Latest numbers on COVID-19 in the UK – 11 December 2020

Positive signs for Scotland and Northern Ireland.
Worrying signs for England and Wales.

1. Deaths

2. Hospitalisations

3. Cases

4. Tiers

5. International picture

With many thanks to Catherine Finnecy, Luke Shepherd & Bob Hawkins for help in collating and understanding the data.
Deaths
Number of new UK deaths from COVID-19 per week

These are registered deaths where COVID-19 was mentioned on the death certificate, regardless of location.

About 90% are directly due to Covid.

Data from:
Northern Ireland: [www.nisra.gov.uk/publications/weekly-deaths](http://www.nisra.gov.uk/publications/weekly-deaths)
Number of deaths within 28 days of +ve COVID test per day in England, by date of death (up to 29 November 2020)

Data from https://coronavirus.data.gov.uk/
Hospitalisations
Number of people in hospital per million people – UK nations (daily 7 day average)

Data from https://coronavirus.data.gov.uk.
Number of people admitted to hospital with Covid in England per day

Data from https://coronavirus.data.gov.uk.
Number of new hospital admissions with COVID-19 per day in English regions

Data from https://www.england.nhs.uk/statistics/statistical-work-areas/covid-19-hospital-activity/
Number of new hospital admissions with COVID-19 per day in English regions

Data from https://www.england.nhs.uk/statistics/statistical-work-areas/covid-19-hospital-activity/
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 confirmed COVID-19 cases / 100,000 people (rolling weekly totals) by date of test - UK nations

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
Positivity rate for UK nations (proportion of people tested who test positive)


Map from https://www.travellingtabby.com/uk-coronavirus-tracker/local

Thanks to Bob Hawkins for preparing the chart.
Positivity rate for UK nations (proportion of people tested who test positive)


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Positivity rate for UK nations (proportion of people tested who test positive)


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Weekly number of new confirmed COVID-19 cases / 100,000 people – England regions (specimen date)

Weekly number of new confirmed COVID-19 cases / 100,000 people – England regions (specimen date)

London highest region in England

Daily Test Positivity Rate for England Regions to 6th December: Community tests only ("Pillar 2")

Matches ONS infection survey

### COVID-19 among people aged 60+ in England

Weekly rate of positive tests per 100,000 population aged 60+, week ending 9th. Only areas with weekly rates above 150 per 100k are shown.

<table>
<thead>
<tr>
<th>Region</th>
<th>Region Weekly rate</th>
<th>Region Weekly change</th>
<th>List of local authorities with a weekly rate above 150 per 100,000 among ages 60+ (with weekly change also shown)</th>
<th>Total population of areas shown</th>
<th>% of region population</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>East Midlands</strong></td>
<td>144</td>
<td>-5%</td>
<td>Lincoln, Chelby &amp; Yor, Northumb, Leicest, Rutland, Rutland, Wakfield, York, W Lincs, W York, N York, N York</td>
<td>1.88 mill</td>
<td>39%</td>
</tr>
<tr>
<td><strong>Yorkshire &amp; Humber</strong></td>
<td>138</td>
<td>-13%</td>
<td>Rotherham, Doncaster, EC Lincs, Wakefield, Hull, Bradford, Barnsley</td>
<td>2.13 mill</td>
<td>39%</td>
</tr>
<tr>
<td><strong>West Midlands</strong></td>
<td>138</td>
<td>-10%</td>
<td>Stafford, Stafford, Wolverham, Cannock, Sandwell, Dudley, Lichfield, Telford, Shrewsb, Shrewsb</td>
<td>2.98 mill</td>
<td>50%</td>
</tr>
<tr>
<td><strong>London</strong></td>
<td>131</td>
<td>+15%</td>
<td>Barking &amp; Dg, Waltham for, Newham, Tower Ham, Harington, Harington, Hackney, Brent</td>
<td>2.68 mill</td>
<td>30%</td>
</tr>
<tr>
<td><strong>North West</strong></td>
<td>122</td>
<td>-2%</td>
<td>Wigan, St Helens, Prenton, Wirral, Chester, Wirral, Chester, Wirral, Chester</td>
<td>2.64 mill</td>
<td>36%</td>
</tr>
<tr>
<td><strong>North East</strong></td>
<td>120</td>
<td>-24%</td>
<td>Sunderland, Tyneside, Stockton, Tyne &amp; W, Redcar &amp; C</td>
<td>0.80 mill</td>
<td>30%</td>
</tr>
<tr>
<td><strong>South East</strong></td>
<td>104</td>
<td>+9%</td>
<td>Medway, Gravesham, Seveno, Dover, Canterbury, Ashford, Tunbridge, Tunbridge, Tunbridge</td>
<td>1.61 mill</td>
<td>18%</td>
</tr>
<tr>
<td><strong>East of England</strong></td>
<td>84</td>
<td>+9%</td>
<td>Ipswich, Colchester, Bury St Edmund, Ipswich, Colchester, Ip</td>
<td>0.91 mill</td>
<td>15%</td>
</tr>
<tr>
<td><strong>South West</strong></td>
<td>56</td>
<td>-18%</td>
<td>No local authorities with a weekly rate over 150 per 100,000 among age 60+</td>
<td>0</td>
<td>0%</td>
</tr>
</tbody>
</table>

Thanks to Carl Baker for the chart! [https://twitter.com/carlbaker/status/1337328644302188544?s=20](https://twitter.com/carlbaker/status/1337328644302188544?s=20)
What might happen in England?

Daily reported case numbers in England

From last week’s briefing

Likely to see case numbers continue to fall for another week

After that... all depends on how well the new tiers work.
England cases – reported date (up to 10 December)

I was wrong – because London, SE and East started increasing last week of lockdown

Not encouraging

Last week
English tiers

Thanks to John Burn-Murdoch & Bob Hawkins for the charts
Considerations for tiers

- Case numbers per 100,000 people per week
- Case numbers per 100,000 people for over 60s
- Positivity rates
- Hospital admissions
- Hospital occupancy & capacity
- Trajectories (are things getting better or worse?)
Daily test positivity data 15th Aug – 6th Dec by tier (using date of test data)

Data from https://www.gov.uk/government/collections/coronavirus-cases-by-local-authority-epidemiological-data. Thanks to Bob Hawkins for the chart!
Looking more closely at London (week ending 7 Dec)
Case rates per 100,000 people by Borough

Data from https://www.gov.uk/government/collections/coronavirus-cases-by-local-authority-epidemiological-data. Thanks to Bob Hawkins for the chart!
Case rates per week per 100,000 people up to 5\textsuperscript{th} December

How new case rates currently compare across England’s tiers

Weekly Covid-19 cases per 100k people, by local authority, as of December 5

Circle size represents population \textit{London boroughs in blue}

Thank you to John Burn-Murdoch
Case rates per week per 100,000 people up to 5th December: 60+ yrs

How new case rates among the elderly compare across England’s tiers

Weekly cases per 100k people aged 60+, by local authority, as of December 5

Circle size represents population  London boroughs in blue

Sources: Public Health England; NHS; Date updated Dec 10
Inspired by Carl Baker / @carlbaker
© FT

Thank you to John Burn-Murdoch
Daily hospital admissions per 100,000 people up to 29\textsuperscript{th} November

How hospital bed occupancy compares across England’s tiers

Hospital beds occupied by Covid patients, per 100k people, by local authority, as of Nov 29

Circle size represents population *London boroughs in blue*

Sources: Public Health England; NHS; Date updated Dec 10
Inspired by Carl Baker / @carlbaker
© FT

Thank you to John Burn-Murdoch
Cases have risen over the last week in most parts of London

Prevalence and growth of Covid cases in England & Wales, by local authority, as of December 5

Circle size represents population. Coloured circles indicate areas in tier 2 or tier 3

Sources: Public Health England, Public Health Wales

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International picture
European countries coming out of lockdown: positivity rates

The share of daily COVID-19 tests that are positive

Czechia

Lockdown inc some school closures

All shops & hospitality open again.

https://ourworldindata.org/coronavirus
European countries coming out of lockdown: positivity rates

The share of daily COVID-19 tests that are positive
Shown is the rolling 7-day average. The number of confirmed cases divided by the number of tests, expressed as a percentage. Tests may refer to the number of tests performed or the number of people tested – depending on which is reported by the particular country.

France

Regional restrictions

Shops open,
Curfew 9pm – 7am
Bars & clubs shut till 20th Jan
No more than 6 adults at Christmas

https://ourworldindata.org/coronavirus
European countries coming out of lockdown: positivity rates

The share of daily COVID-19 tests that are positive

Shown is the rolling 7-day average. The number of confirmed cases divided by the number of tests, expressed as a percentage. Tests may refer to the number of tests performed or the number of people tested – depending on which is reported by the particular country.

Netherlands

Hospitality shut
Restricted household mixing

Lockdown

Shops close at 8pm
No alcohol sales after 8pm
Hospitality remains closed

https://ourworldindata.org/coronavirus
European countries coming out of lockdown: positivity rates

https://ourworldindata.org/coronavirus
Case numbers in Canada

Daily new confirmed COVID-19 cases per million people
Shown is the rolling 7-day average. The number of confirmed cases is lower than the number of actual cases; the main reason for that is limited testing.

Canada

Cases accelerate 2-3 weeks later

Regional lockdowns start

United States, 2 weeks after Thanksgiving

Our Worst Week Yet: This Week in COVID-19 Data, Dec 10
Reported COVID-19 deaths hit all-time daily and weekly highs this week, and cases and hospitalizations continue to rise.

Source: Johns Hopkins University CSSE COVID-19 Data - Last updated 10 December, 06:06 (London time)

https://ourworldindata.org/coronavirus
Case numbers, hospitalisations are coming down or stable in Northern Ireland and Scotland.

Both are going up in England and Wales.

Many European countries are emerging out of lockdown into national versions of England Tier 3 (hospitality closed shops open).

In England, very regional. Worryingly, London, South East and East of England started going up before the end of lockdown.

Unless we understand why they were going up, and address those reasons, added restrictions on their own won’t be enough.

From experience in the NW, we know that working closely with communities in deprived areas is crucial.