

Current level of influenza activity: *Low*

Influenza activity trend: *Stable*

Confirmed influenza cases since 2021 week 40: 774 (379 influenza A(H3N2), 48 influenza A(H1N1)pdm09, 296 influenza A(not subtyped) and 51 influenza B).

### Key points – Wales

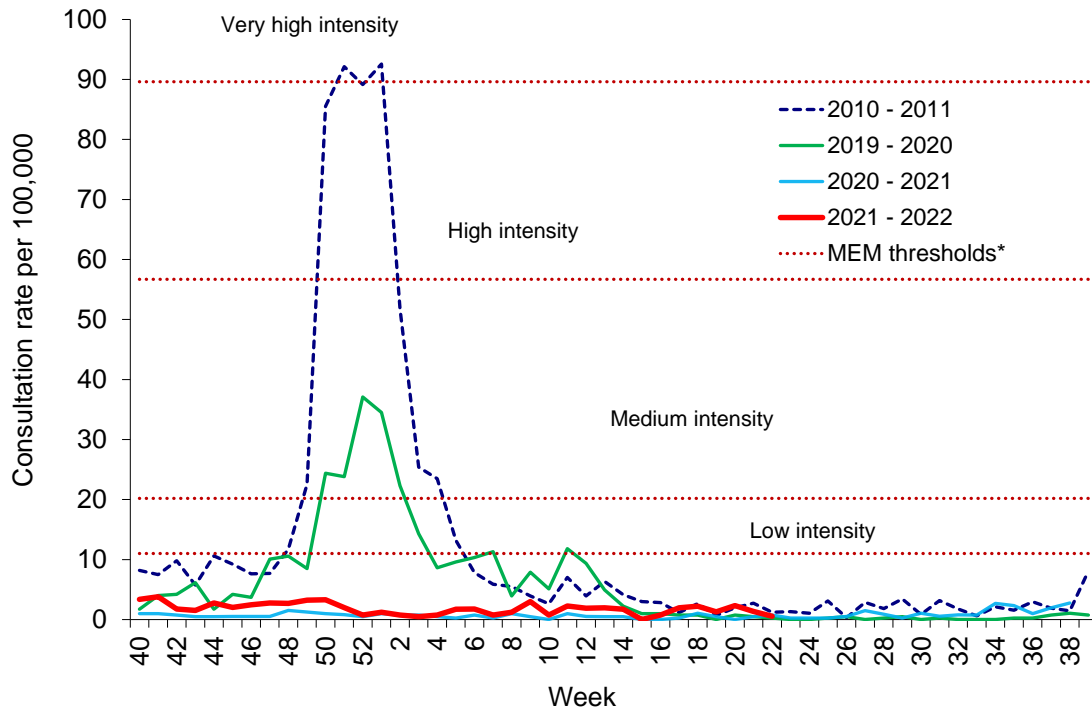
**Confirmed influenza case numbers have increased during April and May, and include community cases confirmed in sentinel GPs. This is later than usual seasonal activity, at low levels.**

During Week 22 (ending 05/06/2022) there were 11 cases of influenza confirmed. COVID-19 cases continue to be detected in symptomatic patients in hospital and in the community. There has been an earlier than usual start of seasonal RSV activity, with current incidence in children under 5 years of age at levels that would indicate medium levels of activity compared to the previous 10 years. Rhinovirus and parainfluenza are the most commonly detected cause of non-COVID-19 Acute Respiratory Infection (ARI), with increasing confirmed cases in recent weeks.

- The **Sentinel GP consultation rate for influenza-like illness (ILI)** in Wales during week 22 was 0.5 consultations per 100,000 practice population (Table 1). This decreased compared to the previous week (1.4 consultations per 100,000) and remains well below baseline threshold for seasonal influenza activity (11.0 per 100,000 practice population) (Figure 1). Caution should be used when comparing consultation rates from March 2020 onwards to previous periods due to the changes in health-seeking behaviours brought about by the COVID-19 pandemic.
- The **Sentinel GP consultation rate for Acute Respiratory Infections (ARI)** was 83.1 per 100,000 practice population during Week 22, this is a decrease compared to the previous week (137.3 per 100,000) (Table 2). Weekly consultations decreased for Lower Respiratory Tract Infections and for Upper Respiratory Tract Infections compared to the previous week.
- The percentage of calls to **NHS Direct Wales** which were 'influenza-related' (cold/flu, cough, fever, headache and sore throat) during Week 22 increased to 21.9% (Figure 8).
- During Week 22, 914 specimens received multiplex respiratory panel testing mainly from patients attending hospitals. These results do not include samples tested solely for SARS-CoV2. There were seven influenza (six influenza A(H3N2) and one influenza A(H1N1)pdm09), 40 RSV, 48 SARS-CoV2, 178 rhinoviruses, 68 parainfluenza, 51 adenoviruses, eight enteroviruses and two human metapneumoviruses detected in Week 22 (Figure 4). Additionally, 1,404 samples from patients were tested for influenza, RSV and SARS-CoV2 only, many of these tests may be associated with screening activities rather than diagnostic testing for patients presenting with ARI symptoms. Of these 1,404 samples, four were positive for untyped influenza A, seven were positive for RSV and 47 were positive for SARS-CoV2 (Figure 5). 72 respiratory specimens were tested from patients in intensive care units (ICU) and none were positive for influenza (Figure 6). For the latest COVID-19/ SARS-CoV2 surveillance data please see the [PHW daily dashboard](#)
- There were no surveillance samples from patients with ILI collected by **sentinel GPs** during Week 22 (as at 08/06/2022).
- **Confirmed RSV case incidence in children aged under 5 increased, but remains at the threshold that would usually indicate medium levels of circulation.** In week 22 there were 23.4 confirmed cases per 100,000 in this age group (Figure 7). The provisional MEM threshold in Wales which predicts the start of the annual RSV season in children younger than five years is 6.3 confirmed cases per 100,000.
- During Week 22, five **ARI outbreaks** were reported to the Public Health Wales Health Protection team, four were reported as COVID-19 outbreaks and one was reported as an influenza A outbreak. Three outbreaks were in residential homes and two were in a community, mixed or other setting .
- According to [EuroMoMo](#) analysis, all-cause deaths in Wales were not significantly in excess during week 21.

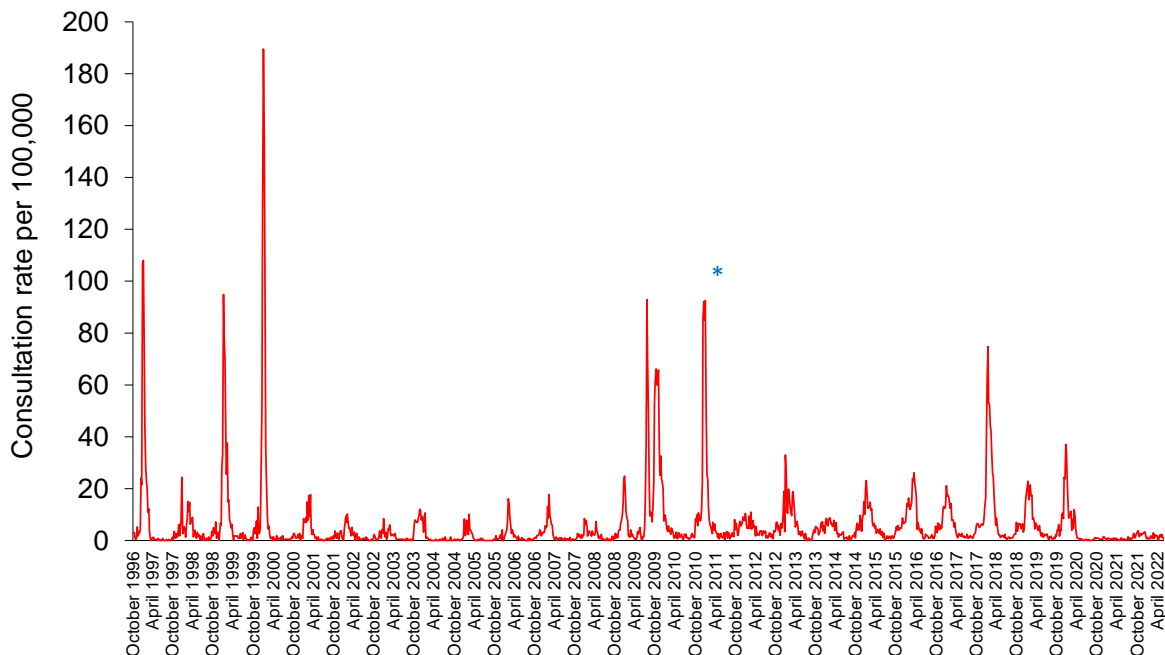
## Respiratory infection activity in Wales

**Figure 1. Clinical consultation rate for ILI per 100,000 practice population in Welsh sentinel practices (as of 05/06/2022).**



\* The Moving Epidemic Method (MEM) threshold calculated for Wales ILI consultation rates is 11.1 per 100,000. MEM thresholds used in this chart are based on influenza from 2010-11 to 2018-19 seasons. Caution should be used when comparing consultation rates from March 2020 onwards to previous periods due to the changes in health-seeking behaviours brought about by the COVID-19 pandemic.

**Figure 2. Clinical consultation rate for ILI per 100,000 practice population in Welsh sentinel practices (week 48 1996 – week 22 2022).**



\* Reporting changed to Audit+ surveillance system

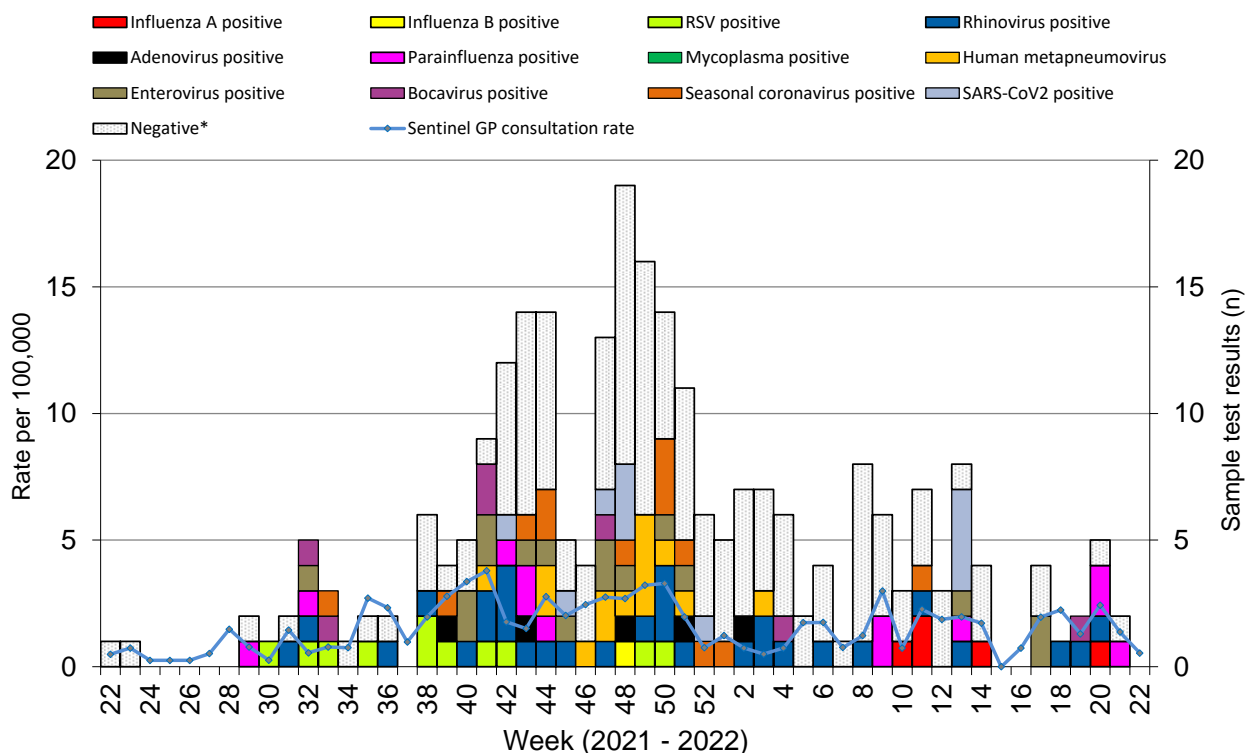
**Table 1. Age-specific consultations (per 100,000) for ILI in Welsh sentinel practices, week 17 – week 22 2022 (as of 05/06/2022).**

| Age group    | 17         | 18         | 19         | 20         | 21         | 22         |
|--------------|------------|------------|------------|------------|------------|------------|
| < 1          | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 1 - 4        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 5 - 14       | 0.0        | 0.0        | 0.0        | 0.0        | 2.5        | 0.0        |
| 15 - 24      | 6.6        | 2.2        | 4.7        | 2.3        | 0.0        | 0.0        |
| 25 - 34      | 1.9        | 2.0        | 0.0        | 10.3       | 2.2        | 0.0        |
| 35 - 44      | 2.0        | 0.0        | 2.1        | 4.2        | 2.2        | 0.0        |
| 45 - 64      | 0.0        | 2.8        | 1.0        | 0.0        | 2.1        | 2.0        |
| 65 - 74      | 2.2        | 6.6        | 2.3        | 0.0        | 0.0        | 0.0        |
| 75+          | 4.6        | 2.3        | 0.0        | 2.4        | 0.0        | 0.0        |
| <b>Total</b> | <b>2.0</b> | <b>2.2</b> | <b>1.3</b> | <b>2.3</b> | <b>1.4</b> | <b>0.5</b> |

**Table 2. Age-specific consultations (per 100,000) for ARI in Welsh sentinel practices, week 17 – week 22 2022 (as of 05/06/2022).**

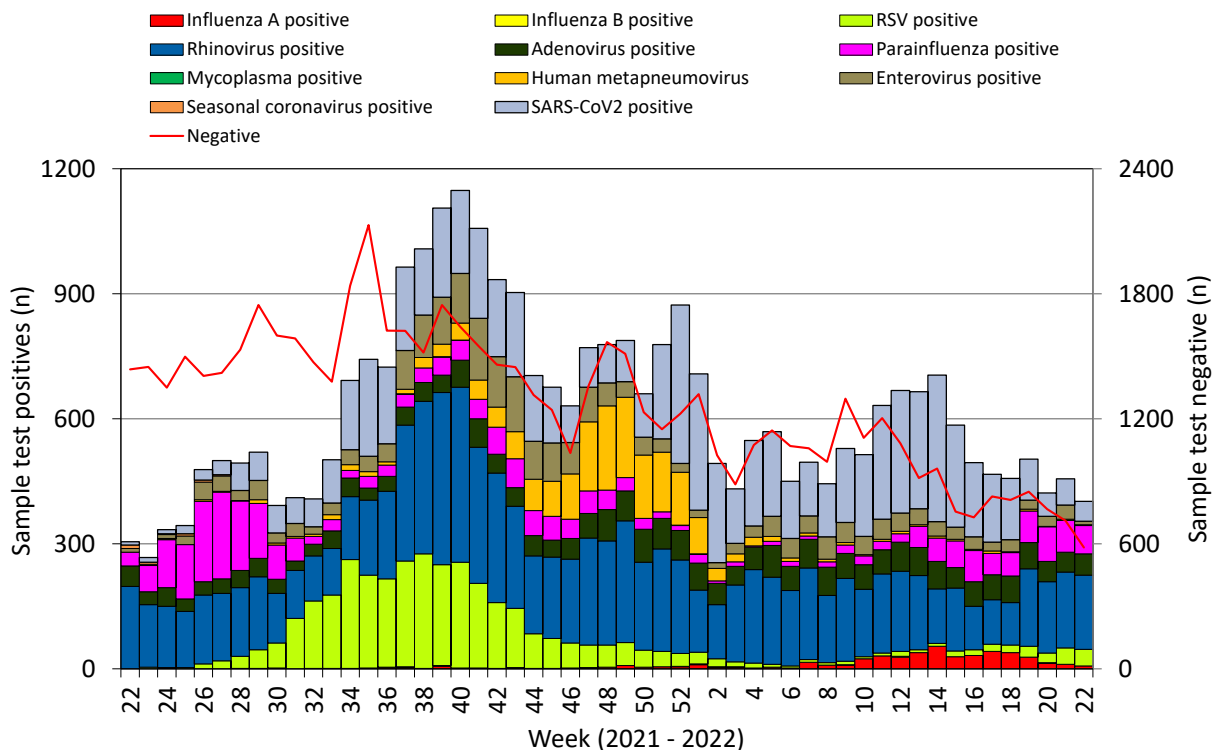
| Age group    | 17           | 18           | 19           | 20           | 21           | 22          |
|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
| < 1          | 728.3        | 475.7        | 563.5        | 1056.8       | 1098.9       | 560.6       |
| 1 - 4        | 418.4        | 484.9        | 453.6        | 684.7        | 740.3        | 290.7       |
| 5 - 14       | 115.6        | 135.2        | 119.8        | 175.0        | 186.9        | 90.9        |
| 15 - 24      | 161.5        | 109.8        | 90.9         | 130.6        | 114.8        | 84.7        |
| 25 - 34      | 120.5        | 109.9        | 119.8        | 115.6        | 93.7         | 80.3        |
| 35 - 44      | 118.5        | 75.8         | 64.9         | 110.9        | 96.7         | 57.0        |
| 45 - 64      | 120.2        | 101.3        | 82.0         | 100.5        | 87.7         | 66.4        |
| 65 - 74      | 158.6        | 110.1        | 93.8         | 98.4         | 77.3         | 76.9        |
| 75+          | 114.7        | 120.6        | 110.9        | 79.5         | 124.4        | 53.4        |
| <b>Total</b> | <b>143.4</b> | <b>123.8</b> | <b>111.3</b> | <b>141.1</b> | <b>137.3</b> | <b>83.1</b> |

**Figure 3. Specimens submitted for virological testing by sentinel GPs as of 05/06/2022, by week of sample collection, week 22 2021 to week 22 2022.**



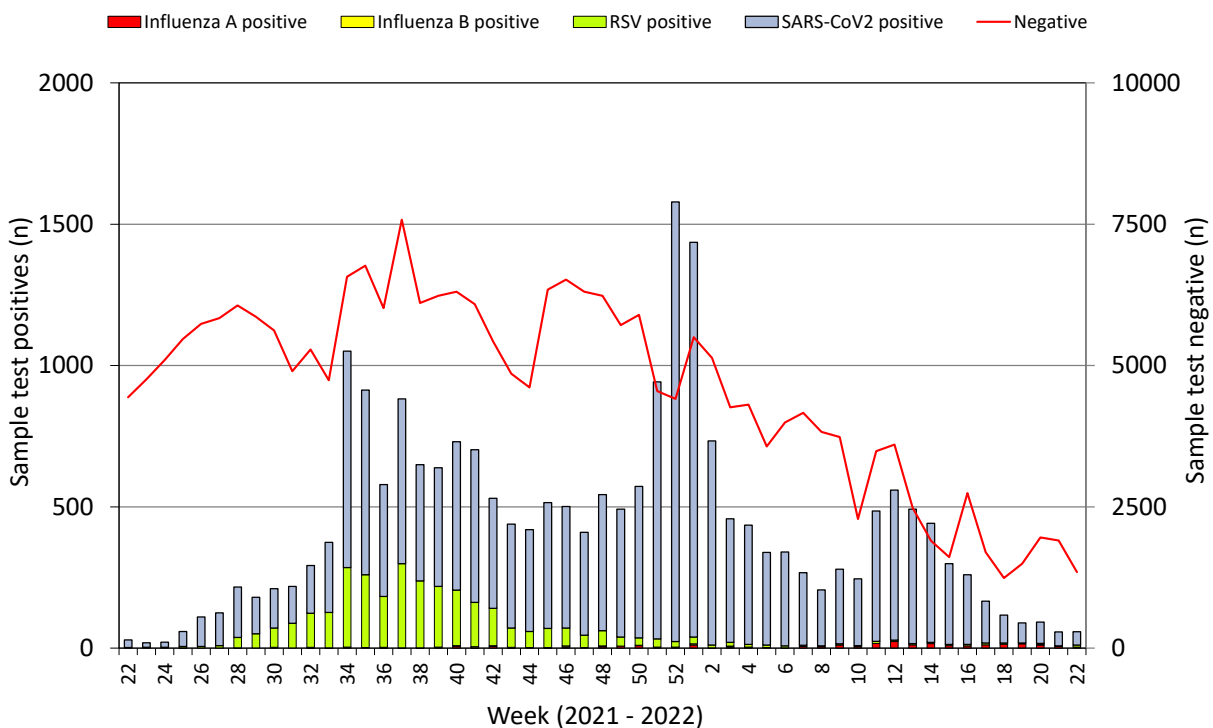
\* Tested negative for influenza, adenovirus, rhinovirus, RSV, parainfluenza, mycoplasma, human metapneumovirus, enterovirus, bocavirus and coronaviruses. Samples which test positive for more than one pathogen will appear more than once in the chart.

**Figure 4. Specimens submitted for virological testing for hospital patients and non-sentinel GPs as of 05/06/2022 by week of sample collection, week 22 2021 to week 22 2022.**

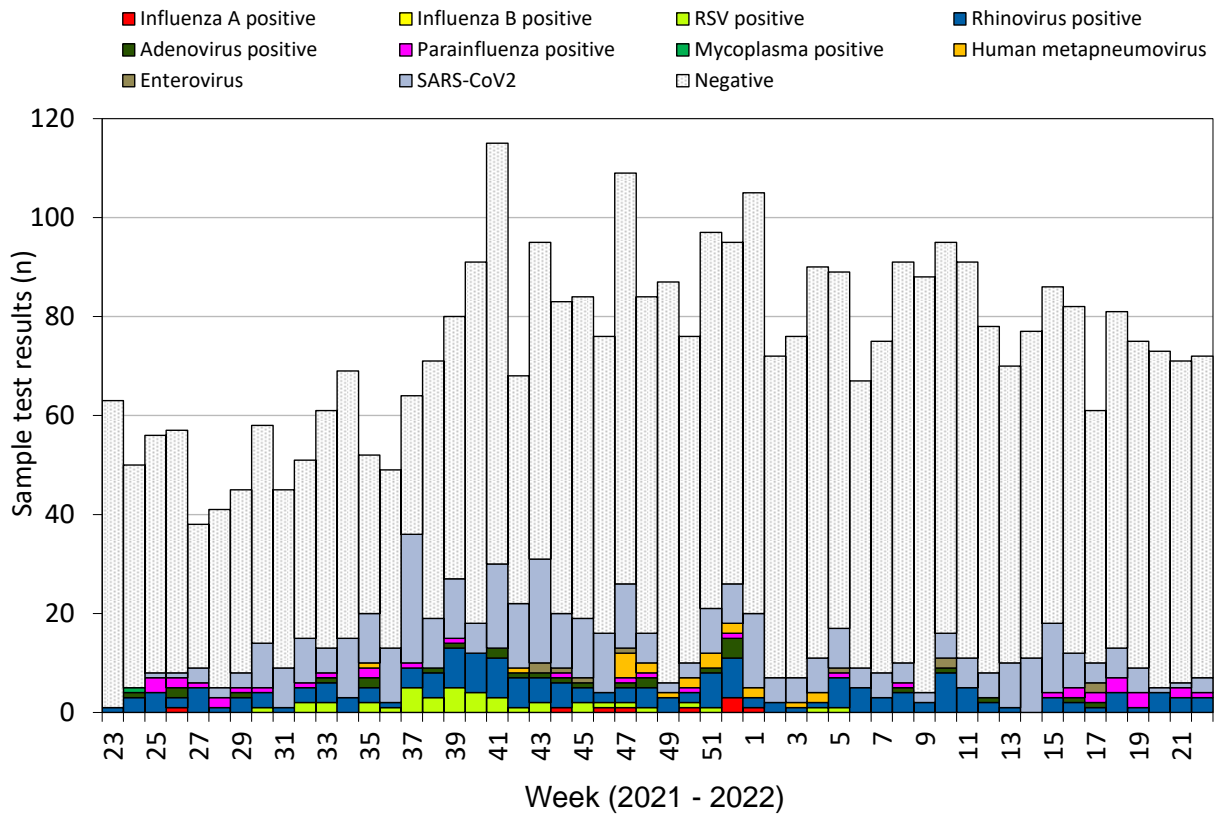


This chart summarises respiratory panel test data and does not include data for patients tested SOLELY for SARS-CoV2. Combined data for tests carried out in Public Health Wales Microbiology: Cardiff laboratory, provided by Public Health Wales Microbiology Cardiff Specialist Virology Centre. This chart summarises individual test results, patients who are positive for multiple infections within a given week will appear multiple times. Samples which test positive for more than one pathogen will appear more than once in the chart.

**Figure 5. Specimens from hospital patients submitted for RSV, Influenza and SARS-CoV2 testing only, as of 05/06/2022 by week of sample collection, week 22 2021 to week 22 2022.**

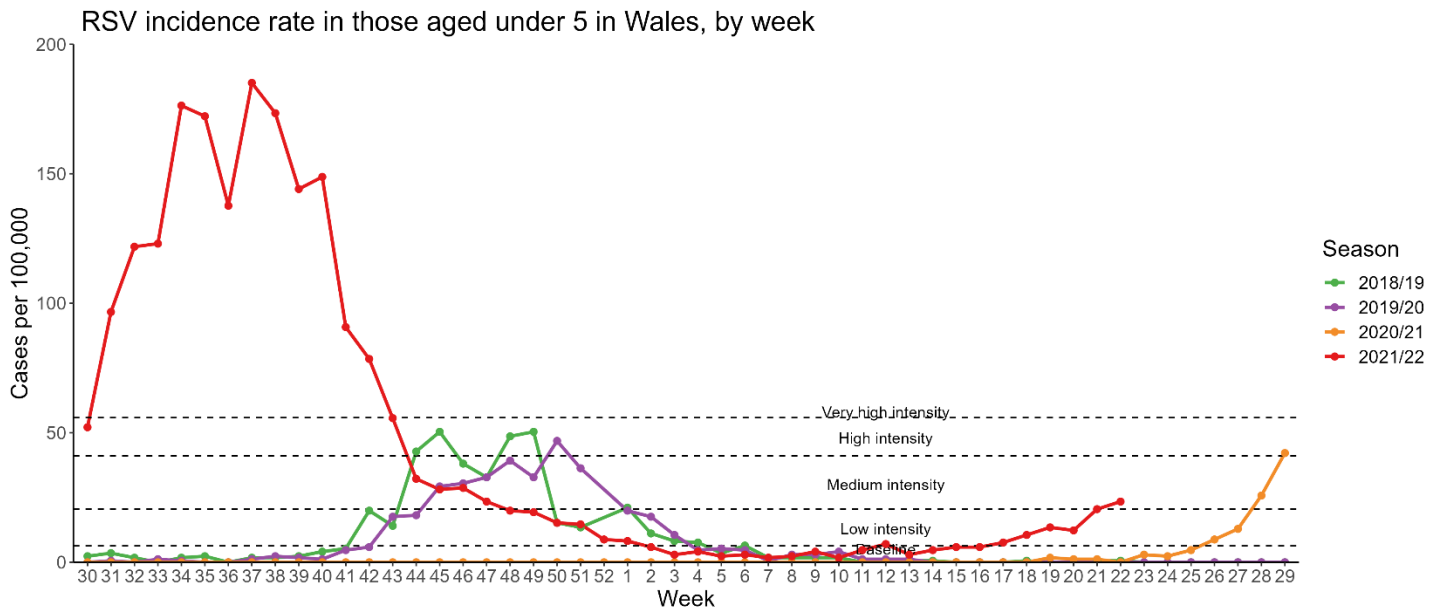


**Figure 6. Specimens submitted for virological testing for ICU patients, by week of sample collection, week 23 2021 to Week 22 2022.**



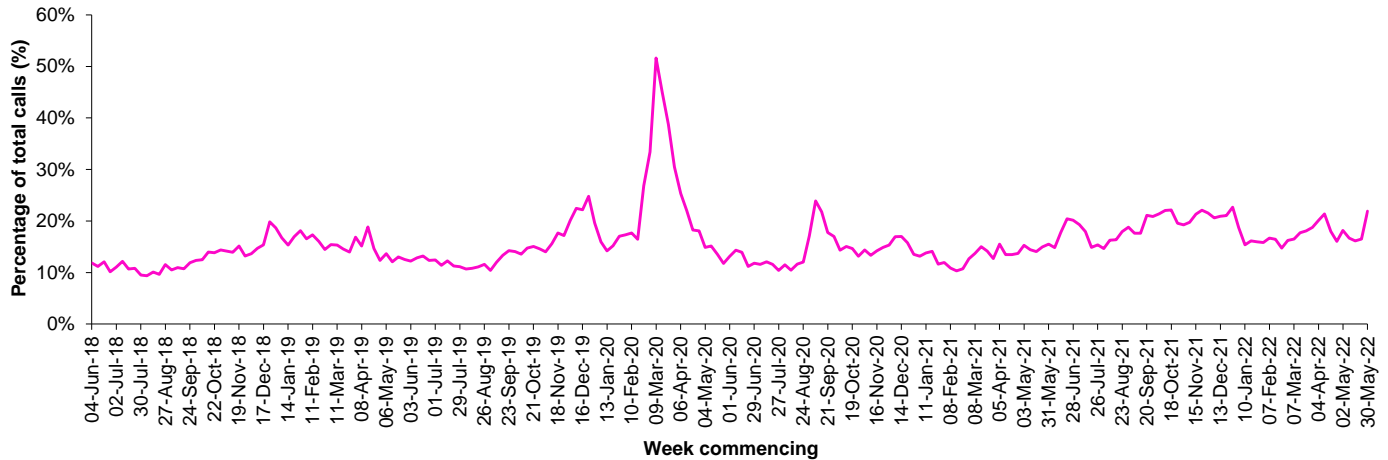
This chart summarises respiratory panel test data and does not include data for patients tested SOLELY for SARS-CoV2. Samples which test positive for more than one pathogen will appear more than once in the chart.

**Figure 7. RSV incidence rate per 100,000 population aged under five years, week 30 2017 to Week 22 2022.**



## Calls to NHS Direct Wales

**Figure 8. Influenza related calls to NHS Direct Wales<sup>1</sup> (as a percentage of total calls) from week 22 2018 - Week 22 2022 (as of 05/06/2022).**



<sup>1</sup> Data supplied by Health Statistics and Analysis Unit, Welsh Government.

Flu related calls are the sum of calls recorded as 'cold/flu', 'cough', 'headache', 'fever' and 'sore throat'. Following changes to the NHS Direct calls system, including the start of the 111 pilot, there has been a change in the way in which denominator data are calculated for this chart, NHS Direct Wales now count the total number of nurse triaged calls (ie calls which could have symptom data recorded against them), note that 111 includes out-of-hours calls.

## Influenza Vaccine Uptake in Wales

**Table 3. Uptake of influenza immunisations in GP Practice patients, school children and NHS staff in Wales 2021/22 (as of 26/04/2022).**

| Influenza immunisation uptake in the 2021/22 season |       |
|---|-------|
| People aged 65y and older                           | 78.0% |
| People younger than 65y in a clinical risk group    | 48.2% |
| Children aged two & three years                     | 47.6% |
| Children aged four to ten years*                    | 68.7% |
| Children aged 11 to 15 years*                       | 58.2% |
| NHS staff   | 56.0% |
| NHS staff who have direct patient contact           | 57.2% |

\* In school sessions carried out so far.

The end of season report Influenza in Wales 2019/20 is available to download and contains a full breakdown of vaccination uptake amongst eligible groups.

Link to report: <http://www.wales.nhs.uk/sites3/page.cfm?orgid=457&pid=55714>

## Influenza activity – UK and international summary

- As of week 21, community and syndromic influenza indicators remain low in the UK. GP ILI consultations increased in Northern Ireland to 1.0 per 100,000 and in Scotland to 0.7 per 100,000 - well below the baseline intensity thresholds. The weekly ILI GP consultation rate in England reported through the RCGP system decreased to 1.2 per 100,000, well below the MEM threshold for baseline activity (12.2 per 100,000).
- During week 21, 53 samples tested positive for influenza (including eight influenza A(H3N2), five influenza A(H1N1)pdm09, 36 influenza A(not subtyped) and four influenza B). UK summary data are available from the [UKHSA Influenza and COVID-19 Surveillance Report](#).
- The WHO and the European Centre for Disease Prevention and Control (ECDC) reported that during week 20, influenza activity continues to be reported in some countries in the WHO European Region. During week 20, a total of 1,034 sentinel specimens were tested for influenza, 77 of which were positive, 72 influenza A (60 influenza A(H3), two influenza A(H1)pdm09 and 10 influenza A(not subtyped)) and five influenza B.  
**Source:** Flu News Europe: <http://www.flunewseurope.org/>
- The WHO reported on 30/05/2022 that globally, influenza activity continued to decrease, following a peak in March 2022. In the temperate zones of the northern hemisphere, influenza activity decreased or remained stable. In the temperate zones of the southern hemisphere, influenza activity remained low overall, except in Argentina and Chile. In North America, influenza activity was stable and influenza positivity was higher than usual for this time of year. In Europe, influenza activity continues to decline, with influenza A(H3N2) predominant. In Central Asia, no influenza detections were reported. In East Asia, influenza activity increased in the Southern Provinces of China, but remained low in the rest of the subregion. In Northern Africa, Tunisia reported a single influenza A(H3N2) detection. In Western Asia, influenza activity was low across most reporting countries. In the Caribbean and Central American countries, low influenza activity was reported with influenza A(H3N2) predominant. In tropical South America, low influenza activity was reported with influenza A(H3N2) predominant. In tropical Africa, influenza activity remained low. In Southern Asia, influenza virus detections were at low levels overall. In South-East Asia, sporadic detections of influenza were reported in Singapore and Malaysia.
- Based on FluNet reporting (as of 27/05/2022), during the time period from 02/05/2022 – 15/05/2022, National Influenza Centres and other national influenza laboratories from 111 countries, areas or territories reported influenza surveillance data. The WHO Global Influenza Surveillance and Response System laboratories tested more than 224,033 specimens during that time period, 23,784 were positive for influenza viruses, of which 23,393 were typed as influenza A (of the subtyped influenza A viruses, 153 were influenza A(H1N1)pdm09 and 3,427 were influenza A(H3N2)) and 394 influenza B (of the characterised influenza B viruses none belonged to B-Yamagata lineage and 129 belonged to the B-Victoria lineage).  
**Source:** WHO influenza update: <https://www.who.int/teams/global-influenza-programme/surveillance-and-monitoring/influenza-updates/current-influenza-update>

## Update on influenza activity in North America

- The USA Centers for Disease Control and Prevention (CDC) report that during week 21 (ending 28/05/2022) seasonal influenza viruses continue to circulate, and activity is increasing in some parts of the United States. Nationally, 3,246 (5.7%) out of 57,383 specimens have tested positive for influenza in week 21, of these positives 3,228 (99.4%) were influenza A and 18 (0.6%) were influenza B. Further characterisation has been carried out on 13,172 specimens by public health laboratories, and 240 samples tested positive for influenza, all influenza A (129 influenza A(H3N2) and 111 influenza A(not subtyped)).  
**Source:** CDC Weekly US Influenza Surveillance Report: <http://www.cdc.gov/flu/weekly/>
- The Public Health Agency of Canada reported that during week 21, influenza activity continues to decrease but remains above the epidemic threshold. The percentage of visits to healthcare professionals that were due to ILI was 1.6% in week 21. The percentage of tests positive for influenza was 9.7% during week 21.  
**Source:** Public Health Agency of Canada: <https://www.canada.ca/en/public-health/services/diseases/flu-influenza/influenza-surveillance/weekly-influenza-reports.html>

## Respiratory syncytial virus (RSV) in North America

- The USA CDC has reported an out of season increase in RSV activity, with an increase in sample positivity since early March 2021, but has continued to see a downward trend in recent weeks.  
**Source:** CDC RSV national trends: <https://www.cdc.gov/surveillance/nrevss/rsv/natl-trend.html>

## COVID-19 – UK and international summary

- As at 02/06/2022, the new positive PCR episodes for the most recent 7-day reporting period were nine per 100,000 population. There were 12 suspected COVID-19 deaths with a date of death in the most recent 7-day reporting period reported to Public Health Wales. There were 17 COVID-19 death registrations in the last reporting period provided by ONS. Latest COVID-19 data from Public Health Wales is available from: <https://phw.nhs.wales/topics/latest-information-on-novel-coronavirus-covid-19/>
- As at 07/06/2022, there have been 22,238,713 reported confirmed cases of COVID-19 in the UK, of which 57,615 were newly reported in the previous 7 days. The total deaths within 28 days of a positive test was 177,977. Latest UK data is available from: <https://coronavirus.data.gov.uk/>
- As at 07/06/2022, WHO have reported 530,266,292 confirmed COVID-19 cases globally, with 204,539 reported in the previous 24 hours. There have been 6,299,364 deaths, of which 677 were reported in the previous 24 hours. Daily WHO situation updates are available from: <https://covid19.who.int/>

## Middle East respiratory syndrome coronavirus (MERS-CoV) – latest update from WHO and ECDC

- On 28/04/2022 WHO reported an additional case of Middle East Respiratory Syndrome coronavirus (MERS-CoV). Globally, 2,591 laboratory confirmed cases of human infection with MERS-CoV, including 894 associated deaths, have officially been reported to WHO since 2012.  
Source: WHO Global Alert and Response website: <https://www.who.int/emergencies/disease-outbreak-news>
- The majority of the MERS cases continue to be reported from the Middle East, and specifically from Saudi Arabia. Rapid risk assessments of the situation from ECDC, which contain epidemiological updates and advice for travellers and healthcare workers, are available from: <https://ecdc.europa.eu/en/middle-east-respiratory-syndrome-coronavirus>
- Further updates and advice for healthcare workers and travellers are available from WHO: <http://www.who.int/emergencies/mers-cov/en/> and from NaTHNaC: <https://travelhealthpro.org.uk/news/237/mers-cov-update-travelhealthpro-country-pages>

## Human infection with avian influenza A(H7N9), China

- The latest WHO Influenza at Human-Animal Interface summary (08/04/2022 to 13/05/2022) reports that there have been no publicly available reports from China or other countries on influenza A(H7N9) in recent months. Since February 2013, a total of 1,568 laboratory-confirmed cases of human infection with avian influenza A(H7N9), including at least 616 deaths, have been reported:  
<https://www.who.int/teams/global-influenza-programme/avian-influenza/monthly-risk-assessment-summary>  
[http://www.fao.org/ag/againfo/programmes/en/empres/H7N9/Situation\\_update.html](http://www.fao.org/ag/againfo/programmes/en/empres/H7N9/Situation_update.html)
- The risk of international spread of avian influenza A(H7N9) is considered to be low at present. However, it is important that clinicians are aware of the possibility of human infection with animal influenza, in persons presenting with severe acute respiratory disease, while travelling or soon after returning from an area where avian influenza is a concern. WHO Global Alert & Response updates: <https://www.who.int/emergencies/disease-outbreak-news>



**Links:**

**Public Health Wales influenza surveillance webpage:**

<http://www.wales.nhs.uk/sites3/page.cfm?orgid=457&pid=25480>

**Public Health Wales COVID-19 data dashboard:**

<https://public.tableau.com/profile/public.health.wales.health.protection#!/vizhome/RapidCOVID-19virology-Public/Headlinesummary>

**GP Sentinel Surveillance of Infections Scheme:**

<http://www.wales.nhs.uk/sites3/page.cfm?orgid=457&pid=27918>

**NICE influenza antiviral usage guidance:**

<http://www.nice.org.uk/Guidance/TA158>

**Wales influenza information:**

<https://phw.nhs.wales/topics/flu/>

**England influenza and COVID-19 surveillance:**

<https://www.gov.uk/government/statistics/national-flu-and-covid-19-surveillance-reports>

**Scotland seasonal respiratory surveillance:**

<https://beta.isdscotland.org/find-publications-and-data/population-health/covid-19/weekly-national-seasonal-respiratory-report/>

**Northern Ireland influenza surveillance:**

<https://www.publichealth.hscni.net/directorate-public-health/health-protection/seasonal-influenza>

**European Centre for Communicable Disease:**

<http://ecdc.europa.eu/>

**European influenza information:**

<http://flunewseurope.org/>

**Advice on influenza immunisation (for NHS Wales users)**

<http://nww.immunisation.wales.nhs.uk/home>

For further information on this report, please email Public Health Wales using: [surveillance.requests@wales.nhs.uk](mailto:surveillance.requests@wales.nhs.uk)