

**Current level of influenza activity: Low**

**Influenza activity trend: Stable**

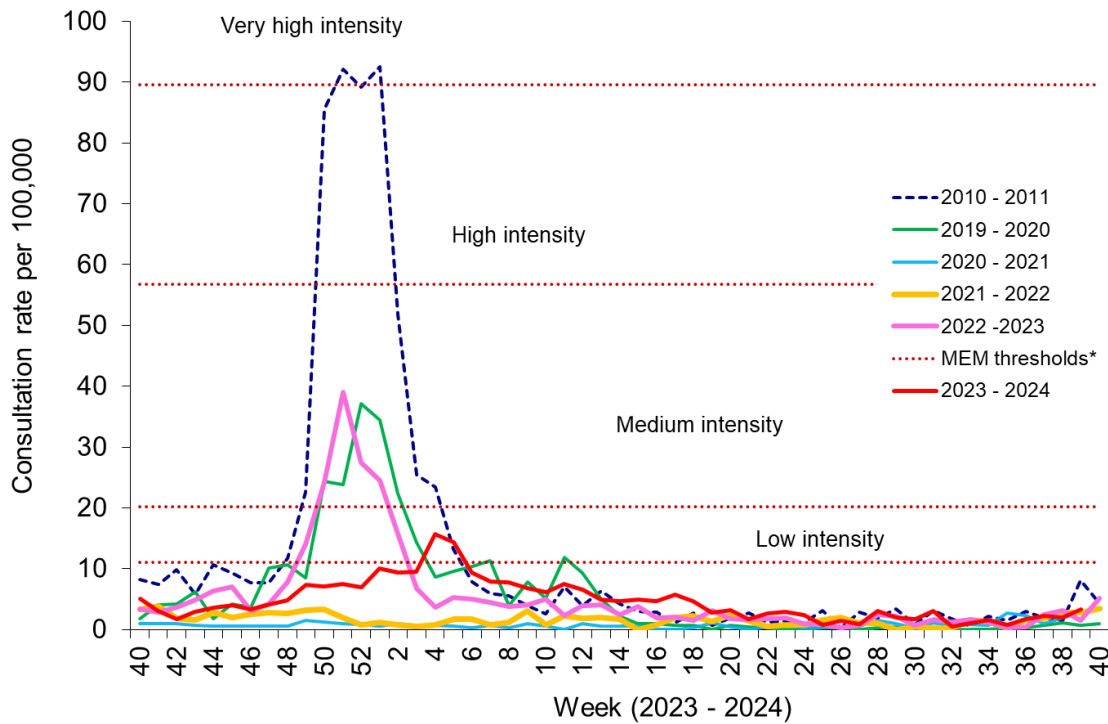
**Confirmed influenza cases since 2023 Week 40: 4744** (535 influenza A(H3N2), 1040 influenza A(H1N1)pdm09, 2556 influenza A untyped and 613 influenza B)

**During Week 39 (ending 29/09/2024) there were 17 cases of influenza confirmed. Influenza is not currently circulating in Wales. RSV incidence in children under 5 has increased but remains at low intensity levels.**

- The **Sentinel GP consultation rate for influenza-like illness (ILI)** in Wales during Week 39, was 3.3 consultations per 100,000 practice population (Table 1). The rate increased compared to the previous week (1.9 consultations per 100,000. Figure 1).
- The **Sentinel GP consultation rate for Acute Respiratory Infections (ARI)** was 161.4 per 100,000 practice population during Week 39 (Table 2 and Figure 3). This is an increase compared to the previous week (125.4 per 100,000). During week 39, Lower Respiratory Tract Infections increased to 55.9 per 100,000 and Upper Respiratory Tract Infections increased to 106.7 per 100,000 compared to the previous week.
- During Week 39, 939 specimens received multiplex respiratory panel testing from patients attending hospitals. **Five tested positive for influenza (one influenza A(H1N1), two influenza A(untyped), and two influenza B).** Overall influenza test-positivity decreased to 0.5% from 1.4%. In those aged under 18 positivity increased to 1.4% from 1.1%, and in those aged over 18 decreased to 0.2% from 0.6%. In addition, there were: 183 rhinovirus, 118 SARS-CoV-2, 32 enterovirus, 32 adenovirus, nine parainfluenza, 15 RSV, three mycoplasma, eight human metapneumovirus, and five seasonal coronavirus positive samples (Figure 5). Additionally, 473 samples from patients were tested for influenza, RSV and SARS-CoV-2 only. Of these 473 samples there were **ten influenza A, one influenza B**, six RSV and 103 SARS-CoV-2 positive samples (Figure 7). Furthermore, during week 39, 57 respiratory specimens were tested from patients in intensive care units (ICU) of which none were positive for influenza (Figure 8).
- There were 78 surveillance samples from patients with ILI symptoms collected by **sentinel GPs and community pharmacies** during Week 39. Of the 78 samples, 20 tested positive for rhinovirus, ten for SARS-CoV-2, four for enterovirus, three for adenovirus, two for mycoplasma, **one for influenza A(H1N1)**, one for RSV and one for seasonal coronaviruses as at 02/10/2024 (Figure 4).
- From all samples where influenza subtyping information was immediately available during week 39, two were influenza A(H1N1), two influenza A(untyped), two A(H1N1) and two influenza B (Figure 6). *Additional typing is carried out on all confirmed influenza A samples where typing results are not available from first-line testing, the additional information from these tests will be added to case totals after the end of the season.*
- **Confirmed RSV case incidence in children aged under 5 increased to 13.0 per 100,000 and is at low intensity levels.** The baseline MEM threshold of 6.3 per 100,000 (the baseline MEM threshold is used to identify the start of RSV seasons in Wales compared to levels before 2021, Figure 9).
- The 7-day rolling sums of cases hospitalised within 28 days of an influenza or RSV positive test result in the community (or up to two days post-admission) were six and three respectively during Week 39 (Figures 10 & 11) and 66 for SARS-CoV-2 during week 39 (Figure 12).
- During week 39, seven **ARI outbreaks** were reported to the Public Health Wales Health Protection Team of which all were SARS-CoV-2. All outbreaks were in residential care homes.
- According to [EuroMoMo](#) analysis, all-cause deaths in Wales were not in excess during week 38.
- As at 23/04/2024, uptake of influenza vaccination was 72.5% in adults aged 65 years and older, 39.1% in those aged 6 months to 64 years at clinical risk, 42.8% in two and three-year-old children, 61.9% in children aged four to 10 years and 49.7% in children aged 11 to 15 years (Table 3) (latest data available).

## Respiratory infection activity in Wales

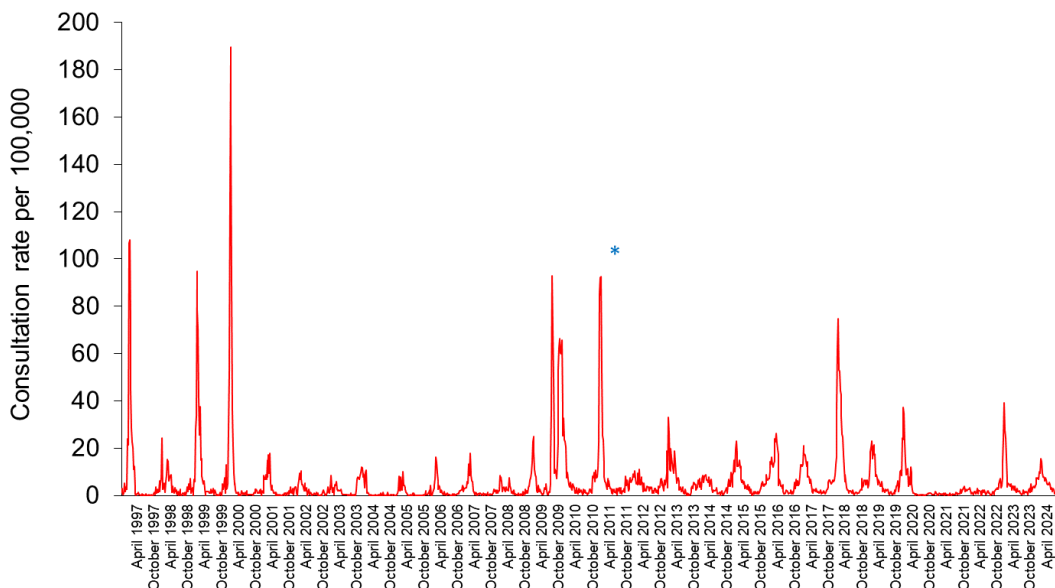
**Figure 1. Clinical consultation rate for ILI per 100,000 practice population in Welsh sentinel practices (as of 29/09/2024)**



\* 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.

\*\*Clinical consultations for ILI seasons are monitored from W40 to W40, the most recent data is presented in red.

**Figure 2. Clinical consultation rate for ILI per 100,000 practice population in Welsh sentinel practices (Week 50 1996 – Week 39 2024)**



\* Reporting changed to Audit+ surveillance system

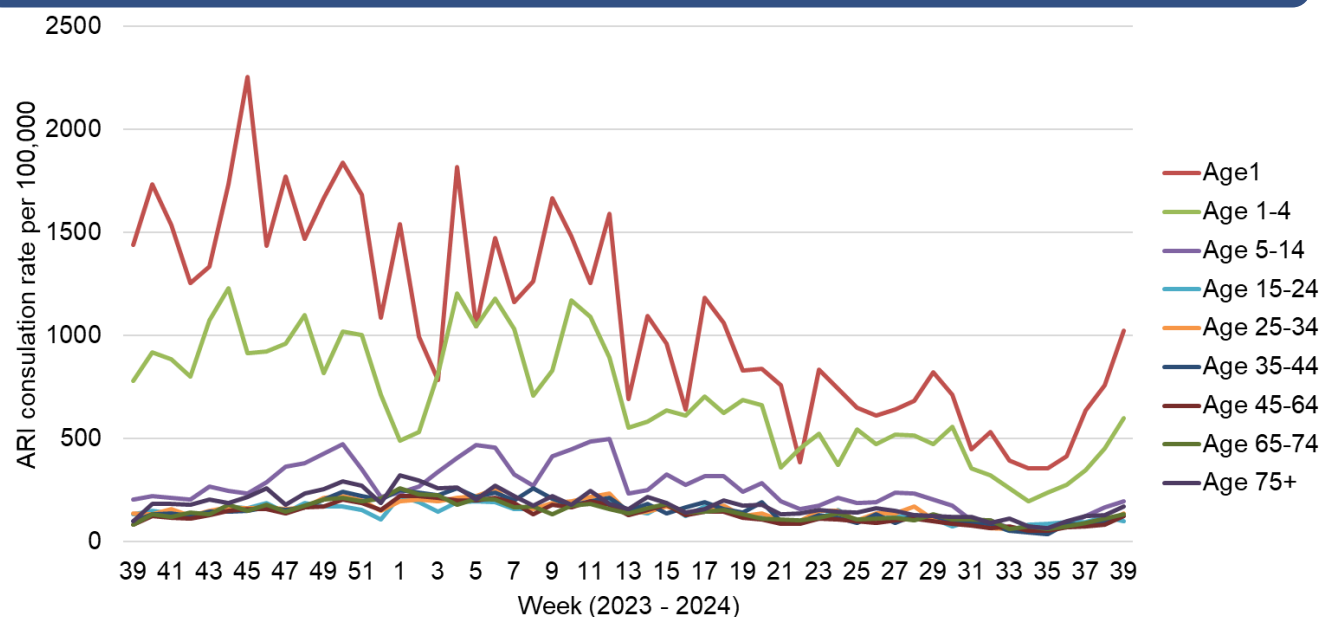
**Table 1. Age-specific consultations (per 100,000) for ILI in Welsh sentinel practices, Week 34– Week 39 2024 (as of 29/09/2024).**

Age group	34	35	36	37	38	39
< 1	0.0	32.3	0.0	0.0	0.0	0.0
1 - 4	0.0	0.0	0.0	28.8	0.0	6.8
5 - 14	0.0	0.0	0.0	0.0	0.0	4.4
15 - 24	0.0	0.0	6.4	2.2	6.5	0.0
25 - 34	2.1	0.0	0.0	4.0	2.0	5.7
35 - 44	2.0	0.0	3.6	3.8	3.7	3.6
45 - 64	2.0	0.0	0.9	0.0	1.9	2.7
65 - 74	4.7	2.2	2.1	0.0	0.0	2.1
75+	0.0	2.1	0.0	0.0	0.0	4.2
<b>Total</b>	<b>1.6</b>	<b>0.7</b>	<b>1.7</b>	<b>2.3</b>	<b>1.9</b>	<b>3.3</b>

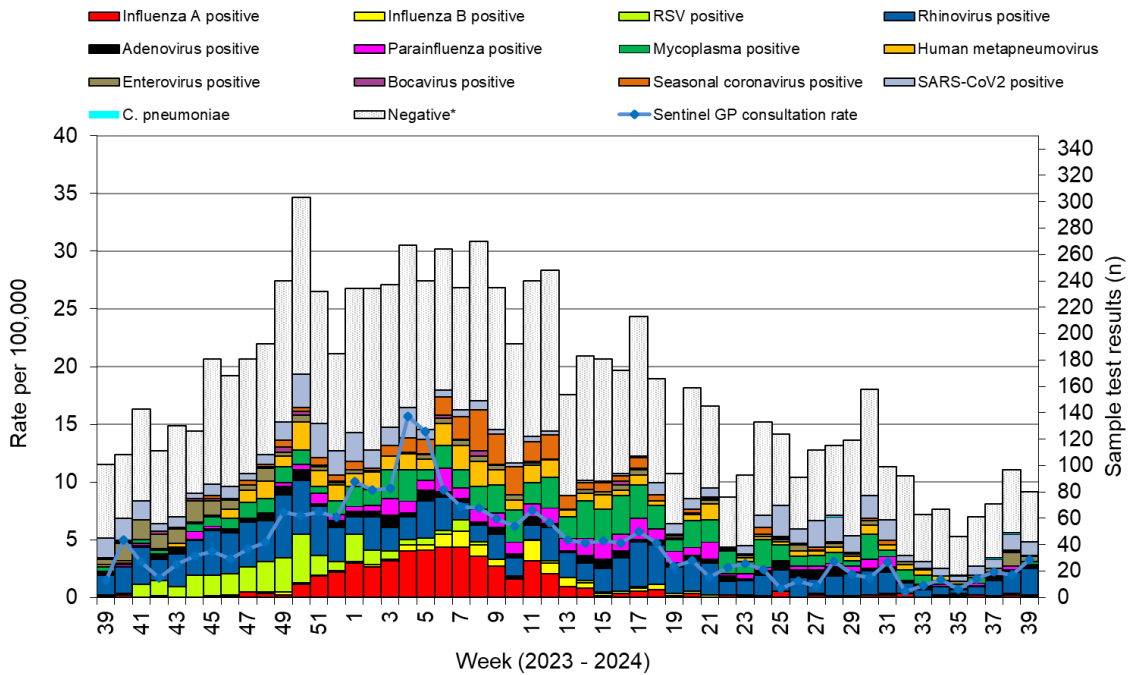
**Table 2. Age-specific consultations (per 100,000) for ARI in Welsh sentinel practices, Week 34 – Week 39 2024 (as of 29/09/2024).**

Age group	34	35	36	37	38	39
< 1	355.1	354.8	413.2	637.8	757.8	1025.3
1 - 4	198.9	240.2	277.0	346.0	454.7	600.8
5 - 14	62.4	58.2	81.5	125.6	166.6	198.2
15 - 24	82.1	88.6	97.5	96.1	120.8	100.8
25 - 34	67.9	53.9	79.6	78.3	89.8	140.0
35 - 44	46.9	38.3	88.0	84.4	98.6	127.5
45 - 64	55.4	55.0	73.0	76.7	84.3	125.2
65 - 74	73.4	62.9	74.4	91.8	111.1	131.9
75+	75.7	68.2	102.3	124.0	129.0	170.8
<b>Total</b>	<b>71.0</b>	<b>67.8</b>	<b>92.5</b>	<b>105.8</b>	<b>125.5</b>	<b>161.4</b>

**Figure 3. Age-specific consultations (per 100,000) for ARI in Welsh sentinel practices, Week 39 2023 – Week 39 2024.**

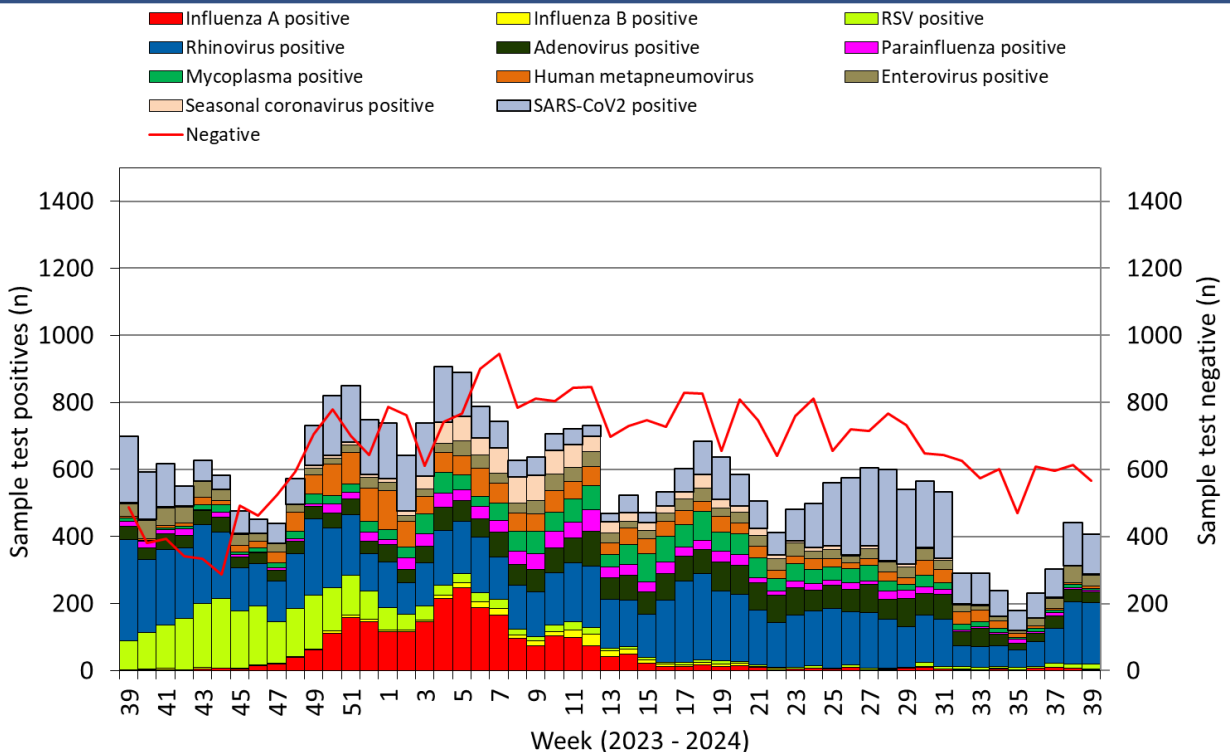


**Figure 4. Specimens submitted for virological testing by sentinel GPs and community pharmacies as of 29/09/2024, by week of sample collection, Week 39 2023 to Week 39 2024.**



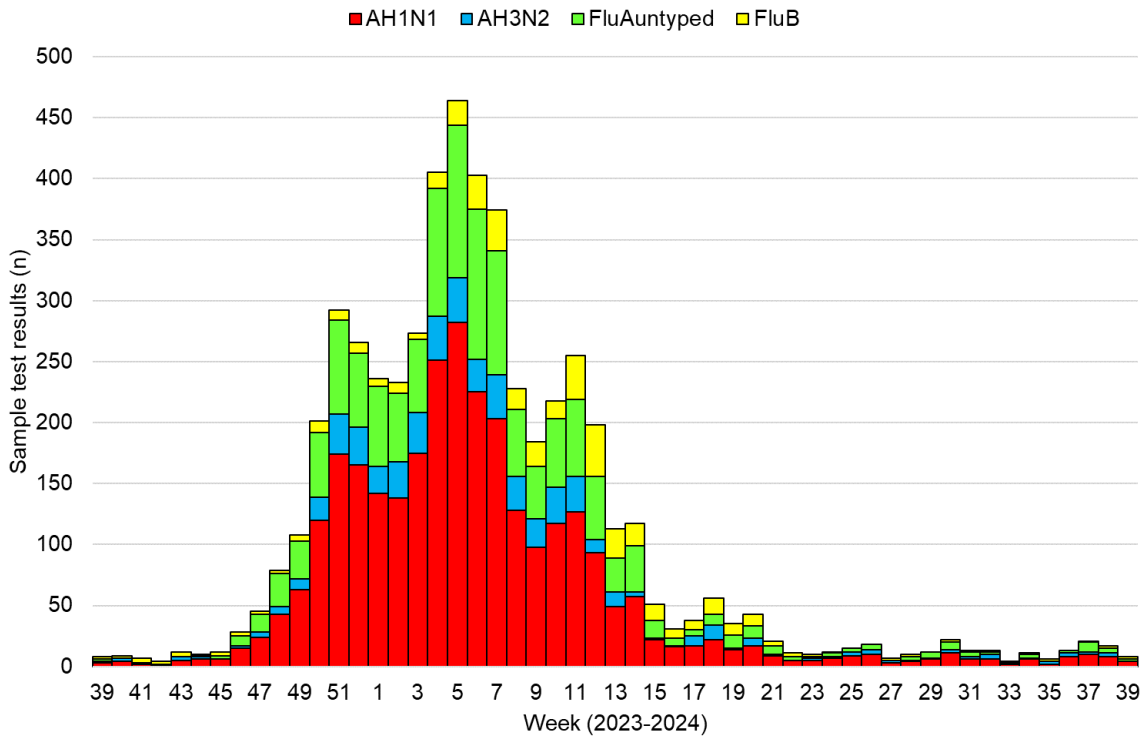
\* Tested negative for influenza, adenovirus, rhinovirus, RSV, parainfluenza, mycoplasma, human metapneumovirus, enterovirus, bocavirus and coronaviruses. Samples which test positive for more than one pathogen will appear more than once in the chart. **Results for the latest week will underestimate activity as not all samples will have been received, tested, and authorised at time of writing this report.**

**Figure 5. Specimens submitted for virological testing for hospital patients and non-sentinel GPs as of 29/09/2024 by week of sample collection, Week 39 2023 to Week 39 2024.**

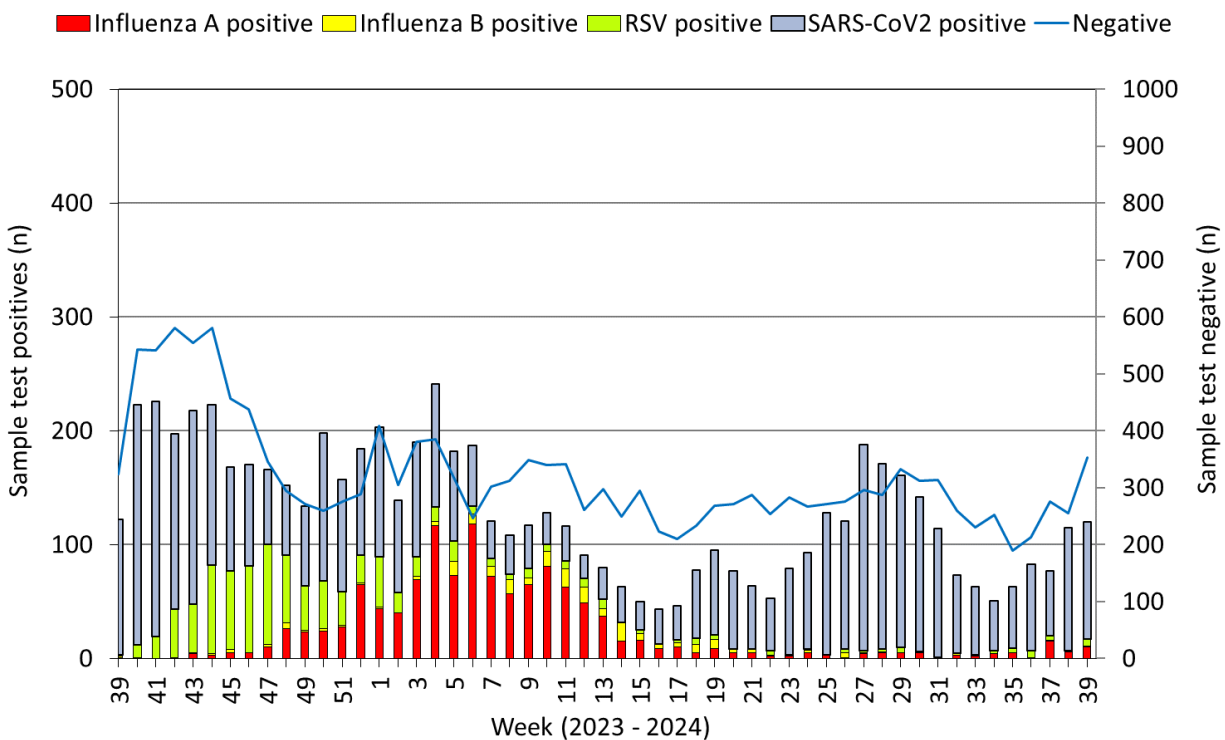


This chart summarises respiratory panel test data and does not include data for patients tested SOLELY for SARS-CoV2. Combined data for tests carried out in Public Health Wales Microbiology: Cardiff laboratory, provided by Public Health Wales Microbiology Cardiff Specialist Virology Centre. This chart 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.

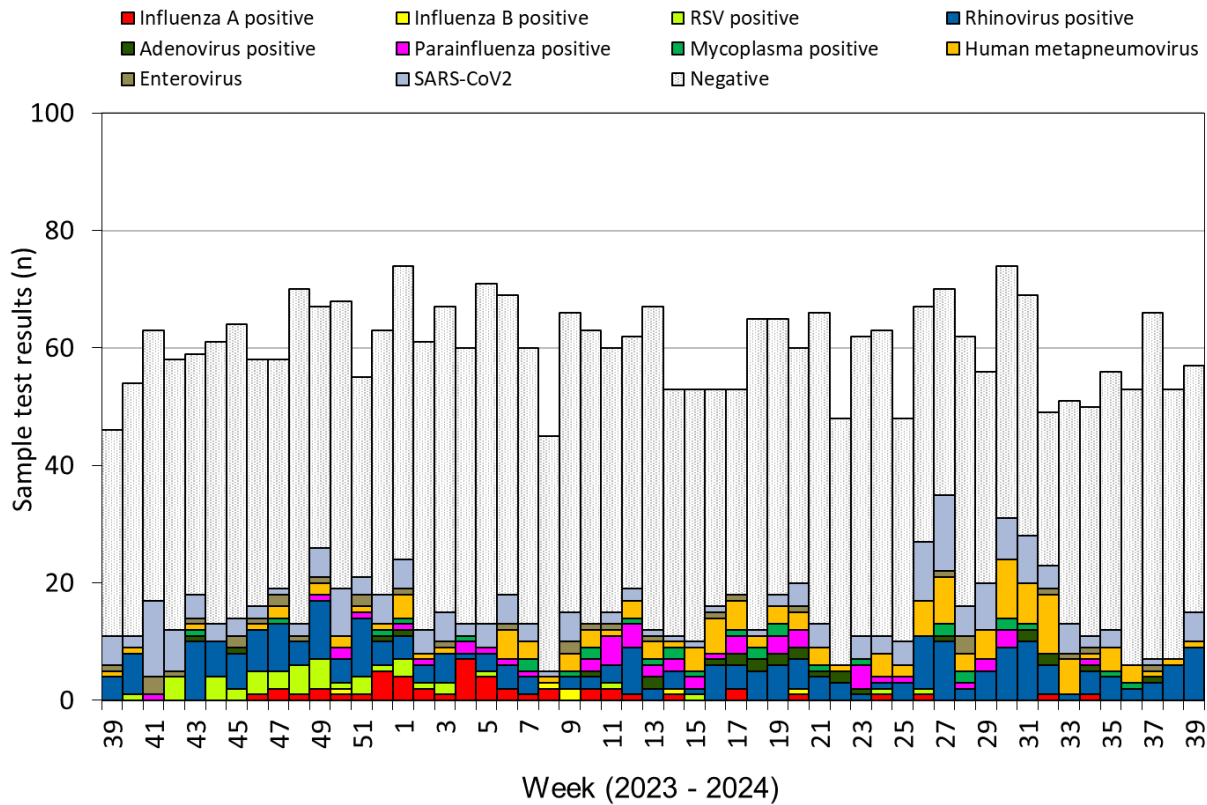
**Figure 6. Flu subtypes based on specimens submitted for virological testing by sentinel GPs and community pharmacies, hospital patients, and non-sentinel GPs, as of 29/09/2024 by week of sample collection, Week 39 2023 to Week 39 2024.**



**Figure 7. Specimens from hospital patients submitted for RSV, Influenza and SARS-CoV2 testing only, as of 29/09/2024 by week of sample collection, Week 39 2023 to Week 39 2024.**

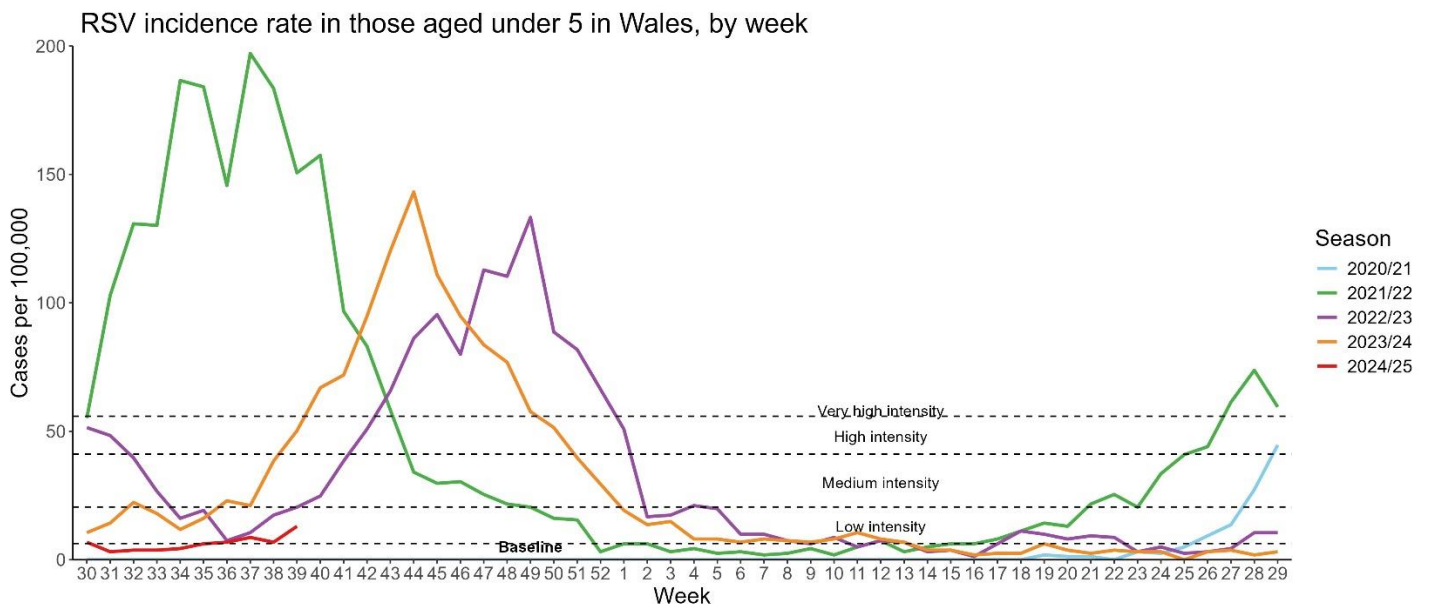


**Figure 8. Specimens submitted for virological testing for ICU patients, by week of sample collection, Week 39 2023 to Week 39 2024.**



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.

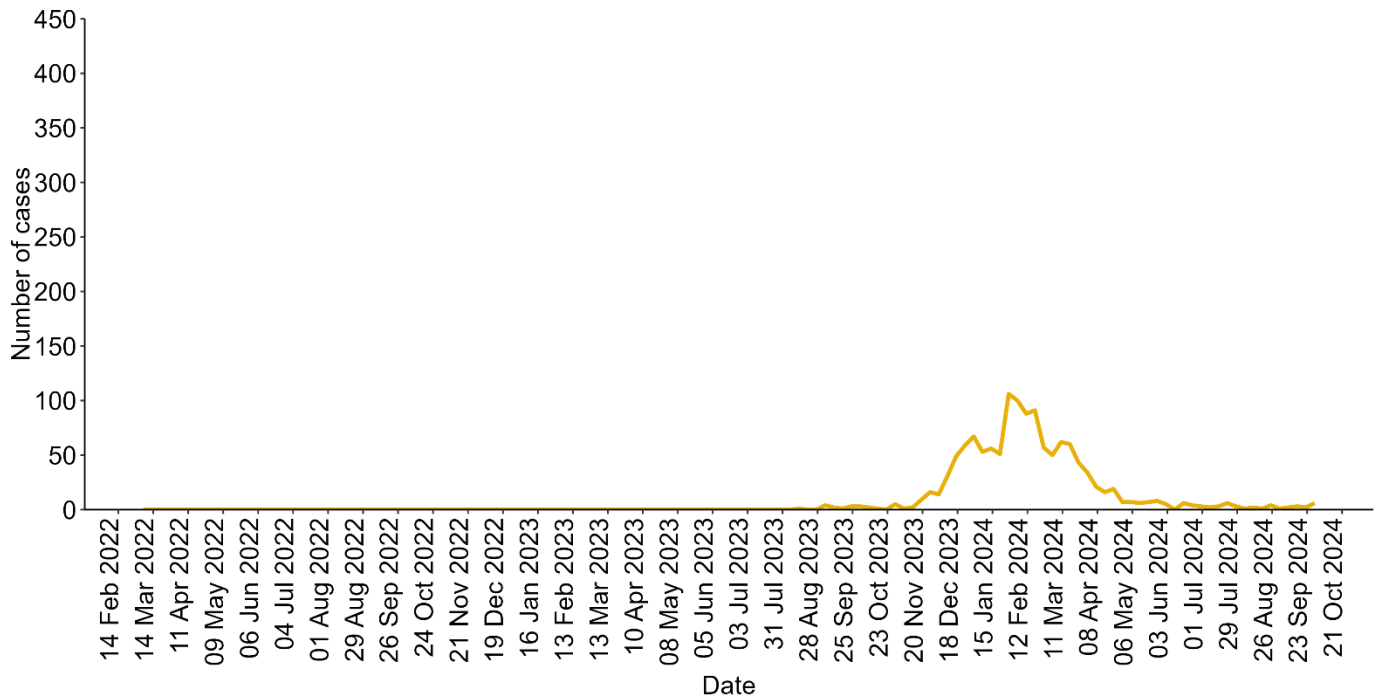
**Figure 9. RSV incidence rate per 100,000 population aged under five years, week 30 2020 to Week 39 2024.**



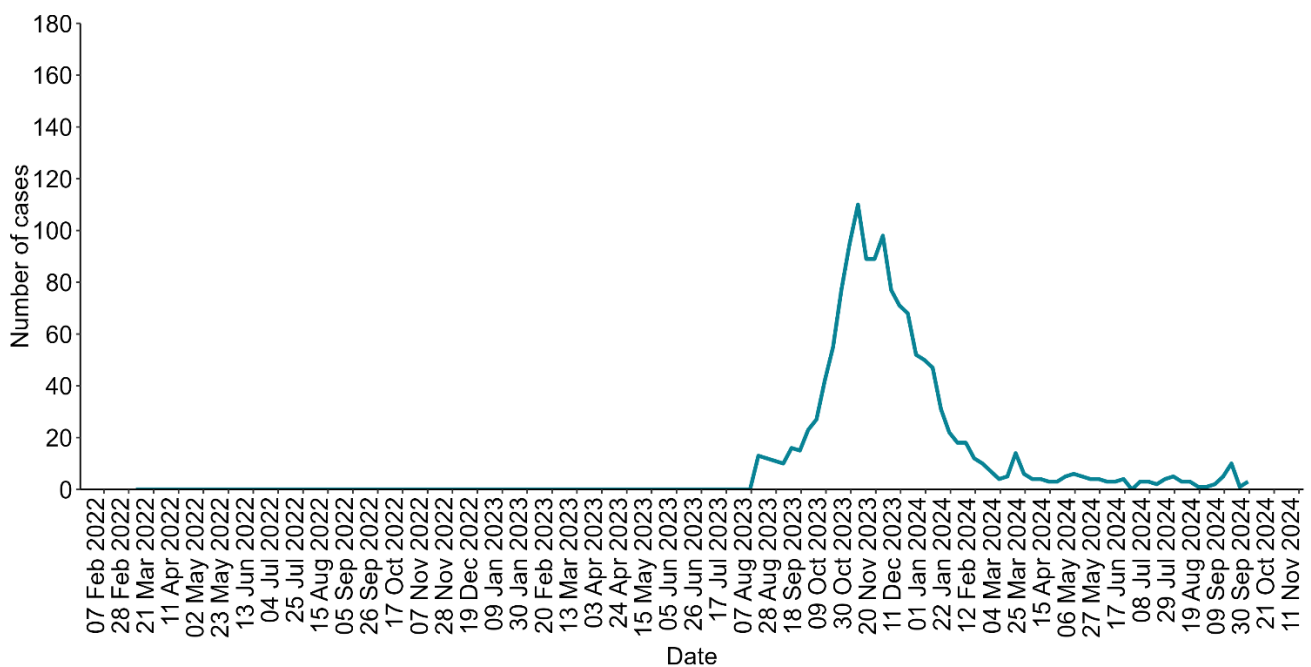
RSV seasons are monitored from W30 to W29, the most recent data is presented in red.

## ARI – Hospital admissions

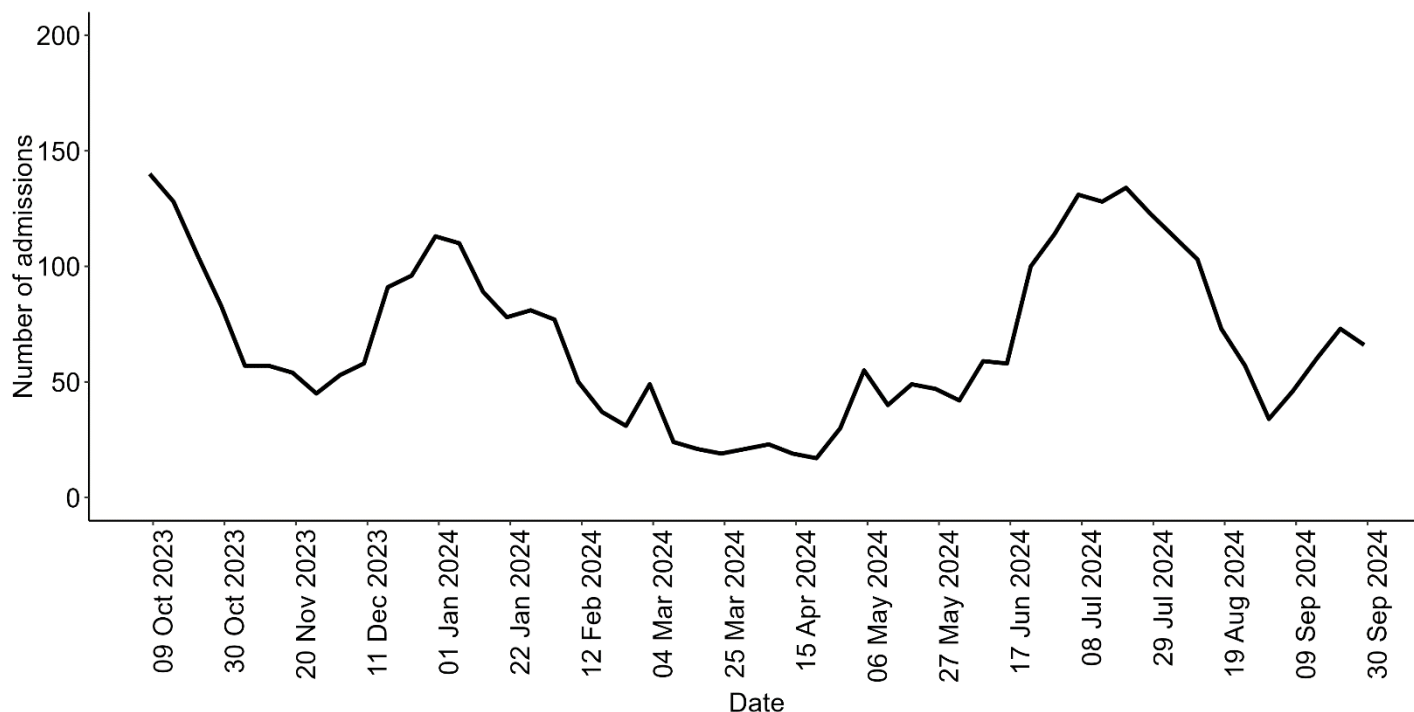
**Figure 10. Seven day rolling sum of cases hospitalised in Wales within 28 days of an influenza positive test result in the community (or up to 2 days post-admission), as of 29/09/2024.**



**Figure 11. Seven day rolling sum of cases hospitalised in Wales within 28 days of an RSV positive test result in the community (or up to 2 days post-admission), as of 29/09/2024.**



**Figure 12. Seven day rolling sum of cases hospitalised in Wales within 28 days of a Covid-19 positive test result in the community (or up to 2 days post-admission), as of 29/09/2024.**



### Influenza Vaccine Uptake in Wales

**Table 3. Uptake of influenza immunisations in GP Practice patients in Wales 2023/24 (as of 23/04/2024) (latest data available).**

<b>Influenza immunisation uptake in the 2023/24 season</b>	
People aged 65y and older	72.5%
People younger than 65y in a clinical risk group	39.1%
Children aged two & three years	42.8%
Children aged between four & ten years	61.9%
Children aged between 11 & 15 years	49.7%
Total NHS staff	40.8%
NHS staff with direct patient contact	40.5%

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: <https://phw.nhs.wales/topics/immunisation-and-vaccines/flu vaccine/annual-influenza-surveillance-and-influenza-vaccination-uptake-reports/>

## Influenza activity – UK and international summary

- As of Week 38, GP ILI consultations increased to 2.9 per 100,000 in Scotland.
- During Week 38, 3,896 samples testing positive for influenza were reported in England of which 63 were positive for influenza (28 influenza A(not subtyped), 22 influenza A(H3N2), 1 influenza A(H1N1) and 12 influenza B. Overall influenza positivity decreased to 1.4% in England in week 38 and increased to 3.2% in Scotland in week 38.
- UK summary data are available from the [UKHSA Influenza and COVID-19 Surveillance Report](#) and [COVID-19 & Respiratory Surveillance \(shinyapps.io\)](#)
- The WHO and the European Centre for Disease Prevention and Control (ECDC) reported during week 38, that influenza positivity is below the 10% positivity epidemic threshold at 1%. Of the 27 countries and areas reporting on influenza intensity, none reported medium intensity or higher. Of the 26 countries and areas reporting on geographic spread of influenza viruses within a country or area, one reported widespread or regional distribution. There were 17 confirmed influenza virus infection detections reported from sentinel primary care.  
**Source:** European Respiratory Virus Surveillance Summary (ERVISS): <https://erviss.org/>
- The WHO reported on 25/09/2024, based on data up to 15/09/2024 that in the Northern hemisphere elevated activity continued to be reported in countries in Western Africa and Western Asia (A(H3) and influenza B), South and South-East Asia (A(H1N1) viruses), and Central American and the Caribbean (A(H3) viruses).
- In the Southern hemisphere, influenza activity continues to be elevated in some areas of Tropical South America, East Africa and Oceania. **Source:** WHO influenza update: <https://www.who.int/teams/global-influenza-programme/surveillance-and-monitoring/influenza-updates/current-influenza-update>
- Based on FluNet reporting (as of 21/06/2024), during the period from 13/05/2024 – 26/05/2024 National Influenza Centres and other national influenza laboratories from 131 countries, areas or territories reported influenza surveillance data. The WHO Global Influenza Surveillance and Response System laboratories tested more than 354,429 specimens during that period, of which 20,741 were positive for influenza viruses, 17,211 (83.0%) were typed as influenza A (of the subtyped influenza A viruses, 6,275 (63.5%) were influenza A(H1N1)pdm09 and 3,604 (36.5%) were influenza A(H3N2). Of the 354,429 samples testing positive for influenza viruses, 3,530 tested positive for Influenza B (17.0%). **Source:** Flu Net: <https://www.who.int/tools/flunet>

## Update on influenza activity in North America

- The USA Centers for Disease Control and Prevention (CDC) report that influenza activity levels are low during week 38 (ending 21/09/2024). Nationally, 267 (0.1%) out of 46,909 specimens have tested positive for influenza in week 38 in clinical laboratories nationwide, of these positive samples, 232 (86.9%) were influenza A and 35 (13.1%) were influenza B. Further characterisation has been carried out on 971 specimens by public health laboratories, and 82 samples tested positive for influenza; 71 influenza A(H1N1)pdm09, 33 influenza A(H3N2), 11 influenza A(not subtyped) and 1 influenza B.  
**Source:** CDC Weekly US Influenza Surveillance Report: [FluView | FluView | CDC](#)

## Respiratory syncytial virus (RSV) in North America

- The USA CDC reported that the RSV positivity rate increased in week 38.  
**Source:** CDC RSV national trends: [National Respiratory and Enteric Virus Surveillance System | CDC](#)

## COVID-19 – UK and international summary

- As of 25/09/2024, there were 7.4 new positive PCR episodes per 100,000 population in Wales, for the most recent 7-day reporting period. Latest COVID-19 data from Public Health Wales is available from: <https://phw.nhs.wales/topics/latest-information-on-novel-coronavirus-covid-19/>
- The latest UKHSA COVID-19 data summary is available from: <https://coronavirus.data.gov.uk/>
- WHO situation updates on COVID-19 are available from: <https://covid19.who.int/>

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

- WHO was notified of three new MERS cases between 10 and 17 April 2024 by the Ministry of Health of the Kingdom of Saudi Arabia.
- Since 10 April and as of 17 April 2024, three new MERS-CoV cases, have been reported by Saudi Arabia. WHO Global Alert and Response website: <https://www.who.int/emergencies/disease-outbreak-news>
- 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**

The WHO has published an updated assessment of recent influenza A(H5N1) virus events in animals and people. Currently, the global public health risk of influenza A(H5N1) viruses to be low, while the risk of infection for occupationally exposed persons is low to moderate, depending on the risk mitigation measures in place. Transmission between animals continues to occur and, to date, a limited number of human infections have been reported. 14 August 2024: [https://www.who.int/publications/m/item/updated-joint-fao-who-woah-assessment-of-recent-influenza-a\(h5n1\)-virus-events-in-animals-and-people](https://www.who.int/publications/m/item/updated-joint-fao-who-woah-assessment-of-recent-influenza-a(h5n1)-virus-events-in-animals-and-people)

Other updates on zoonotic influenza infections and risks to humans are available from the WHO Global Alert & Response website: <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://phw.nhs.wales/topics/latest-information-on-novel-coronavirus-covid-19/>

Public Health Wales interactive report on hospitalisations in influenza and RSV cases:

<https://public.tableau.com/app/profile/public.health.wales.health.protection/viz/ARI-Hospitaladmissionsdashboard/ARIHospitaladmissionsdashboard?publish=yes>

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>

England influenza and COVID-19 surveillance:

<https://www.gov.uk/government/statistics/national-flu-and-covid-19-surveillance-reports-2023-to-2024-season>

Scotland seasonal respiratory surveillance:

<https://www.publichealthscotland.scot/publications>

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

<https://phw.nhs.wales/topics/immunisation-and-vaccines/flu vaccine/>

Advice on influenza immunisation (for intranet users)

[Influenza \(sharepoint.com\)](#)

For further information on this report, please email Public Health Wales using:

[surveillance.requests@wales.nhs.uk](mailto:surveillance.requests@wales.nhs.uk)