



Llywodraeth Cymru
Welsh Government

STATISTICS

Coronavirus (COVID-19) infection survey: 6 to 12 February 2021

Analysis of the proportion of people testing positive for COVID-19 for 6 to 12 February 2021.

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The Coronavirus (COVID-19) Infection Survey (CIS) is run across the whole of the UK and aims to estimate:

- how many people have the infection over a given time (positivity);
- how many new cases occur over a given period (incidence); and
- how many people have antibodies to COVID-19.

The survey helps track the extent of infection and transmission of COVID-19 among people in private residences, referred to as the **community population**.

Proportion of people in Wales who had COVID-19

For the week of 6 to 12 February 2021 it is estimated that an average of 0.81% of the **community population** had COVID-19 (95% **credible interval**: 0.66% to 0.97%).

This equates to around 1 in 125 individuals (95% credible interval: 1 in 150 to 1 in 105), or an estimated 24,600 people in total (credible interval: 20,100 to

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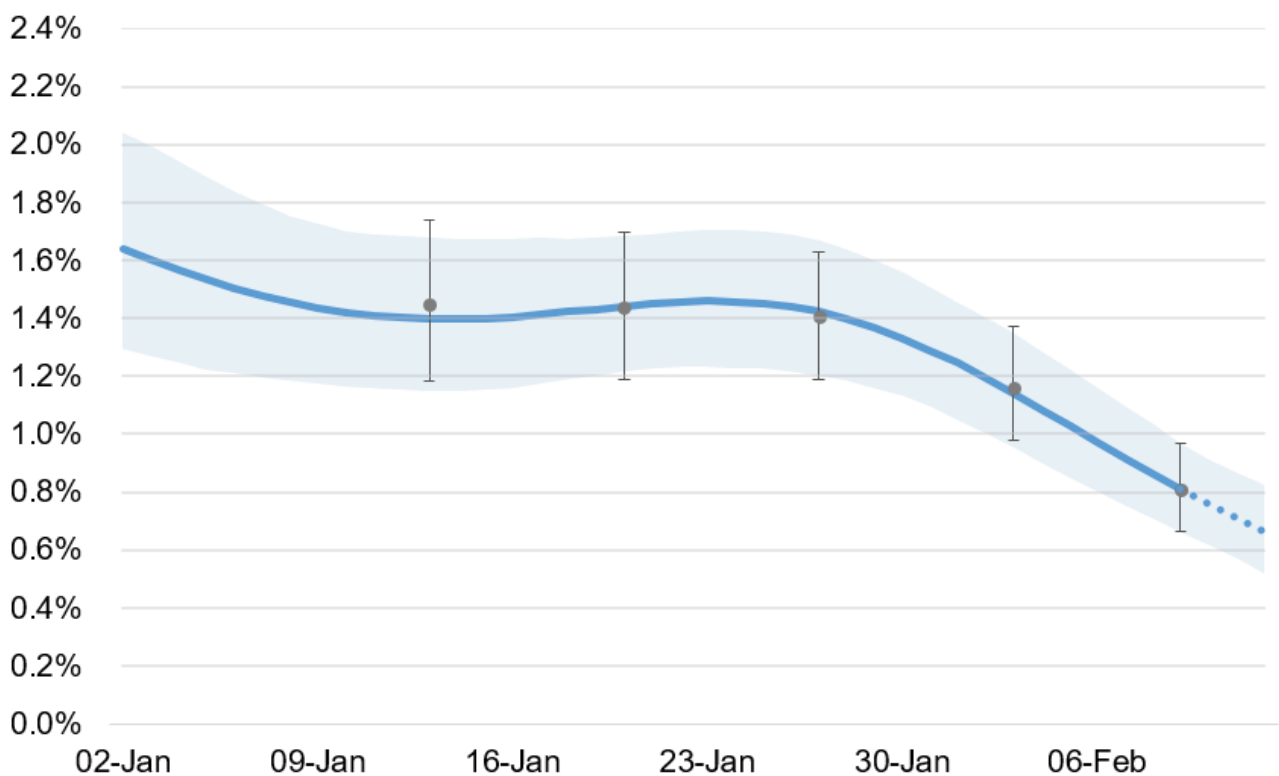
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29,400.

The positivity rate has continued to decrease in the most recent week.

Since the estimates are based on a relatively low number of positive tests, there is some uncertainty and the results should be interpreted with caution.

Chart 1: Official estimates of the percentage of the population in Wales testing positive for the coronavirus (COVID-19) on nose and throat swabs since 2 January 2021



Source: Coronavirus (COVID-19) Infection Survey, ONS

The blue line and shading represent the modelled trend and 95% credible intervals based on the latest data. The point estimate and error bars are the official estimates published at the time. Estimates for the last few days of the series, shown as dashed lines in the chart, have more uncertainty.

There are early signs to suggest that the percentage of people testing positive

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for strains compatible with the new variant is no longer decreasing.

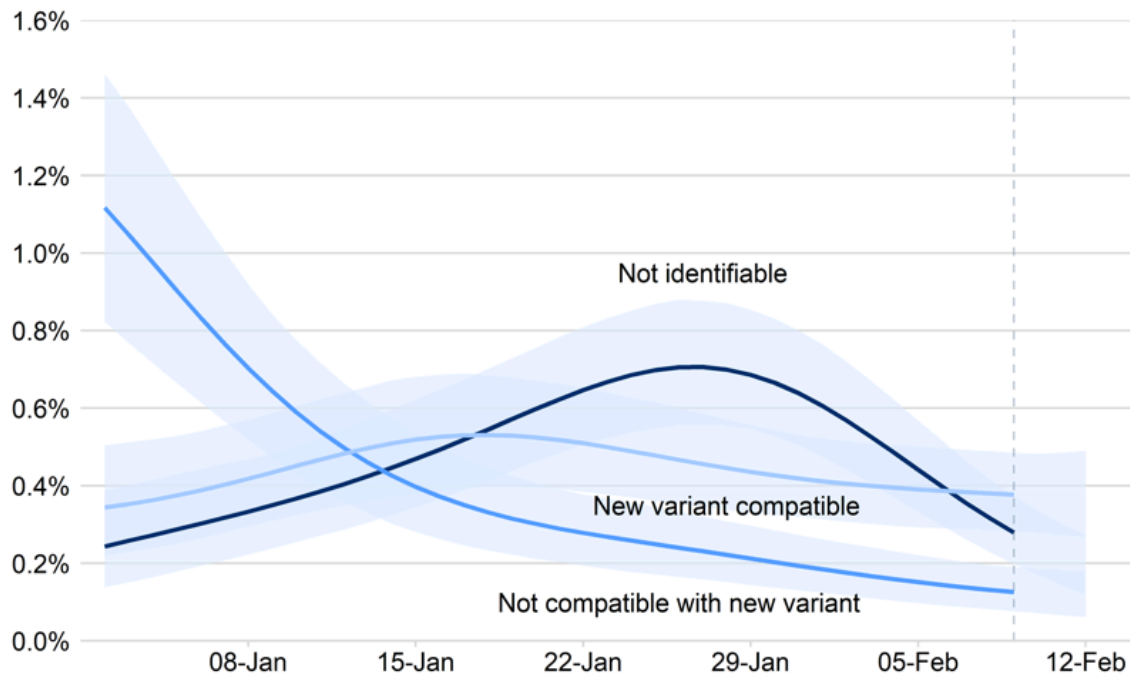
The percentage of people testing positive for strains not compatible with the new variant, and where the virus is too low for the variant to be identifiable have continued to decrease in the most recent week.

Cases where the virus is too low for the variant to be identifiable are often due to individuals having had the virus for a longer period of time.

Further information on the classification of positive cases can be found on the [ONS website](#).

Please note that there is a greater lag in data from the infection survey than from other sources such as [Public Health Wales](#).

Chart 2: Estimates of the percentage of positive cases compatible with the new UK variant and other positive cases since 2 January 2021



Source: Coronavirus (COVID-19) Infection Survey, ONS

The lines and shading represent the modelled trend and 95% credible intervals based on the latest data for cases compatible with the new variant, not compatible with the new variant and those where the virus is too low for the variant to be identifiable. Estimates for the last few days of the series, where no central estimate is shown, have more uncertainty.

For the first time, modelled estimates are provided for regions in Wales. Estimates are provided for the seven days up to 12 February 2021 based on modelling the entire seven-day period.

Rates of positive cases are highest in the region covering Caerphilly, Blaenau Gwent, Torfaen, Monmouthshire and Newport.

Due to smaller sample sizes, there is a higher degree of uncertainty in estimates for individual regions, as indicated by larger credible intervals.

Figure 1: Estimates of the percentage of the population in

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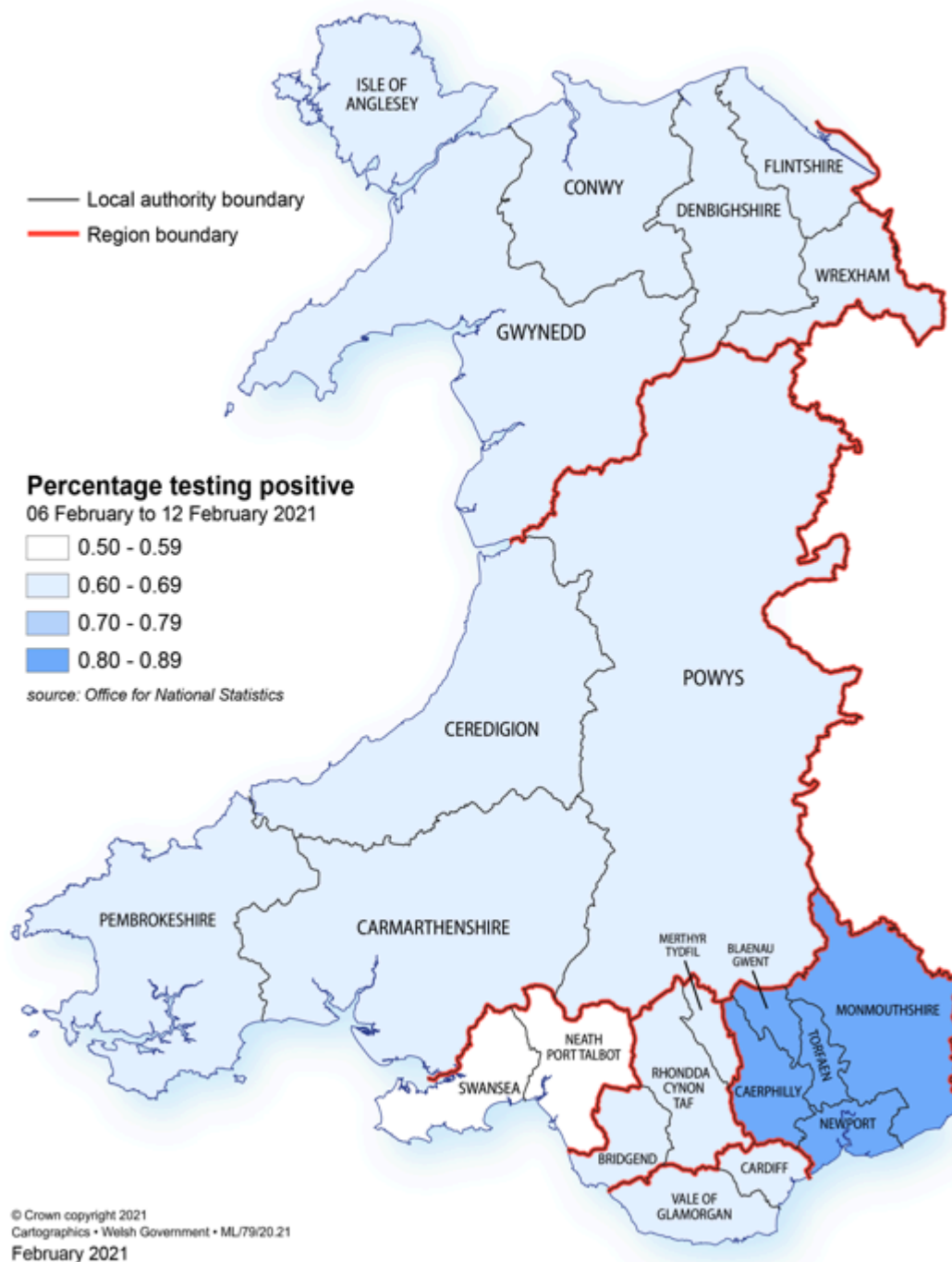
Wales testing positive for the coronavirus (COVID-19) by region between 6 and 12 February 2021

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Percentage of people testing positive for COVID-19 in Wales by region



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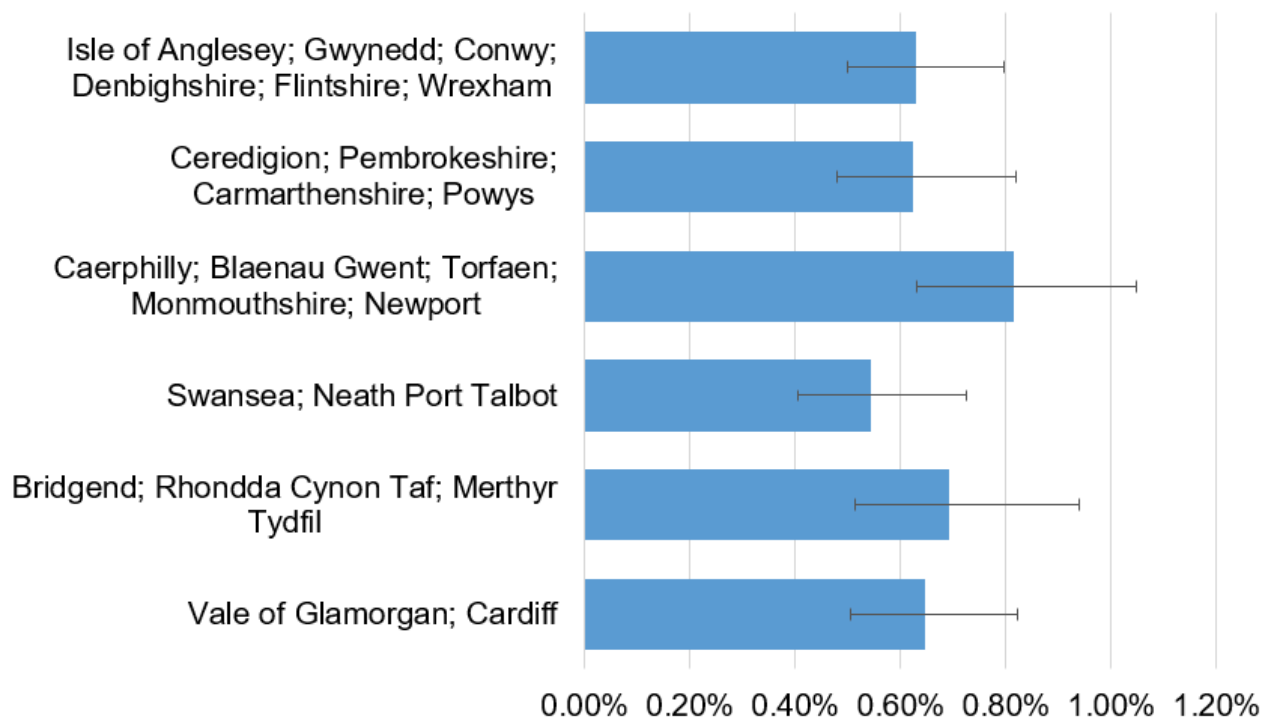
Source: Coronavirus (COVID-19) Infection Survey, ONS

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Chart 3: Estimates of the percentage of the population in Wales testing positive for the coronavirus (COVID-19) by region 6 to 12 February 2021

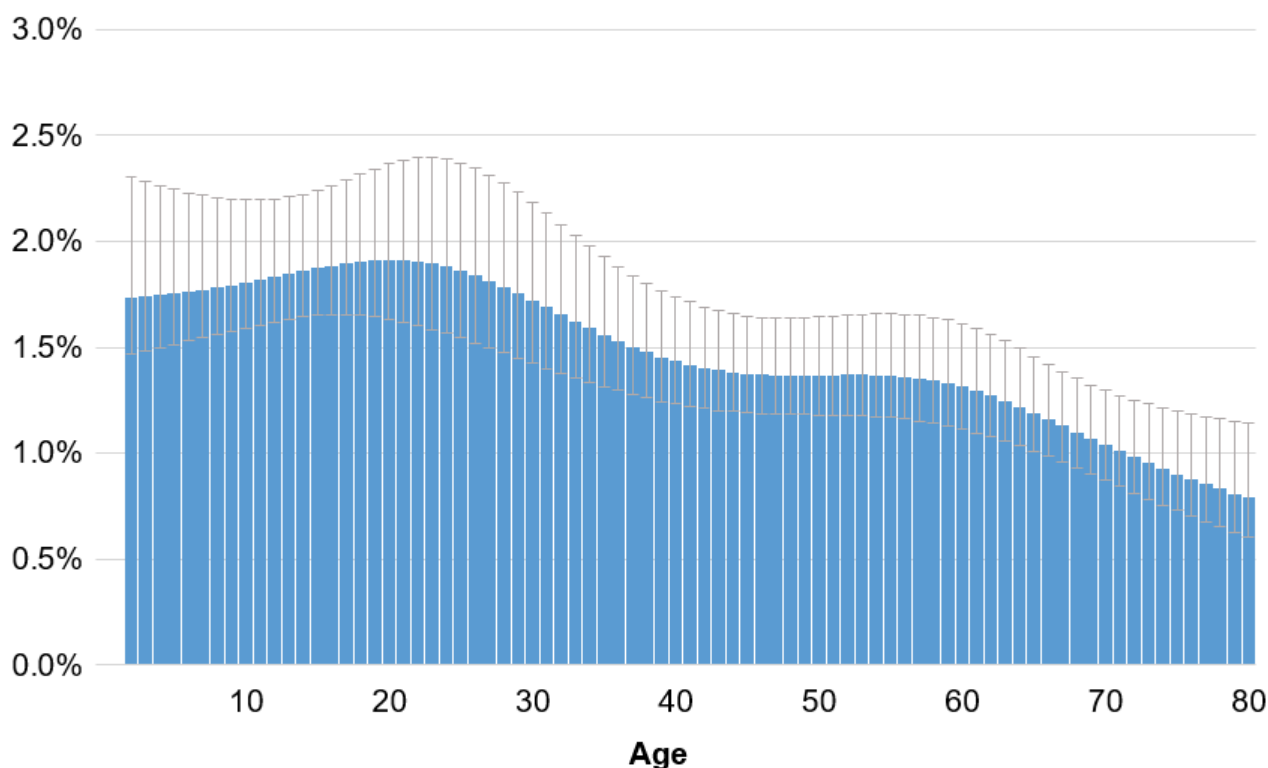


Source: Coronavirus (COVID-19) Infection Survey, ONS

The blue bars give point estimates and the horizontal lines indicate the 95% credible intervals. Modelled estimates shown for regional estimates for the seven days up to 12 February 2021 based on modelling the entire seven-day period.

Rates of positive cases vary by age, and appear to have decreased in all age groups in recent weeks.

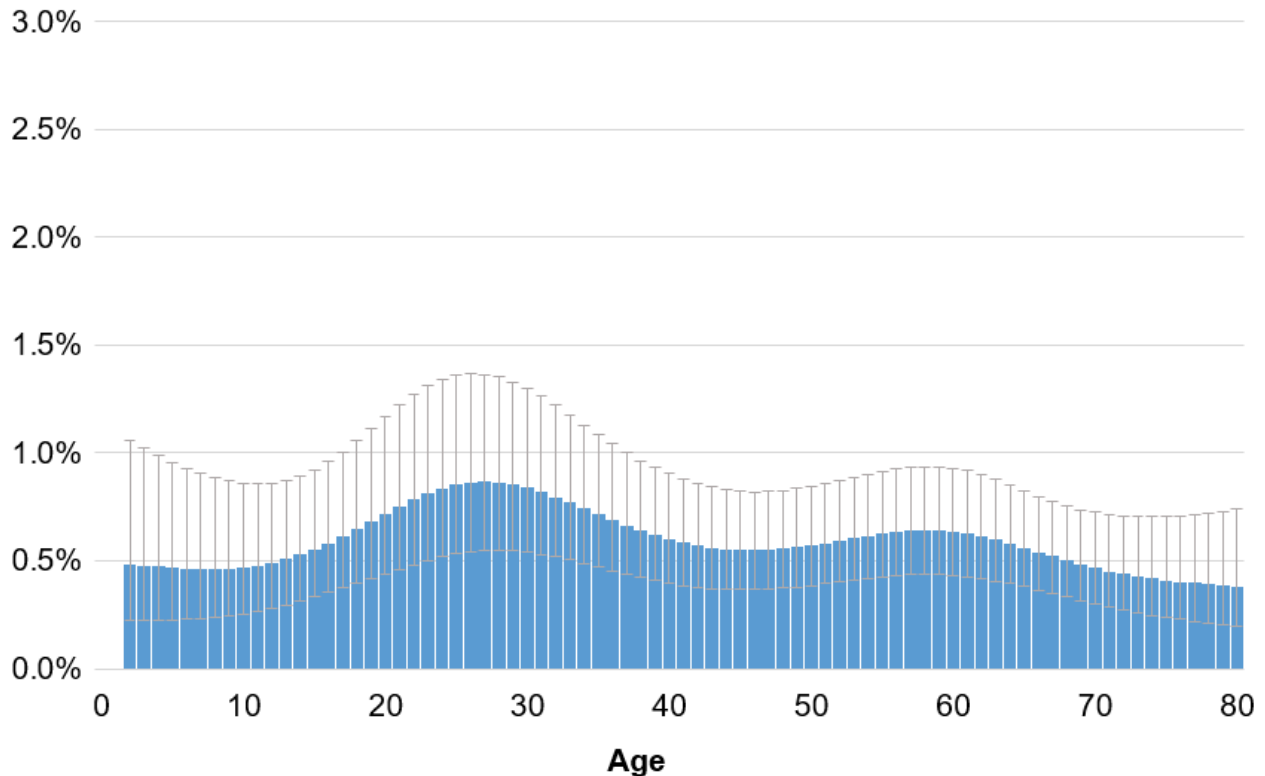
Chart 4a: Estimates of the percentage of the population in Wales testing positive for the coronavirus (COVID-19) by age on 13 January 2021



Source: Coronavirus (COVID-19) Infection Survey, ONS

The blue bars give point estimates and the vertical lines indicate the 95% credible intervals. Modelled estimates shown for single years of age (aged 2 to 80) on 13 January 2021.

Chart 4b: Estimates of the percentage of the population in Wales testing positive for the coronavirus (COVID-19) by age on 9 February 2021



Source: Coronavirus (COVID-19) Infection Survey, ONS

The blue bars give point estimates and the vertical lines indicate the 95% credible intervals. Modelled estimates shown for single years of age (aged 2 to 80) on 9 February 2021.

In the data used to produce these estimates, the number of people sampled in the different ages who tested positive for COVID-19 was lower relative to Wales overall. This means there is a higher degree of uncertainty in estimates for individual age groups over this period, as indicated by larger credible intervals.

The percentage of people testing positive for COVID-19 by single year of age since 27 December 2020 for Wales, Northern Ireland and Scotland is provided in the [ONS dataset](#).

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Antibodies (updated every fortnight)

As part of the survey we measure the presence of antibodies to understand who has had COVID-19 in the past or have developed antibodies as a result of vaccination. Updates to antibodies estimates are provided on a fortnightly basis.

One way the body fights infections like COVID-19 is by producing small particles in the blood called antibodies. It takes between two and three weeks after infection or vaccination for the body to make enough antibodies to fight the infection. The length of time antibodies remain at detectable levels in the blood is not fully known. It is also not yet known how having detectable antibodies, now or at some time in the past, affects the chance of getting COVID-19 again.

The reporting of antibody estimates has recently changed. Weighted estimates for 28-day periods of antibody positivity are now presented, rather than monthly estimates. This approach will allow more frequent updates to be provided. Please note that these estimates cannot be directly compared with previously published antibody estimates.

Further information on these changes, along with estimates of antibody positivity broken down by age for each of the UK countries can be found on the [ONS website](#).

Between 5 January and 1 February 2021, 14.4% (95% **confidence interval**: 12.1% to 17.0%) of people aged 16 and over tested positive for antibodies to the coronavirus (COVID-19). The estimate is weighted to be representative of the overall population, and equates to around 1 in 7 people (95% confidence interval: 1 in 8 to 1 in 6), or around 365,000 individuals in total (95% confidence interval: 306,000 to 431,000).

Chart 5 gives monthly estimates from July (when antibody estimates were first available for Wales). Though there is uncertainty with the estimates, it does appear that antibody rates have increased in recent months.

Antibody levels in the blood can decline over time, meaning that some people who have previously had COVID-19 may subsequently test negative for antibodies. For this reason, these figures should be regarded as estimates of

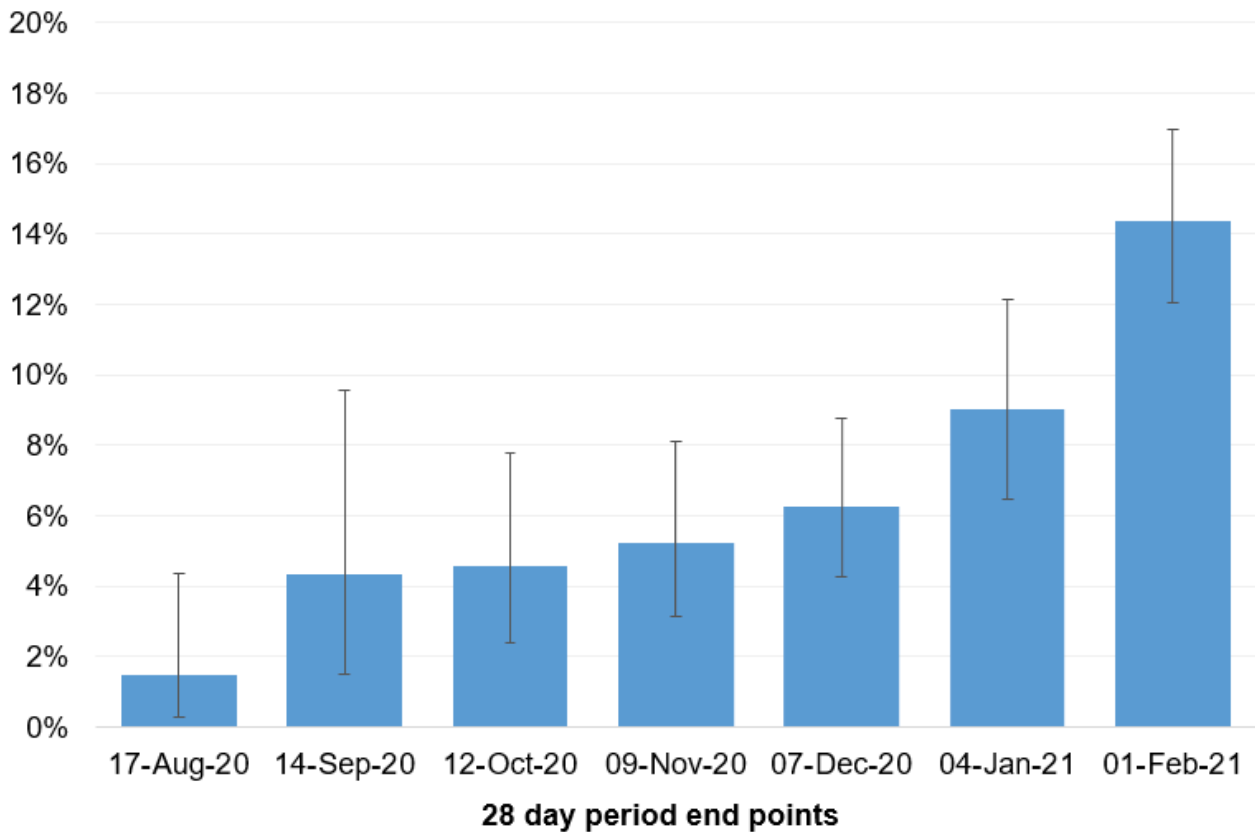
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monthly antibodies prevalence, not cumulative exposure.

Chart 5: Estimated percentage of the population in Wales testing positive for coronavirus (COVID-19) antibodies, July 2020 to February 2021



Source: Coronavirus (COVID-19) Infection Survey, ONS

The blue bars give point estimates and the vertical lines indicate the 95% confidence intervals. Estimates shown for 28 day periods from 21 July 2020 to 1 February 2021

Estimates for the countries of the UK

At the midpoint of the most recent week (6 to 12 February 2021) the highest estimated percentage of the community population with COVID-19 among the nations of the UK was in Northern Ireland (0.97%).

There is some uncertainty around the individual point estimates for the nations.

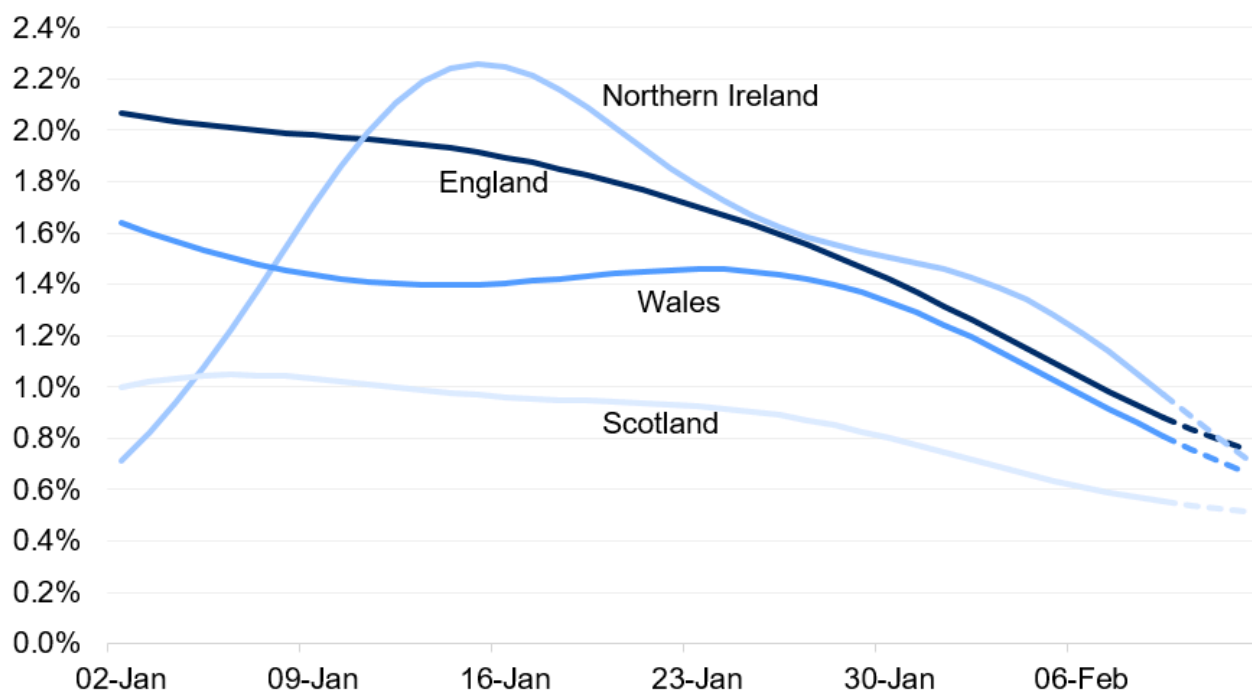
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Estimates for the last few days of the series, shown as dashed lines in the chart below, have more uncertainty.

Chart 6: Estimates of the percentage of the population in the UK countries testing positive for the coronavirus (COVID-19) on nose and throat swabs since 2 January 2021



Source: Coronavirus (COVID-19) Infection Survey, ONS

The lines represent the modelled trend based on the latest data. Estimates for the last few days of the series, shown as dashed lines in the chart, have more uncertainty.

Table 1: Positivity rates across UK countries for the week 6 to 12 February 2021

	Positivity rates (95% Confidence Interval)		
Wales	0.81%	1 in 125 people	24,600 people

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	Positivity rates (95% Confidence Interval)		
	(0.66 to 0.97)	(1 in 150 to 1 in 105)	(20,100 to 29,400)
England	0.88% (0.83 to 0.94)	1 in 115 people (1 in 120 to 1 in 105)	481,300 people (451,600 to 512,400)
Scotland	0.55% (0.46 to 0.66)	1 in 180 people (1 in 215 to 1 in 150)	29,200 people (24,300 to 34,600)
Northern Ireland	0.97% (0.76 to 1.22)	1 in 105 people (1 in 130 to 1 in 80)	17,800 people (13,900 to 22,400)

Source: Coronavirus (COVID-19) Infection Survey, ONS

Definitions

Community population

This survey covers people living in private households only and this is referred to as the community population. Residents in hospitals, care homes and/or other institutional settings are excluded.

Confidence intervals

A confidence interval gives an indication of the degree of uncertainty of an estimate, showing the precision of a sample estimate. The 95% confidence intervals are calculated so that if we repeated the study many times, 95% of the time the true unknown value would lie between the lower and upper confidence limits. A wider interval indicates more uncertainty in the estimate. Overlapping confidence intervals indicate that there may not be a true difference between two estimates.

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Credible intervals

A credible interval gives an indication of the uncertainty of an estimate from data analysis. 95% credible intervals are calculated so that there is a 95% probability of the true value lying in the interval.

Incidence

The number of new infections over a period of time.

Modelled estimates

Estimates of positivity from this survey are based on statistical modelling of the underlying data. The model smooths the series to understand the trend and is revised each week to incorporate new test results.

Point estimates

The headline point estimates are based on the modelled trend and are reflect the most representative reference point for the given week.

Positivity rate

The estimated proportion of people who test positive for coronavirus (COVID-19) at a point in time, with or without symptoms, based on nose and throat swabs.

Quality and methodology information

The results of the survey are based on self-administered nose and throat swabs provided by participants to the study. A subgroup of participants also provide blood test, taken by trained field staff.

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As well as looking at overall **incidence**, **positivity** and antibody level, the survey will be used to examine the characteristics of those testing positive for COVID-19 and the extent to which those infected experience symptoms. The results are for private households only and do not apply to those in hospitals, care homes or other institutional settings. This is referred to as the **community population**.

The survey covers all the countries of the UK, enabling estimates to be calculated for each country individually, and in time the UK as a whole. Fieldwork started first in England on 26 April meaning there is more cumulative data available for England enabling more detailed analysis at present. Fieldwork began in Wales on 29 June 2020 followed by Northern Ireland on 26 July and Scotland on 21 September.

It is important to note that there is a significant degree of uncertainty with the estimates. This is because, despite a large sample of participants, the number of positive cases identified is small. Estimates are provided with 95% **credible** or **confidence** intervals to indicate the range within which we may be confident the true figure lies.

The **modelled estimates** are carried out afresh each week using the previous 6 weeks' data. The model works by smoothing the series to understand the trend and is revised each week to incorporate new test results. This means that the latest estimate for an earlier period may be different to the official estimate that was produced at the time. Chart 1 shows the latest modelled trend and the official **(point) estimates** that were published at the time.

The Office for National Statistics (ONS) publishes **weekly statistical bulletins** and references tables and periodic **statistical articles** which include results for England, Wales, Northern Ireland and Scotland as they become available. The estimates for **Northern Ireland** and **Scotland** are published by the respective administrations, as we do here for Wales.

Further information about quality and methodology can be found on the **ONS website** and the survey pages on the **Oxford University site**.

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Well-being of Future Generations Act (WFG)

The Well-being of Future Generations Act 2015 is about improving the social, economic, environmental and cultural well-being of Wales. The Act puts in place seven well-being goals for Wales. These are for a more equal, prosperous, resilient, healthier and globally responsible Wales, with cohesive communities and a vibrant culture and thriving Welsh language. Under section (10)(1) of the Act, the Welsh Ministers must (a) publish indicators (“national indicators”) that must be applied for the purpose of measuring progress towards the achievement of the Well-being goals, and (b) lay a copy of the national indicators before Senedd Cymru. The 46 national indicators were laid in March 2016.

Information on the indicators, along with narratives for each of the well-being goals and associated technical information is available in the [Well-being of Wales report](#).

Further information on the [Well-being of Future Generations \(Wales\) Act 2015](#).

The statistics included in this release could also provide supporting narrative to the national indicators and be used by public services boards in relation to their local well-being assessments and local well-being plans.

Next update

26 February 2021

Contact details

Statistician: Lisa Bloemberg
Telephone: 0300 025 0166
Email: kas.covid19@gov.wales

Media: 0300 025 8099

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