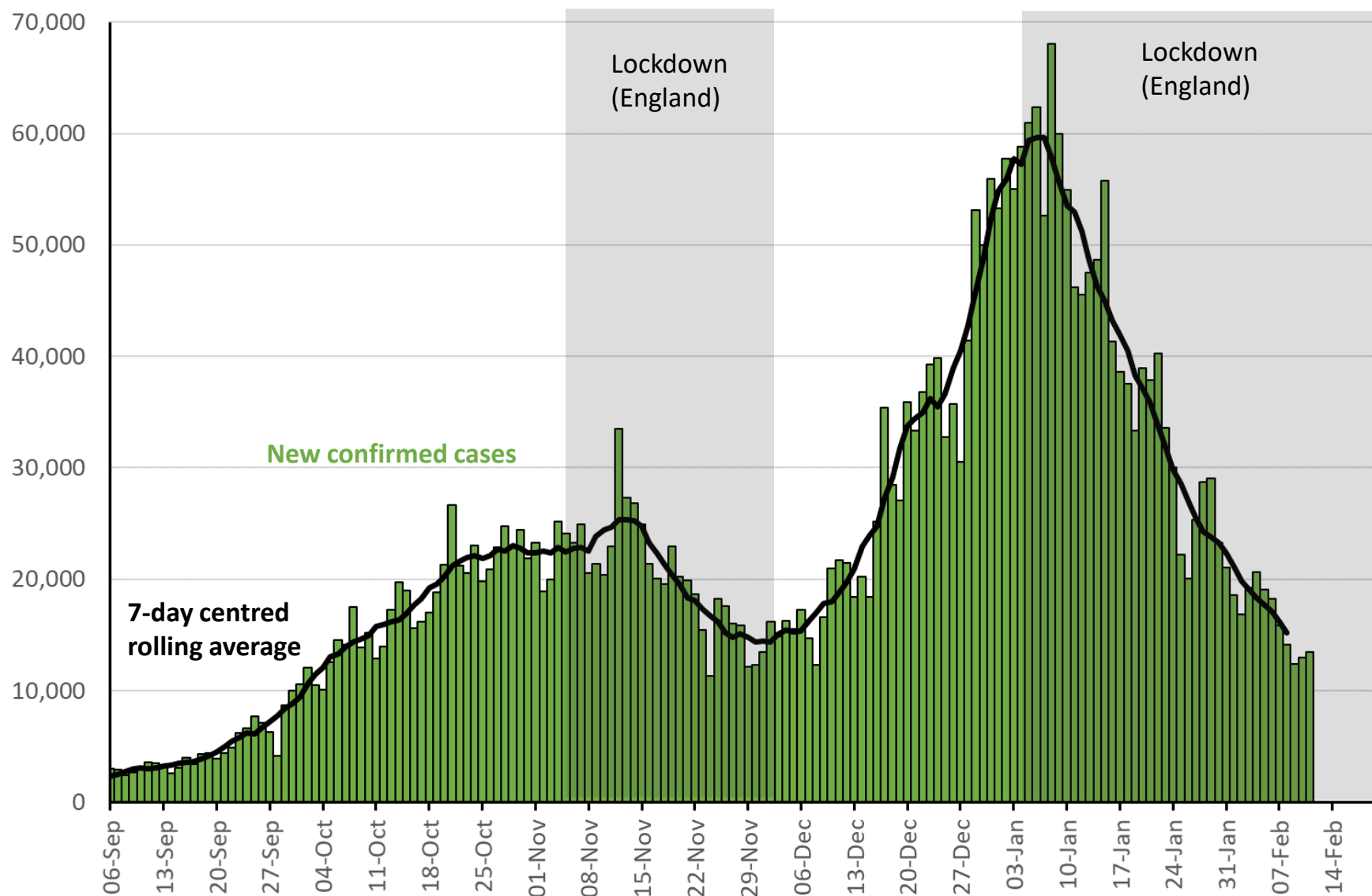# Latest numbers on COVID-19 in the UK – 12th February 2021

1. Cases
2. Hospitalisations
3. Deaths
4. Vaccinations
5. Things to think about coming out of lockdown
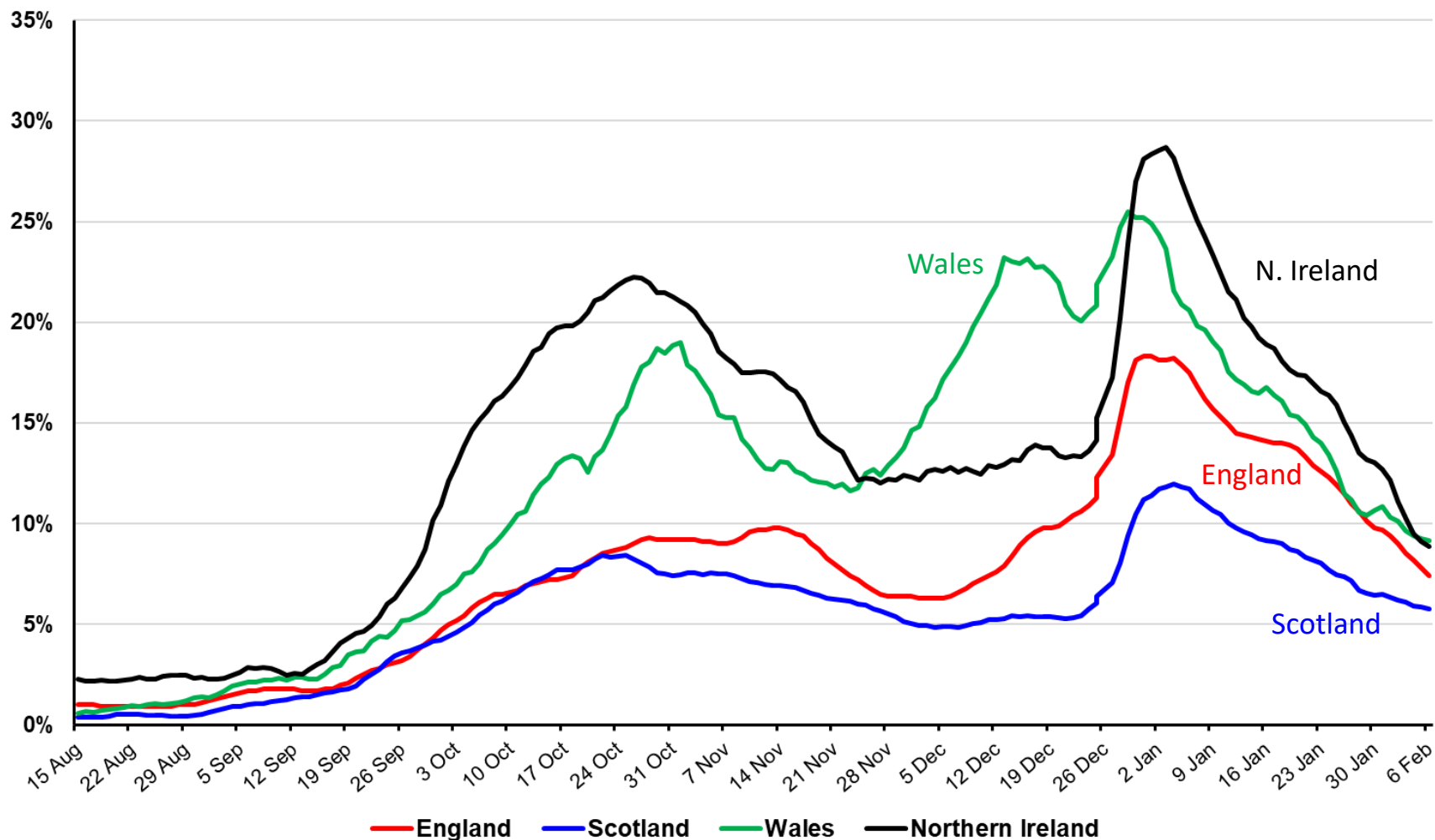
Cases

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

Positivity rates – UK nations – by date of test to 6th February
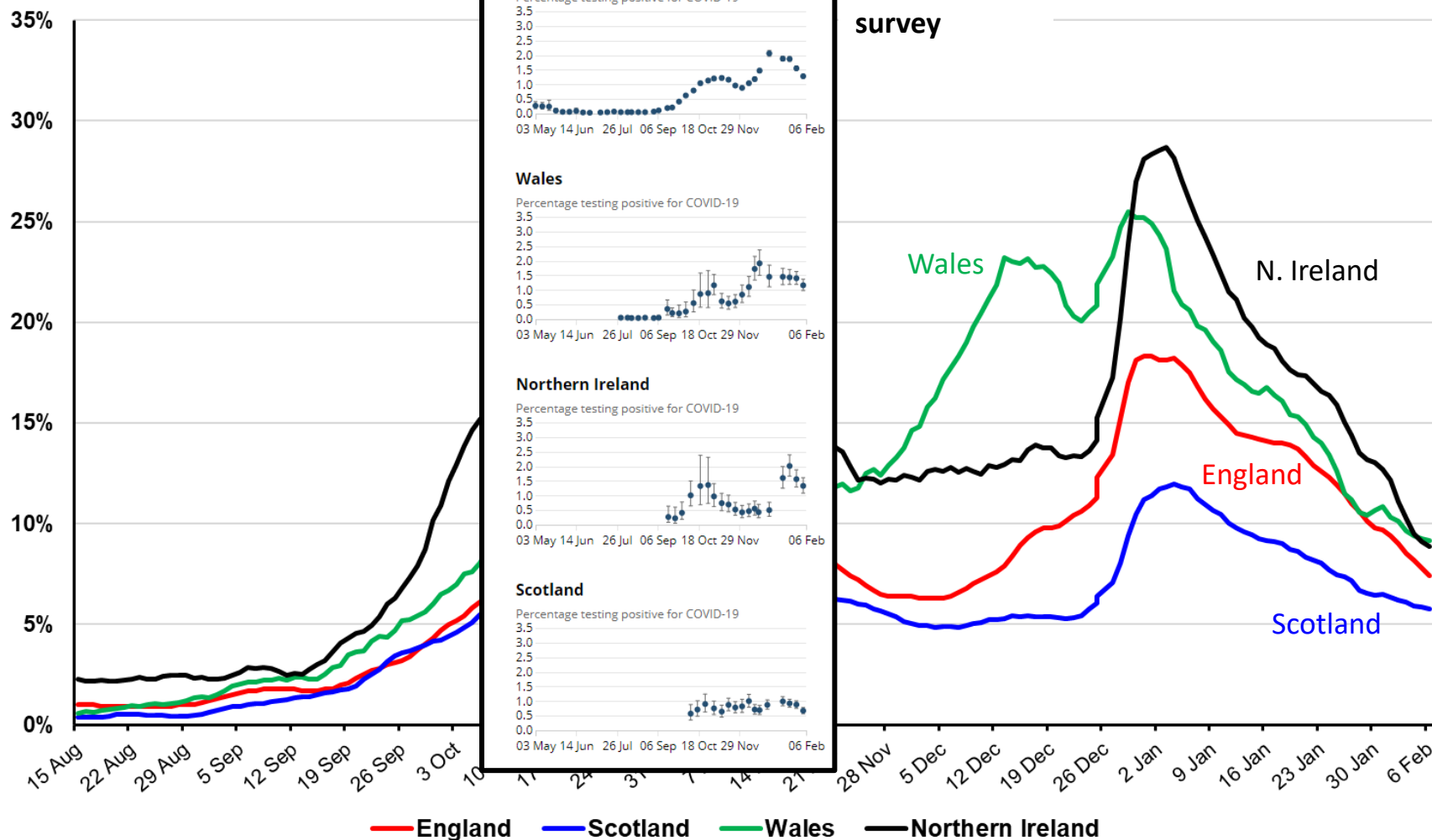
% of people tested who are positive

Positivity rates – UK nations – by date of test to 6th February

% of people tested who are positive

ONS Infection survey

35%
30%
25%
20%
15%
10%
5%
0%

England
Percentage testing positive for COVID-19
3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
03 May 14 Jun 26 Jul 06 Sep 18 Oct 29 Nov 06 Feb

Wales
Percentage testing positive for COVID-19
3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
03 May 14 Jun 26 Jul 06 Sep 18 Oct 29 Nov 06 Feb

Northern Ireland
Percentage testing positive for COVID-19
3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
03 May 14 Jun 26 Jul 06 Sep 18 Oct 29 Nov 06 Feb

Scotland
Percentage testing positive for COVID-19
3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
03 May 14 Jun 26 Jul 06 Sep 18 Oct 29 Nov 06 Feb

Wales
N. Ireland
England
Scotland

15 Aug 22 Aug 29 Aug 5 Sep 12 Sep 19 Sep 26 Sep 3 Oct 10 ... 28 Nov 5 Dec 12 Dec 19 Dec 26 Dec 2 Jan 9 Jan 16 Jan 23 Jan 30 Jan 6 Feb

—England —Scotland —Wales —Northern Ireland

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
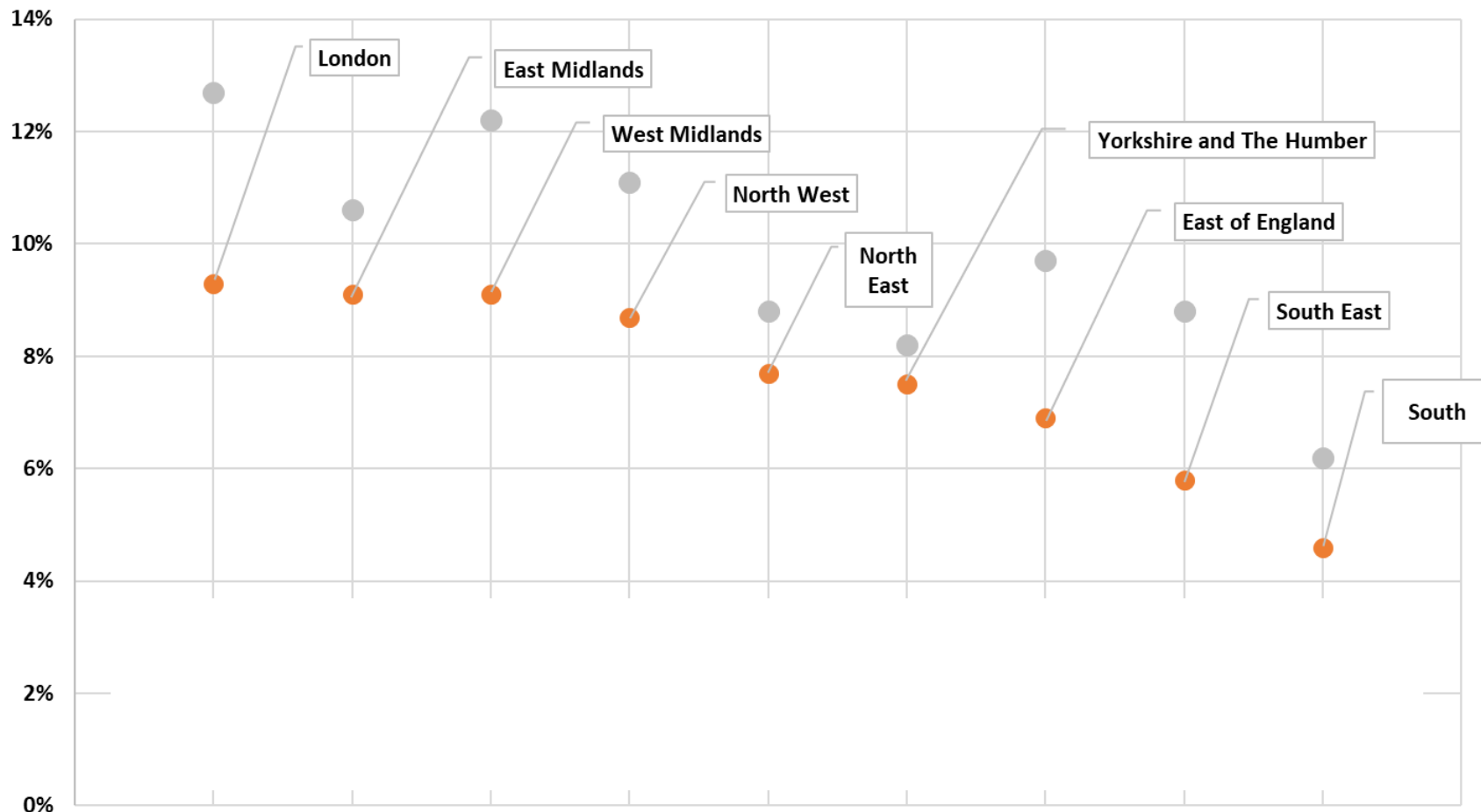**Visualisation courtesy of Bob Hawkins**

Positivity rate by region to 6th February

% of people tested who are positive
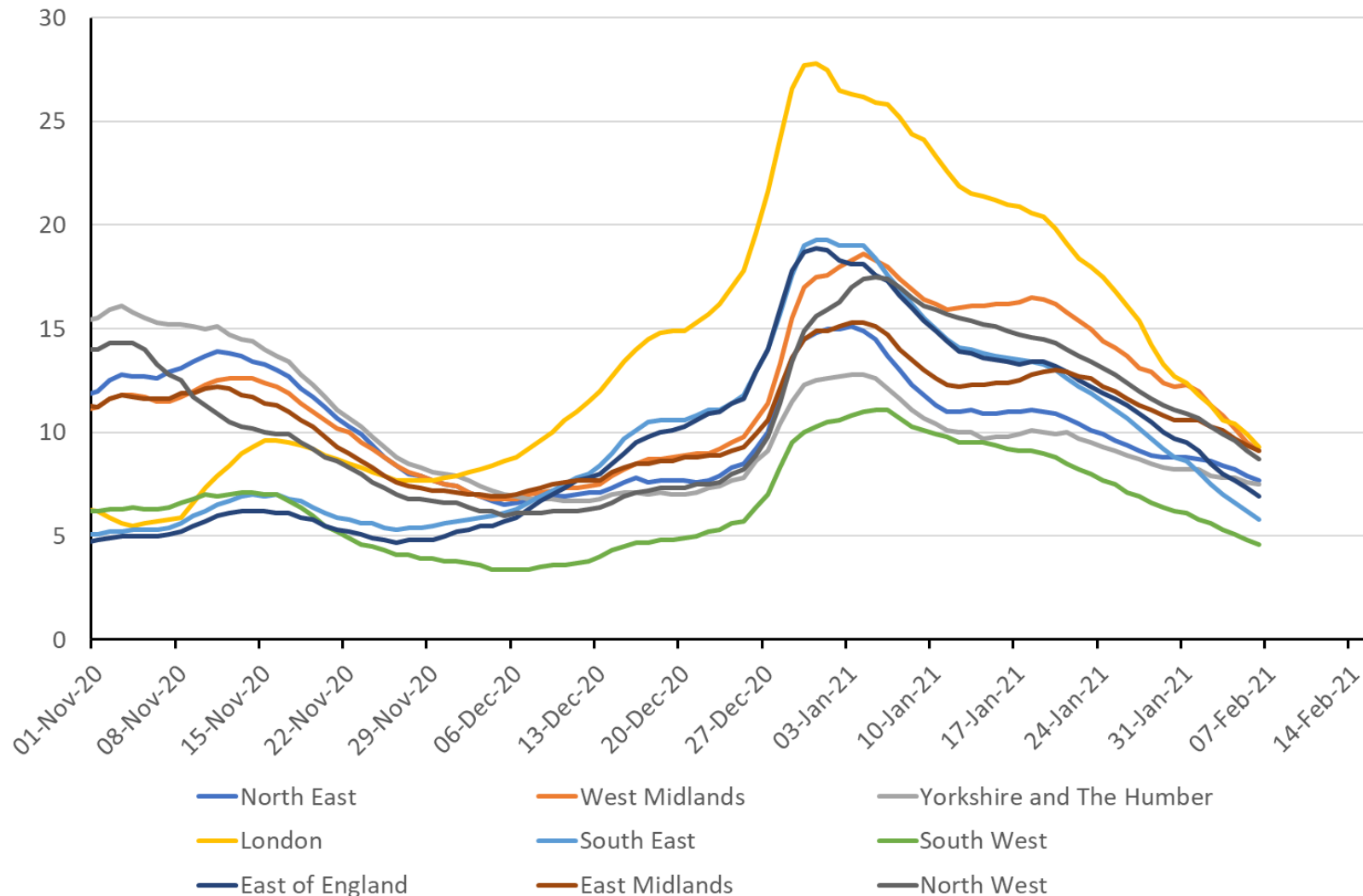
Positivity Rate for English Regions
Comparison of week ending Feb 6 ⬤ to prior week ⬤
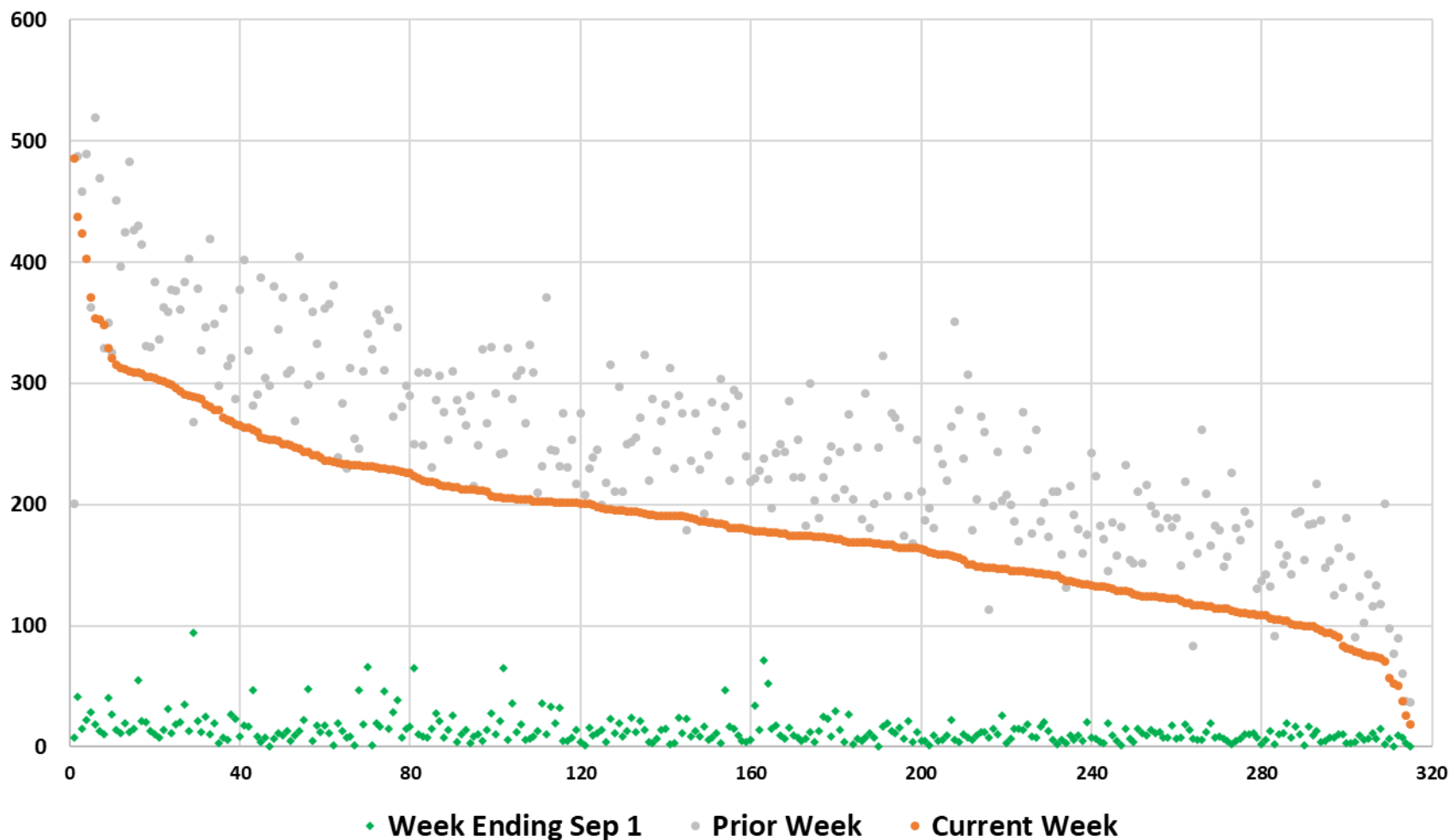## to week ending Sep 1 ◆

% of people tested who are positive

Cases per 100,000 people per week at local authority level in England
Comparison of week ending Feb 6 🟠 to prior week ⚪
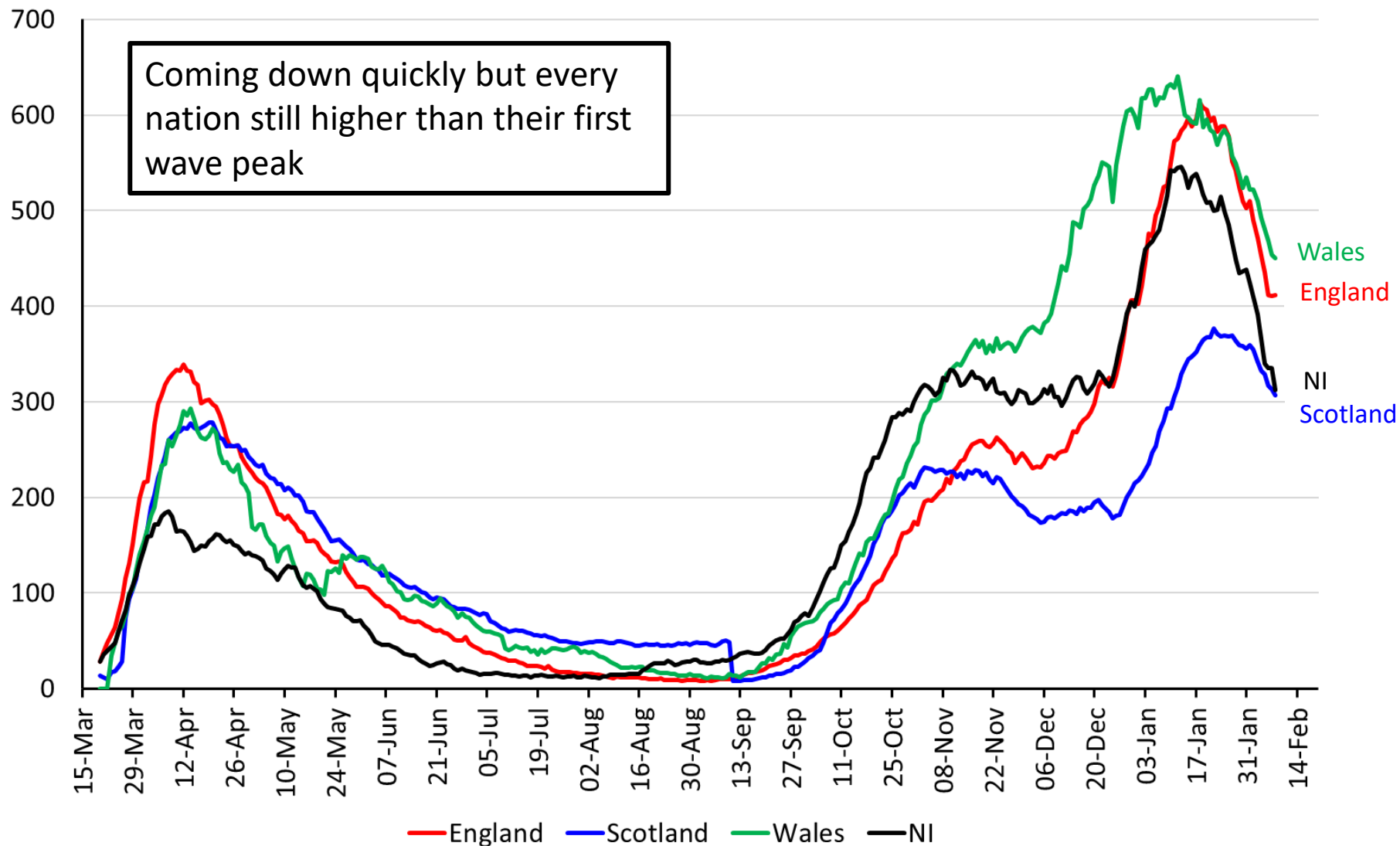**to week ending Sep 1 🟢**

Weekly cases per 100,000 people

Hospitalisations

Number of people in hospital per million people – UK nations

Coming down quickly but every nation still higher than their first wave peak

Number of new hospital admissions with COVID-19 per day in England to 26th Jan
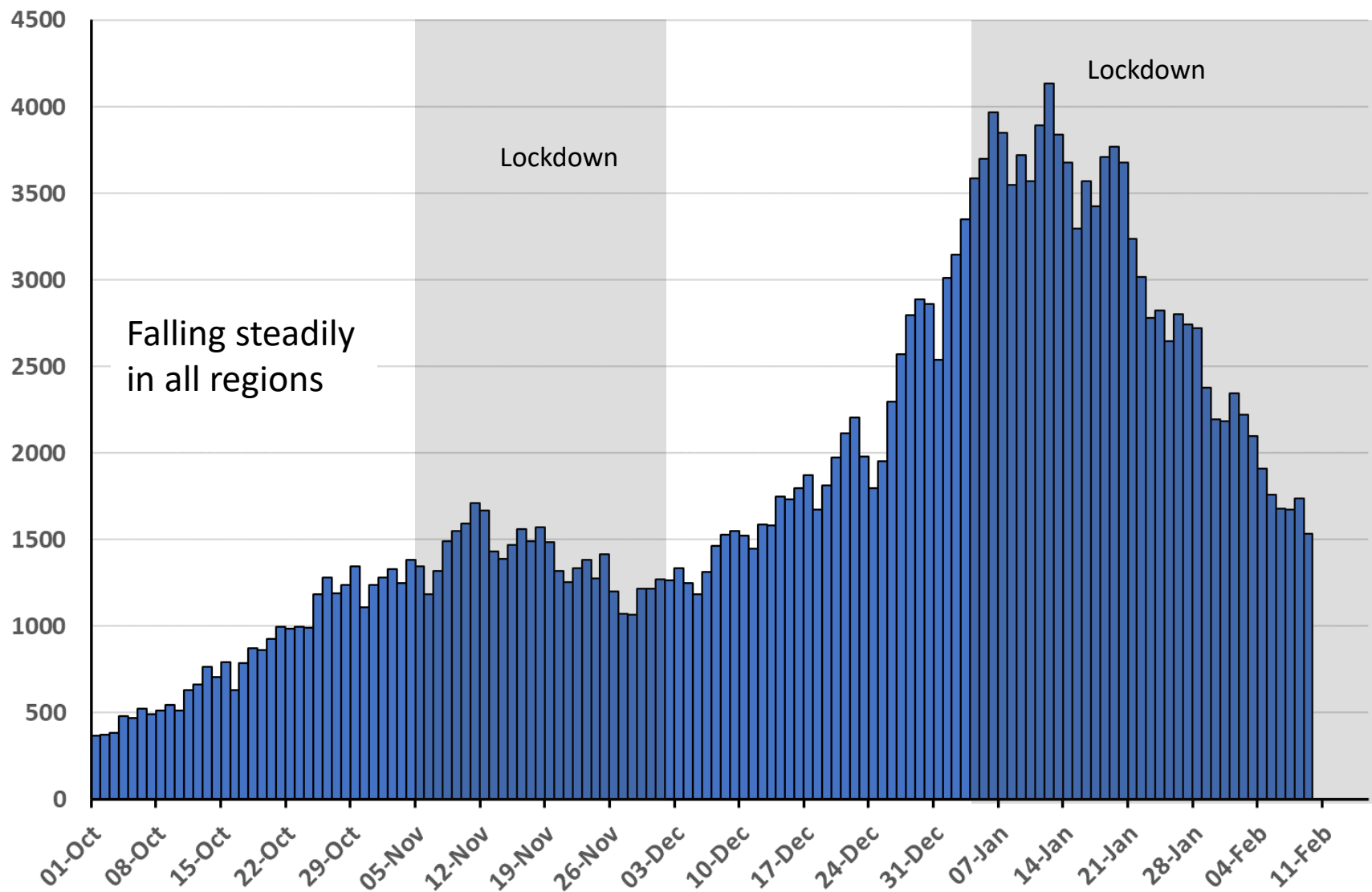
Number of Adult Critical Care Bed Occupied Week on Week Comparison: England Regions

indie_SAGE
The Independent SAGE • Following the science

London
Midlands
South East
North East and Yorkshire
North West
East of England
South West

◆ Prior Year   ● Prior Week   ● Week Ending 7 Feb 2021

Data from https://www.england.nhs.uk/statistics/statistical-work-areas/uec-sitrep/
Thank you to Bob Hawkins for preparing the chart

Deaths

Number of new UK deaths from COVID-19 registered per week, to 15th January

Number of deaths within 28 days of +ve COVID test reported per day across the UK to 11th Feb

Vaccinations and better treatments **should** mean we never have to experience such high numbers of deaths again.

Number of Deaths

7-day centred rolling average
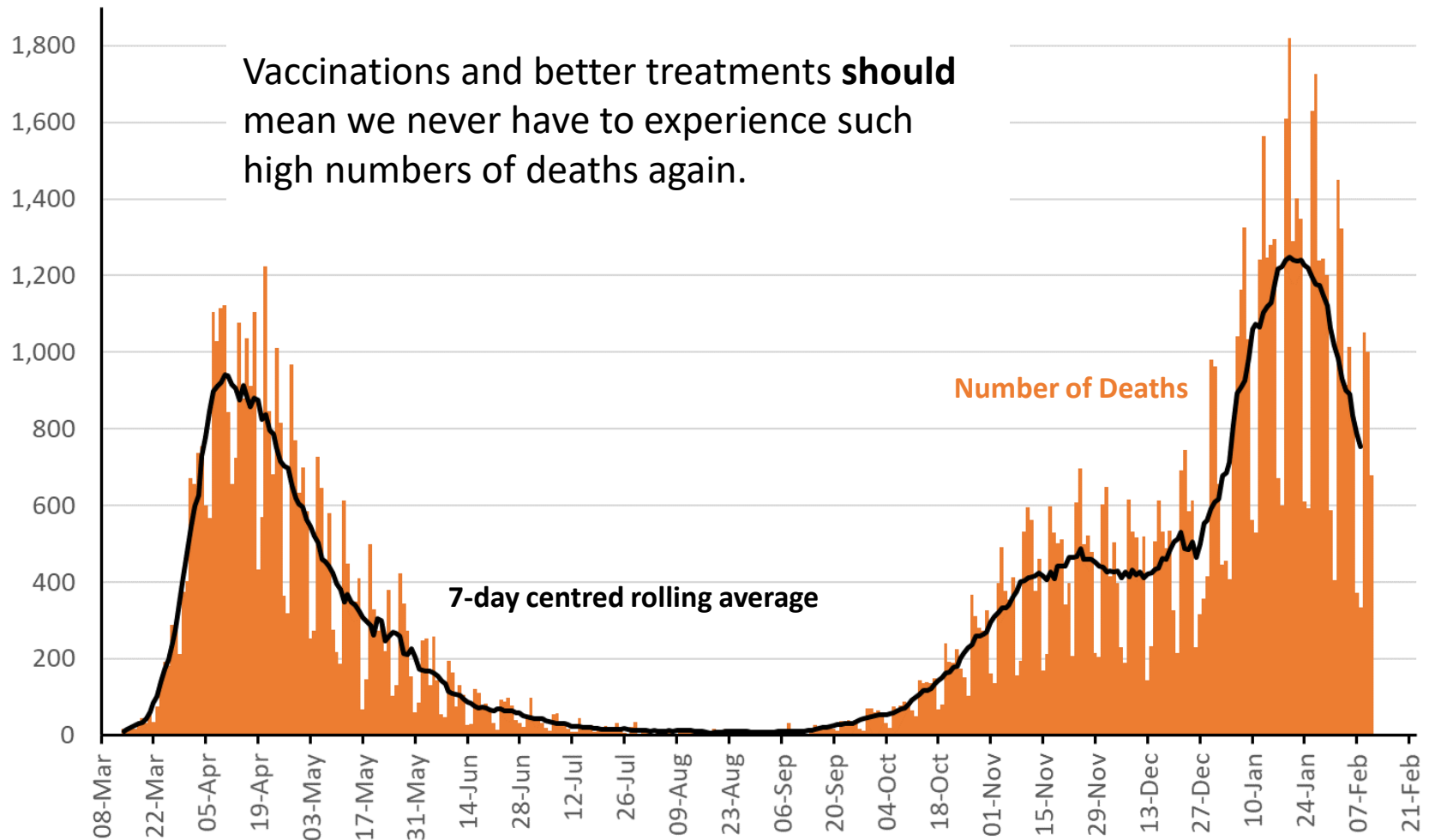
Vaccination data

Proportion of people vaccinated over time for each nation to 10th February

Just over 3 million people received their first dose in the week to 10th Feb

21.7%
20.3%
19.2%
18.7%

England   Northern Ireland   Scotland   Wales
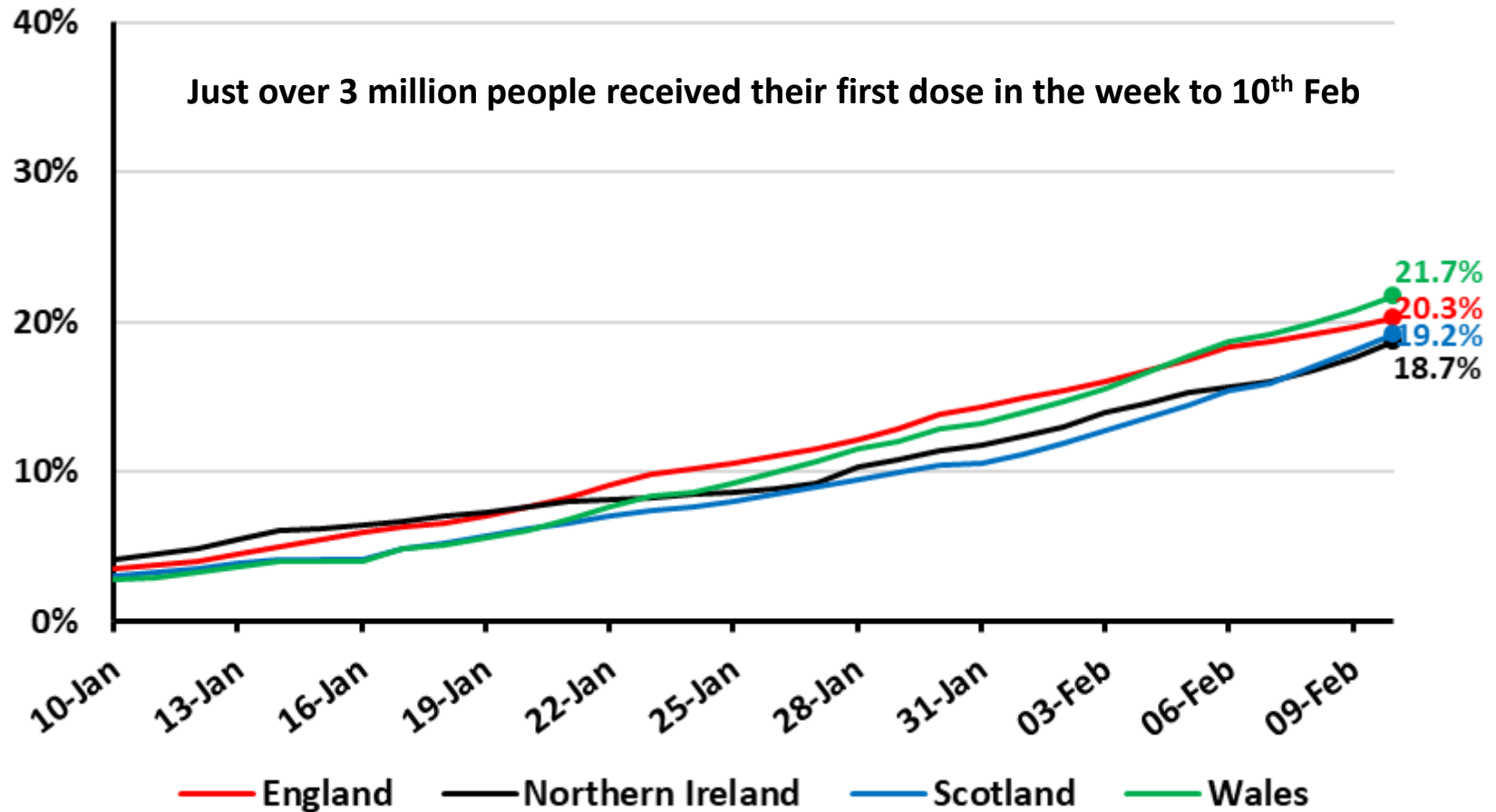
Data from https://coronavirus.data.gov.uk/
Thanks to Bob Hawkins for the chart

Population coverage by age to 10th February

Vaccine impact

Impact from vaccination takes time to filter through…

Two weeks for protection after first dose to kick in.

Then two weeks before you that might results in reductions in hospital admissions.

Three weeks before you might see fewer deaths.

In England, we'd vaccinated about a quarter of over 80s by 3rd Jan 2021.

Weekly hospitalisations for Covid-19 by age group to 7th Feb (Public Health England)
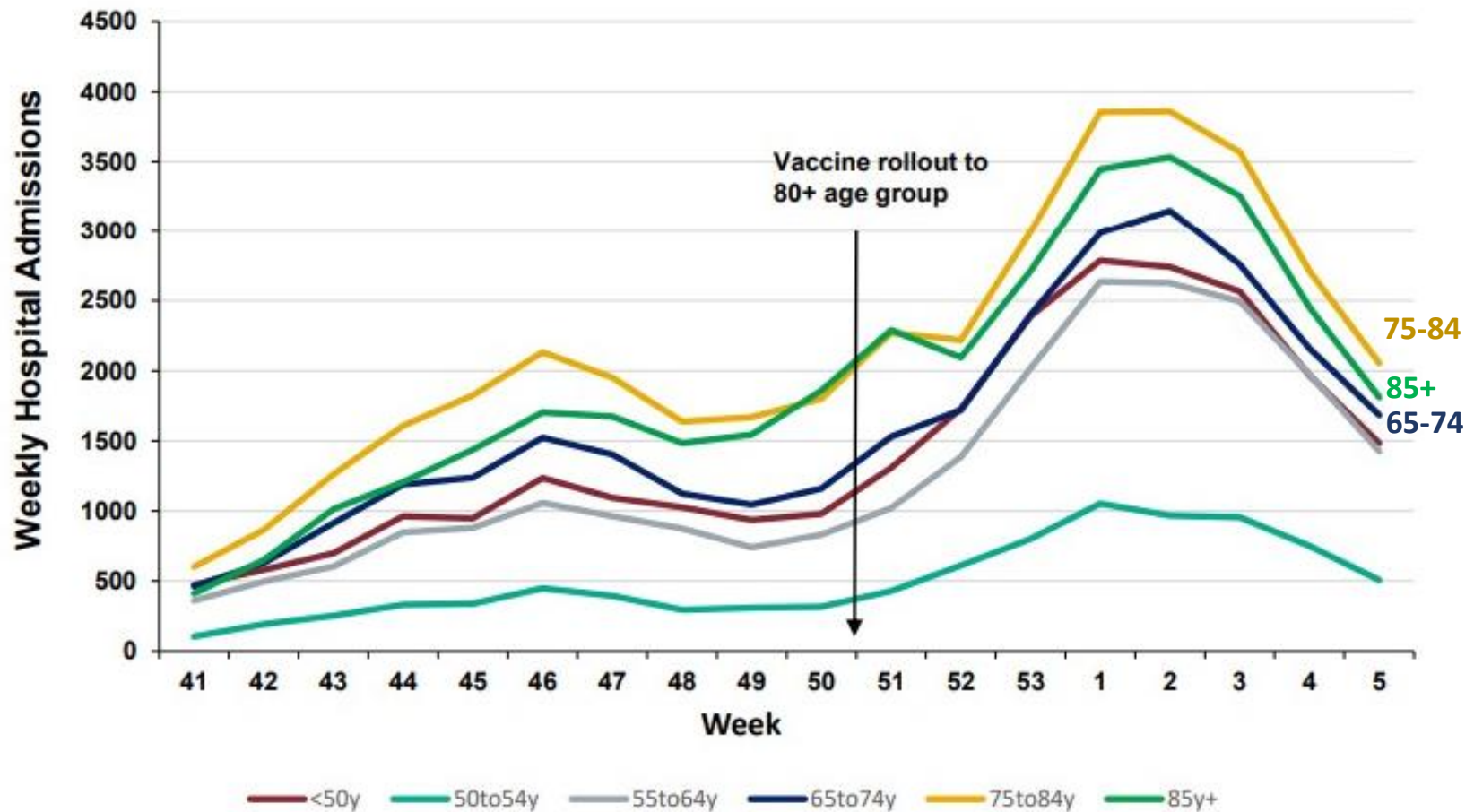
Graph from https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/960373/Weekly_COVID-19_and_Influenza_Surveillance_Graphs_W6.pdf
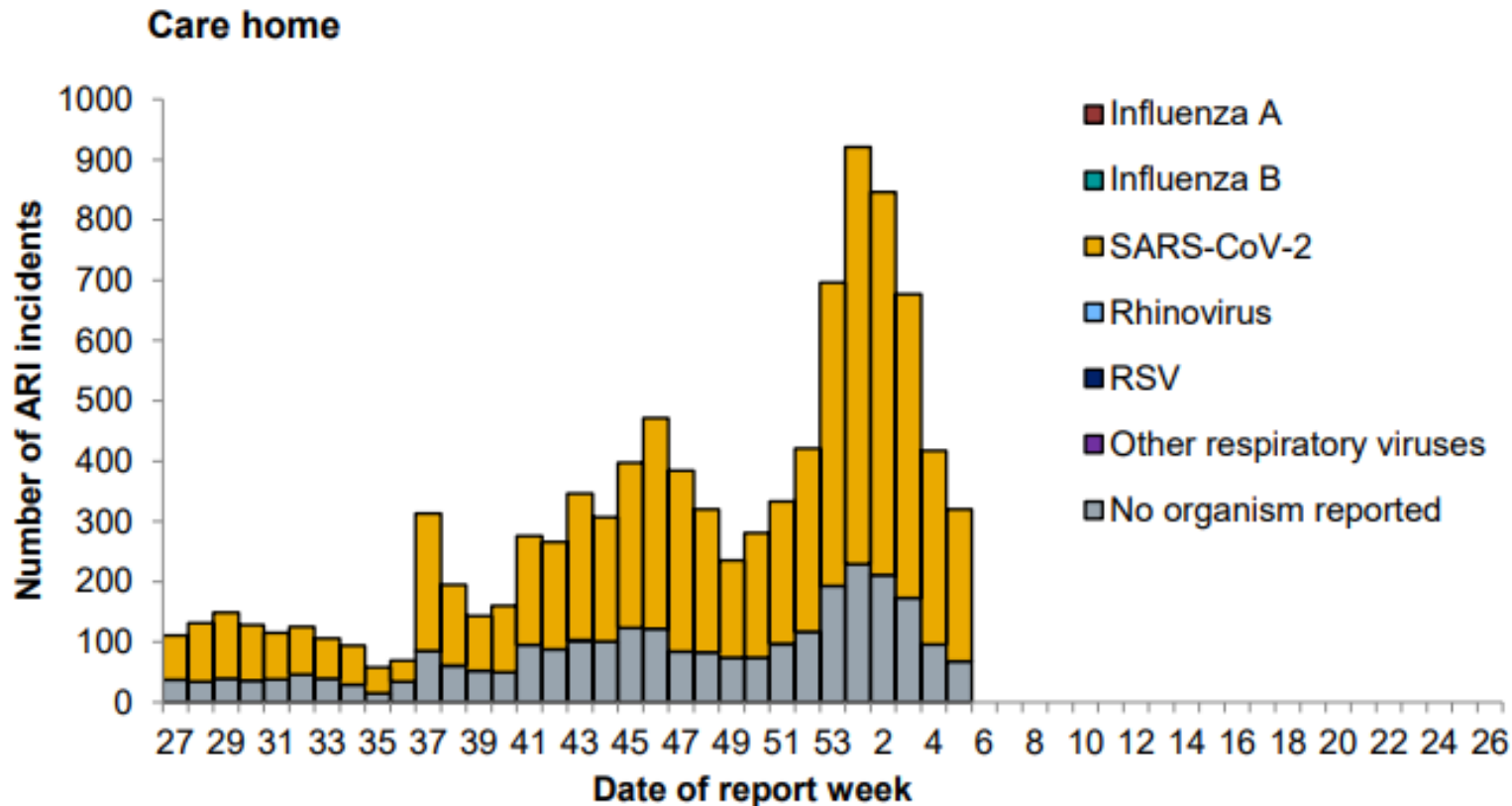
Death within 28 days of a positive test by age group (England)
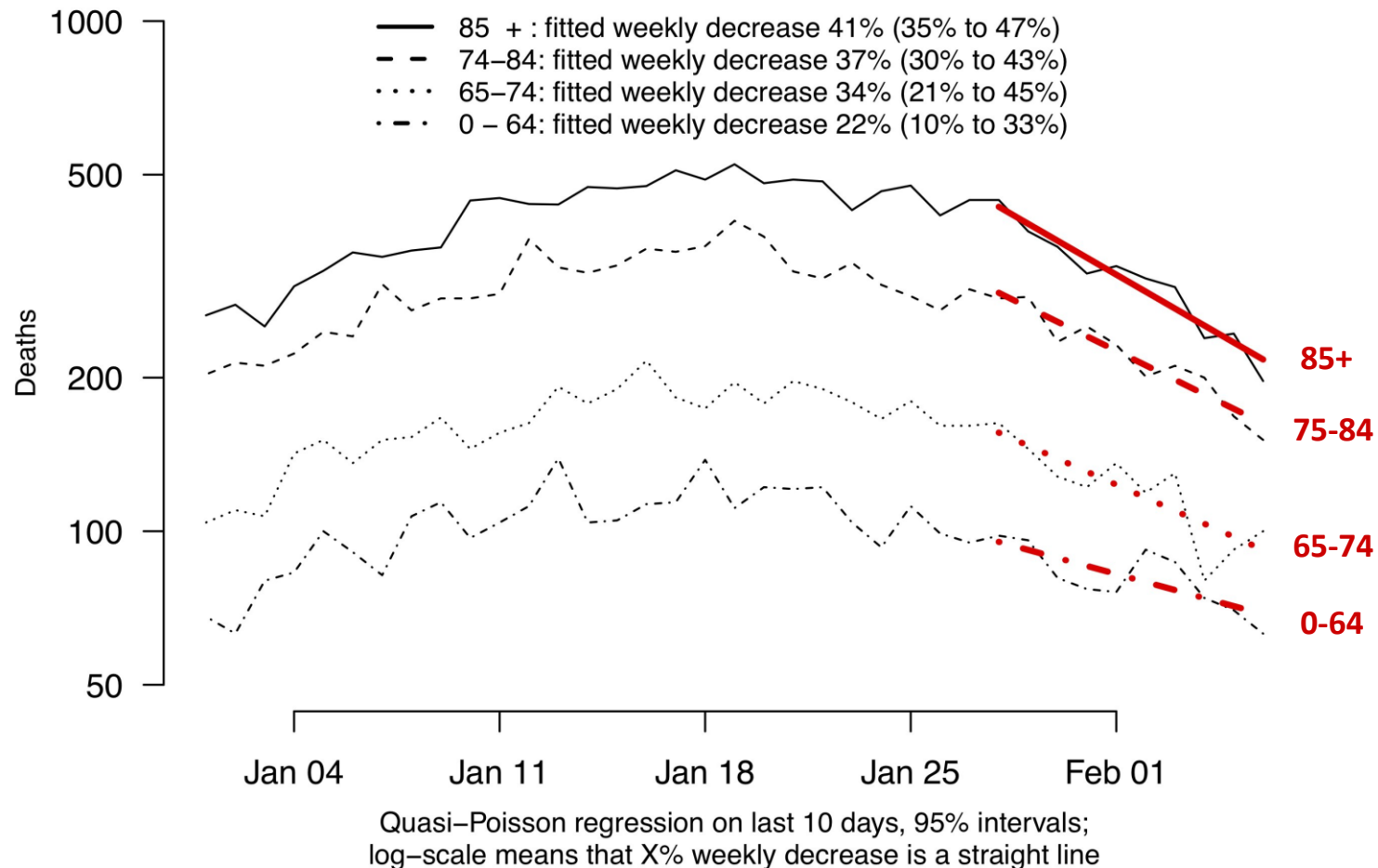
Graph from **Prof Spiegelhalter** https://twitter.com/d_spiegel/status/1359941056842891267?s=20
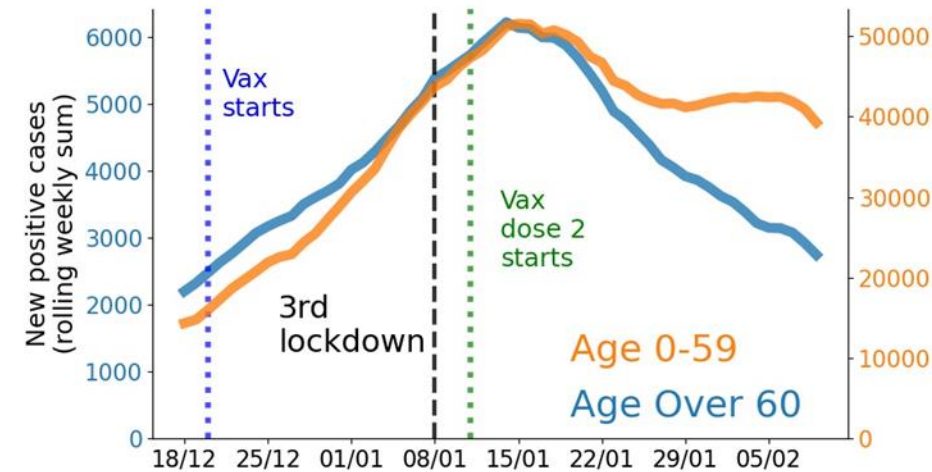Data from https://coronavirus.data.gov.uk/

# Outbreaks within care homes: England (to week ending 7th Feb)

Care home

Graph from https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/960421/Weekly_Flu_and_COVID-19_report_w6.pdf

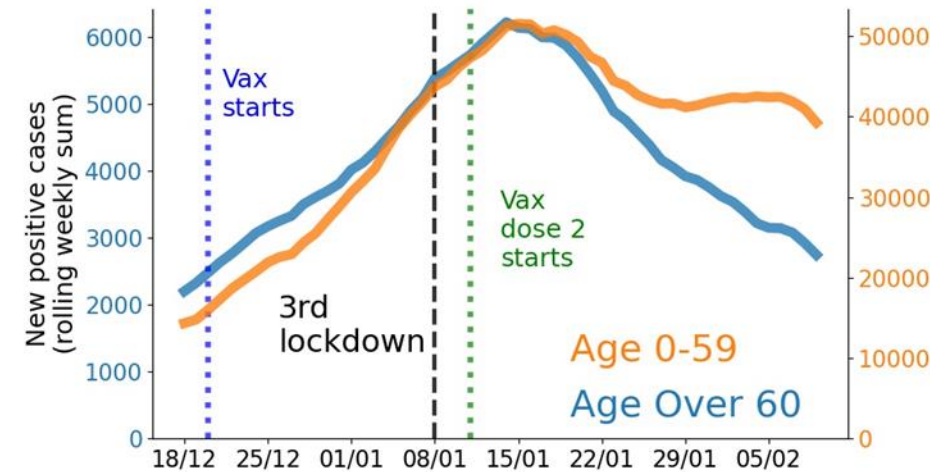**Experience in Israel. Over 90% of over 60's now vaccinated.**

80% of over 60s received first dose within 3 weeks of programme start.

Israel vaccinated to a 3-week dose schedule.

Graph from Rossman et al. 2021. https://www.medrxiv.org/content/10.1101/2021.02.08.21251325v1
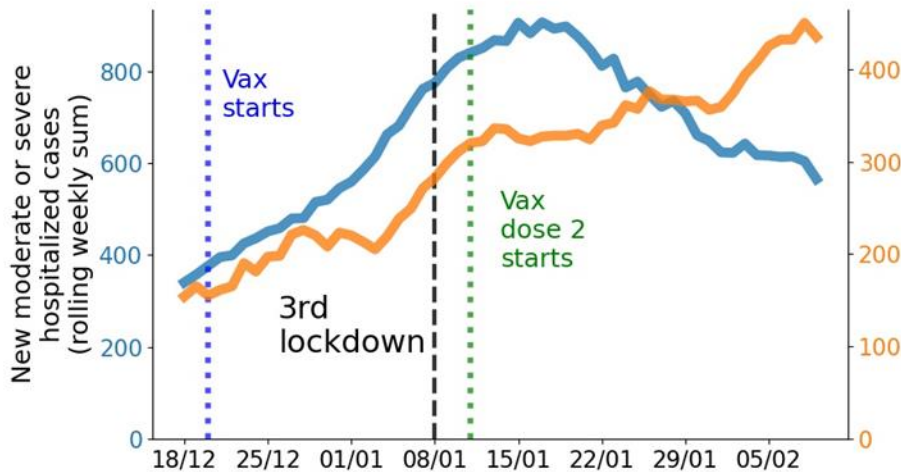
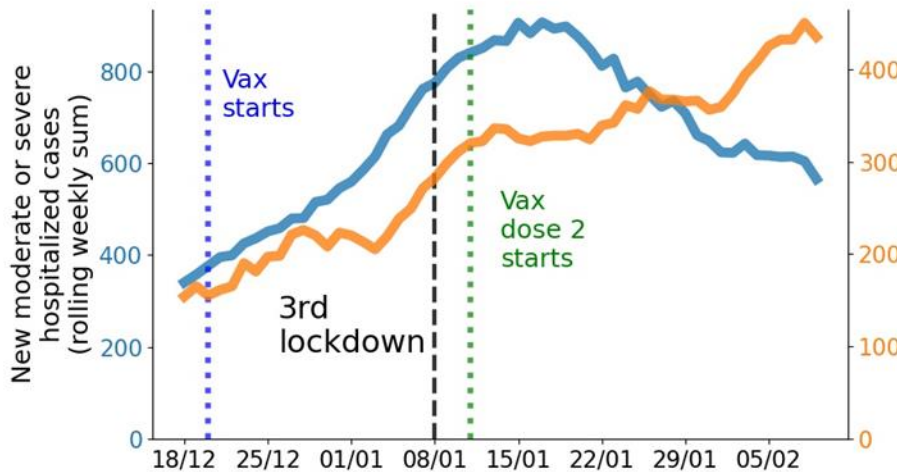# Experience in Israel. Over 90% of over 60's now vaccinated.

80% of over 60s received first dose within 3 weeks of programme start.

Israel vaccinated to a 3-week dose schedule.

Hopefully we will start seeing such clear impact on deaths & hospitalisations in the UK by the end of the month.
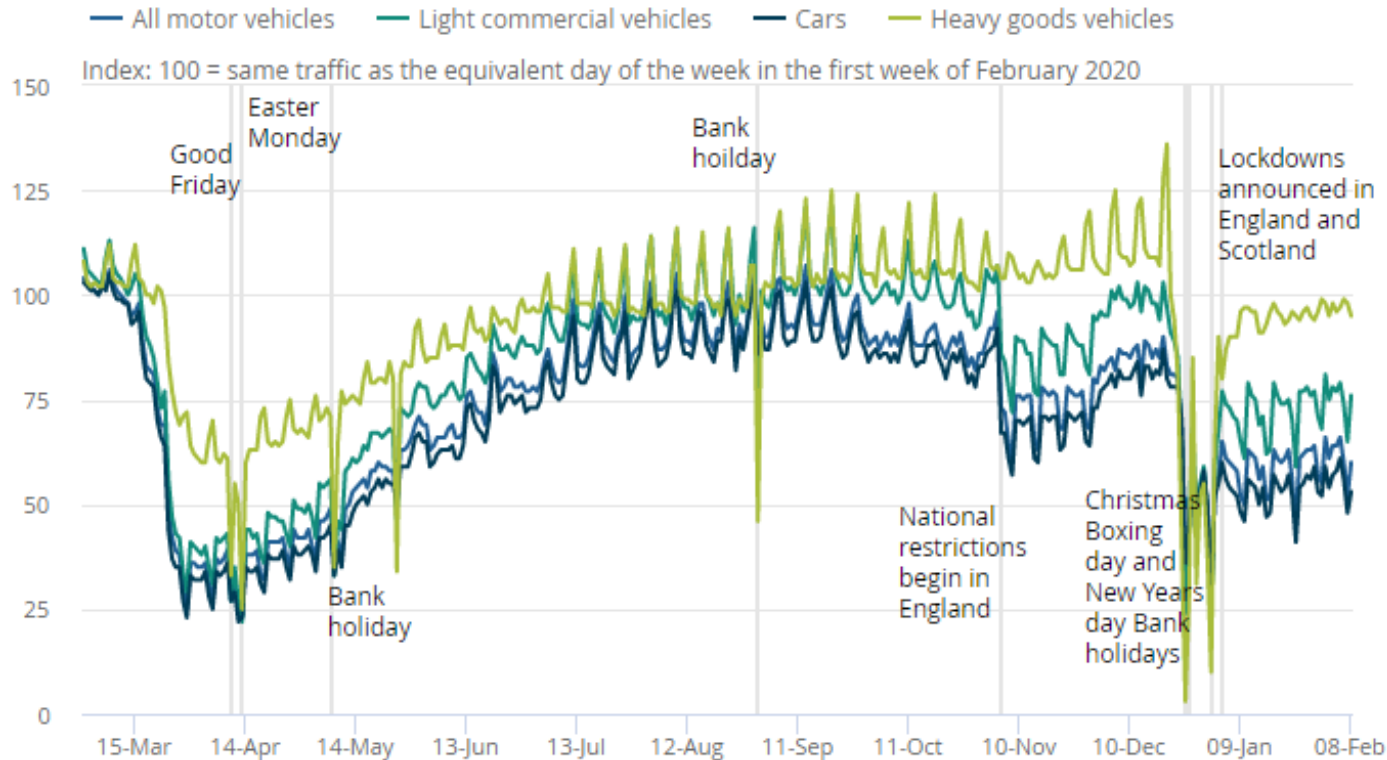
BUT remember that 90% of cases are in the under 70s.

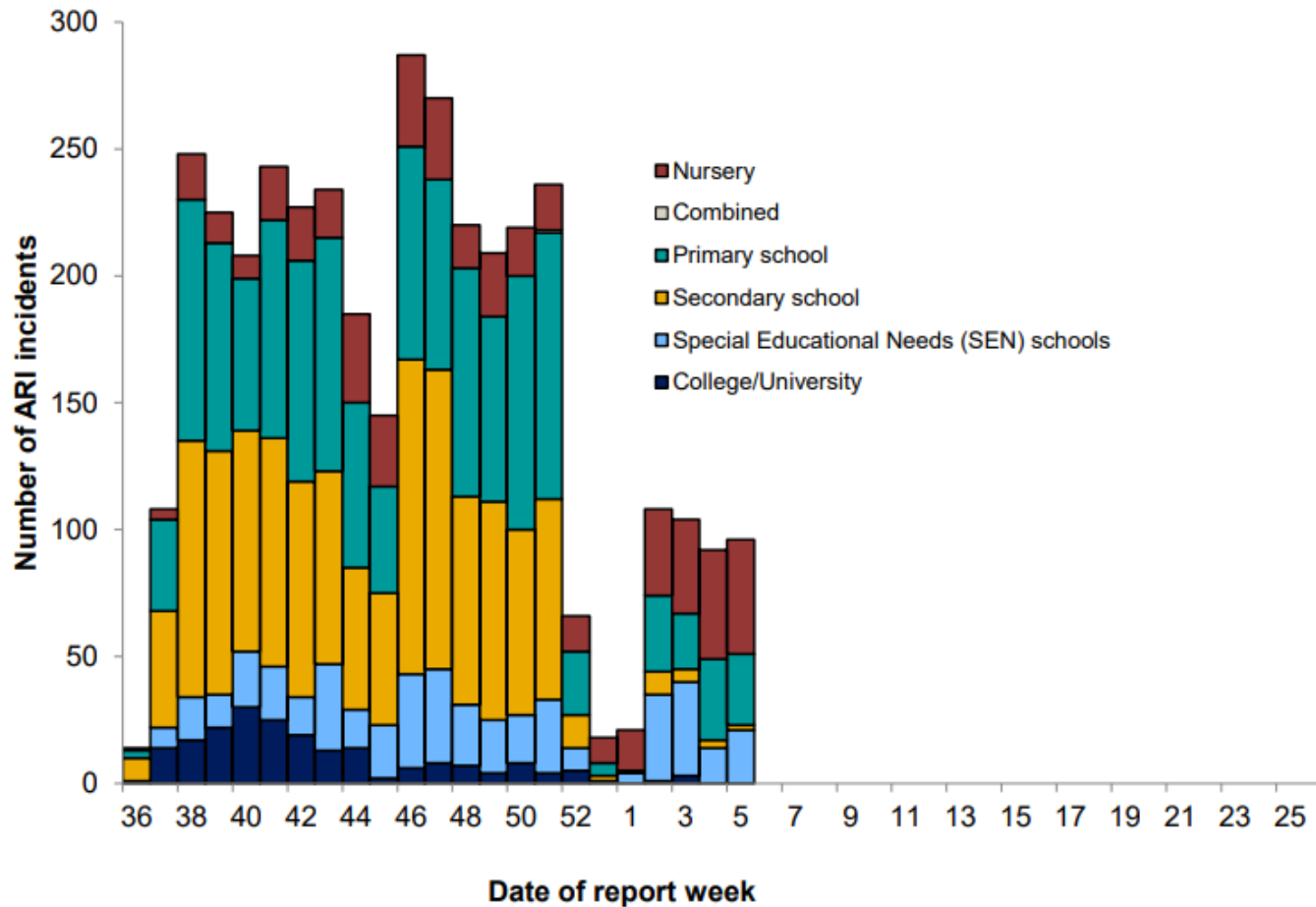# Relevant data for easing restrictions

We are out and about more than lockdown 1 but less than lockdown 3
# Much of that is going to work

There have been a steady number of outbreaks in nurseries, primary schools and special educational needs (SEN) schools.
Data to week ending 7ᵗʰ February (England)

During lockdown, more deprived communities (Q1) at higher risk of catching Covid – more exposed
Data to week ending 7th February (England)

Graph from https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/960373/Weekly_COVID-19_and_Influenza_Surveillance_Graphs_W6.pdf
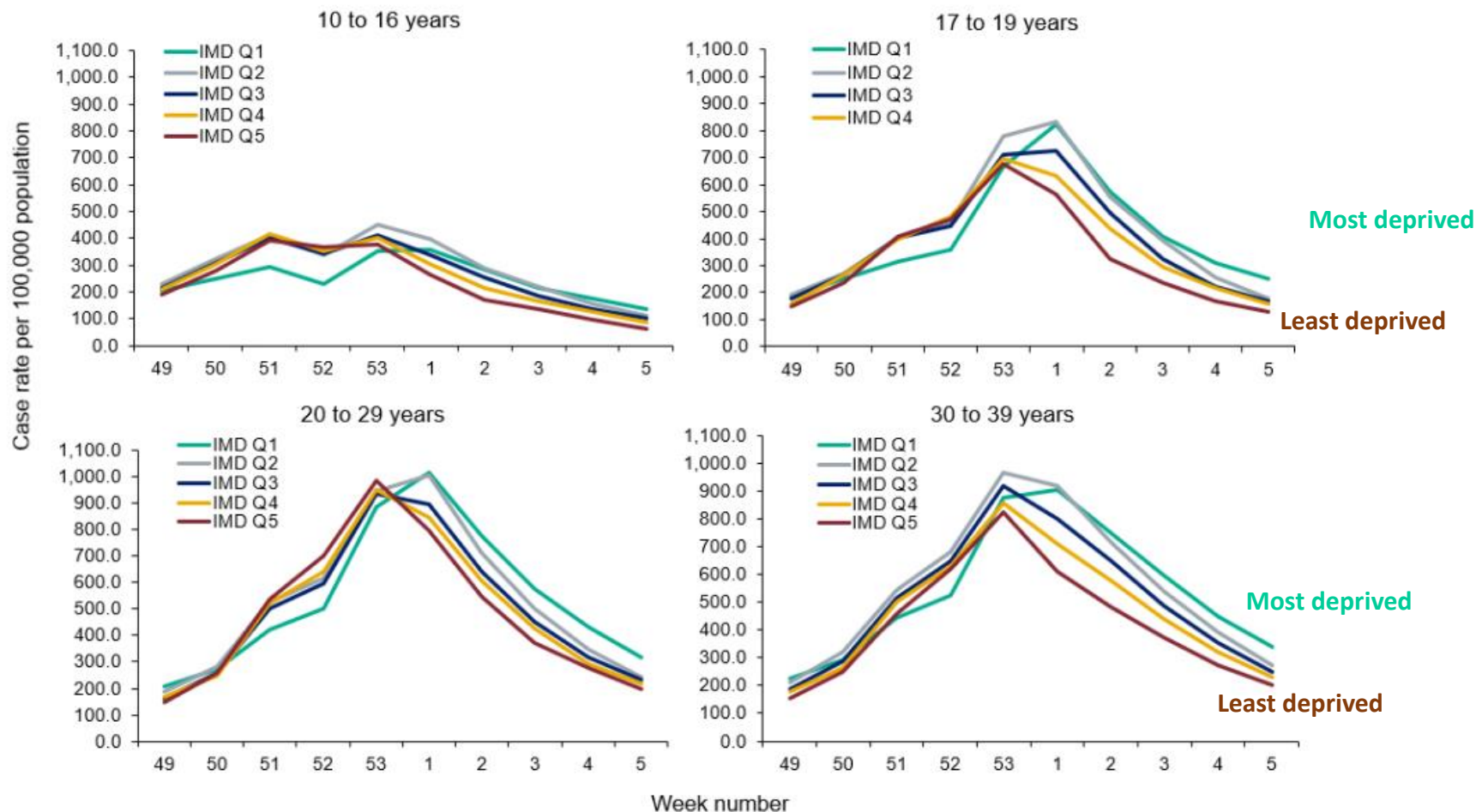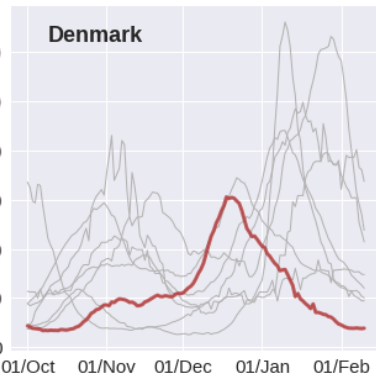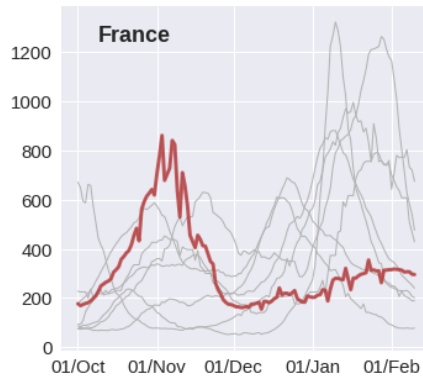
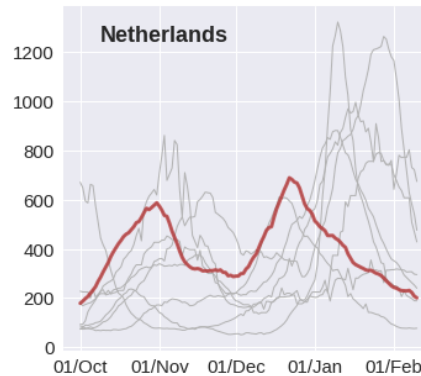# International picture: cases 1st October – 10th February

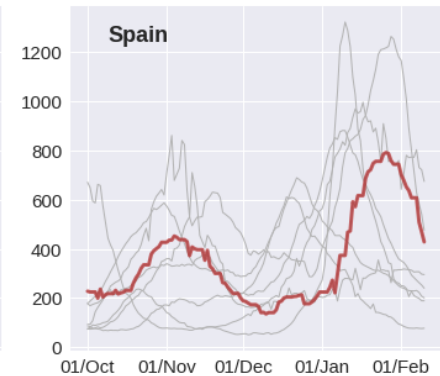Daily Cases (7 day moving average per million people)

Denmark

About 20% of cases are B117
Schools / hospitality shut,
lockdown.

France

About 15% of cases are B117
Schools open (w masks)
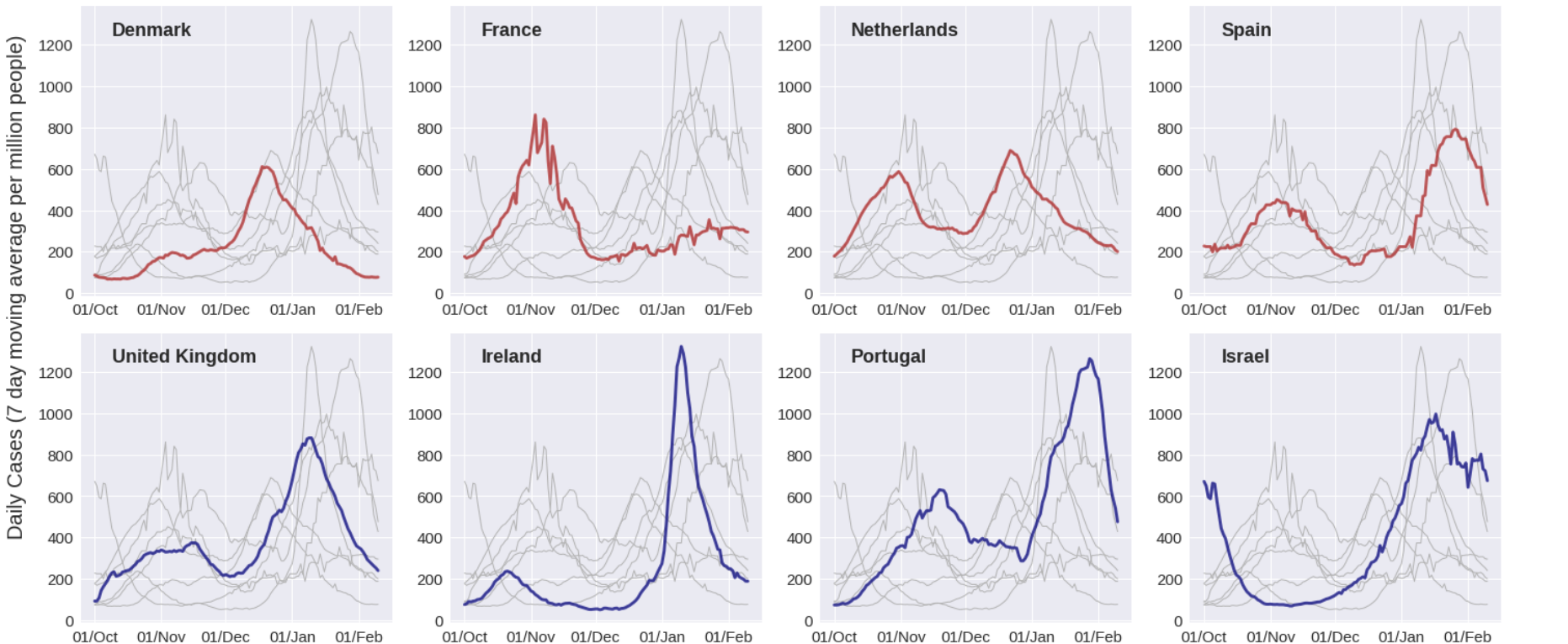Hospitality closed.

Netherlands

About 50% of cases are B117
Schools / hospitality shut, curfew.
Mid Jan: R=0.85 for original
variant, R=1.27 for B117

Spain

B117 varies by region (5-40%).
Regional travel restrictions
Curfews & no household mixing
Schools & hospitality vary by
region.

[www.ourworldindata.org/coronavirus]

Data from https://ourworldindata.org/ . Graph by & thanks to **Luke Shepherd**

International picture: cases 1st October – 10th February

About 90% of cases are B117
Schools / hospitality shut,
lockdown.

At least 75% of cases are B117
Hospitality closed. Lockdown
Schools to phase reopen from
22 Feb

B117 becoming dominant
Schools / hospitality shut,
lockdown since mid Jan.

B117 dominant.
Hospitality shut
Schools about to phase open
Lockdown

Data from https://ourworldindata.org/ . Graph by & thanks to **Luke Shepherd**

Summary

Cases, hospitalisations and deaths now falling in all nations.

Vaccination going well – next few weeks should see clearer impact. BUT government must have detailed data of efficacy. Will they publish it?

Relaxing restrictions will be tricky – next week we will discuss this in more detail.

Variants are the global concern.