



Llywodraeth Cymru
Welsh Government

STATISTICS

Coronavirus (COVID-19) infection survey: 24 to 30 January 2021

Analysis of the proportion of people testing positive for COVID-19 for 24 to 30 January 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 24 to 30 January 2021 it is estimated that an average of 1.40% of the **community population** had COVID-19 (95% **credible interval**: 1.19% to 1.63%).

This equates to around 1 in 70 individuals (95% credible interval: 1 in 85 to 1 in 60), or an estimated 42,700 people in total (credible interval: 36,200 to 49,500).

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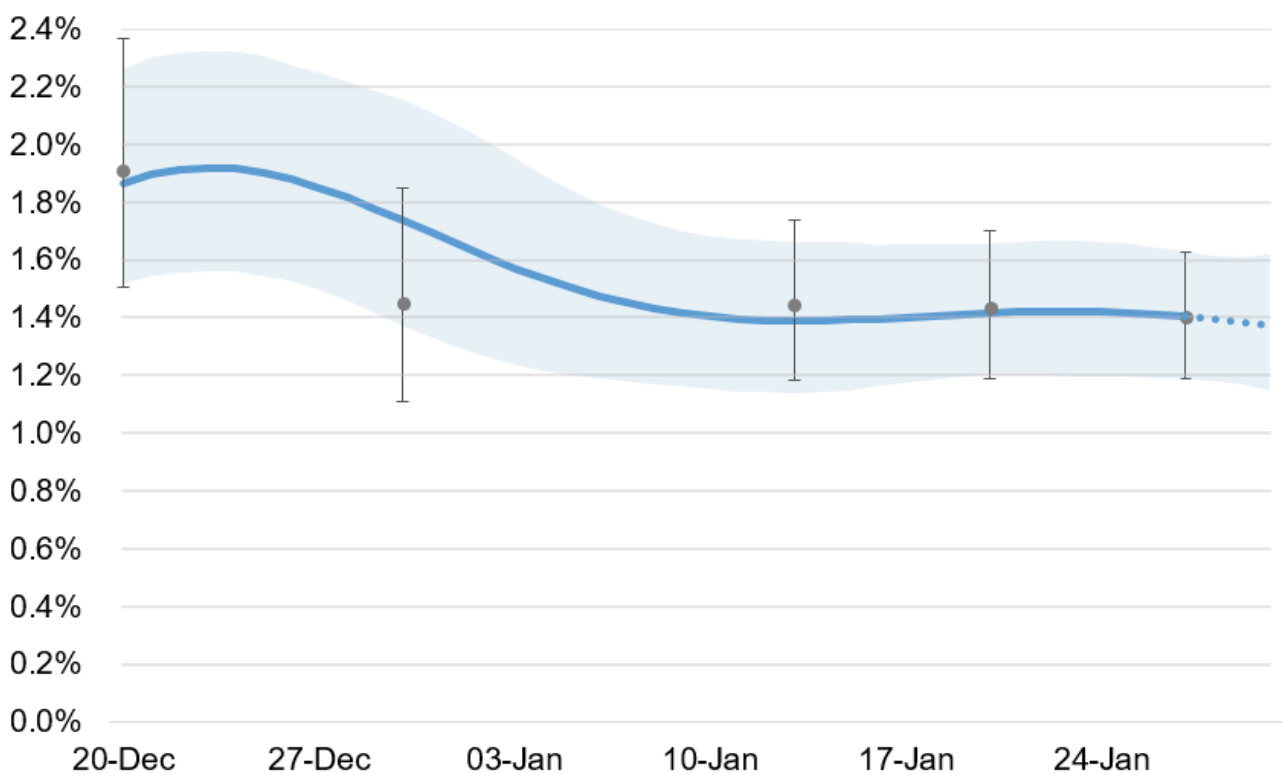
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The positivity rate has levelled off recently, after falling from the peak seen shortly before Christmas.

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 20 December 2020



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.

Positive cases that were compatible with the new variant have decreased over the most recent week, as have cases that were clearly not compatible with the

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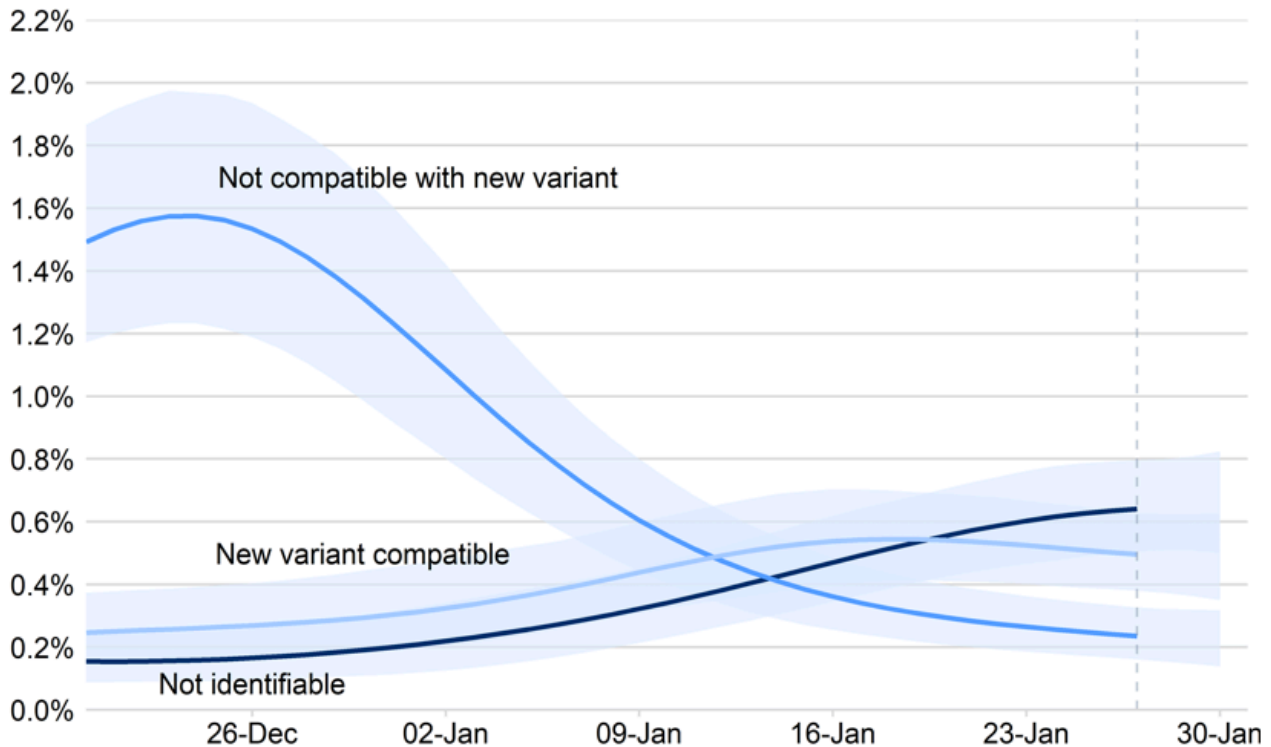
new variant.

The rate of cases where the virus was too low for the variant to be identifiable has continued to increase. These are often cases where individuals have 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 20 December 2020



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.

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

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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.

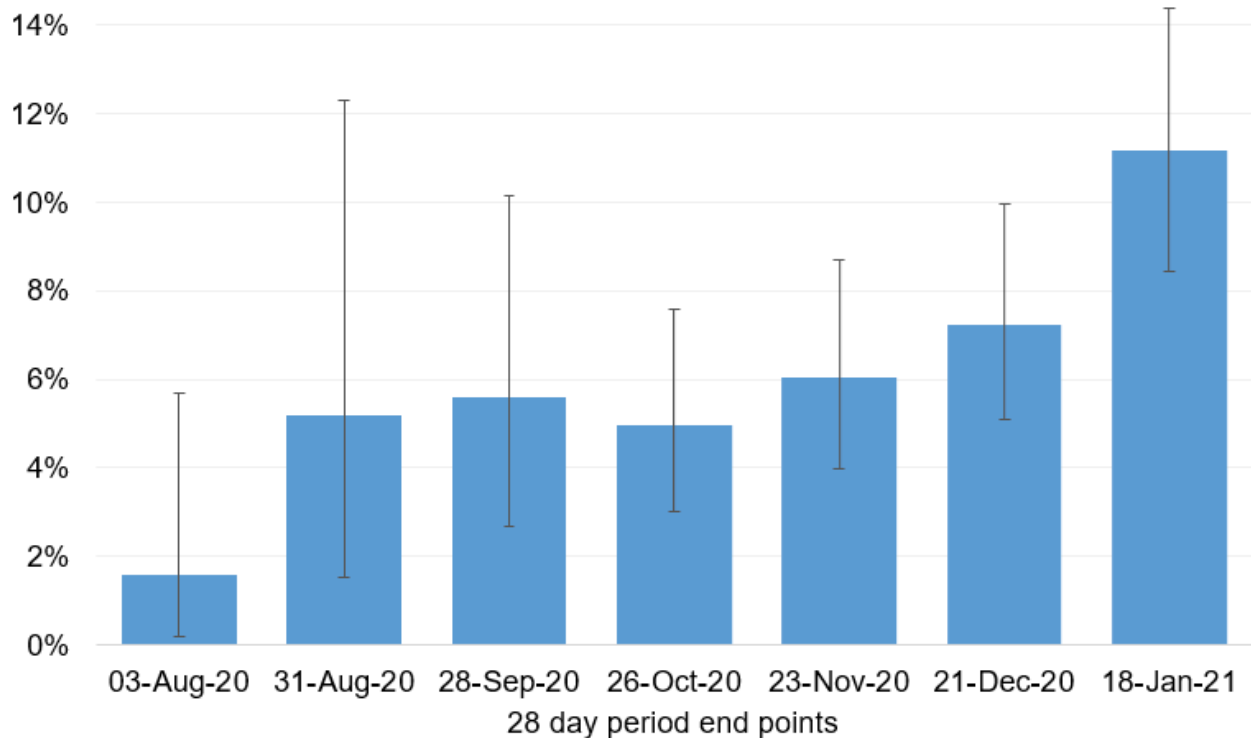
The reporting of antibody estimates has recently changed. Weighted estimates for 28-day periods of antibody positivity are now presented, rather than monthly estimates. This approach will allow more frequent updates to be provided. Please note that these estimates cannot be directly compared with previously 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 22 December 2020 and 18 January 2021, 11.2% (95% **confidence interval**: 8.4% to 14.4%) 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 9 people (95% confidence interval: 1 in 12 to 1 in 7), or around 283,000 individuals in total (95% confidence interval: 214,000 to 365,000).

Chart 3 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 monthly antibodies prevalence, not cumulative exposure.

Chart 3: Estimated percentage of the population in Wales testing positive for coronavirus (COVID-19) antibodies, July to December 2020



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 7 July 2020 to 18 January 2021

Estimates for the countries of the UK

At the midpoint of the most recent week (24 to 30 January 2021) the highest estimated percentages of the community population with COVID-19 among the nations of the UK were in Northern Ireland (1.56%) and England (1.55%).

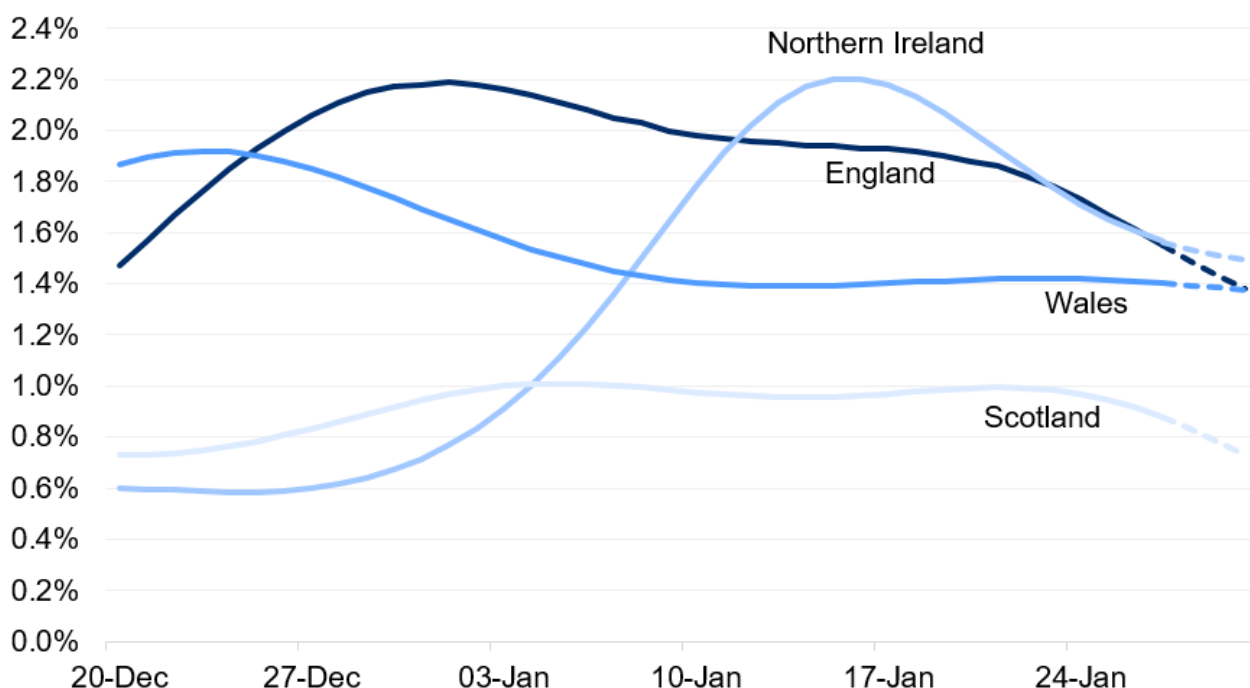
There is some uncertainty around the individual point estimates for the nations. Estimates for the last few days of the series, shown as dashed lines in the chart below, have more uncertainty.

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Chart 4: Estimates of the percentage of the population in the UK countries testing positive for the coronavirus (COVID-19) on nose and throat swabs since 20 December 2020



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 24 to 30 January 2021

Country	Positivity rates (95% Confidence Interval)		
Wales	1.40% (1.19 to 1.63)	1 in 70 people (1 in 85 to 1 in 60)	42,700 people (36,200 to 49,500)
England	1.55%	1 in 65 people	846,900 people

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Country	Positivity rates (95% Confidence Interval)		
	(1.48 to 1.63)	(1 in 70 to 1 in 60)	(806,500 to 886,700)
Scotland	0.88% (0.75 to 1.01)	1 in 115 people (1 in 135 to 1 in 100)	46,100 people (39,600 to 53,100)
Northern Ireland	1.56% (1.29 to 1.88)	1 in 65 people (1 in 80 to 1 in 55)	28,700 people (23,600 to 34,400)

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.

The sample for Wales is not yet large enough to support more detailed analysis than is provided here (headline figures for positivity and antibodies). Fieldwork has been scaled up, with the intention of delivering approximately 9,000 participants per fortnight. Currently, the expectation is that this will be reached by mid-March. Sample increases will enable more detailed analysis, which may include **incidence** (the number of new infections over a period of time) and analysis of the characteristics of people testing positive. The type of analysis that is possible will also depend on the underlying prevalence of the virus, with higher infection rates enabling more analysis and vice versa.

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.

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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](#).

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 the National Assembly. 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

12 February 2021

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