

# Influenza, RSV and Other Respiratory Viruses Surveillance Report

## Week 14 2024 (1<sup>st</sup> – 7<sup>th</sup> April 2024)



This report presents data on the epidemiology of influenza, respiratory syncytial virus (RSV) and other respiratory viruses (ORVs). For further information on the epidemiology of COVID-19, please refer to [COVID-19 surveillance reports](#). Data for this report were extracted on 08/04/2024.

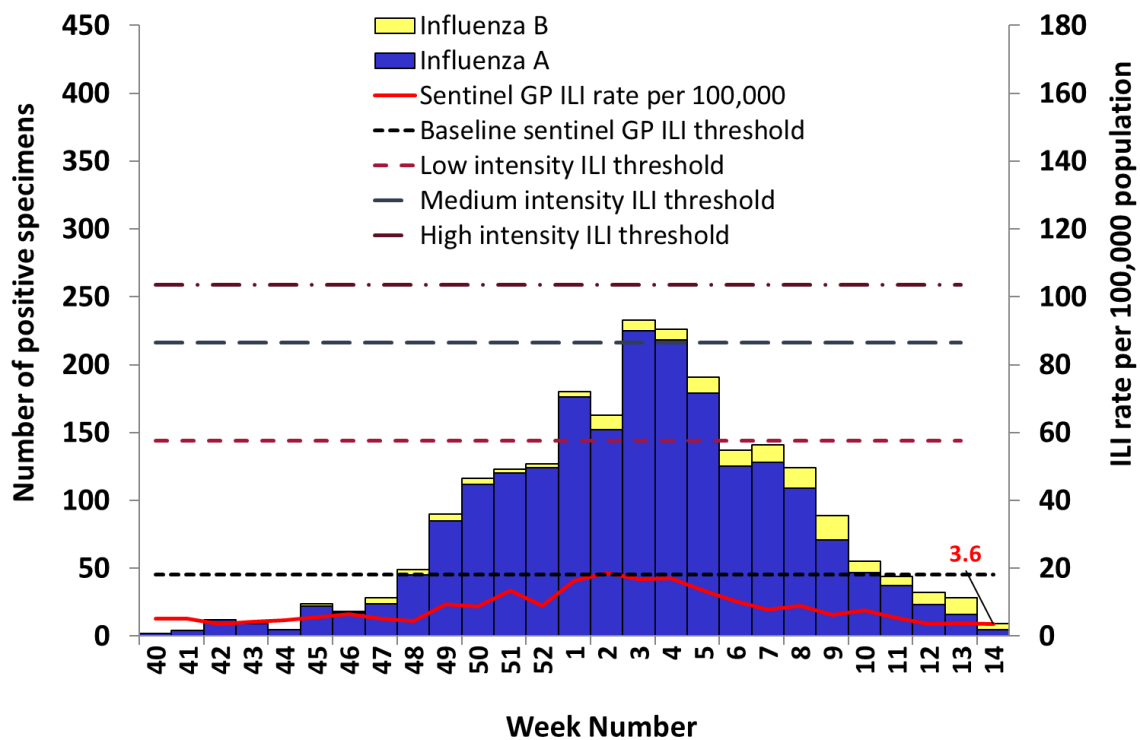
### Summary Week 14 2024

**Most indicators of influenza activity remained at low to moderate levels during week 14 2024. Influenza A viruses have predominated this season, with A(H3) and A(H1)pdm09 viruses co-circulating. In recent weeks, the proportion of circulating influenza B viruses has increased but numbers remain low.**

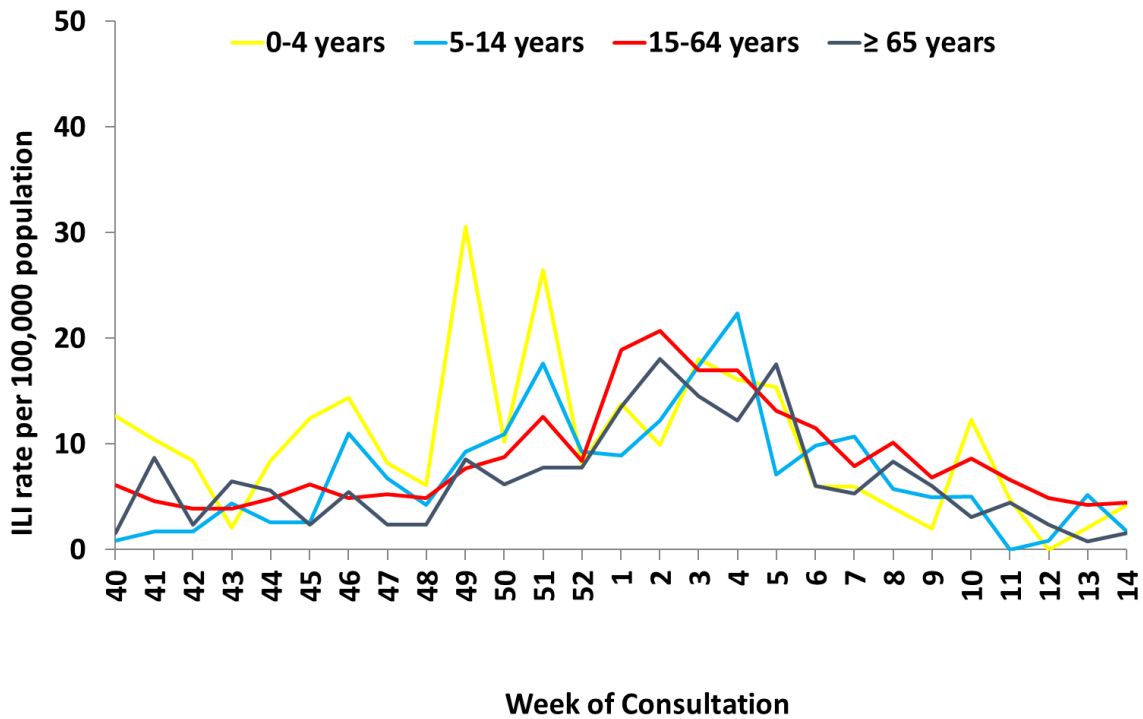
- **Influenza-like illness (ILI):** The sentinel GP influenza-like illness (ILI) consultation rate was 3.6/100,000 population during week 14 2024, which is below the Irish baseline threshold (18.1/100,000). ILI age specific rates have remained below the age specific baseline for all age groups since week 14 2024.
- **National Virus Reference Laboratory (NVRL):** Of 44 sentinel GP ARI specimens tested and reported by the NVRL during week 14 2024, five (11.4%) were positive for influenza (two A(H3), two A(H1)pdm09 and one B), one for SARS-CoV-2 (2.3%) and 10 (22.7%) for rhino/enterovirus.
- Of 131 non-sentinel respiratory specimens tested and reported by the NVRL during week 14 2024, four (3.1%) were positive for influenza (one A (not subtyped) and three influenza B), four (3.1 %) for SARS-CoV-2 and 15 (11.5%) for rhino/enterovirus.
- **GP Out of hours (OOHs):** Cough calls comprised 20.3% (3403/16723) of all reported GP OOHs calls during week 14 2024 (above the baseline threshold of 10.8%); 34.7% (1181/3403) of cough calls were in those aged 15-64 years. Flu calls comprised 1.2% (203/16723) of all calls in week 14 2024, which is below the baseline threshold level (2.3%).
- **Influenza notifications:** 229 laboratory confirmed influenza cases were notified during week 14 2024: three A(H3), two A(H1)pdm09, 144 A (not subtyped) and 80 B. This is a decrease compared to 352 cases notified during week 13 2024. Influenza B accounted for 35% (80/229) of all notifications compared to 32% (114/352) in week 13. The proportion of influenza B viruses has increased in recent weeks although the overall number of notifications remains low. The highest number of notifications occurred in those aged 65 years and older at 28% (64/229) of all influenza notifications in week 14 2024.
- **RSV notifications:** Low numbers of sporadic RSV cases continue to be notified each week.
- **Hospitalisations:** 48 laboratory confirmed influenza hospitalised cases (one A(H3), 34 A (not subtyped) and 13 B) were notified in week 14 2024, a decrease compared to 84 in week 13 2024. The number and proportion of hospitalisations attributable to influenza B has been declining for the past three weeks. During the 2023/2024 season to date, 3,910 laboratory confirmed influenza hospital inpatients were reported: 351 A(H3), 124 A(H1)pdm09, 3,124 A (not subtyped), 307 B, two A and B coinfections and two influenza A (H1)pdm09 and A(H3) coinfections. RSV hospitalisations remained at low levels during week 14 2024, with only sporadic cases notified. For the 2023/2024 season to date, 3,284 RSV hospitalisations were reported.
- **Intensive care admissions:** There was one laboratory confirmed influenza A(H3) case admitted to intensive care unit (ICU) and notified to HPSC during week 14 2024. For the season to date, 110 influenza ICU cases (29 A(H3), 16 A(H1)pdm09, 62 A (not subtyped), two influenza B and one influenza A and B coinfection) have been notified.
- **Mortality:** There were no deaths reported to HPSC during week 14 2024. For the season to date, 188 deaths were reported – 44 A(H3), 16 A(H1)pdm09 and 126 A (not-subtyped) and two influenza B.
- **Outbreaks:** During week 14 2024, three influenza A (not subtyped) outbreaks (one in a nursing home and two in acute hospitals) were reported to HPSC.
- **International:** In the EU/EEA during week 13 2024, influenza activity remains widespread, but is steadily decreasing across the region. RSV continues to circulate but has declined in recent months.

## 1. GP consultations for influenza-like illness - GP sentinel surveillance system

- During week 14 2024, 30 sentinel GP influenza-like illness (ILI) consultations were reported from the Irish sentinel GP network, corresponding to an ILI consultation rate of 3.6 per 100,000 population which is below the sentinel GP ILI baseline threshold (18.1/100,000 population). This is similar to an updated rate of 3.7 per 100,000 population during week 13 2024 (Figure 1).
- Of the 98 GP practices in the Irish sentinel GP network, 91 reported clinical consultation data (including data on non-respiratory clinical consultations) during week 14 2024 and 17 practices reported ILI data.
- Age specific ILI consultation rates were below the age specific baseline thresholds in all age groups during week 14 2024 (Figure 2, Table 1).
- The Irish sentinel baseline ILI threshold for the 2023/2024 influenza season is 18.1 per 100,000 population. ILI rates above this baseline threshold combined with sentinel GP influenza positivity >10% indicate the likelihood that influenza is circulating in the community. The Moving Epidemic Method (MEM) is used to calculate thresholds for GP ILI consultations in a standardised approach across Europe. The baseline ILI threshold (18.1/100,000 population), low (57.5/100,000 population), medium (86.5/100,000 population) and high (103.6/100,000 population) intensity ILI thresholds are shown in Figure 1. The age specific baseline threshold for those aged <15 is 17.1/100,000, for those aged 15-64 is 12.6/100,000 and for those aged ≥65 years is 11.6/100,000.



**Figure 1:** Sentinel GP Influenza-like illness (ILI) consultation rates per 100,000 population, baseline, low, medium and high intensity ILI thresholds and number of positive influenza A and B specimens tested by the NVRL, by influenza week for the 2023/2024 season. Source: ICGP and NVRL



**Figure 2:** Age specific sentinel GP ILI consultation rate per 100,000 population by week (week 40 2023 to week 14 2024). Source: ICGP.

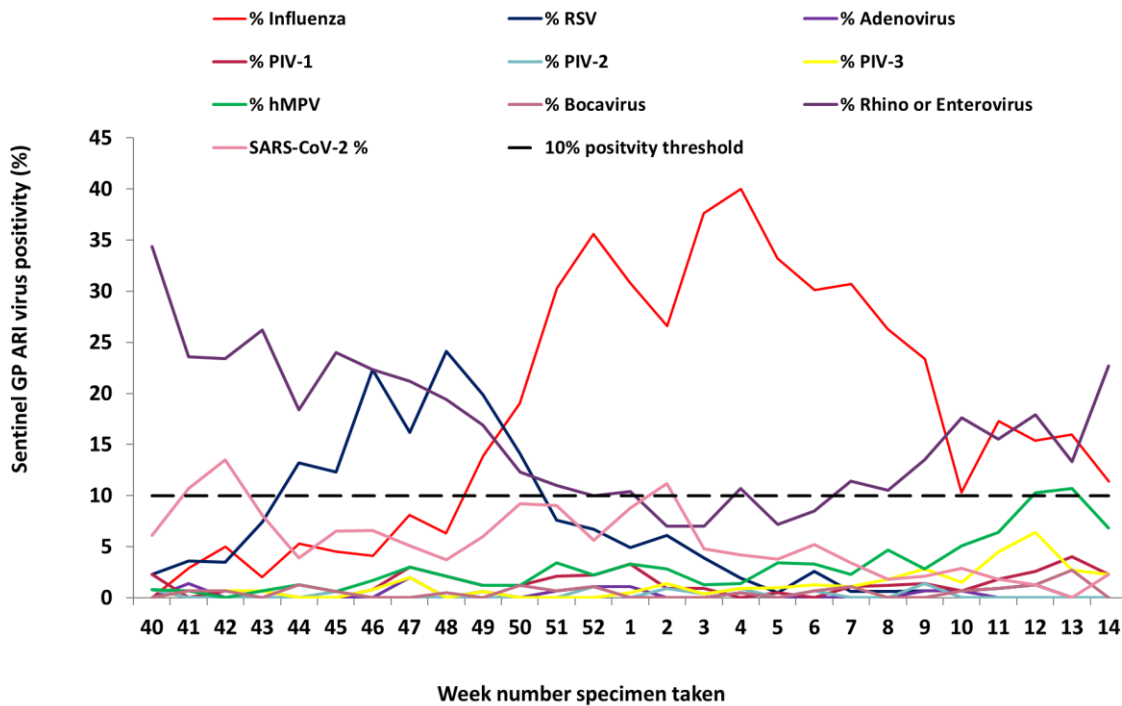
**Table 1:** Age specific sentinel GP ILI consultation rate per 100,000 population by week (week 40 2023 to week 14 2024), colour coded by sentinel GP ILI age specific Moving Epidemic Method (MEM) threshold levels. Source: ICGP.

MEM Threshold Levels	Below Baseline	Low	Moderate	High	Extraordinary																							
	2023/2024																											
Age group (years)	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
All Ages	5.1	5.1	3.6	4.3	4.8	5.5	6.4	5.2	4.5	9.4	8.8	13.5	8.9	16.4	18.5	16.7	17.1	13.5	10.2	7.8	8.9	6.2	7.5	5.3	3.6	3.7	3.6	
<15 yrs	4.0	4.0	3.4	3.4	4.0	5.1	11.2	6.7	4.4	14.4	10.0	18.8	8.3	9.6	10.7	16.4	19.1	8.9	8.1	8.7	4.9	3.8	6.7	1.3	0.6	4.0	2.3	
15-64 yrs	6.1	4.6	3.9	3.9	4.8	6.2	4.9	5.2	4.9	7.7	8.8	12.6	8.4	18.9	20.7	17.0	17.0	13.2	11.5	7.9	10.2	6.8	8.6	6.6	4.9	4.2	4.5	
≥65 yrs	1.6	8.7	2.4	6.4	5.6	2.4	5.5	2.3	2.3	8.5	6.2	7.8	7.8	13.5	18.1	14.5	12.3	17.6	6.1	5.3	8.3	6.1	3.1	4.5	2.3	0.8	1.6	
Reporting practices (N=98)	92	94	92	90	92	93	94	96	95	96	95	97	97	96	95	94	94	98	97	98	97	97	96	84	95	92	91	

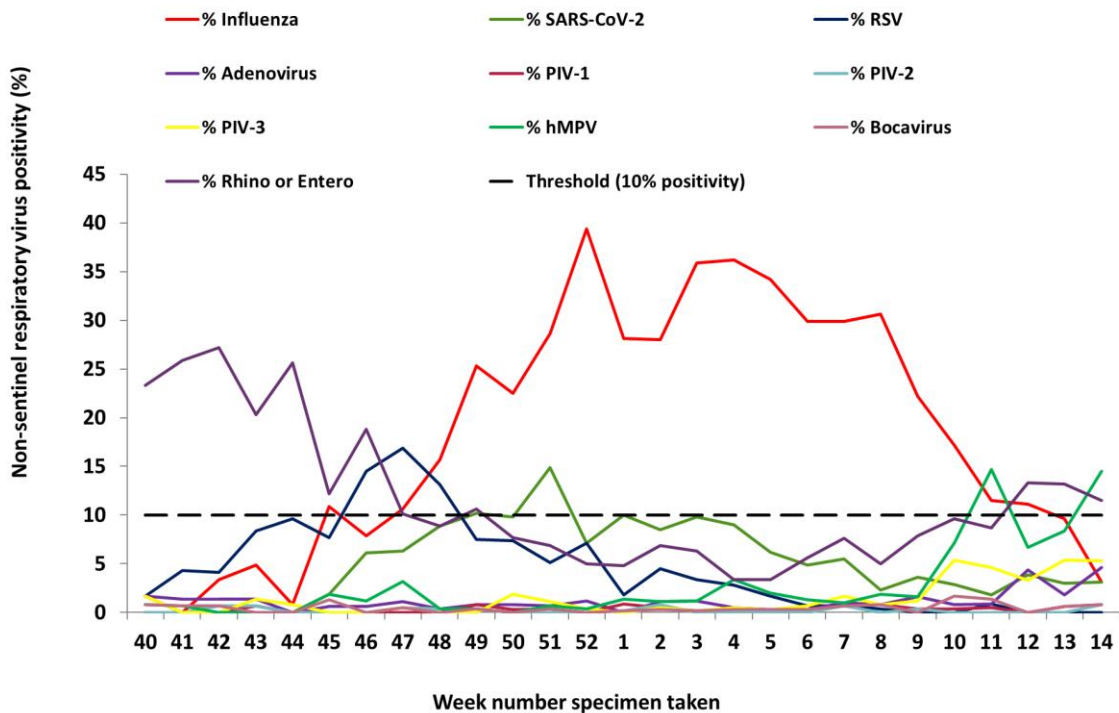
## 2. Influenza and Other Respiratory Virus Detections - NVRL

The data reported in this section for the 2023/2024 influenza season refers to sentinel GP ARI and non-sentinel respiratory specimens routinely tested for influenza, SARS-CoV-2, respiratory syncytial virus (RSV), adenovirus, parainfluenza virus types 1-4 (PIV-1-4), human metapneumovirus (hMPV) and rhino/enteroviruses by the National Virus Reference Laboratory (NVRL) (Tables 2 & 3, Figure 3a, 3b, 4).

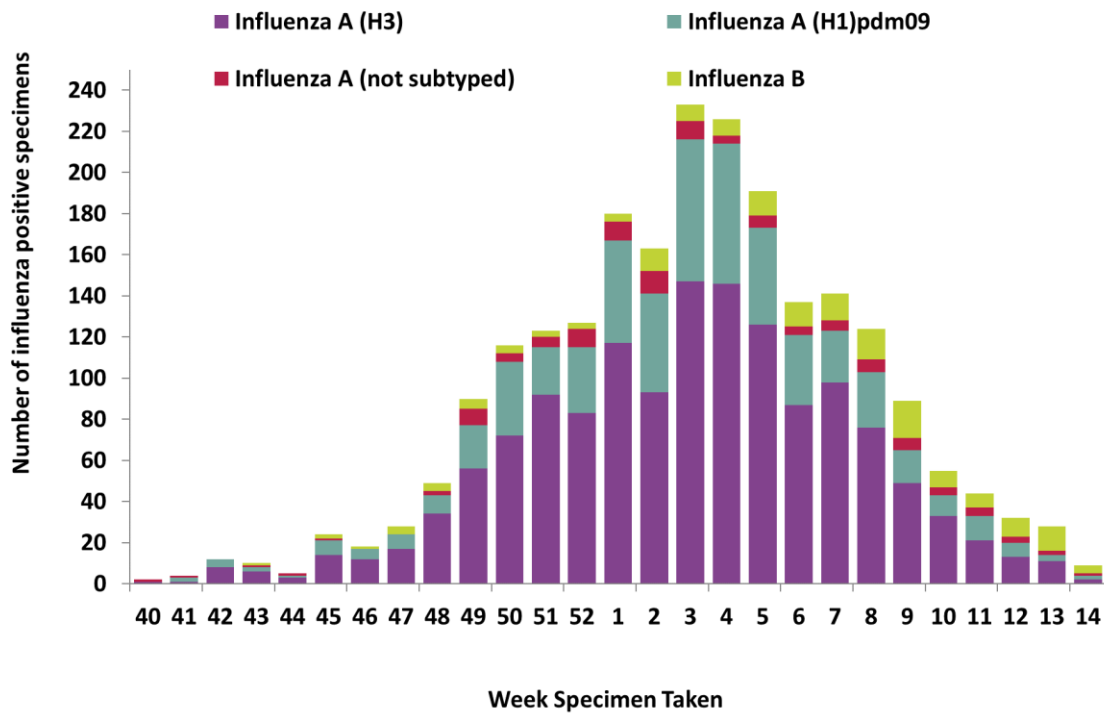
- A lag time with testing and reporting is noted for the most recent surveillance week.
- During week 14 2024, of 44 sentinel GP ARI specimens tested and reported by the NVRL, five (11.4%) were positive for influenza (two A(H3), two A(H1)pdm09 and one B), one for SARS-CoV-2 (2.3%) and 10 (22.7%) for rhino/enterovirus.
- In comparison during week 13 2024, of 75 sentinel GP ARI specimens tested and reported by the NVRL, 12 (16%) were positive for influenza (one A(H3), two A(H1)pdm09, one influenza A (not subtyped) and eight B) and 10 (13.3%) for rhino/enterovirus.
- For the 2023/2024 season to date (week 40 2023 to week 14 2024), of 3,898 sentinel GP ARI specimens tested and reported by the NVRL, 774 (19.9%) were positive for influenza (433 A(H3), 190 A(H1)pdm09, 45 A (not subtyped) and 106 influenza B, 261 (6.7%) for RSV, 226 (5.8%) for SARS-CoV-2, and 592 (15.2%) for rhino/enterovirus (Table 4).
- During week 14 2024, of 131 non-sentinel respiratory specimens tested and reported by the NVRL, four (3.1%) were positive for influenza (one A (not subtyped) and three influenza B), four (3.1%) for SARS-CoV-2 and 15 (11.5%) for rhino/enterovirus.
- During week 13 2024, of 167 non-sentinel respiratory specimens tested, 16 (9.6%) were positive for influenza (10 A(H3), one A(H1)pdm09, one A (not subtyped), and four B), five (3.0%) for SARS-CoV-2 and 22 (13.2%) for rhino/enterovirus (Figure 3b).
- For the 2023/2024 season to date (week 40 2023 to week 14 2024), of 6,592 non-sentinel respiratory specimens tested and reported by the NVRL, 1,486 (22.5%) were positive for influenza (985 A(H3), 377 A(H1)pdm09, 377 A (not subtyped) and 62 influenza B), 279 (4.2%) for RSV, 414 (6.3%) for SARS-CoV-2, and 616 (9.3%) for rhino/enterovirus (Table 5).
- Other respiratory viruses (ORVs) are being detected at lower levels (Figure 3a and 3b).
- Of 2,260 sentinel GP ARI specimens and non-sentinel specimens positive for influenza and reported by the NVRL during the 2023/2024 season, 143 (6.3%) were coinfecting with other viruses.



**Figure 3a:** Percentage positive results for **sentinel GP ARI** specimens tested by the NVRL for influenza, SARS-CoV-2, RSV and other respiratory viruses by week specimen was taken for the 2023/2024 season. *Source: NVRL*



**Figure 3b:** Percentage positive results for **non-sentinel respiratory** specimens tested by the NVRL for influenza, SARS-CoV-2, RSV and other respiratory viruses by week specimen was taken for the 2023/2024 season. *Source: NVRL*



**Figure 4:** Number of positive **influenza** specimens (from sentinel GP ARI and non-sentinel respiratory sources) tested by the NVRL by influenza type/subtype and by week specimen was taken for the 2023/2024 season. *Source: NVRL*

**Table 2:** Number of sentinel GP ARI and non-sentinel respiratory specimens tested by the NVRL and positive **influenza** results, overall and by influenza type and subtype, for week 13 and week 14 2024, and the 2023/2024 Season. *Source: NVRL*

Surveillance period	Specimen type	Total tested	Number influenza positive	% Influenza positive	Influenza A				Influenza B			
					A(H1)pdm09	A(H3)	A (not subtyped)	Total influenza A	B (unspecified)	B Victoria lineage	B Yamagata lineage	Total influenza B
<b>Week 14 2024</b>	Sentinel GP ARI	44	5	11.4	2	2	0	4	1	0	0	1
	Non-sentinel respiratory	131	4	3.1	0	0	1	1	3	0	0	3
	<b>Total</b>	<b>175</b>	<b>9</b>	<b>5.1</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>
<b>Week 13 2024</b>	Sentinel GP ARI	75	12	16.0	2	1	1	4	8	0	0	8
	Non-sentinel respiratory	167	16	9.6	1	10	1	12	4	0	0	4
	<b>Total</b>	<b>242</b>	<b>28</b>	<b>11.6</b>	<b>3</b>	<b>11</b>	<b>2</b>	<b>16</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>12</b>
<b>2023/2024</b>	Sentinel GP ARI	3898	774	19.9	190	433	45	668	106	0	0	106
	Non-sentinel respiratory	6592	1486	22.5	377	985	62	1424	48	14	0	62
	<b>Total</b>	<b>10490</b>	<b>2260</b>	<b>21.5</b>	<b>567</b>	<b>1418</b>	<b>107</b>	<b>2092</b>	<b>154</b>	<b>14</b>	<b>0</b>	<b>168</b>

**Table 3:** Number of sentinel GP ARI and non-sentinel respiratory specimens tested by the NVRL and positive **RSV** results, overall and by RSV type, for week 13 and week 14 2024, and the 2023/2024 Season. *Source: NVRL*

Surveillance period	Specimen type	Total tested	Number RSV positive	% RSV positive	RSV A	RSV B	RSV (unspecified)
<b>Week 14 2024</b>	Sentinel GP ARI	44	0	0.0	0	0	0
	Non-sentinel	131	0	0.0	0	0	0
	<b>Total</b>	<b>175</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Week 13 2024</b>	Sentinel GP ARI	75	0	0.0	0	0	0
	Non-sentinel	167	0	0.0	0	0	0
	<b>Total</b>	<b>242</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>2023/2024</b>	Sentinel GP ILI/ARI	3898	261	6.7	196	65	0
	Non-sentinel	6592	279	4.2	215	64	0
	<b>Total</b>	<b>10490</b>	<b>540</b>	<b>5.1</b>	<b>411</b>	<b>129</b>	<b>0</b>

**Table 4:** Number and percentage positive sentinel GP ARI specimens by **respiratory virus**, week 13 and week 14 2024, and the 2023/2024 season. *Source: NVRL*

Virus	Week 14 2024 (N=44)		Week 13 2024 (N=75)		2023/2024 (N=3898)	
	Total positive	% positive	Total positive	% positive	Total positive	% positive
SARS-CoV-2	1	2.3	0	0.0	226	5.8
Influenza virus	5	11.4	12	16.0	774	19.9
Respiratory Syncytial Virus (RSV)	0	0.0	0	0.0	261	6.7
Rhino/enterovirus	10	22.7	10	13.3	592	15.2
Adenovirus	0	0.0	0	0.0	12	0.3
Bocavirus	0	0.0	2	2.7	18	0.5
Human metapneumovirus (hMPV)	3	6.8	8	10.7	104	2.7
Parainfluenza virus type 1 (PIV-1)	1	2.3	3	4.0	48	1.2
Parainfluenza virus type 2 (PIV-2)	0	0.0	0	0.0	11	0.3
Parainfluenza virus type 3 (PIV-3)	1	2.3	2	2.7	42	1.1
Parainfluenza virus type 4 (PIV-4)	0	0.0	0	0.0	42	1.1

**Table 5:** Number and percentage positive non-sentinel respiratory specimens, by **respiratory virus**, week 13 and week 14 2024, and the 2023/2024 season. *Source: NVRL*

Virus	Week 14 2024 (N=131)		Week 13 2024 (N=167)		2023/2024 (N=6592)	
	Total positive	% positive	Total positive	% positive	Total positive	% positive
SARS-CoV-2	4	3.1	5	3.0	414	6.3
Influenza virus	4	3.1	16	9.6	1486	22.5
Respiratory Syncytial Virus (RSV)	0	0.0	0	0.0	279	4.2
Rhino/enterovirus	15	11.5	22	13.2	616	9.3
Adenovirus	6	4.6	3	1.8	66	1.0
Bocavirus	1	0.8	1	0.6	27	0.4
Human metapneumovirus (hMPV)	19	14.5	14	8.4	163	2.5
Parainfluenza virus type 1 (PIV-1)	1	0.8	1	0.6	23	2.5
Parainfluenza virus type 2 (PIV-2)	1	0.8	0	0.0	13	0.2
Parainfluenza virus type 3 (PIV-3)	7	5.3	9	5.4	80	1.2
Parainfluenza virus type 4 (PIV-4)	0	0.0	0	0.0	28	0.4



### 3. Influenza genetic characterisation data

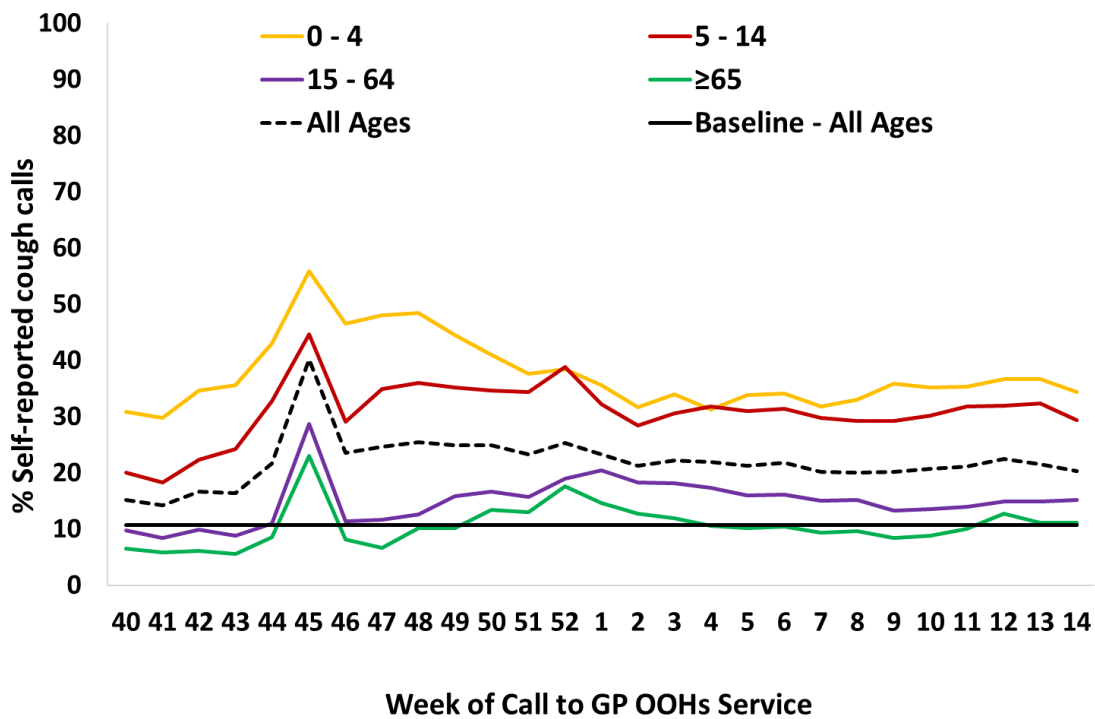
- The National Virus Reference Laboratory (NVRL) conducted genetic characterisation on 84 influenza positive cases detected between week 40 2023 and week 2 2024. This included 70 non-sentinel respiratory samples and 14 sentinel GP ARI samples. Of these, 55 were positive for influenza A(H3), 26 A(H1)pdm09 and three influenza B/Victoria viruses.
- Globally, all A(H1N1)pdm09 viruses detected recently descend from the 6B.1A.5a clade and therefore, new nomenclature has been introduced which drops the prefix 6B.1A. Clade 5a has split into two antigenically distinct clusters: Clade 5a.1 carries amino acid substitutions D187A, Q189E and is represented by the northern hemisphere 2020-2021 vaccine virus A/Guangdong-Maonan/SWL1536/2019 and Clade 5a.2 viruses carries amino acid substitutions K130N, N156K, A187D, L161I and V250A and is represented by the 2021/2022 and 2022/2023 northern hemisphere and 2021/2022 southern hemisphere vaccine virus A/Victoria/2570/2019.
- In Ireland the hemagglutinin genes of influenza A(H1)pdm09 viruses characterised (n=26) since week 40 2022 were all attributed to clade 5a.2a of which 13 (50%) was represented by A/Sydney/5/2021 and 13 (50%) of which clustered with 5a.2a.1 virus represented by AH1/Wisconsin/67/2022 virus. A/Sydney/5/2021 group carries the same amino acid substitutions as the A/Victoria/2570/2019 group but with additional HA1 K54Q, D94N, A186T, Q189E, E224A, R259K, T261A and K308R substitutions and AH1/Wisconsin/67/2022 carrying P137S, K142R, D260E and T277A substitutions in the haemagglutinin.
- Globally recent antigenic analysis of viruses collected post-September 2023 found most viruses within subclades 5a.2a and 5a.2a.1 were effectively inhibited by post-ferret antisera raised against the 2024 Southern Hemisphere and 2023/2024 Northern Hemisphere influenza vaccine strains. This includes all Irish influenza A(H1)pdm09 viruses sequenced, which fall into these subclades, indicating that these strains are well protected by the current influenza vaccines for both the Southern and Northern Hemisphere seasons.
- Worldwide, all A(H3) viruses detected recently belong to clade 3C.2a1b.2a which has split into two clades, 3C.2a1b.2a.1 and 3C.2a1b.2a.2. The new nomenclature drops the prefix 3C.2a1b.2a, renaming these clades as 1 and 2. In particular, clade 2 has evolved further into clade 2a carrying Y159N, T160I (-CHO), L164Q, N171K, S186D, D190N, P198S with an additional H156S amino acid substitution and represented by A/Darwin/9/2021 virus which was recommended for use 2022/2023 northern hemisphere vaccine composition. Clade 2a viruses have further evolved into subclades 2a.1, 2a.2, and 2a.3. In particular clades 2a.3a and 2a.3a.1 have been circulating in Europe since the beginning of this year's influenza season. 2a.3a viruses carry an amino acid substitution E50K and is represented by A/Finland/402/2023 virus, while 2a.3a.1 virus carry additional I140K, I223V amino acid substitutions and are represented by the A/Thailand/8/2022 virus.

- Among the A(H3) viruses n=55 characterised in Ireland up to week 2 2024, all were attributed to clade 2a.3a.1, represented by the A/Thailand/8/2022 virus and contained the signature amino acid substitutions characterised by this clade. The 2023/2024 Northern Hemisphere influenza vaccine strains effectively recognized many clade 2 viruses but showed reduced effectiveness against viruses with HA genes from subclades 2a.3a.1 such as A/Thailand/8/2022 virus which were observed in Ireland.
- In recent months, the influenza B/Victoria virus landscape has primarily consisted of viruses from clade V1A.3a.2, characterised by a set of signature amino acid substitutions and represented by the B/Austria/1359417/2021 virus the recommended vaccine virus for Northern and southern hemisphere. Additionally, there have been several notable subclades of the influenza B virus, each identified by unique amino acid substitutions that contribute to the genetic diversity of the virus, such as the B/Connecticut/01/2021, B/Catalonia/2279261NS/2023, and B/Moldova/2030521/2023 viruses.
- In Ireland, all three characterised influenza B/Victoria viruses up to week 48 were classified under clade V1A.3a.2, represented by B/Catalonia/2279261NS/2023 virus and characterised by its key amino acid substitutions of D197E and E183K. Antigenic analysis showed that the ferret antisera produced for the B/Austria/1359417/2021-like vaccines, designed for the 2024 Southern Hemisphere and the 2023/2024 Northern Hemisphere influenza seasons, effectively neutralized these V1A.3a.2 subclade viruses, confirming the vaccine's protection against these currently circulating strains.
- Genetic characterisation suggests that the current vaccine will protect against the influenza A(H1)pdm09 viruses circulating in Ireland, however there may be reduced effectiveness against A(H3) viruses.

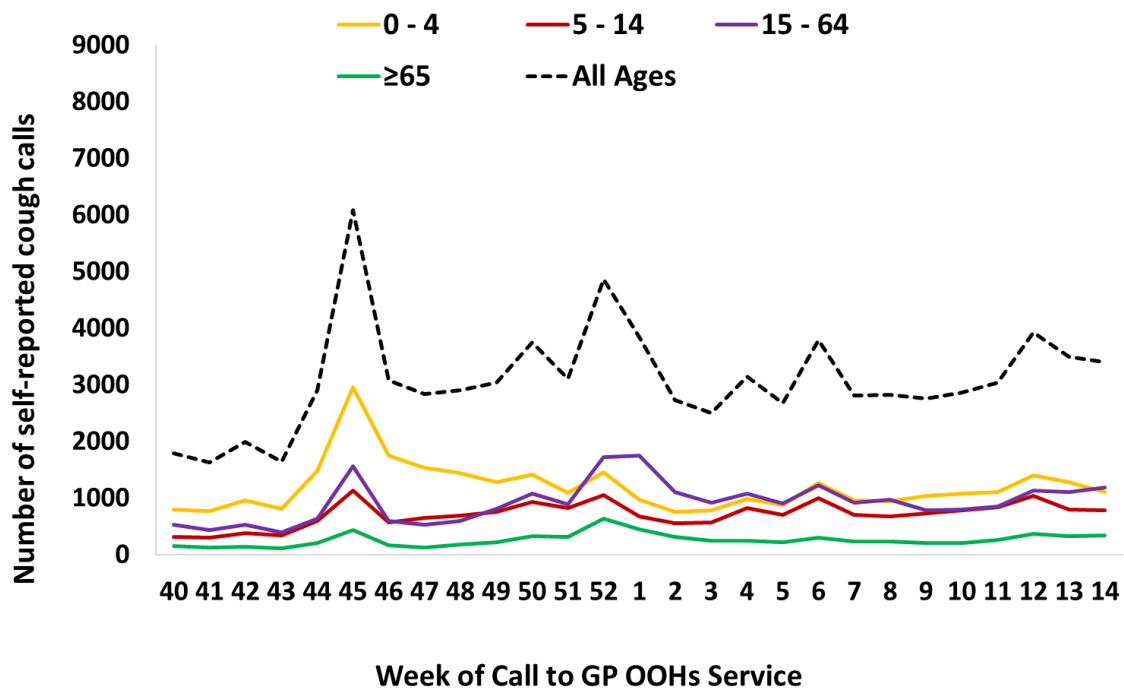
## 4. GP Out-Of-Hours Surveillance

National data on calls to GP Out-of-Hours services in Ireland are collated by HPSC. Five out of 14 Out-of-Hours GP services currently participate in this programme. Records of calls with clinical symptoms self-reported as 'flu' or 'cough' are included in the analysis. This information may act as an early indicator of circulation of influenza viruses, SARS-CoV-2, or other respiratory viruses.

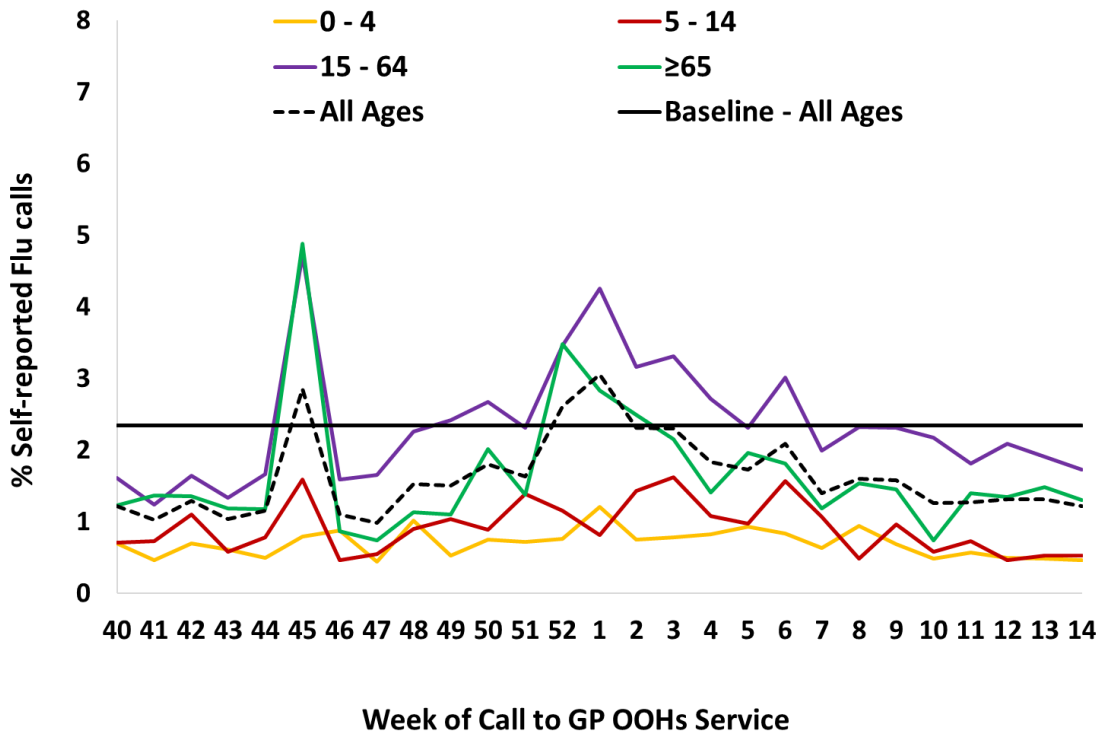
- All five participating GP OOH services provided data for week 14 2024.
- Out of a total of 16,723 calls made to the participating GP OOHs in week 14 2024:
  - 3,403 (20.3%) were for self-reported 'cough', which is above the baseline threshold of 10.8% for cough calls and is stable compared to recent weeks (Figures 5 and 6). The greatest burden of cough calls was in those aged 15-64 years at 34.7% (1181/3403).
  - 203 (1.2%) were for self-reported 'flu', which is below the baseline threshold of 2.3% for 'flu' calls (Figures 7 and 8). This is stable compared recent weeks.



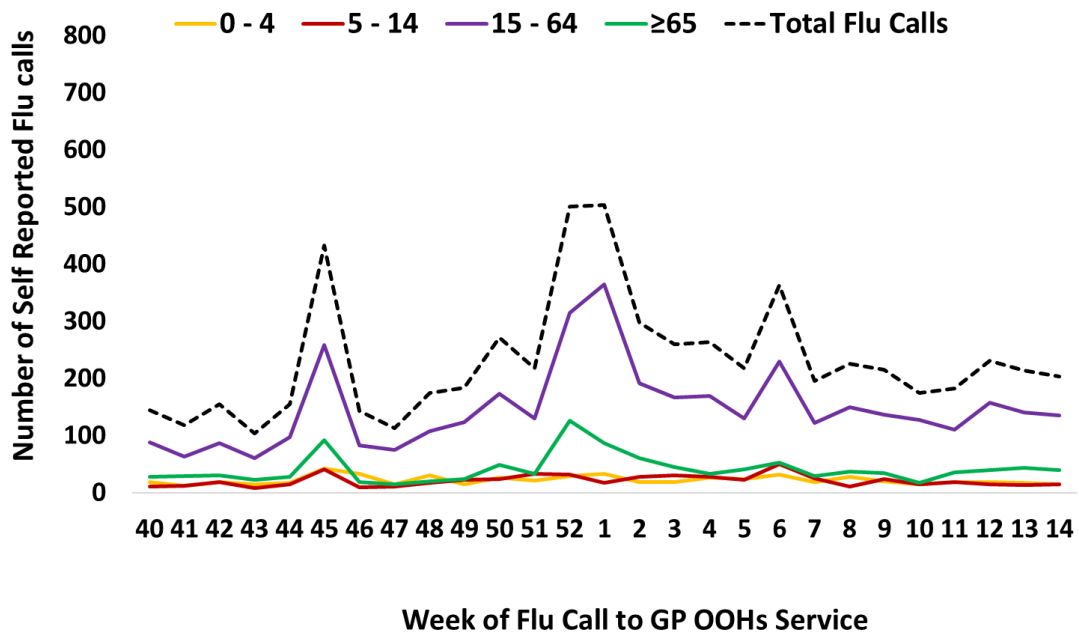
**Figure 5:** Percentage of self-reported **COUGH** calls for all ages and by age group as a proportion of total calls to GP Out-of-Hours services by week of call for the 2023/2024 season. The baseline % cough calls for all ages calculated using the MEM method on historic data is shown. *Source: GP Out-Of-Hours services in Ireland (collated by HSE & ICGP).*



**Figure 6:** Number of self-reported **COUGH** calls for all ages and by age group to GP Out-of-Hours services by week of call for the 2023/2024 season. *Source: GP Out-Of-Hours services in Ireland (collated by HSE & ICGP).*



**Figure 7:** Percentage of self-reported **FLU** calls for all ages and by age group as a proportion of total calls to GP Out-of-Hours services by week of call for the 2023/2024 season. The baseline % flu calls for all ages calculated using the MEM method on historic data is shown. *Source: GP Out-Of-Hours services in Ireland (collated by HSE & ICGP)*

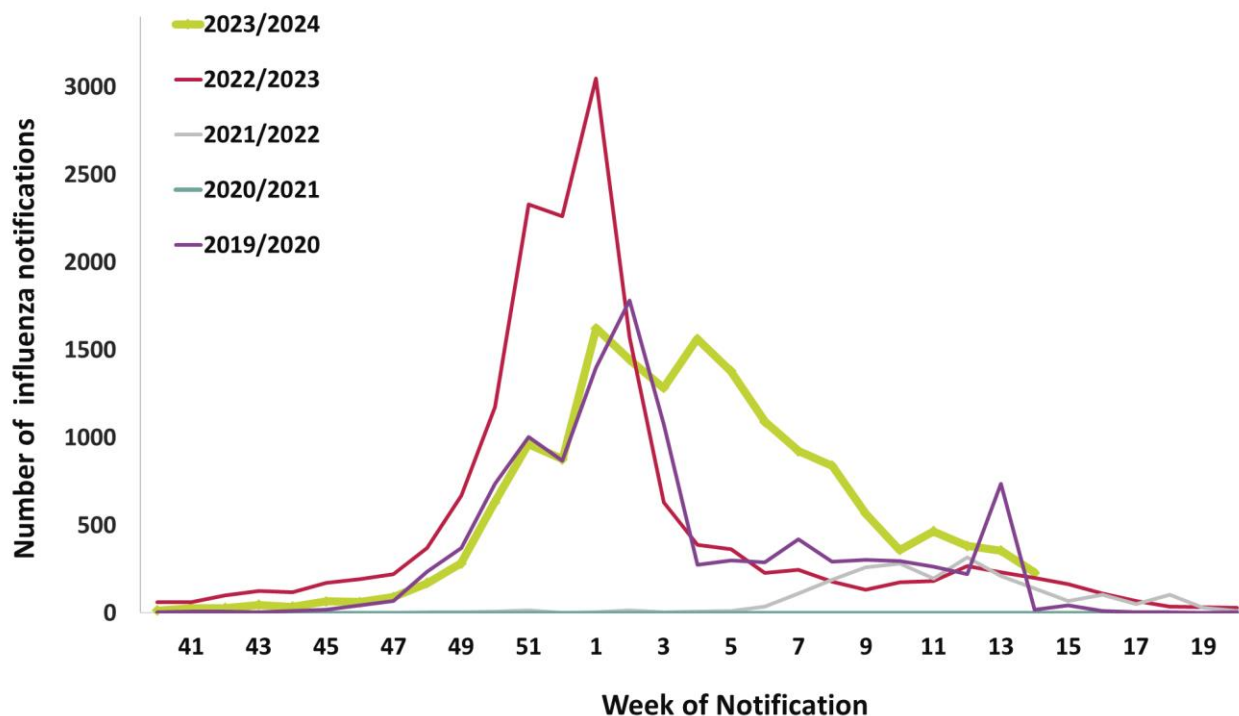


**Figure 8:** Number of self-reported **FLU** calls for all ages and by age group to GP Out-of-Hours services by week of call for the 2023/2024 season. *Source: GP Out-Of-Hours services in Ireland (collated by HSE & ICGP).*

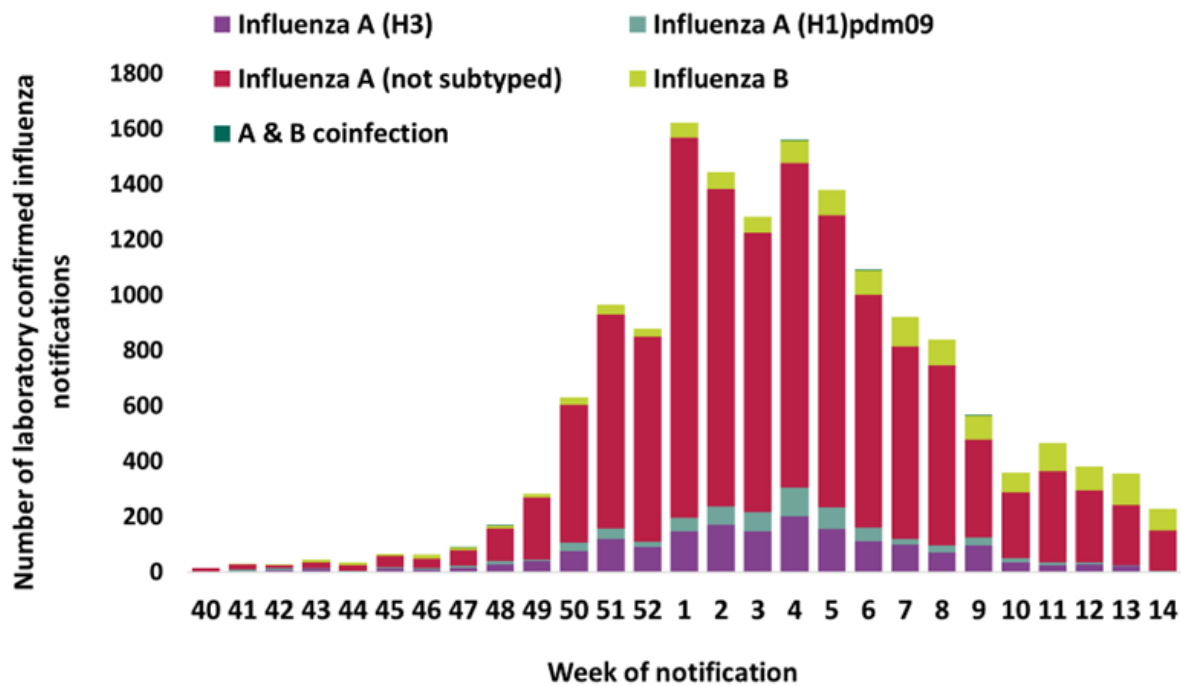
## 5. Influenza & RSV notifications

Influenza and RSV case notifications are reported on Ireland's Computerised Infectious Disease Reporting System (CIDR), including all laboratory-confirmed influenza/RSV specimens reported from all laboratories testing for influenza/RSV. Influenza and RSV notifications are reported in the [Weekly Infectious Disease Report for Ireland](#).

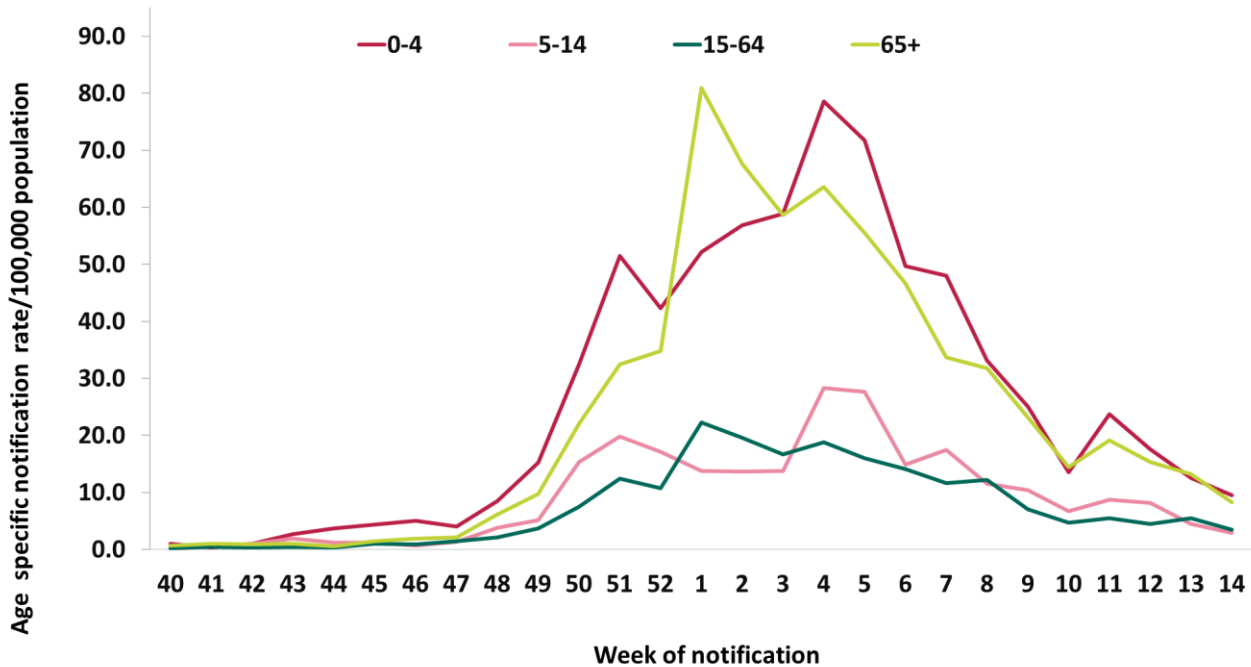
- 229 laboratory confirmed influenza cases were notified during week 14 2024 (Table 6); corresponding to an overall notification rate of 4.4/100,000 population: three A(H3), two A(H1)pdm09, 144 A (not subtyped) and 80 B. This is a decrease compared to 352 cases notified during week 13 2024 (Figure 10).
- The number of influenza notifications continues to decline, the number of flu B cases decreased this week with 80 cases notified in week 14 compared to 114 in week 13. However the proportion of notifications attributable to influenza B has been increasing, with influenza B accounting for 35% (80/229) of all notifications in week 14 compared to 32% (114/352) in week 13. Overall, the number of influenza B notifications is low.
- 15,795 laboratory confirmed influenza cases were notified for the 2023/2024 season to date (week 40 2023 to week 14 2024): 1,726 A(H3), 683 A(H1)pdm09, 12,071 A (not subtyped), 1,356 B and thirteen influenza coinfections.
- Notification rates decreased in all age groups during week 13 2024 (Figure 11). Age specific influenza notification rates were highest in the 0-4 year age group at 9.5/100,000 population, followed by the 65 and older age group at 8.2/100,000 during week 14 2024.
- The number and rate of influenza notifications were highest in the Dublin and South East health region (Table 6).
- RSV notifications remain at low levels in week 14 2024 with 15 cases notified compared to 16 cases during week 13 2024 (Figure 12).
- 7,738 RSV notifications have been reported for the 2023/2024 season to date.



**Figure 9:** Number of laboratory confirmed **Influenza** notifications to HPSC by week of notification, 2019/2020 to 2023/2024 seasons. *Source: Ireland's Computerised Infectious Disease Reporting System*



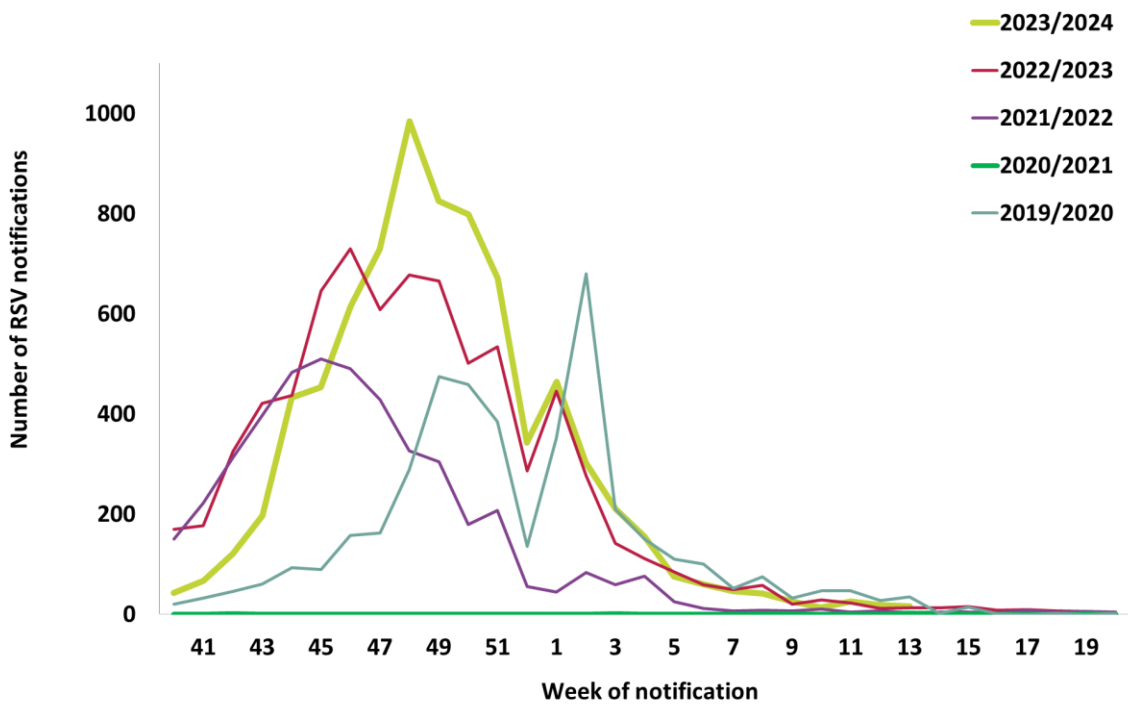
**Figure 10:** Number of laboratory confirmed **influenza** notifications by influenza type/subtype and week for the 2023/2024 season. *Source: Ireland's Computerised Infectious Disease Reporting System*



**Figure 11:** Age specific rates/100,000 population of laboratory confirmed **influenza** notifications to HPSC by week of notification for the 2023/2024 season. *Source: Ireland's Computerised Infectious Disease Reporting System.*

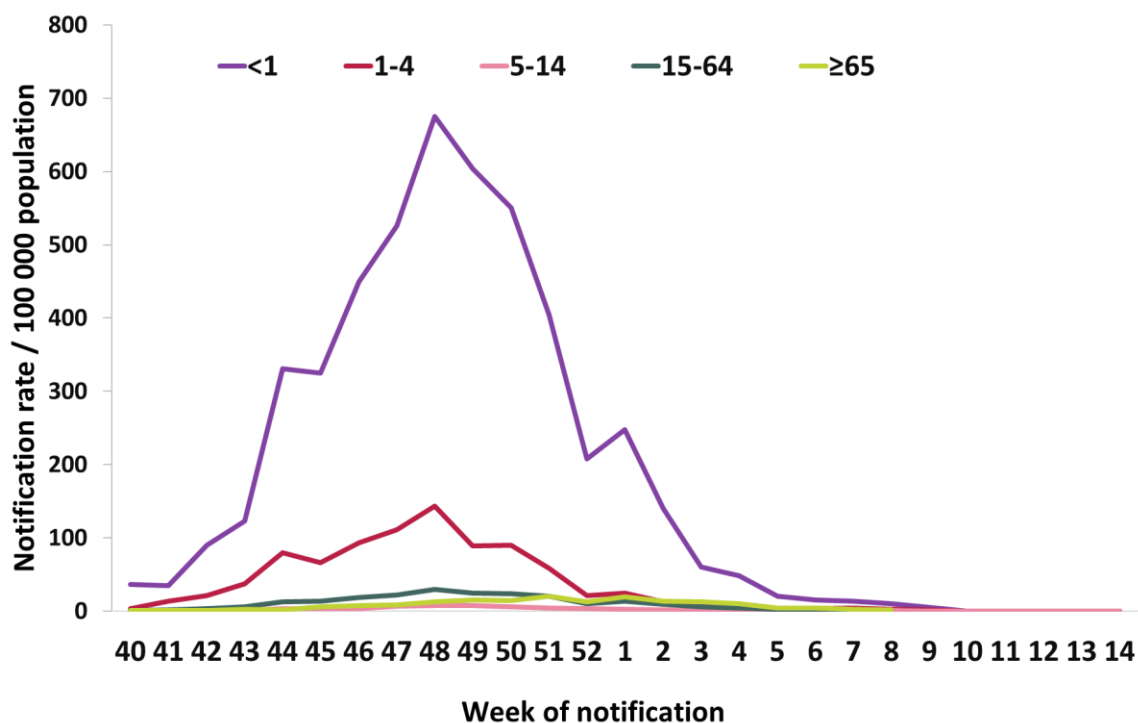
**Table 6:** Number and rate per 100,000 population of laboratory confirmed **influenza** notifications by HSE Health Region for week 14 2024 and the 2023/2024 season to date. *Source: CIDR*

HSE Health Region	Week 14 2024		2023/2024 season (Week 40 2023 - Week 14 2024)	
	Number	Rate/100,000 population	Number	Rate/100,000 population
Dublin and North East	51	4.3	3843	323.7
Dublin and Midlands	46	4.3	2980	276.5
Dublin and South East	54	5.6	2804	288.7
South West	30	4.1	2098	283.3
Mid West	12	2.9	883	213.8
West and North West	36	4.7	3184	419.1
Unknown	0		3	
<b>Total</b>	<b>229</b>	<b>4.4</b>	<b>15795</b>	<b>306.8</b>



**Figure 12:** Number of laboratory confirmed **RSV** notifications to HPSC by week of notification, 2019/2020 to 2023/2024 seasons. *Source: Ireland’s Computerised Infectious Disease Reporting System.*





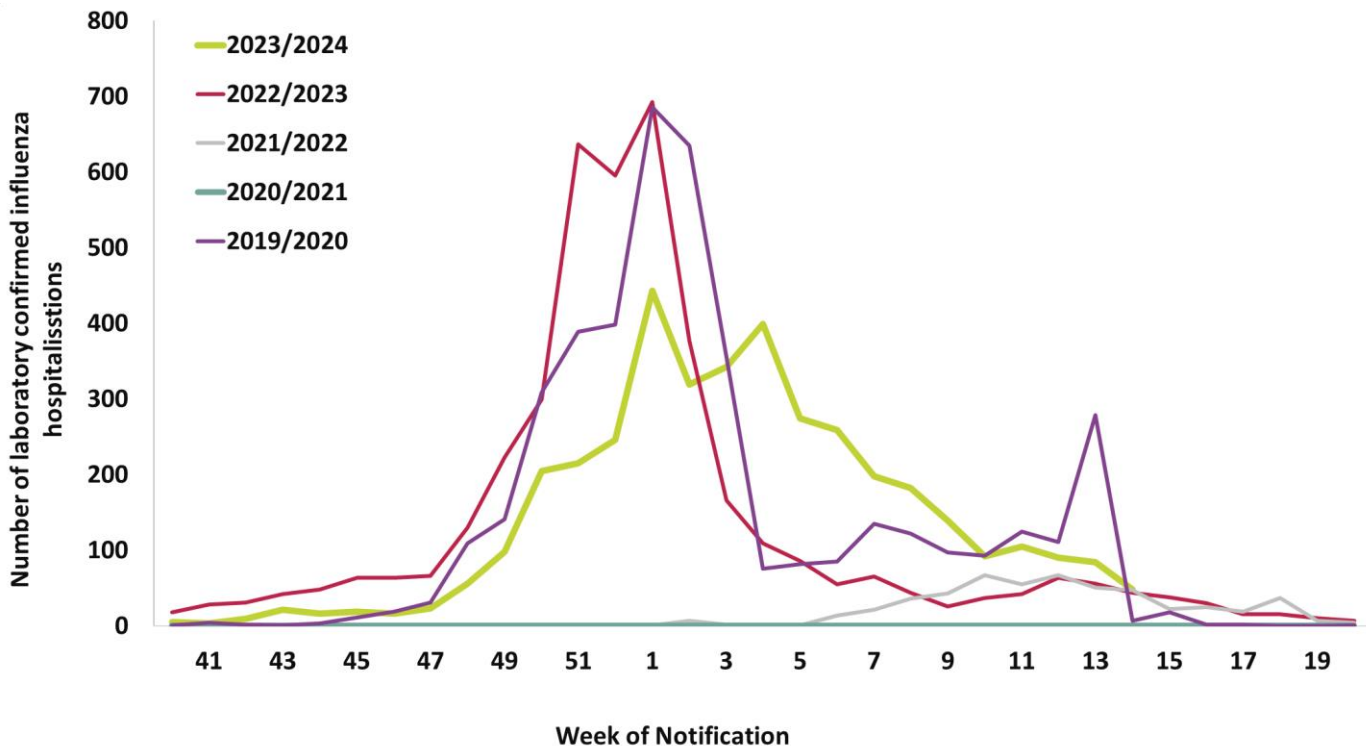
**Figure 13:** Age specific rates/100,000 population for laboratory confirmed **RSV** notifications to HPSC by week of notification for the 2023/2024 season. *Source: Ireland’s Computerised Infectious Disease Reporting System.*

**Table 7:** Number and rate/100,000 population of laboratory confirmed **RSV** notifications by HSE Health Region for week 14 2024 and the 2023/2024 season to date. *Source: CIDR*

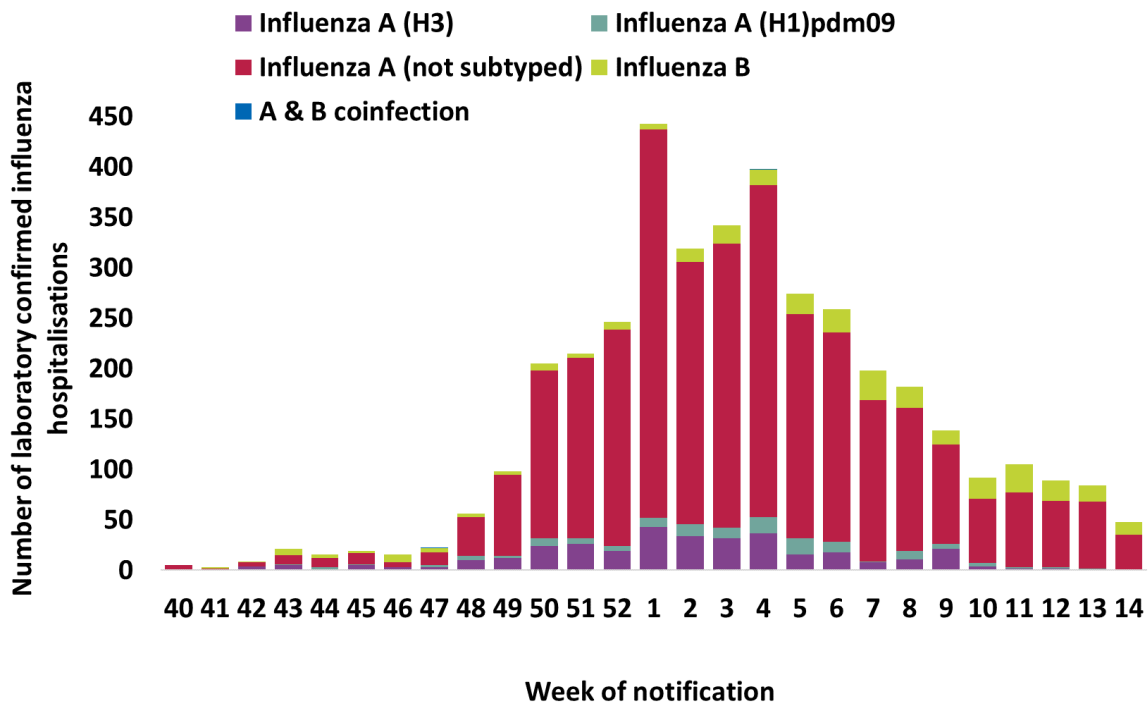
HSE Health Region	Week 14 2024		2023/2024 season (Week 40 2023 - Week 14 2024)	
	Number	Rate/100,000 population	Number	Rate/100,000 population
Dublin and North East	3	0.3	1509	127.1
Dublin and Midlands	5	0.5	1646	152.7
Dublin and South East	5	0.5	1159	119.4
South West	2	0.3	952	128.5
Mid West	0	0.0	639	154.7
West and North West	0	0.0	1848	243.3
<b>Total</b>	<b>15</b>	<b>0.3</b>	<b>7753</b>	<b>150.6</b>

## 6. Hospitalisations

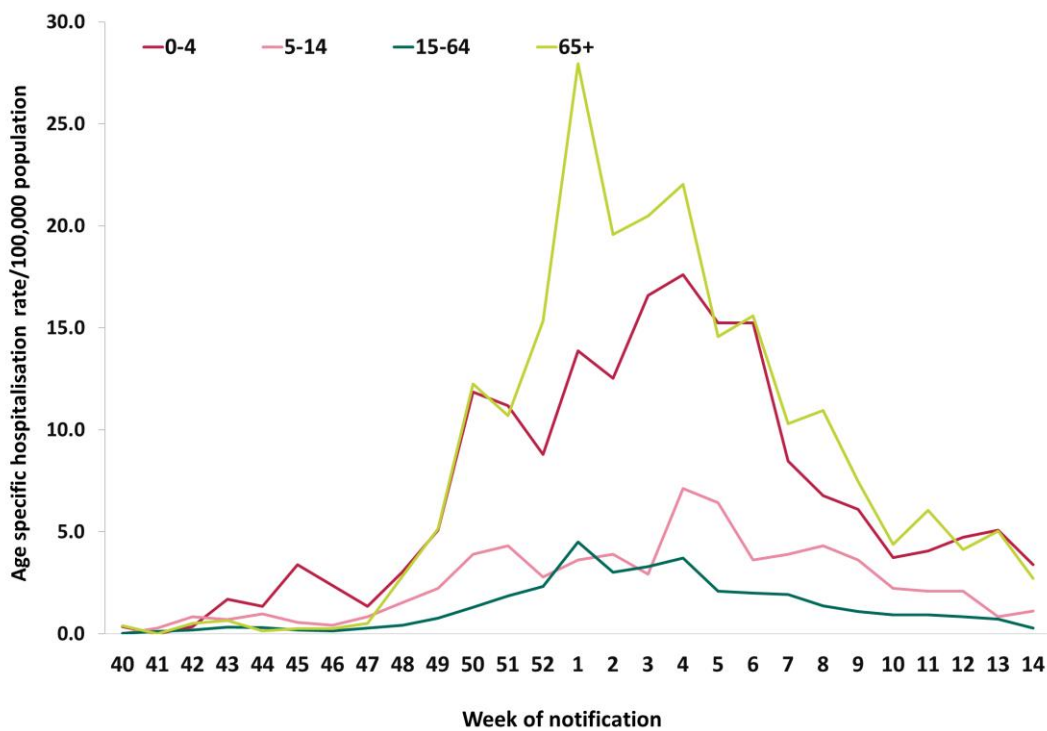
- During week 14 2024, 48 laboratory confirmed influenza hospital inpatients were notified (one A(H3), 34 A (not subtyped) and 13 B), a decrease compared to 84 in week 13 2024. (Figures 14 and 15).
- During the 2023/2024 season to date, 3,910 laboratory confirmed influenza hospital inpatients were reported: 351 A(H3), 124 A(H1)pdm09, 3,124 A (not subtyped), 307 B and two A and B coinfections and two influenza A(H1)pdm09 and A(H3) coinfections.
- Influenza B hospitalisations decreased this week from 16 notifications in week 13 to 13 in week 14. Influenza B accounted for 27% (13/48) of all hospitalisations during week 14 compared to 19% (16/84) in week 13 and 22% (20/91) in week 12.
- During week 14 2024, the number and rate of age specific influenza hospitalisation rates were low in all age groups (Figure 16) (Table 8).
- RSV hospitalisations remained low during week 14 2024, nine laboratory confirmed RSV hospitalised cases were notified, compared to four cases in week 13 2024 (Figure 17).
- 3,284 RSV hospitalisations were reported for the 2023/2024 season to date.
- The number of laboratory confirmed influenza and RSV notifications by patient type and week for the 2023/2024 season are reported in Tables 9 and 11.



**Figure 14:** Number of notified **influenza** hospital inpatients, by week of notification and season, for the 2019/2020 to 2023/2024 seasons. *Source: Ireland's Computerised Infectious Disease Reporting System.*



**Figure 15:** Number of notified laboratory confirmed **influenza** hospital inpatients by influenza type/subtype by week for the 2023/2024 season. *Source: Ireland's Computerised Infectious Disease Reporting System.*



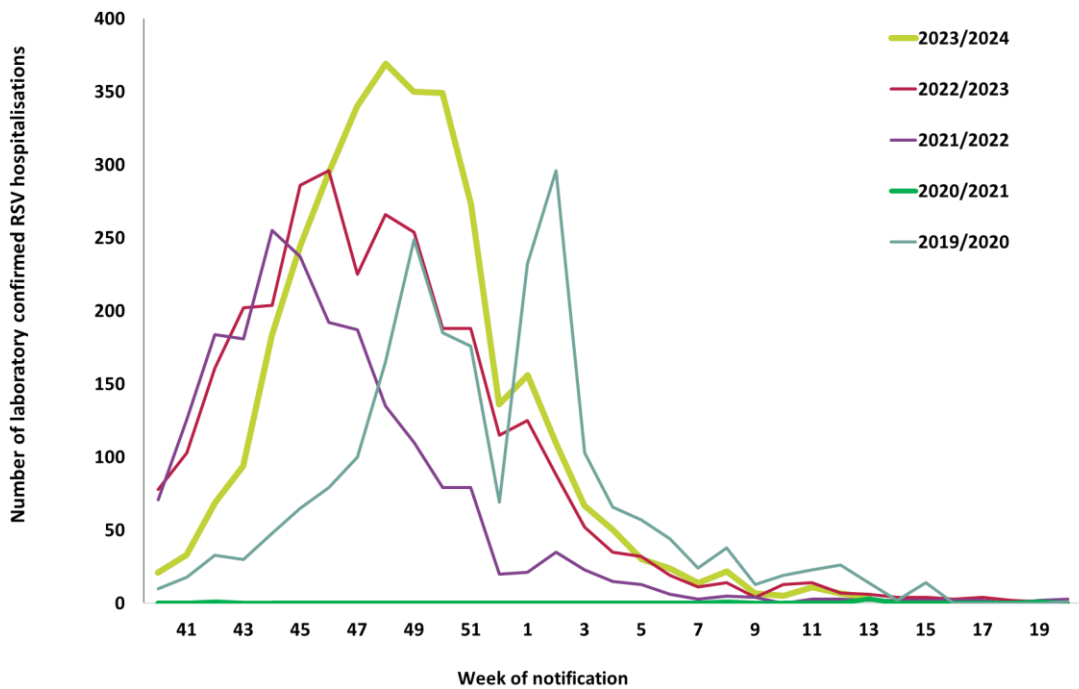
**Figure 16:** Age specific rates/100,000 population for laboratory confirmed **influenza** cases reported as **hospital inpatients** by week of notification for the 2023/2024 season. *Source: Ireland's Computerised Infectious Disease Reporting System.*

**Table 8:** Number, percentage and rate per 100,000 population of notified laboratory-confirmed **influenza hospitalised cases notified** in week 14 2024 and the 2023/2024 season (week 40 2023 onwards). *Source: Ireland's Computerised infectious Disease Reporting System*

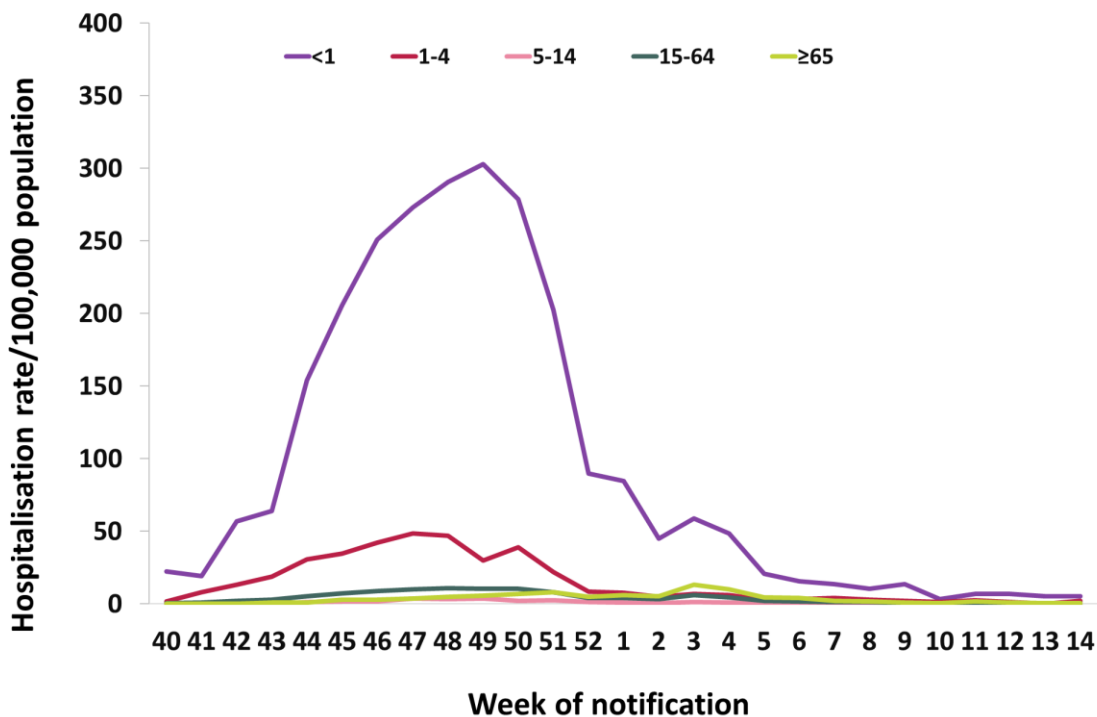
Age (years)	Hospitalised (Week 14)			Season to date (Week 40 2023 - Week 14 2024)		
	Number	% of all Hospitalisations	Rate/ 100,000	Number	% of all Hospitalisations	Rate/ 100,000
<1	0	0.0	0.0	115	2.9	199.0
1-4	10	20.8	4.2	434	11.1	182.6
5-14	8	16.7	1.1	483	12.4	67.4
15-24	0	0.0	0.0	159	4.1	24.7
25-34	3	6.3	0.5	222	5.7	35.3
35-44	1	2.1	0.1	243	6.2	30.6
45-54	4	8.3	0.6	202	5.2	28.3
55-64	1	2.1	0.2	326	8.3	56.2
≥65	21	43.8	2.7	1726	44.1	222.3
<b>Total</b>	<b>48</b>	<b>100</b>	<b>0.9</b>	<b>3910</b>	<b>100</b>	<b>75.9</b>

**Table 9:** Number of notified laboratory-confirmed **influenza** cases by patient type and week of notification 2023/2024 season (week 40 2023 onwards). *Source: Ireland's Computerised infectious Disease Reporting System*

	Patient Type							Total
	GP Patient	ED patient	Hospital Inpatient	Hospital Day Patient	Hospital Outpatient	Other	Unknown	
Week 14	7	130	48	3	11	12	18	<b>229</b>
Week 13	23	167	84	2	29	4	43	<b>352</b>
Week 12	30	183	91	1	21	4	52	<b>382</b>
Week 11	21	227	109	6	10	6	88	<b>467</b>
Week 10	26	176	92	3	24	9	28	<b>358</b>
Week 9	59	235	139	4	29	14	86	<b>566</b>
Week 8	74	409	182	6	30	5	133	<b>839</b>
Week 7	91	407	198	9	57	30	130	<b>922</b>
Week 6	75	544	259	9	71	18	114	<b>1090</b>
Week 5	130	645	274	8	50	30	242	<b>1379</b>
Week 4	139	683	398	12	83	47	200	<b>1562</b>
Week 3	117	592	342	16	49	33	134	<b>1283</b>
Week 2	111	802	319	17	55	30	110	<b>1444</b>
Week 1	96	809	443	14	73	28	161	<b>1624</b>
Week 52	56	451	246	11	33	14	66	<b>877</b>
Week 51	66	535	215	7	53	13	75	<b>964</b>
Week 50	40	309	205	5	35	3	35	<b>632</b>
Week 49	11	136	98	1	17	7	13	<b>283</b>
Week 48	19	63	56	1	11	6	14	<b>170</b>
Week 47	9	39	23	1	9	2	7	<b>90</b>
Week 46	8	28	16	0	5	1	5	<b>63</b>
Week 45	9	26	19	0	6	4	2	<b>66</b>
Week 44	2	15	16	1	1	0	1	<b>36</b>
Week 43	8	16	21	0	0	0	1	<b>46</b>
Week 42	8	9	9	0	1	0	1	<b>28</b>
Week 41	6	15	3	1	2	0	2	<b>29</b>
Week 40	0	6	5	0	3	0	0	<b>14</b>
<b>Total</b>	<b>1241</b>	<b>7657</b>	<b>3910</b>	<b>138</b>	<b>768</b>	<b>320</b>	<b>1761</b>	<b>15795</b>



**Figure 17:** Number of notified RSV hospitalised cases notified, by week of notification and season, for the 2019/2020 to 2023/2024 seasons. Source: Ireland’s Computerised Infectious Disease Reporting System.



**Figure 18:** Age specific notification rates/100,000 population for laboratory confirmed RSV hospitalised cases notified by week of notification for the 2023/2024 season. Source: Ireland’s Computerised Infectious Disease Reporting System

**Table 10:** Number, percentage and rate per 100,000 population of notified laboratory-confirmed RSV hospitalised cases notified in week 14 2024 and the 2023/2024 season (week 40 2023 onwards). *Source: Ireland's Computerised infectious Disease Reporting System*

Age (years)	Hospitalised (Week 14)			Season to date (Week 40 2023 - Week 14 2024)		Rate/ 100,000 population
	Number	% of all Hospitalisations	Rate/ 100,000 population	Number	% of all Hospitalisations	
<1	3	33.3	5.2	1422	43.3	2460.4
1-4	2	22.2	0.8	890	27.1	374.5
5-14	0	.0	0.0	189	5.8	26.4
15-24	0	.0	0.0	28	0.9	4.3
25-34	0	.0	0.0	31	0.9	4.9
35-44	0	.0	0.0	39	1.2	4.9
45-54	1	11.1	0.1	50	1.5	7.0
55-64	1	11.1	0.2	92	2.8	15.9
≥65	2	22.2	0.3	543	16.5	69.9
<b>Total</b>	<b>9</b>	<b>100</b>	<b>0.2</b>	<b>3284</b>	<b>100</b>	<b>63.8</b>

**Table 11:** Number of notified laboratory confirmed RSV cases by patient type and week of notification, 2023/2024 season (week 40 2023 onwards). *Source: Ireland's Computerised infectious Disease Reporting System*

	Patient Type							
	GP Patient	ED patient	Hospital Inpatient	Hospital Day Patient	Hospital Outpatient	Other	Unknown	Total
Week 14	0	4	9	0	0	0	2	15
Week 13	1	6	4	0	0	0	5	16
Week 12	0	8	7	0	1	1	2	19
Week 11	0	10	11	0	1	1	3	26
Week 10	0	6	5	0	1	0	2	14
Week 9	1	10	7	4	0	1	3	26
Week 8	4	8	22	0	0	0	8	42
Week 7	6	12	14	1	0	1	13	47
Week 6	7	17	24	1	3	0	8	60
Week 5	3	19	30	2	1	1	20	76
Week 4	16	55	50	3	7	6	18	155
Week 3	18	60	67	2	9	26	29	211
Week 2	14	115	109	7	10	12	36	303
Week 1	17	145	156	10	14	16	106	464
Week 52	7	137	136	7	5	17	34	343
Week 51	33	264	273	8	13	9	71	671
Week 50	33	326	349	6	33	12	39	798
Week 49	26	344	351	8	19	9	68	825
Week 48	20	481	374	11	15	11	72	984
Week 47	14	283	342	3	18	17	52	729
Week 46	7	258	296	8	8	1	37	615
Week 45	7	166	246	5	6	2	22	454
Week 44	6	214	185	3	12	3	10	433
Week 43	2	74	94	0	4	2	21	197
Week 42	2	32	69	2	1	6	8	120
Week 41	1	23	33	1	1	1	7	67
Week 40	1	15	21	1	2	0	3	43
<b>Total</b>	<b>246</b>	<b>3092</b>	<b>3284</b>	<b>93</b>	<b>184</b>	<b>155</b>	<b>699</b>	<b>7753</b>

## 7. Intensive Care Surveillance

The Intensive Care Society of Ireland (ICSI) and the HSE Critical Care Programme conducts enhanced surveillance (established during the 2009 pandemic), on all intensive care patients with laboratory confirmed influenza. HPSC processes and reports on this information on behalf of the regional Directors of Public Health/Medical Officers of Health.

- There was one laboratory confirmed influenza A(H3) case admitted to intensive care unit (ICU) and notified to HPSC during week 14 2024.
- One-hundred and ten influenza cases (107 influenza A (29 A(H3), 16 A(H1)pdm09 and 62 A (not subtyped)), two influenza B and one influenza A and B coinfection) have been notified for the season to date (weeks 40 2023- 14 2024).

**Table 12:** Cumulative number and age specific rate per 100,000 population of laboratory confirmed notified influenza hospitalised and intensive care cases, week 40 2023 – week 14 2024. *Source: Ireland’s Computerised infectious Disease Reporting System*

Age-group (years)	Hospitalised		Admitted to ICU	
	Number	Rate/100,000 population	Number	Rate/100,000 population
<1	115	199.0	4	6.9
1-4	434	182.6	4	1.7
5-14	483	67.4	8	1.1
15-24	159	24.7	3	0.5
25-34	222	35.3	5	0.8
35-44	243	38.7	5	0.6
45-54	202	28.3	17	2.4
55-64	326	56.2	19	3.3
≥65	1726	222.3	45	5.8
<b>Total</b>	<b>3910</b>	<b>75.9</b>	<b>110</b>	<b>2.1</b>

## 8. Mortality Surveillance

Influenza deaths include all deaths in notified influenza cases. HPSC receives daily mortality data from the General Register Office (GRO) on all deaths from all causes registered in Ireland. These data have been used to monitor excess all-cause and influenza and pneumonia mortality as part of the influenza surveillance system and the European Mortality Monitoring Project. Excess mortality analyses are corrected for reporting delays with the standardised EuroMOMO algorithm. Due to delays in death registrations in Ireland, excess mortality data included in this report are reported with a one-week lag time. These data are provisional due to the time delay in deaths’ registration in Ireland. <http://www.euromomo.eu/>

- There were no deaths in notified influenza cases reported to HPSC during week 14 2024.
- For the season to date (weeks 40 2023 - 14 2024), 188 deaths in notified influenza cases; 44 A(H3), 16 A(H1)pdm09, 126 A (not-subtyped) and two influenza B.
- There was no excess all-cause mortality for the entire population reported for week 13 2024.

## 9. Outbreak Surveillance

In this surveillance report, ARI outbreaks refer to outbreaks of acute respiratory infection caused by pathogens other than influenza, SARS-CoV-2 or RSV. COVID-19 outbreaks are not included in this report; surveillance data on COVID-19 outbreaks are detailed on the HPSC website. <https://www.hpsc.ie/a-z/respiratory/coronavirus/novelcoronavirus/casesinireland/>

- During week 14 2024, three influenza A (not subtyped) outbreaks (one in a nursing home and two in acute hospitals) were notified to HPSC (Tables 13 & 14).
- There have been 300 ARI/influenza/RSV (excluding COVID-19) outbreaks notified to HPSC to date this season, including 221 influenza outbreaks, 37 RSV outbreaks and 42 ARI outbreaks.

**Table 13:** Summary of influenza, RSV and ARI (influenza/RSV/SARS-CoV-2 negative) outbreaks by HSE Health Region during week 14 2024 and the 2023/2024 season (week 40 2023 – week 14 2024) *Source: CIDR*

HSE Health Region	Influenza		RSV		ARI		Total	
	Week 14	2023/2024	Week 14	2023/2024	Week 14	2023/2024	Week 14	2023/2024
Dublin and North East	1	37	0	7	0	21	1	65
Dublin and Midlands	0	33	0	12	0	0	0	45
Dublin and South East	1	49	0	3	0	9	1	61
South West	1	28	0	1	0	5	1	34
Mid West	0	8	0	3	0	0	0	11
West and North West	0	65	0	9	0	7	0	81
Unknown	0	1	0	2	0	0	0	3
<b>Total</b>	<b>3</b>	<b>221</b>	<b>0</b>	<b>37</b>	<b>0</b>	<b>42</b>	<b>3</b>	<b>300</b>

**Table 14:** Summary of influenza, RSV and ARI (influenza/RSV/SARS-CoV-2 negative) outbreaks by outbreak setting during week 14 2024 and the 2023/2024 season (week 40 2023 – week 14 2024). *Source: CIDR*

Setting	Influenza		RSV		ARI		Total	
	Week 14	2023/2024	Week 14	2023/2024	Week 14	2023/2024	Week 14	2023/2024
Community hospital/Long-stay unit	0	17	0	2	0	3	0	22
Nursing Home	1	79	0	15	0	30	1	124
Hospital	2	72	0	10	0	0	2	82
Residential Institution	0	27	0	4	0	5	0	36
Childcare facility	0	2	0	2	0	0	0	4
Other settings	0	24	0	4	0	4	0	32
<b>Total</b>	<b>3</b>	<b>221</b>	<b>0</b>	<b>37</b>	<b>0</b>	<b>42</b>	<b>3</b>	<b>300</b>



## 10. International Summary

According to the [European Respiratory Virus Surveillance Summary](#), in the WHO European region during week 13 2024 (including data up to 31/03/2024), influenza activity remains widespread but is steadily decreasing; all three influenza virus types/subtypes - A(H1N1)pdm09, A(H3) and B - are co-circulating, A(H1N1)pdm09 continues to be dominant in most countries. While the proportion of influenza B detections has increased relative to type A, influenza B detections remain low overall. During the 2023/2024 season, RSV activity began increasing around week 41, reaching a peak in week 50 and has been declining to baseline levels in recent weeks.

As of 31<sup>st</sup> March 2024, WHO has reported that globally influenza detections continue to decrease in most countries in the Northern Hemisphere. Globally, the proportion of influenza B viruses increased compared to the previous week. In the countries of North Africa and Central America and the Caribbean, small increases were reported. Influenza A(H1N1)pdm09 viruses predominated among the subtyped influenza A viruses, with differences by influenza transmission zone. Influenza activity in the Southern Hemisphere is generally low, although some countries in Tropical South America and South East Asia reported increases in activity recently. Detections of influenza A viruses predominate with differences by influenza transmission zone.

See [ECDC](#) and [WHO](#) influenza surveillance reports for further information.

## 11. WHO recommendations on the composition of influenza virus vaccines

The WHO vaccine strain selection committee recommends that quadrivalent egg-based vaccines for use in the 2024/2025 northern hemisphere influenza season contain the following:

- an A/Victoria/4897/2022 (H1N1)pdm09-like virus;
- an A/Thailand/8/2022 (H3N2)-like virus; and
- a B/Austria/1359417/2021 (B/Victoria lineage)-like virus.

[Recommended composition of influenza virus vaccines for use in the 2024-2025 northern hemisphere influenza season \(who.int\)](#)

- Further information on influenza is available on the following websites:
  - European respiratory virus surveillance summary <https://erviss.org/>
  - Europe – ECDC <http://ecdc.europa.eu/>
  - UK Health Security Agency <https://www.gov.uk/government/collections/weekly-national-flu-reports>
  - United States CDC <http://www.cdc.gov/flu/weekly/fluactivitysurv.htm>
  - Public Health Agency of Canada <http://www.phac-aspc.gc.ca/fluwatch/index-eng.php>
- Influenza case definition in Ireland <https://www.hpsc.ie/a-z/respiratory/influenza/casedefinitions/>
- COVID-19 case definition in Ireland <https://www.hpsc.ie/a-z/respiratory/coronavirus/novelcoronavirus/casedefinitions/>
- Avian influenza overview May – August 2020 <https://www.ecdc.europa.eu/en/publications-data/avian-influenza-overview-may-august-2020>
- Avian influenza: EU on alert for new outbreaks <https://www.ecdc.europa.eu/en/news-events/avian-influenza-eu-alert-new-outbreaks>
- Information on COVID-19 in Ireland is available on the HPSC website <https://www.hpsc.ie/a-z/respiratory/coronavirus/novelcoronavirus/>
- The WHO categorised COVID-19 as a pandemic on 11 March 2020. For more information about the situation in the WHO European Region visit:
  - WHO website: <https://www.who.int/emergencies/diseases/novel-coronavirus-2019>
  - ECDC website: <https://www.ecdc.europa.eu/en/novel-coronavirus-china>

Further information on influenza in Ireland is available at [www.hpsc.ie](http://www.hpsc.ie)

#### Acknowledgements

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