Latest numbers on COVID-19 in the UK – 21 October 2022

1. Prevalence of Covid
2. Hospitals & Deaths
3. Vaccinations
4. Vaccinations & Pregnancy

With many thanks to Bob Hawkins for his help in collating the data
Prevalence of Covid
Percent Testing Positive by Nation: 3 Sep 2021 to 10/11 Oct 2022
(Source: ONS Coronavirus (COVID-19) Infection Survey results)

<table>
<thead>
<tr>
<th>Country</th>
<th>Date</th>
<th>Percent Testing Positive</th>
</tr>
</thead>
<tbody>
<tr>
<td>England (Oct 10)</td>
<td></td>
<td>1 in 30</td>
</tr>
<tr>
<td>Wales (Oct 11)</td>
<td></td>
<td>1 in 25</td>
</tr>
<tr>
<td>Northern Ireland (Oct 10)</td>
<td></td>
<td>1 in 40</td>
</tr>
<tr>
<td>Scotland (Oct 10)</td>
<td></td>
<td>1 in 35</td>
</tr>
</tbody>
</table>

Thanks to Bob Hawkins for the chart
Percent Testing Positive by Region: 7 Oct 2022
(Source: ONS Coronavirus (COVID-19) Infection Survey results)

Thanks to Bob Hawkins for the chart
Percent Testing Positive by Age for England: Recent Trend
(Source: ONS Coronavirus (COVID-19) Infection Survey results)


Get boosted!

Booster kicking in?
Percent Testing Positive by School Age in England
22 Aug 2021 to 10 Oct 2022
(Source: ONS Coronavirus (COVID-19) Infection Survey results)

Thanks to Bob Hawkins for the chart
Proportion of sequenced cases that are one of: BQ.1.1, BQ.1, BF.7 (all of which are subvariants of Omicron).

Allocations from Alex Selby – thank you!
@alexselby1770, http://sonorouschocolate.com/covid19/index.php/UK_variant_comparison
Hospitals & Deaths
Number of people in hospital with Covid per million people – UK nations
7 day rolling average to 19 October 2022

NB: NI data only up to 13 October

Data from [https://coronavirus.data.gov.uk](https://coronavirus.data.gov.uk).
Number of daily hospital admissions with Covid in England to 17 Oct 2022

Data from https://www.england.nhs.uk/statistics/statistical-work-areas/covid-19-hospital-activity/
Hospital acquired admissions falling faster than community acquired

NOTE: log scale for number of admissions

Chart by Oliver Johnson, @BristOliver, https://twitter.com/BristOliver/status/1582997538189164544?s=20&t=2J3DWYeHlFXhJAszT4QtEg
Number of deaths with Covid on the death certificate by week registered in the UK to 7 October 2022

Data from:
England and Wales: www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/bulletins/deathsregisteredweeklyinenglandandwalesprovisional/latest
Northern Ireland: www.nisra.gov.uk/publications/weekly-deaths
Vaccinations
Autumn 2022 Booster Coverage for Over 65's by Nation
Oct 19, 2022


https://coronavirus.data.gov.uk/, thanks to Bob Hawkins for the chart
Autumn 2022 Booster Coverage by Age Group in England
Sep 4 to Oct 19, 2022
(Source: Covid Dashboard and ONS 2020 Population Estimates)

https://coronavirus.data.gov.uk/
Percent Vaccinated by Age in the Last 3 Months, 3 to 6 Months, More than 6 Months, and Unvaccinated: England - Oct 16, 2022
(Source: National Influenza and COVID-19 Surveillance Data Report based on NIMS Population Estimates)


Thanks to Bob Hawkins for the chart
Percent Vaccinated by Ethnicity in the Last 3 Months, 3 to 6 Months, More than 6 Months, and Unvaccinated: England - Oct 16, 2022
(Source: National Influenza and COVID-19 Surveillance Data Report based on NIMS Population Estimates)

Thanks to Bob Hawkins for the chart
Vaccine coverage and pregnancy
Vulnerability of pregnancy and benefit of vaccination: UKHSA

Risk of Covid

Pregnant women who develop severe disease have increased rates of admission to ICU, need for invasive ventilation and pre-term delivery. Data from the US Centers for Disease Control and Prevention (CDC) found that pregnant women were around 3 times more likely to be admitted to ICU and nearly 3 times more likely to require invasive ventilation compared to non-pregnant women with COVID-19 disease and 25% more likely to die (32).

Benefit of vaccine

There is evidence of high levels of protection against SARS-CoV-2 infection in pregnant women after COVID-19 vaccination (36 to 38) and evidence that vaccination induces higher antibody levels than after disease (38). There is also evidence from a recent US study that 2 doses of mRNA COVID-19 vaccination during pregnancy might help prevent COVID-19 hospitalisations in young infants under 6 months of age (39). Between February and September 2021, 0.4% of children born to COVID-19 vaccinated mothers received hospital treatment in the UK.

Percentage of women giving birth Apr – Jun 2022 who had received at least one vaccine dose by deprivation

Percentage of women giving birth Apr – Jun 2022 who had received at least one vaccine dose by ethnicity

76% Asian
75% White
51% Black

These numbers are not broken down by whether women had Covid during pregnancy, but women who had at least one dose of vaccine had slightly better outcomes.

Obviously also confounded by differences in who is vaccinated, but data supports other studies showing high vaccine safety.

Pregnancy outcomes: prematurity (UKHSA)

Figure 10. Women giving birth prematurely January 2021 to June 2022

- Premature
- Very Premature
- Extremely Premature

Flu
SUMMARY

• Have reached a plateau in this wave – probably the waning immunity wave has peaked, especially with the autumn booster helping it along.

• However, in next week or two BQ.1/BQ.1.1 variants will be dominant in UK and that could drive another wave. How it interacts with the autumn booster remains to be seen – have a more immune evasive variant colliding with a (semi) recently boosted population.

• France is a little ahead of us with BQ.1.1 – keep an eye out there. Singapore currently in a XBB wave, but we don’t have much of it here.

• Finally, flu is on the rise earlier than in pre pandemic years – if eligible, please get your flu jab too! Also, mitigations against Covid (fresh air, masks, avoiding people if sick) will work against flu too...