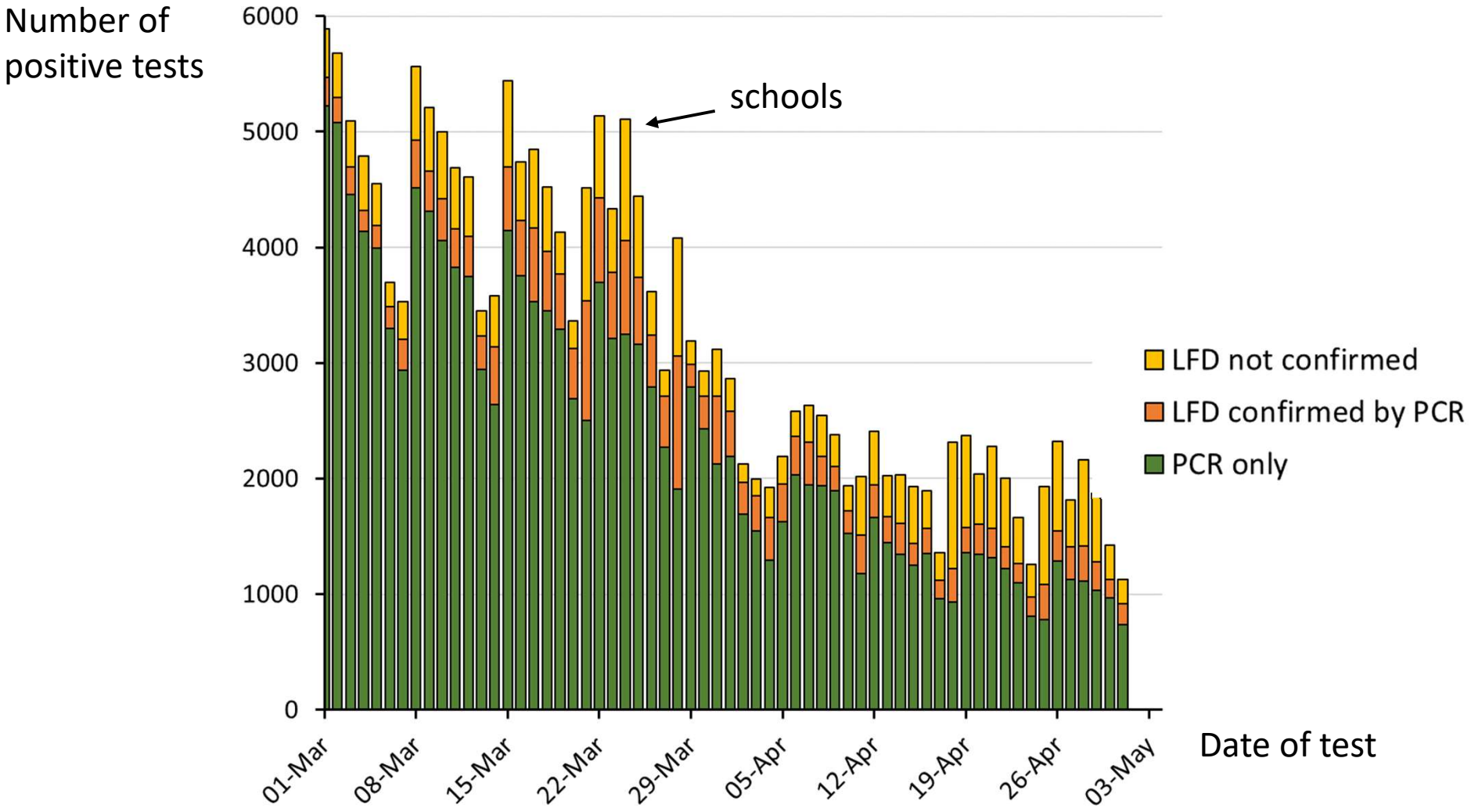
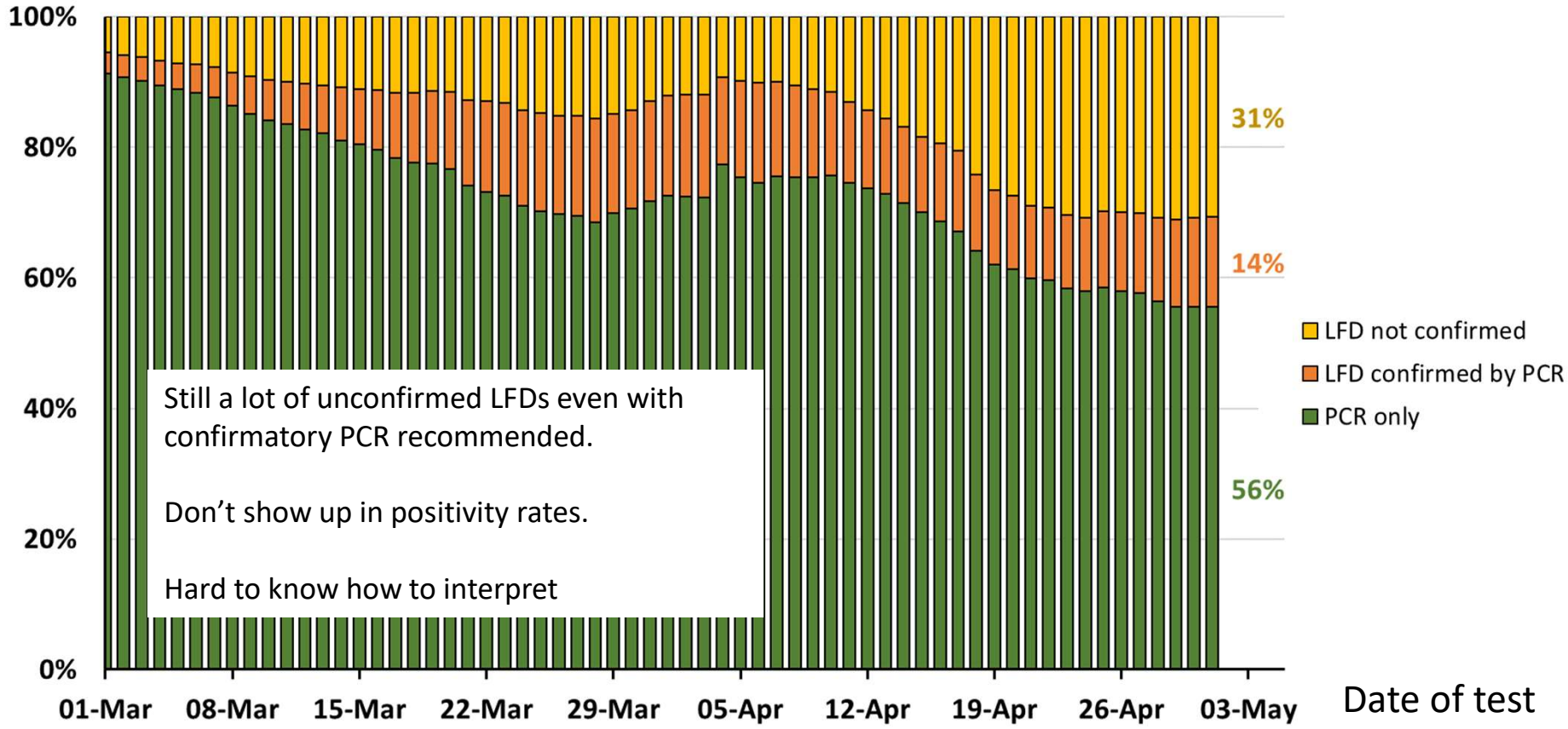
# Number of *cases* each day by LFD or PCR type in England (i.e. positive tests) to 1st May




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

# Proportion of *cases* each day by LFD or PCR type in England to 1st May

Proportion of positive tests




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

Thanks to Bob Hawkins for the chart

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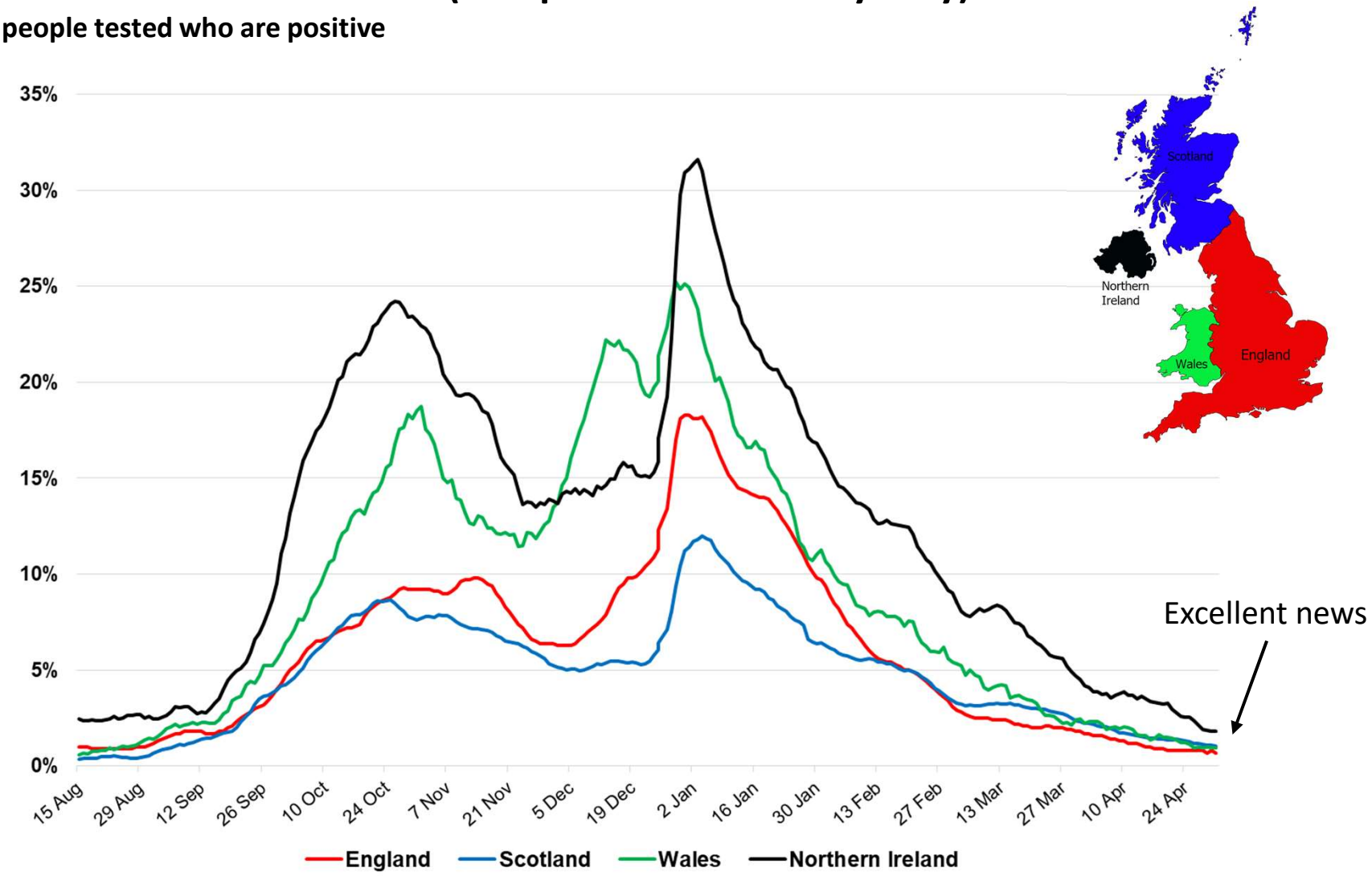
# Positivity rates – UK nations – by date of test to 1st May (PCR positive cases only only)

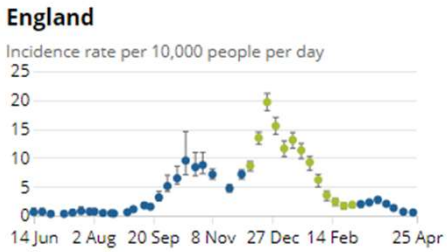
**% of people tested who are positive**

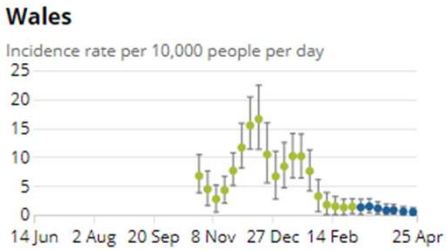


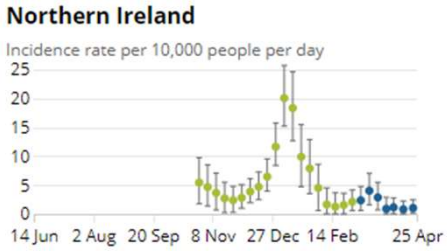

Data from:
Scotland: https://www.opendata.nhs.scot/dataset/covid-19-in-Scotland
Wales: https://public.tableau.com/profile/public.health.wales.health.protection#!/vizhome/RapidCOVID-19virology-Public/Headlinesummary
NI: https://www.health-ni.gov.uk/publications/daily-dashboard-updates-covid-19-november-2020
England: https://coronavirus.data.gov.uk . ONS https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/bulletins/coronaviruscovid19infectionsurveypilot/latest

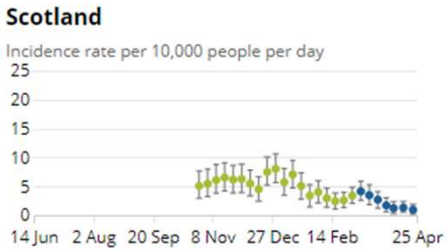
**Visualisation courtesy of Bob Hawkins**

# Incidence rate (new infections) by nation to 2nd May – ONS




Incidence is low and flat across all nations

Chart from https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/bulletins/coronaviruscovid19infectionsurveypilot/latest

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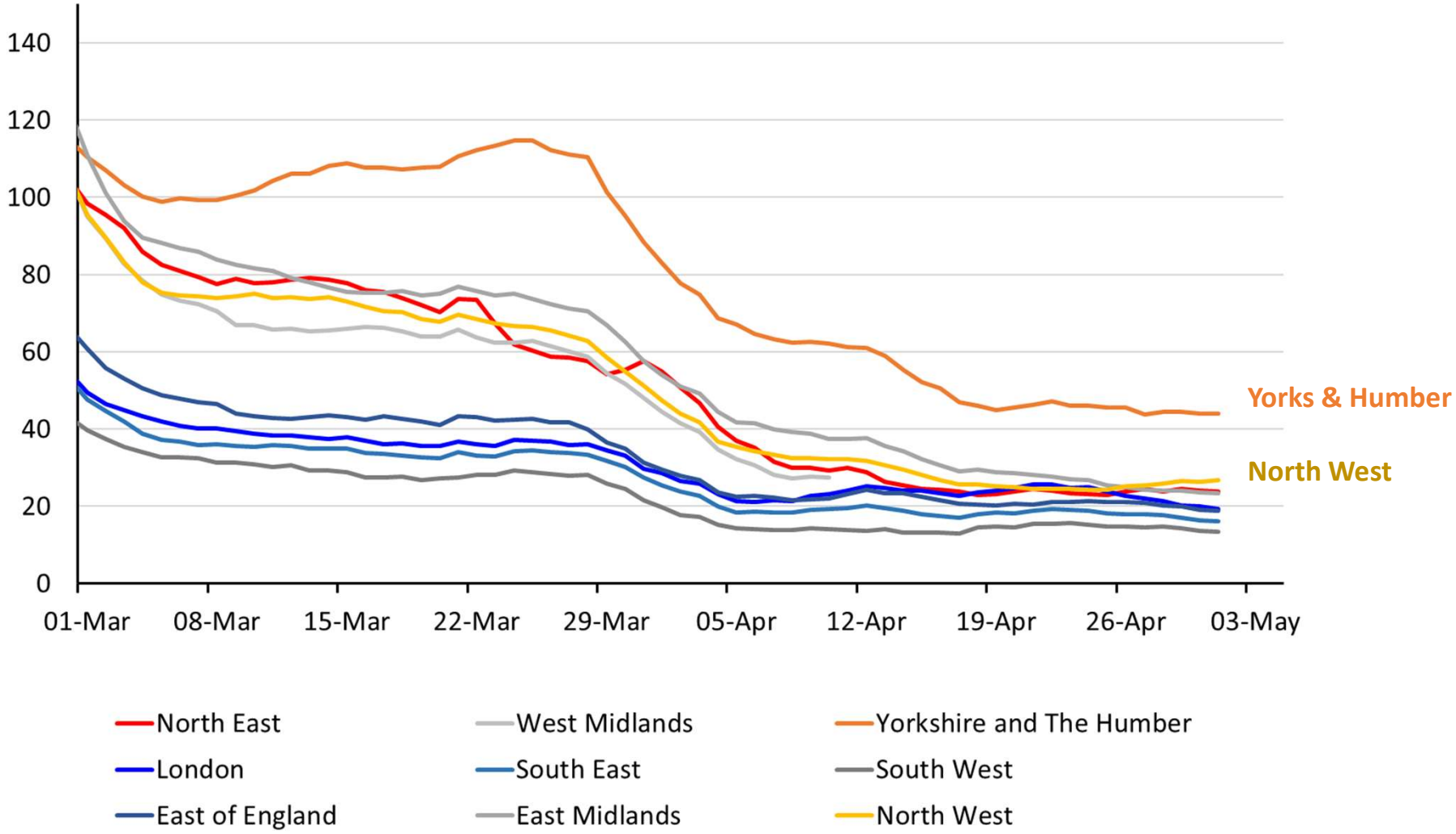
# Case rates for English regions to 1st May (by date of test)

**Number of cases**

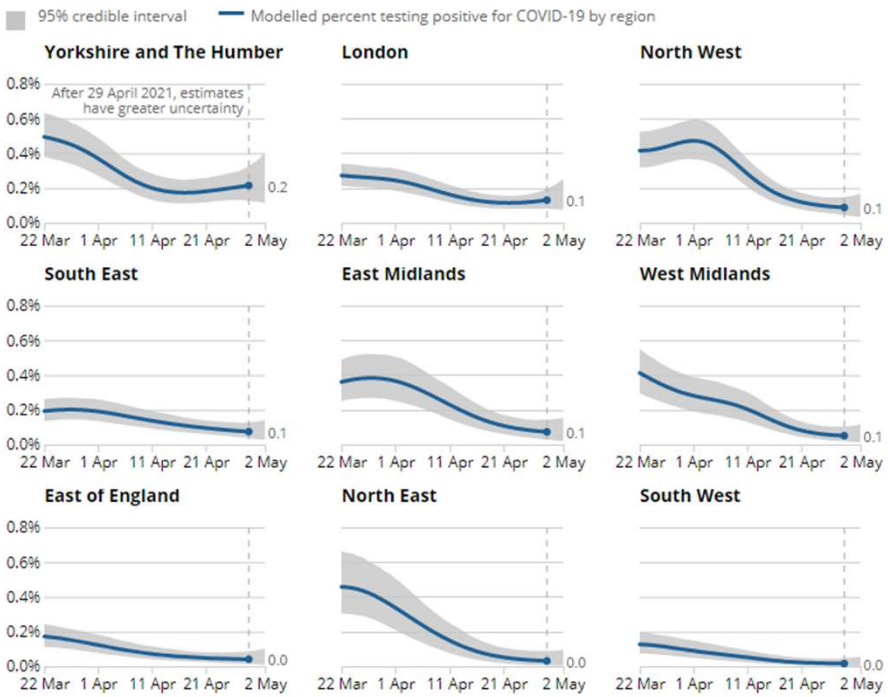



Data from https://coronavirus.data.gov.uk

# ONS infection survey for English regions to 2nd May

**Figure 2: The percentage of people testing positive decreased in all regions except in Yorkshire and The Humber, the East of England and London where the trends are uncertain 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 region since 22 March 2021, England




Data from https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/bulletins/coronaviruscovid19infectionsurveypilot/latest

# Hospitalisations and Deaths

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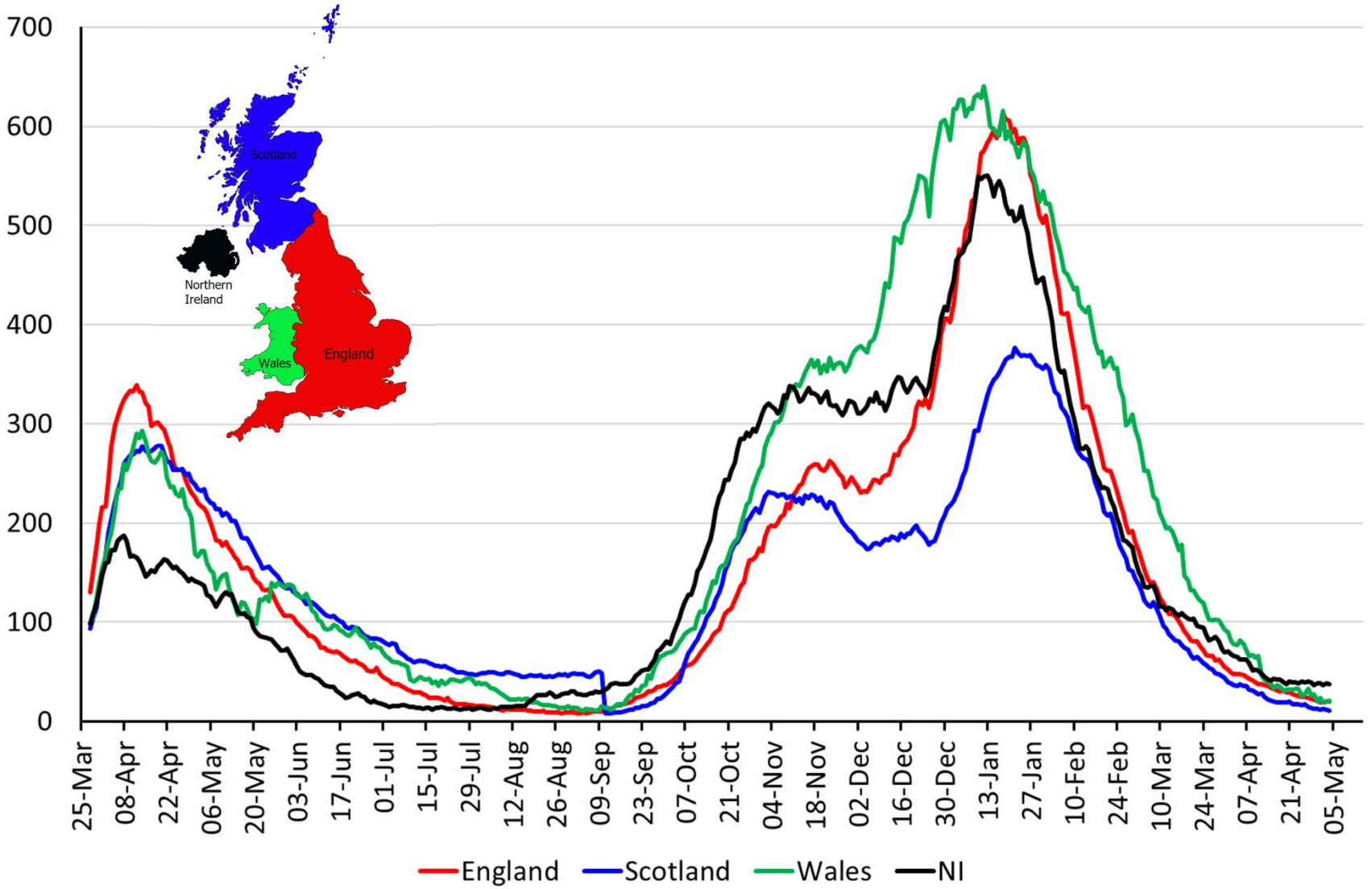
# Number of people in hospital per million people – UK nations to 5 May




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

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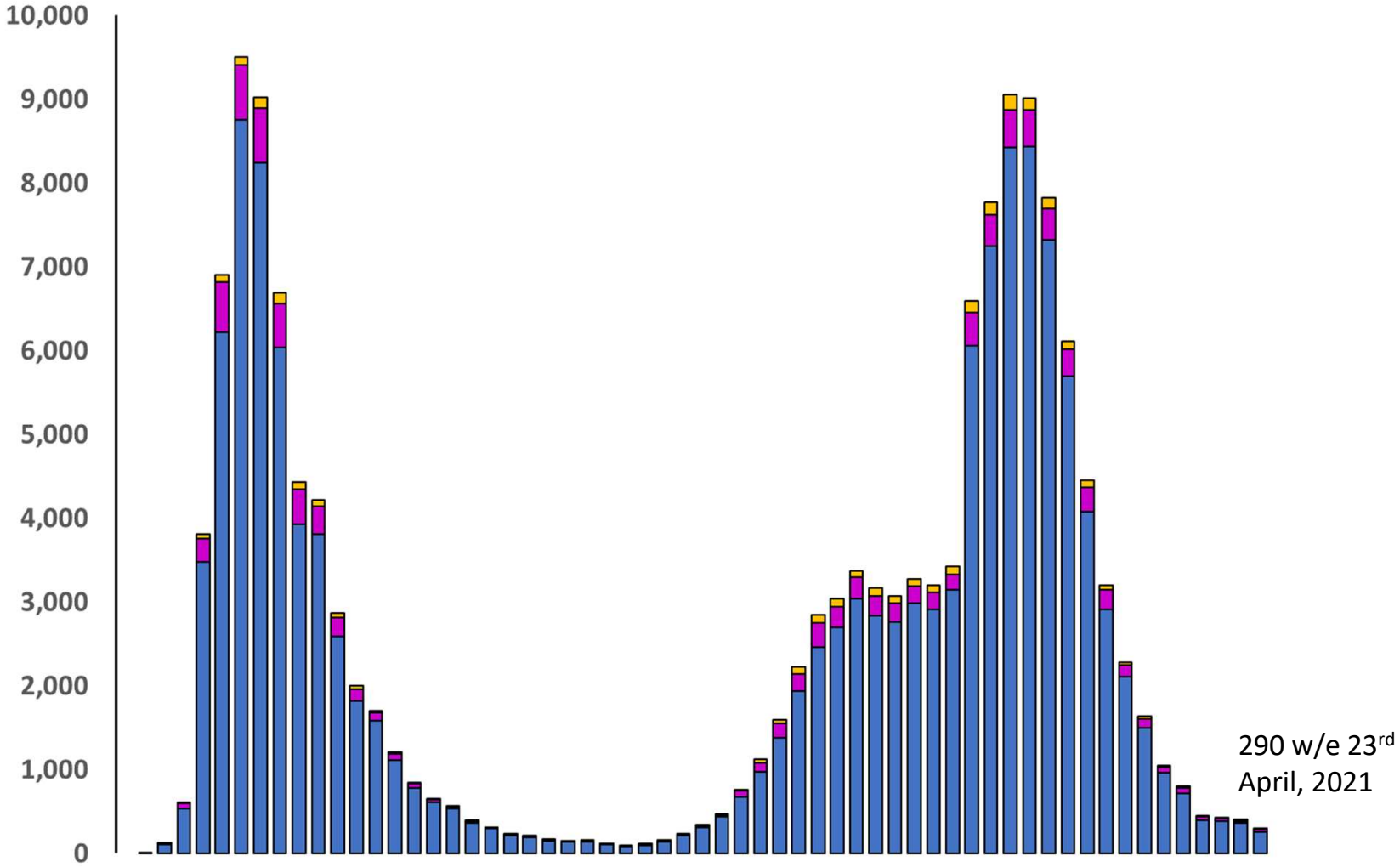
# Number of new UK deaths from COVID-19 per week to week ending 23rd April




Data from :
England and Wales: www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/bulletins/deathsregisteredweeklyinenglandandwalesprovisional/latest
Scotland: https://data.gov.scot/coronavirus-covid-19/detail.html
Northern Ireland: www.nisra.gov.uk/publications/weekly-deaths

# Vaccination data

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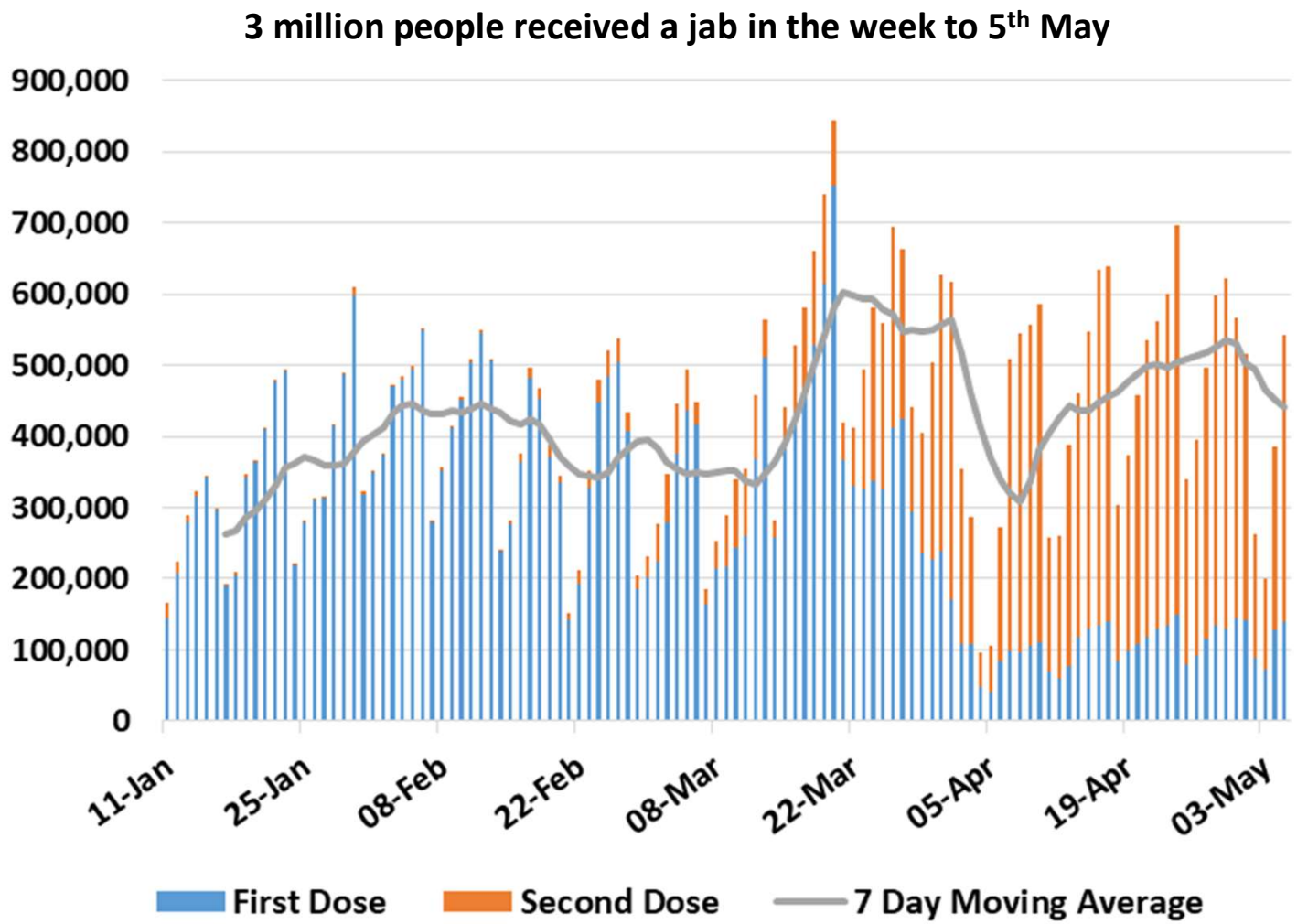
# Number of 1st and 2nd doses given by day in the UK to 5th May

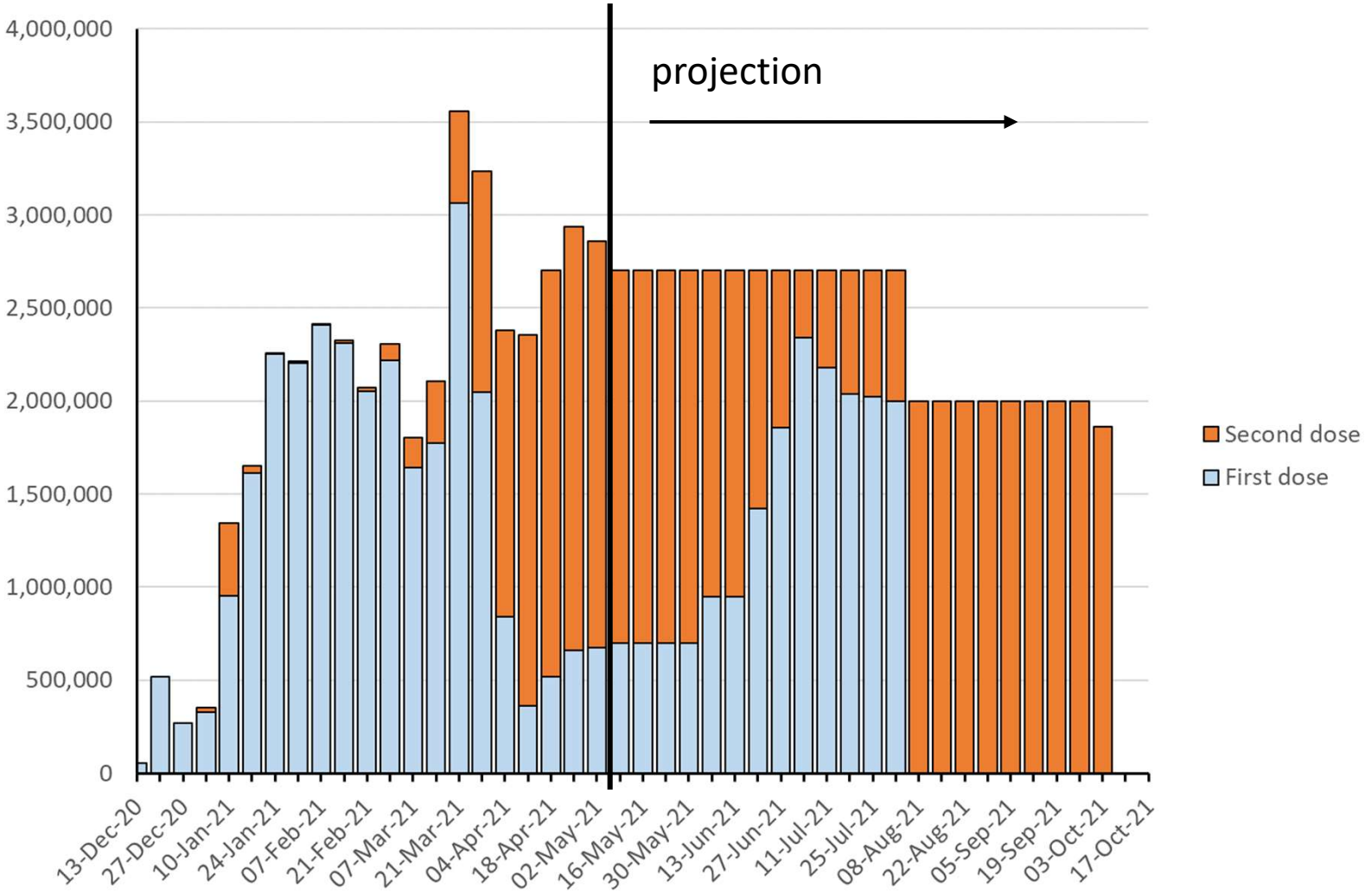



Data from https://coronavirus.data.gov.uk/

**Thanks to Bob Hawkins for the chart**

# Vaccine projections (England)

**Should be on track to offer 1st dose to everyone by end July, and 2nd dose by end Sept**




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

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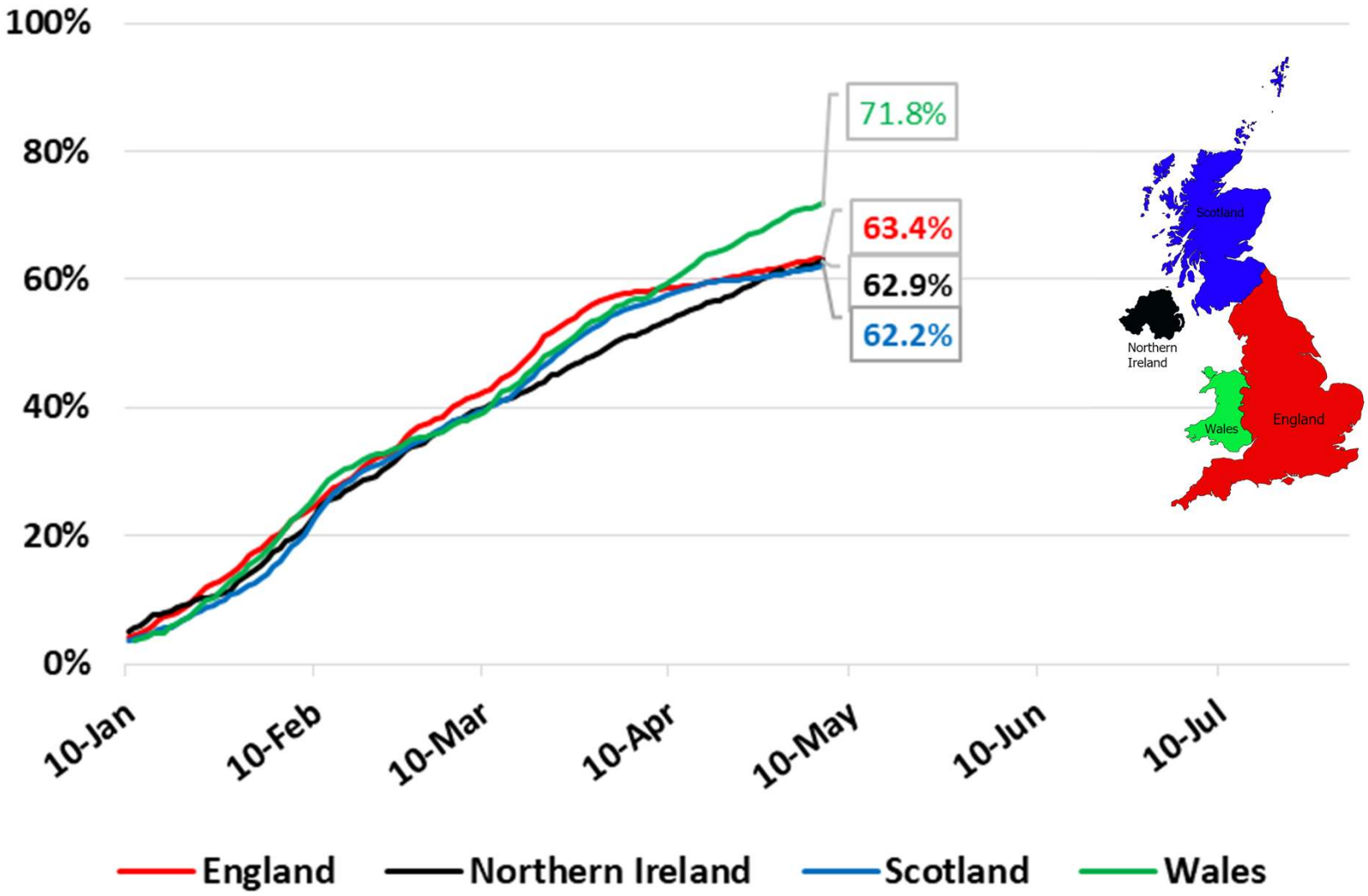
# Proportion of adults given at least one dose over time for each nation to 5th May




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

**Thanks to Bob Hawkins for the chart**

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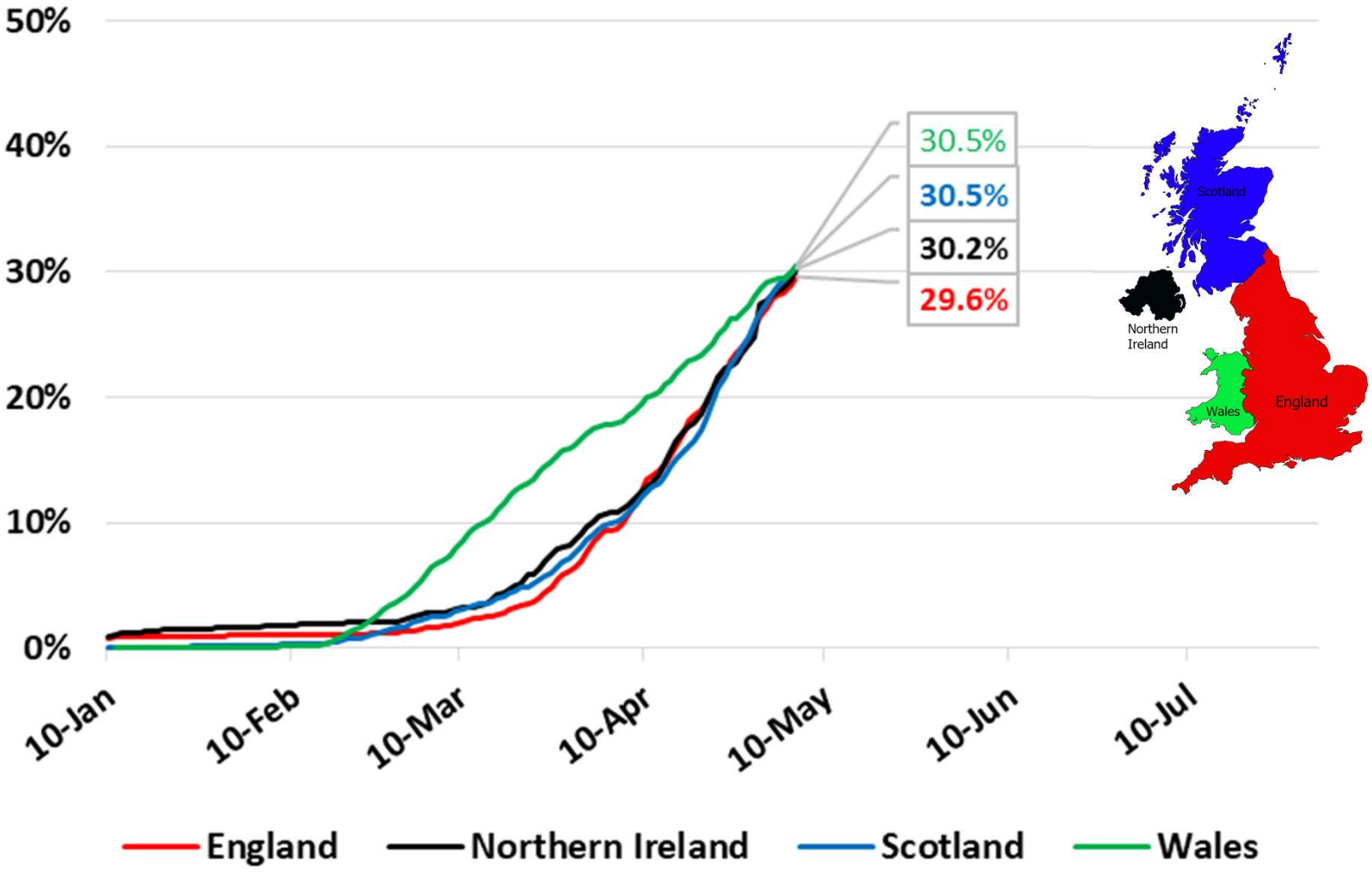
# Proportion of adults fully vaccinated over time for each nation to 5th May




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

**Thanks to Bob Hawkins for the chart**

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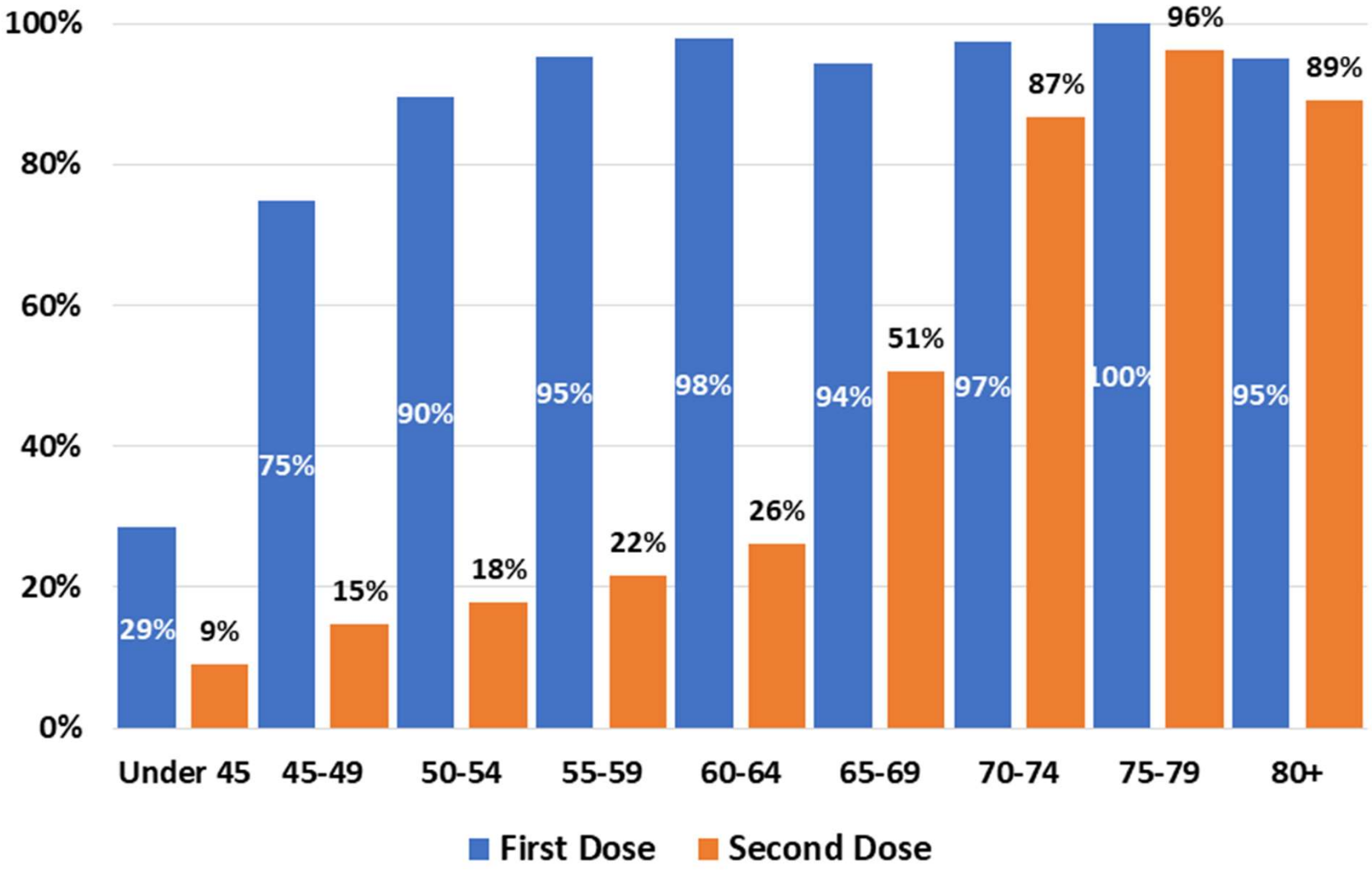
# First and Second Dose Coverage by Age for England to 25th April




Data from https://www.england.nhs.uk/statistics/statistical-work-areas/covid-19-vaccinations

**Thanks to Bob Hawkins for the chart**

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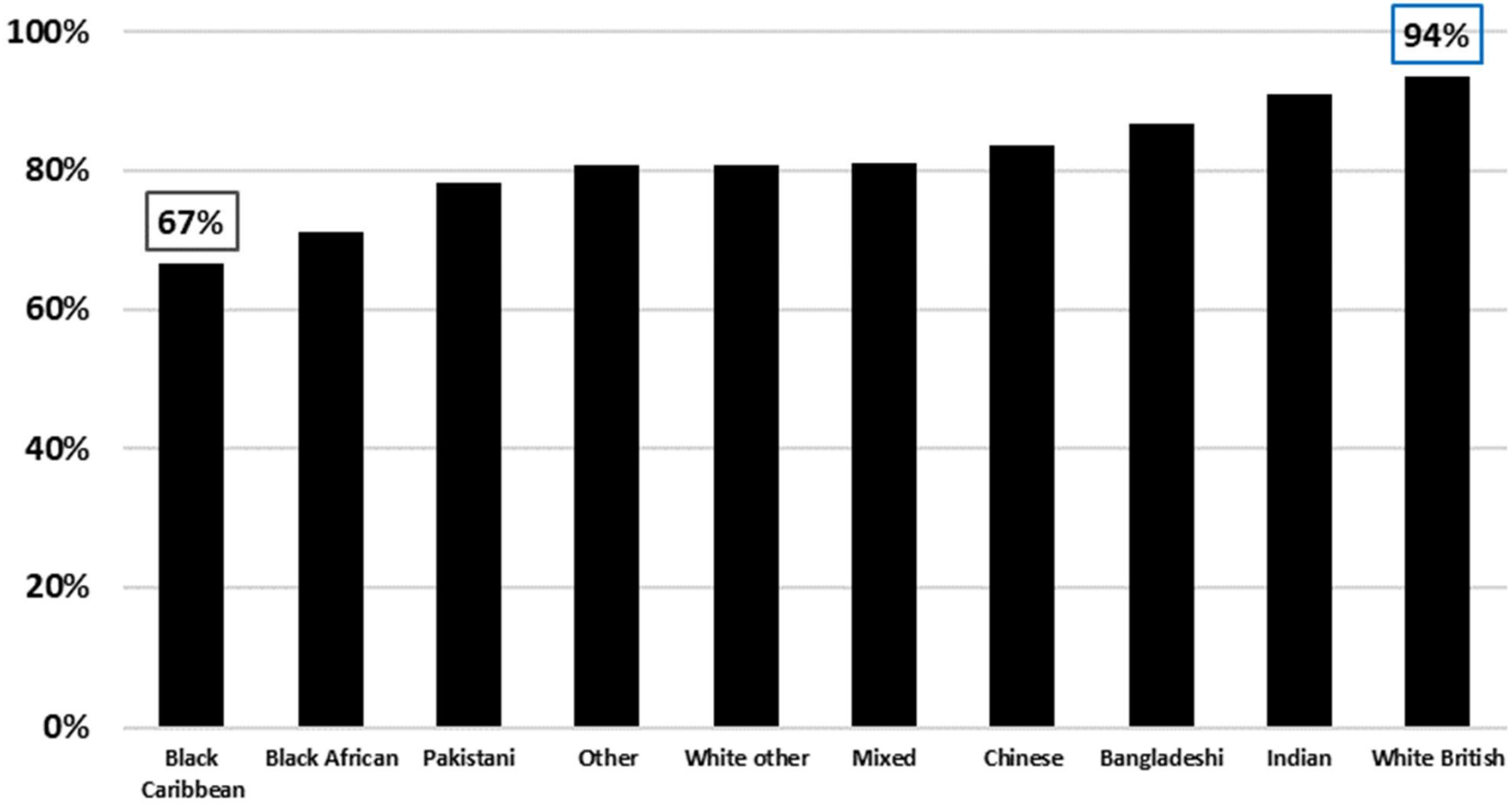
# First Dose Coverage by Ethnicity for over 50s for England to Apr 12 (ONS)




Data from COVID-19 vaccination rates and odds ratios by socio-demographic group - Office for National Statistics (ons.gov.uk)

**Thanks to Bob Hawkins for the chart**

# Schools

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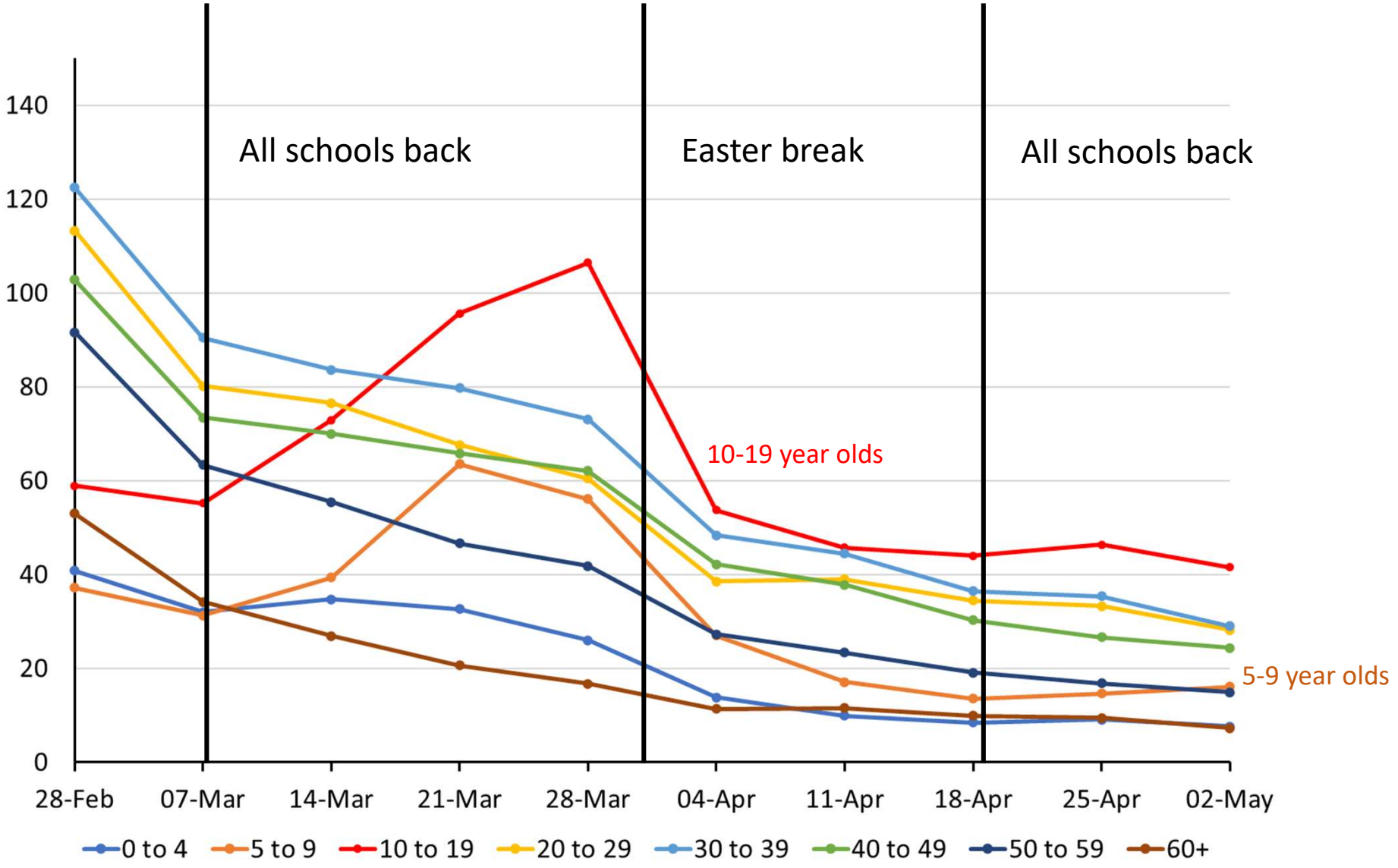
# Age distribution of cases – Public Health England to 2nd May




Data from https://www.gov.uk/government/statistics/national-flu-and-covid-19-surveillance-reports

# Percentage of population testing positive by age in England (to 2nd 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

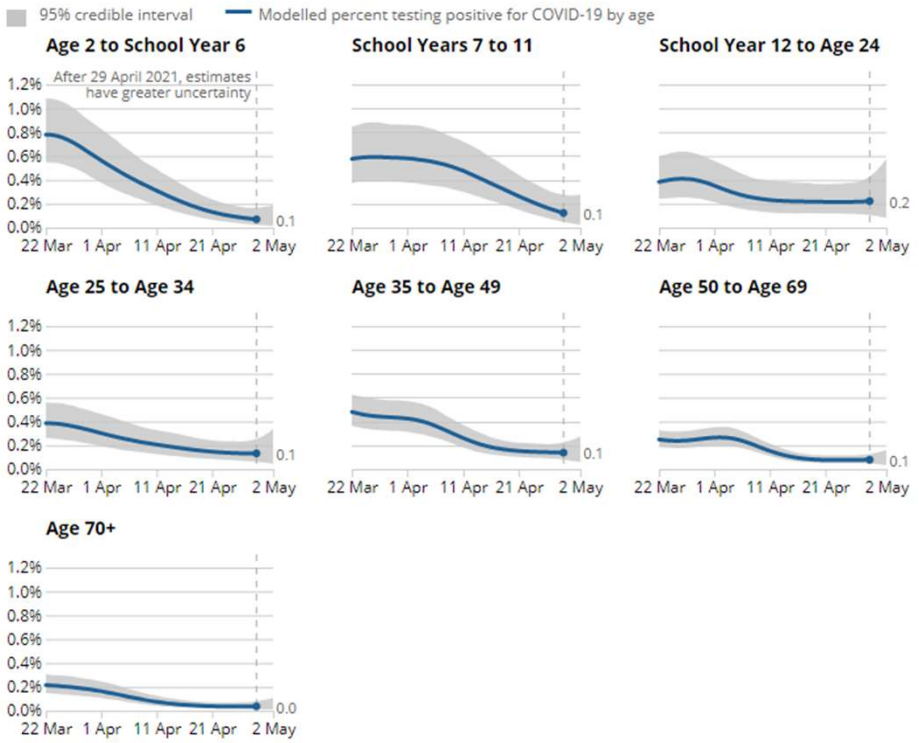
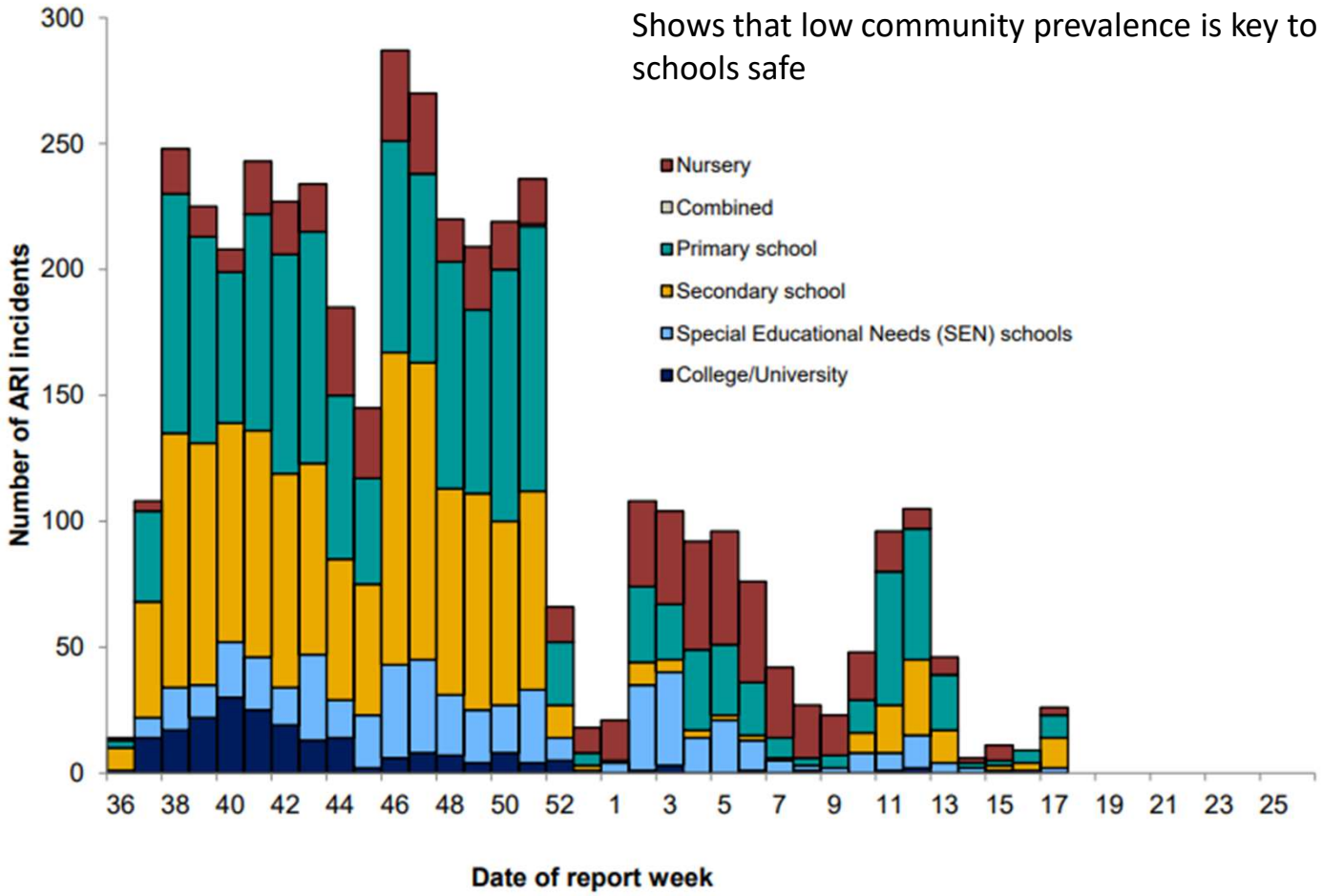



Chart from https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/bulletins/coronaviruscovid19infectionsurveypilot/latest

# School outbreaks – Public Health England to 2nd May

So far much lower than in March, which in turn much lower than in Nov/Dec.

Shows that low community prevalence is key to keeping schools safe




Data from https://www.gov.uk/government/statistics/national-flu-and-covid-19-surveillance-reports

# Variants

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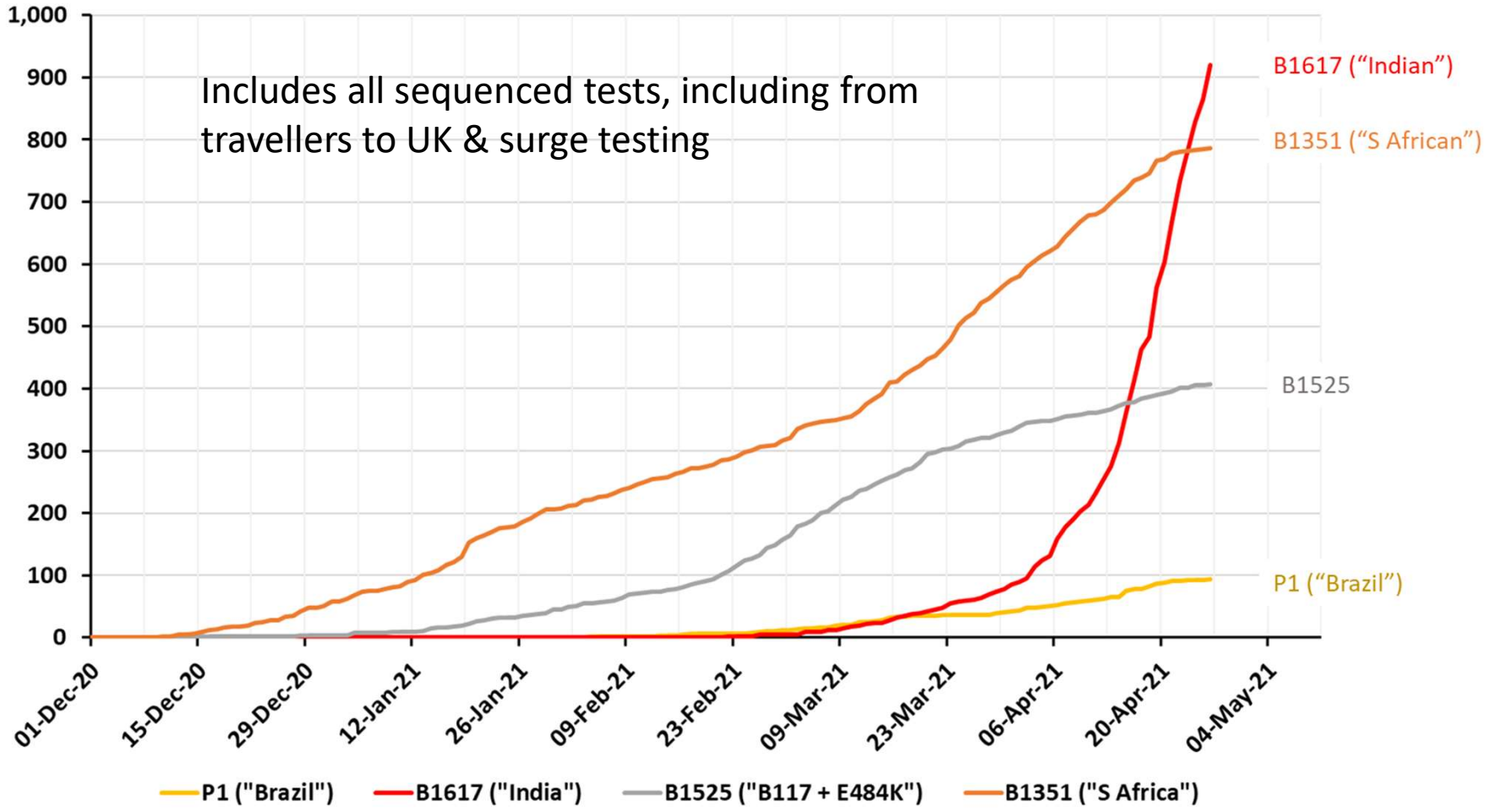
# Cumulative number of sequenced samples of different variants in UK (COVID-19 Genomics (COG-UK) Consortium)




Data from http://sars2.cvr.gla.ac.uk/cog-uk/. **Note that numbers for B1617 include subtypes: B1617.1, B1617.2, B1617.3**

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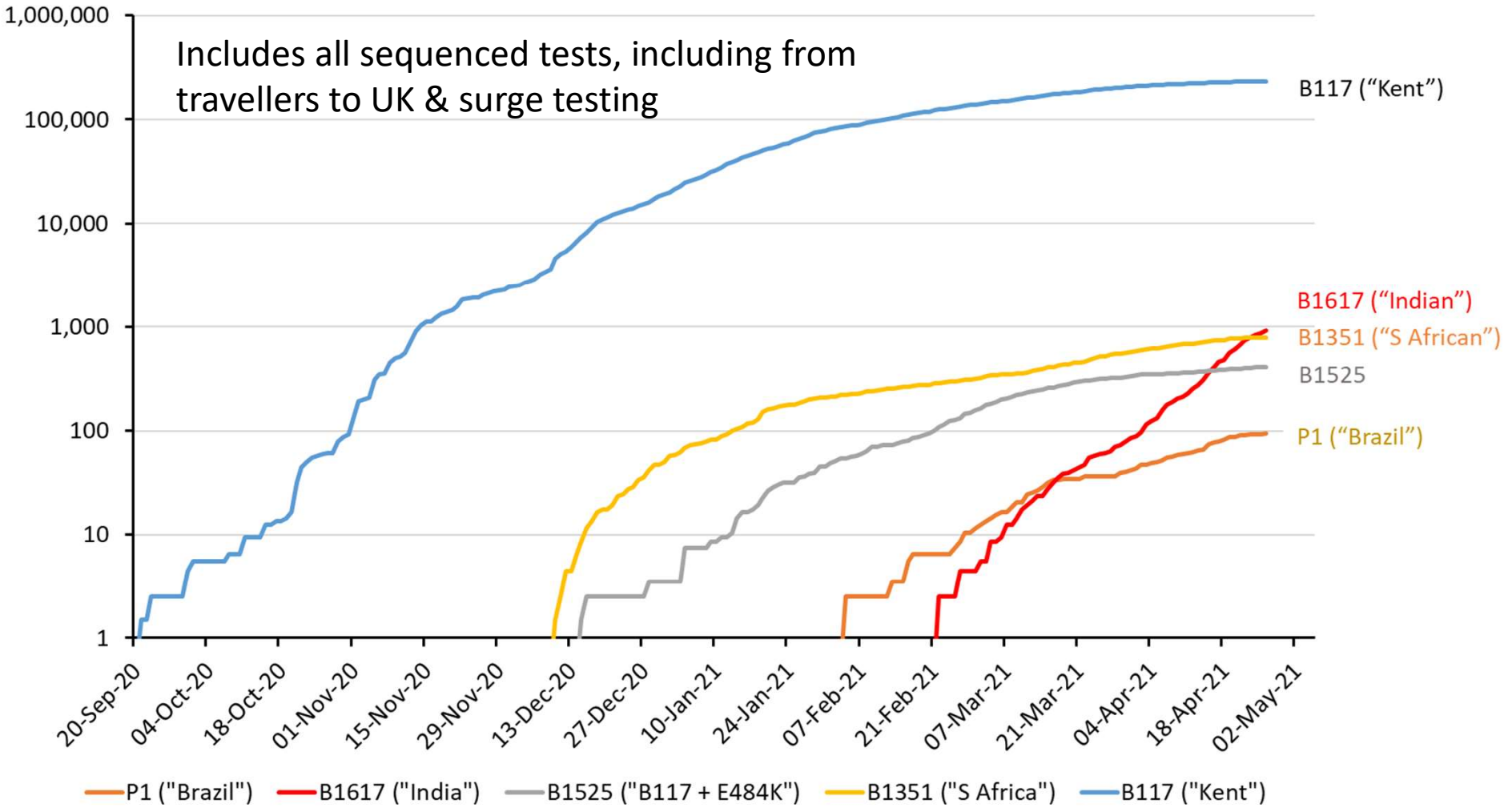
# Cumulative number of sequenced samples of different variants in UK (COVID-19 Genomics (COG-UK) Consortium)




Data from http://sars2.cvr.gla.ac.uk/cog-uk/. **Note that numbers for B1617 include subtypes: B1617.1, B1617.2, B1617.3**

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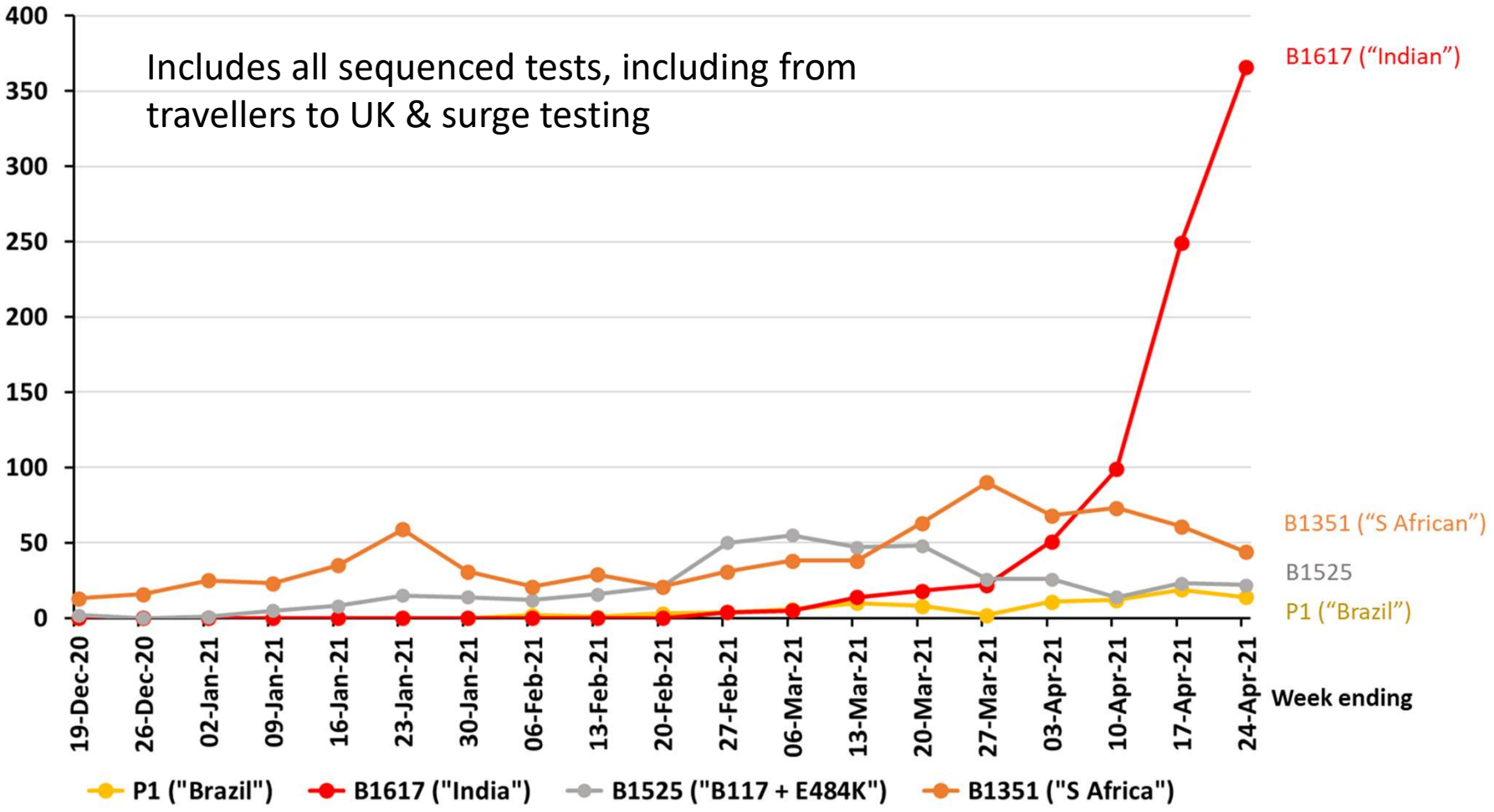
# Number of sequenced cases each week in UK for each of four new variants (does not include B117 (“Kent”) which makes up 90%+ of cases).

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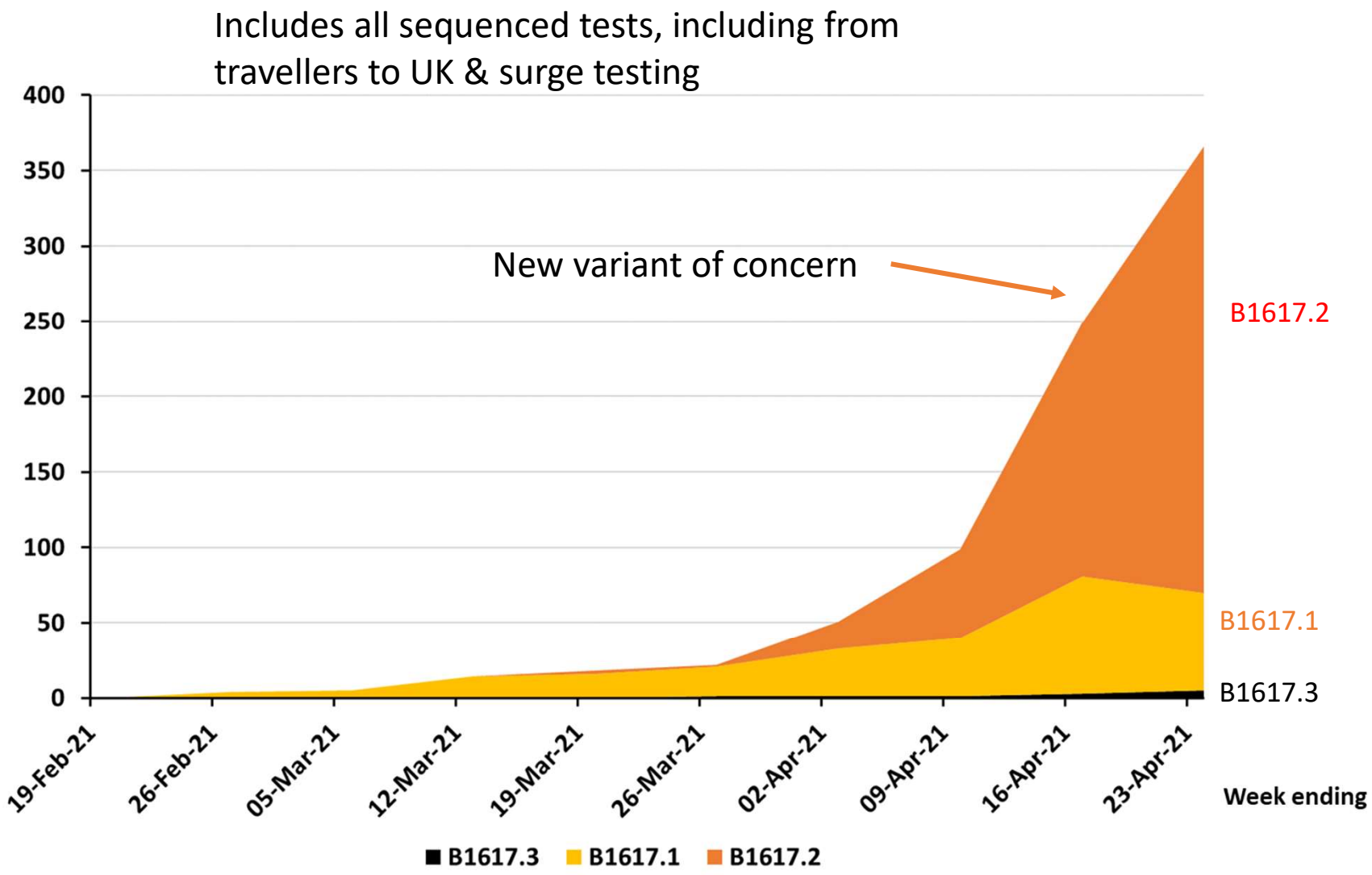
# Number of sequenced cases each week in UK by B1617 ("India") subtype




Data from http://sars2.cvr.gla.ac.uk/cog-uk/.

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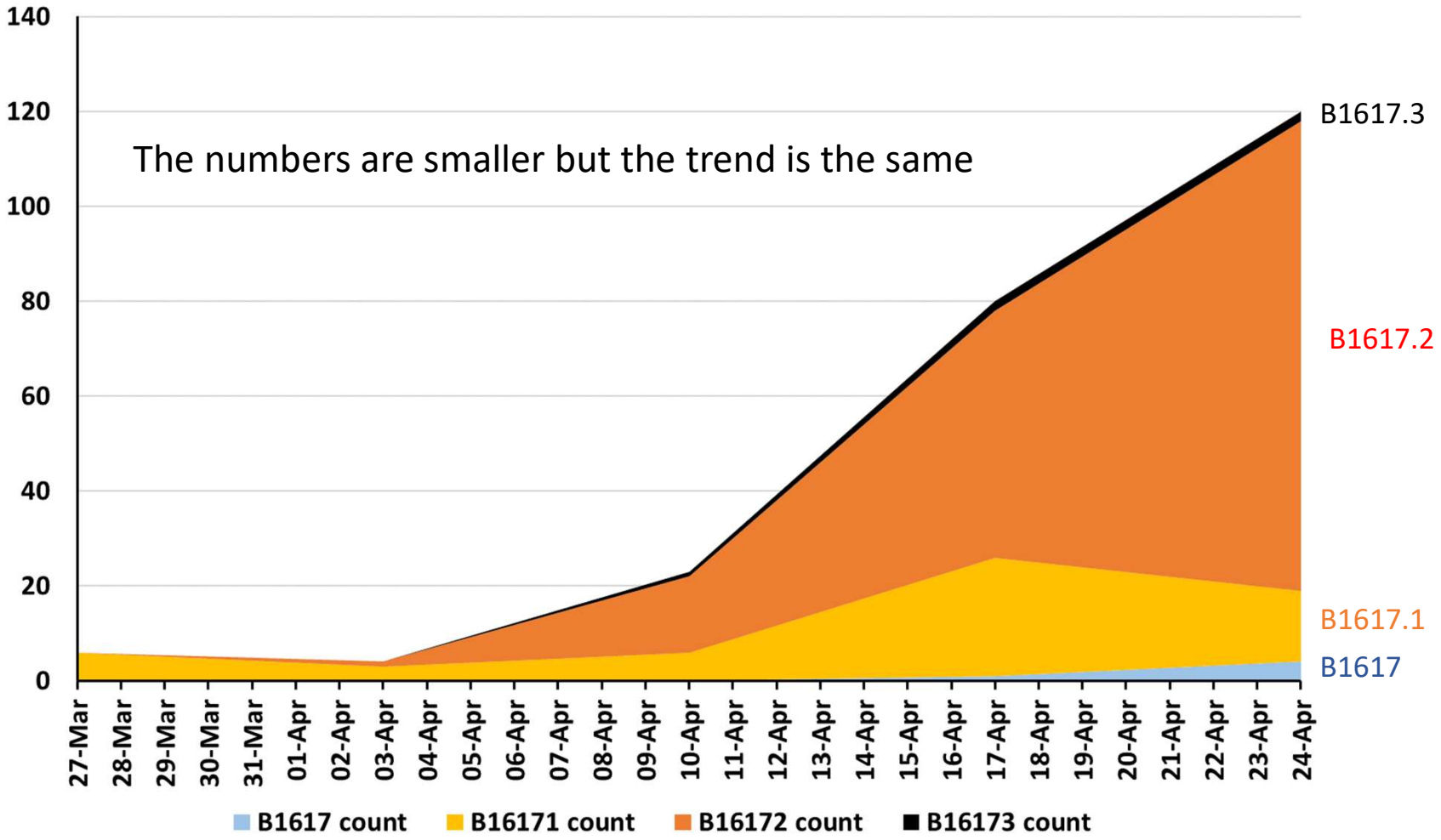
# Number of sequenced cases each week in UK by B1617 ("India") subtype. This time from the Sanger Institute which *excludes* travel related cases and surge testing cases

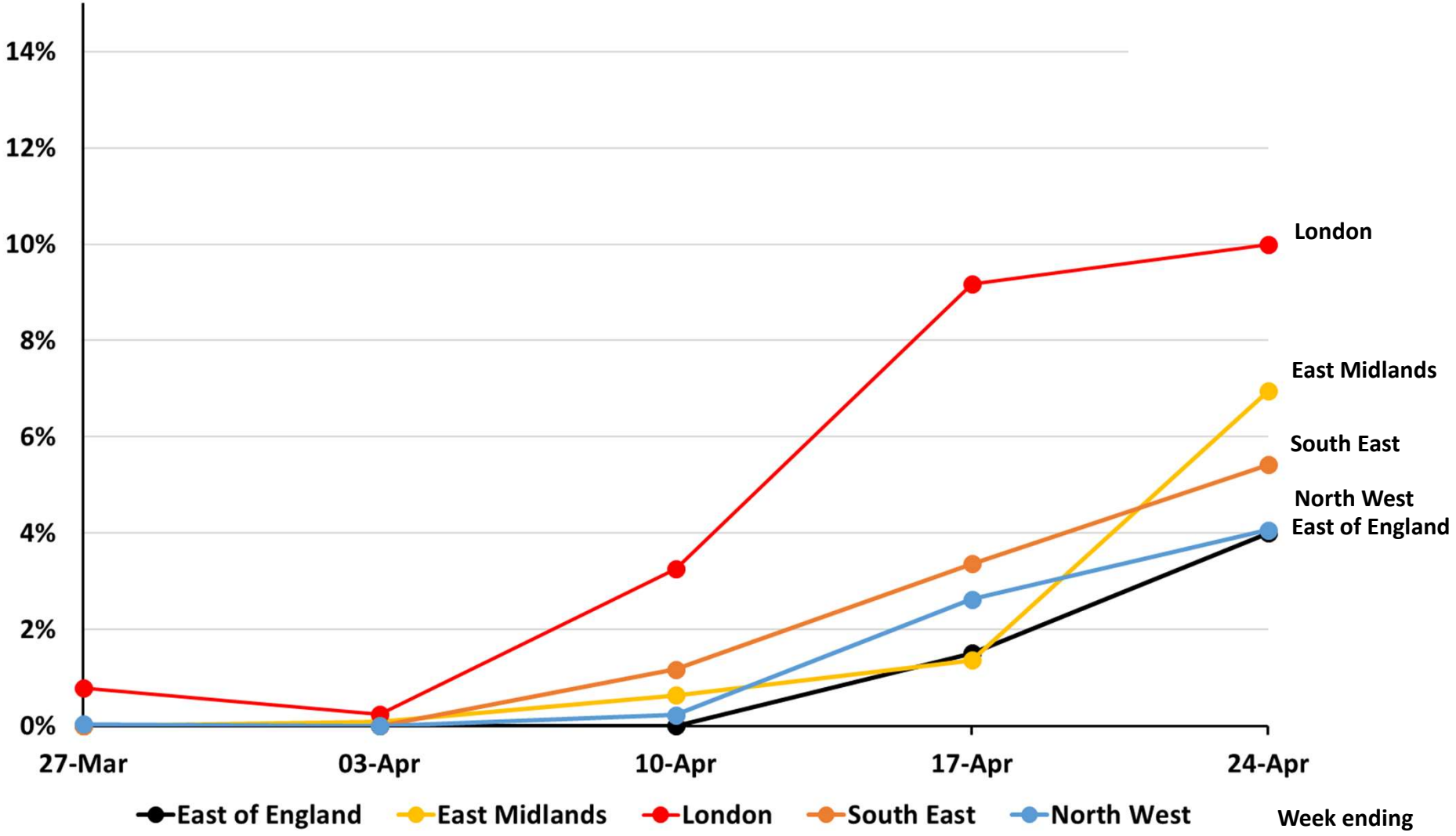



Data from https://covid19.sanger.ac.uk/downloads

**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 2%




Data from https://covid19.sanger.ac.uk/downloads.

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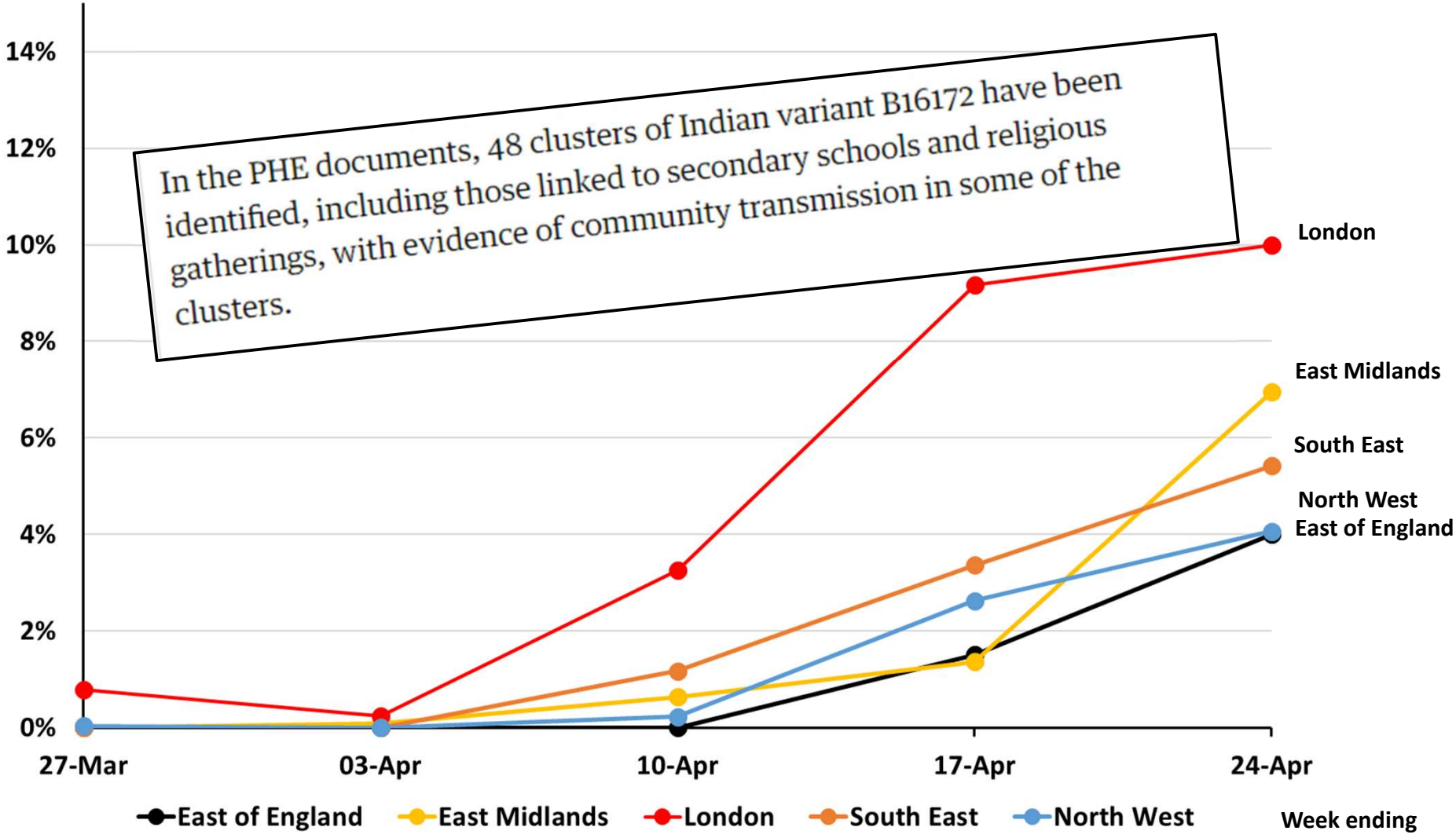
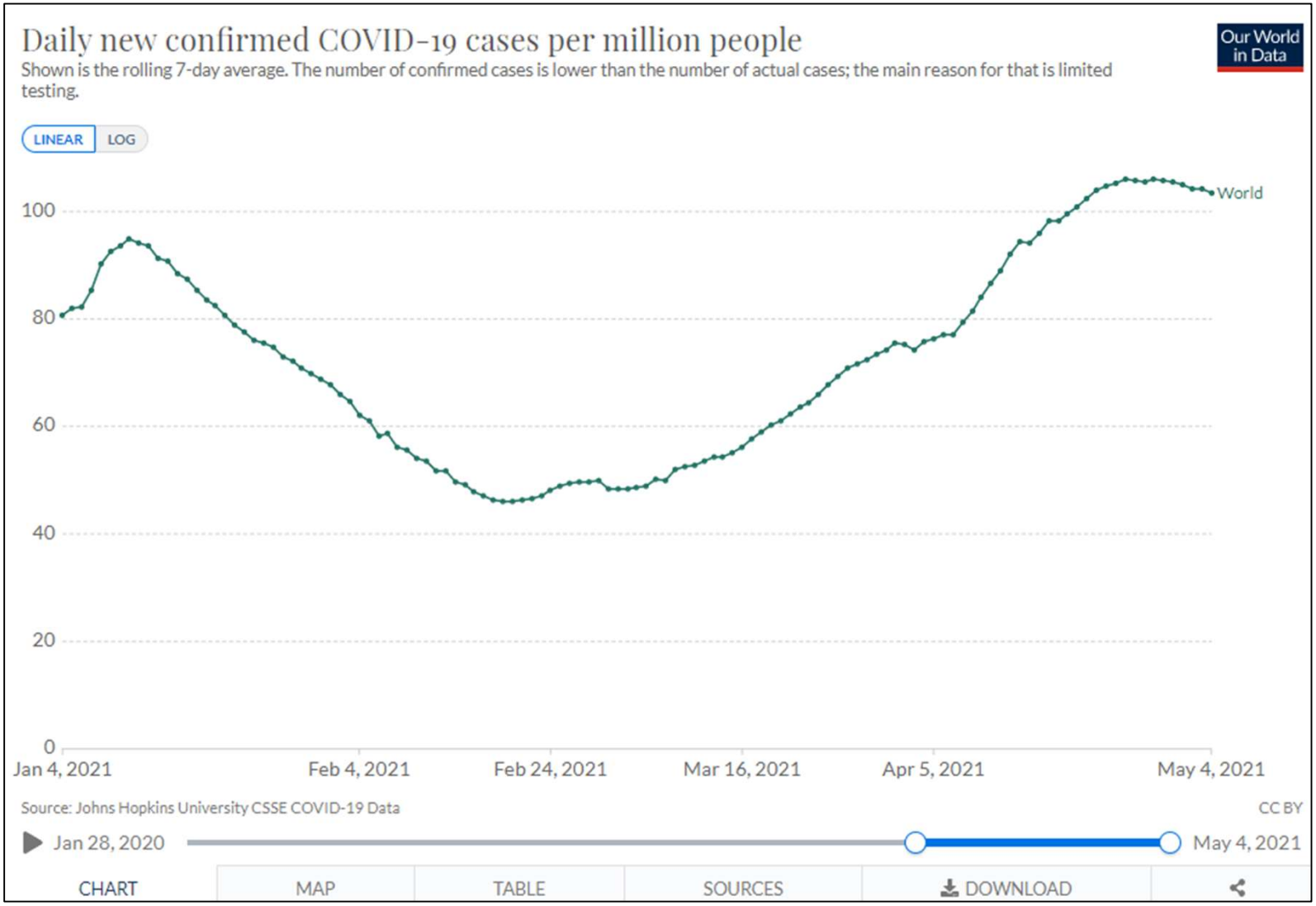



Data from https://covid19.sanger.ac.uk/downloads.

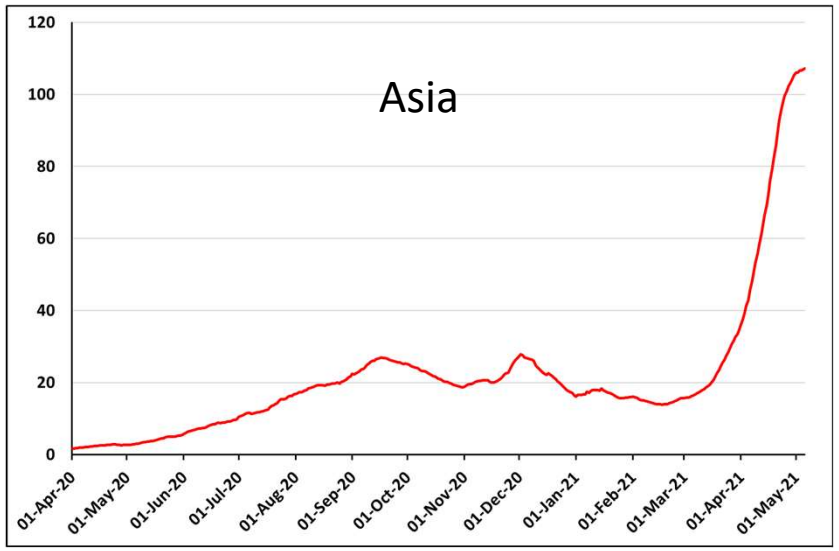
# International context

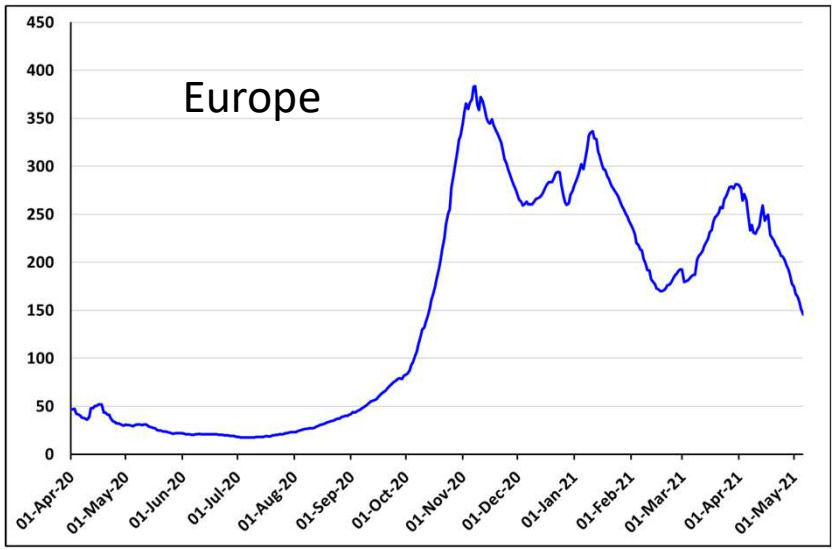
# World cases of Covid October 2020 – May 2021



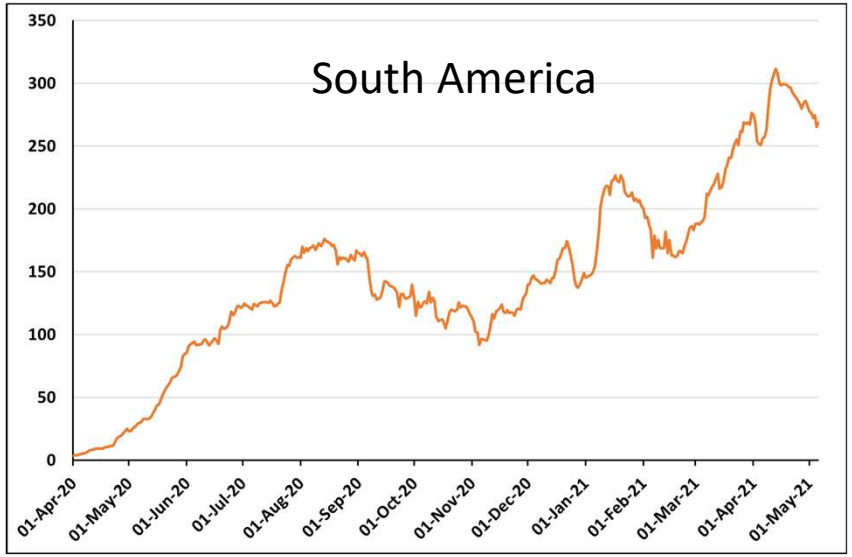

Graphs from https://ourworldindata.org/ .

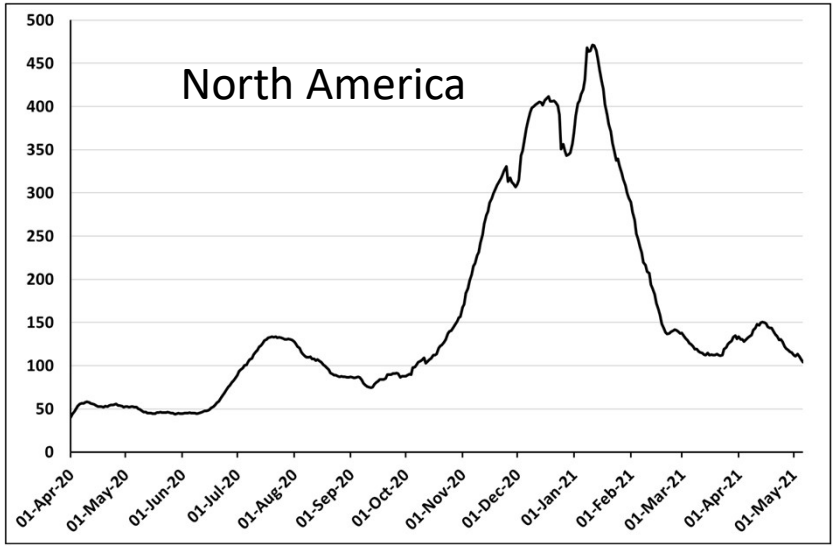
# World cases of Covid October 2020 – May 2021




Vaccines are needed!!




Data from https://ourworldindata.org/ .

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# Summary

Cases, hospitalisations and deaths are flat or falling in all nations. LFDs hard to interpret.

Vaccination going very well – mostly second doses until end of May. Disparities by deprivation and ethnicity persist.

The rise in school age children that we saw in March is not seen this term (yet). This is good and likely an indication of how much community prevalence matters.

That said, case rates still highest in school age children.

South America and Asia (mainly India and its neighbours) have very high levels of Covid. Europe is high but going down.

The rapid increase of B.1.617.2 in UK shows the problems with both the “red list” system and with allowing Covid to run amok internationally (and summer travel?).

The rapid increase of the B.1.617.2 variant is concerning – indications are that is it **at least as** transmissible as B117 (“Kent”) but no evidence yet that vaccines don’t work against it. BUT could still mean a nasty “exit wave” if not contained.