Influenza Surveillance Report - Week 18 2023 (1st - 7th May 2023)





Clip Intensive Care Society of Ireland



Summary

Influenza activity remained at low levels in Ireland during week 18 2023, influenza B viruses were the dominant circulating viruses. Other respiratory viruses that are circulating include rhino/enteroviruses.

- Influenza-like illness (ILI): The sentinel GP influenza-like illness (ILI) consultation rate was 3.6 per 100,000 population during week 18 2023. This is a stable trend compared to the updated rate of 4.4/100,000 during week 17 2023. ILI consultation rates have been below the Irish baseline threshold (18.1/100,000 population) for the last 13 weeks (since week 6 2023). Sentinel GP ILI age specific rates were below age specific baseline thresholds in all age groups during week 18 2023.
- <u>National Virus Reference Laboratory (NVRL)</u>: During week 18 2023, of 40 sentinel GP Acute Respiratory Infection (ARI) specimens tested and reported by the NVRL, seven (17.5%) were positive for SARS-CoV-2, one (2.5%) was positive for influenza B and none were positive for RSV. There were six (15%) rhino/enterovirus and one (2.5%) PIV-3 positive specimen in week 18 2023.
- Of 104 non-sentinel respiratory specimens tested by the NVRL during week 18 2023, two (1.9%) was positive for influenza: one influenza B and one influenza A (H3). There was four (3.8%) RSV positive specimens in week 18. Rhino/enterovirus positivity remained elevated at 21.2% (22/104) in week 18, compared to 20% (27/135) in week 17. PIV-3 positivity decreased to 3.8% (4/104) compared to 11.1% (15/135) in week 17.
- Of 1,999 sentinel GP ARI specimens and non-sentinel respiratory specimens positive for influenza and reported by the NVRL during the 2022/2023 season, 486 (24.3%) were coinfected with other respiratory viruses.
- <u>Influenza notifications</u>: 37 laboratory confirmed influenza cases were notified during week 18 2023 five influenza A (not subtyped) and 32 influenza B. This is a decrease compared to 69 cases reported during week 17 2023. Age specific rates were low in all age groups during week 18.
- <u>**RSV notifications**</u>: Seven RSV cases were notified during week 18 2023, a stable trend compared to nine cases notified in week 17 2023.
- <u>Hospitalisations</u>: During week 18 2023, 15 laboratory confirmed influenza cases were reported as hospital inpatients: two influenza A (not subtyped) and 13 influenza B cases. Influenza hospitalised cases during week 18 remained stable at 15, compared to 15 in week 17 2023.
- <u>Critical care admissions</u>: No laboratory confirmed case was admitted to critical care units and notified to HPSC during week 18 2023. During weeks 40 2022-18 2023, 184 laboratory confirmed influenza cases 32 A(H1)pdm09, 31 A(H3), 107 A (not subtyped) and 14 influenza B have been admitted to critical care and notified to HPSC. Age specific rates for the season to date were highest in those aged 65 years and older. During weeks 40 2022-18 2023, of 161 laboratory confirmed influenza ICU cases with known influenza vaccination status, 108 (67%) were reported as NOT having received the 2022/2023 influenza vaccine.
- <u>Mortality:</u> There were no deaths in notified influenza cases reported to HPSC during week 18 2023. During weeks 40 2022-18 2023, 196 deaths in notified influenza cases were reported 32 influenza A(H3), 26 A(H1)pdm09, 131 A (not subtyped), six influenza B and one influenza A and B coinfection. During the 2022/2023 season, excess all-cause mortality was reported for five consecutive weeks (weeks 51 2022 3 2023). Excess pneumonia and influenza mortality was reported for four consecutive weeks (weeks 51 2022 2 2023).
- **Outbreaks:** There were no influenza/RSV/acute respiratory infection/COVID-19 & influenza mixed outbreaks notified during week 18 2023. During weeks 40 2022-18 2023, 156 influenza outbreaks were notified.
- <u>International</u>: Globally, influenza activity continued to decrease following a peak in late 2022. In Europe, influenza activity has decreased in recent weeks, while some countries in the southern hemisphere have reported an increase in influenza.

1. GP sentinel surveillance system - Clinical Data

- During week 18 2023, 11 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, compared to 4.4 per 100,000 population during week 17 (Figure 1).
- Sentinel GP ILI consultation rates were below the baseline threshold during week 18 2023.
- The sentinel GP ILI consultation rates have been below the Irish sentinel GP ILI baseline threshold (18.1/100,000 population) for 13 consecutive weeks, since week 6 2023.
- Age specific ILI consultation rates were below age specific baseline thresholds in all age groups during week 18 2023 (Figure 2, Table 1).
- The Irish sentinel baseline ILI threshold for the 2022/2023 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. Age specific MEM threshold levels are shown in Table 1.

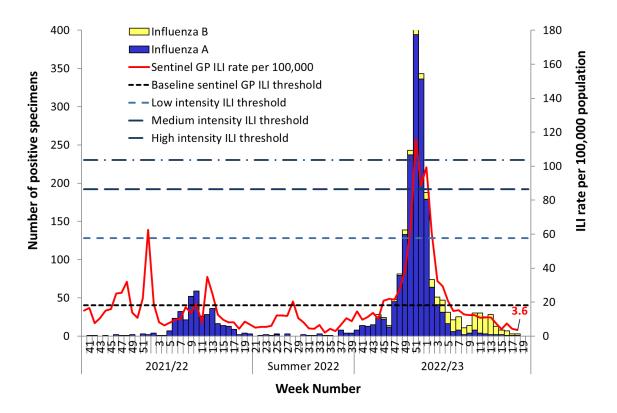


Figure 1: Sentinel GP Influenza-like illness (ILI) consultation rates per 100,000 population, baseline ILI threshold, medium and high intensity ILI thresholds and number of positive influenza A and B specimens tested by the NVRL, by influenza week and season. *Source: ICGP and NVRL*

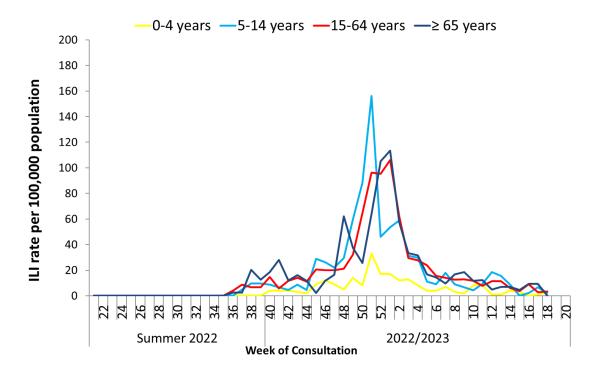


Figure 2: Age specific sentinel GP ILI consultation rate per 100,000 population by week during the summer of 2022 and the 2022/2023 influenza season to date. *Source: ICGP*.

Table 1: Age specific sentinel GP ILI consultation rate per 100,000 population by week (weeks 48 2022-18 2023),

 colour coded by sentinel GP ILI age specific Moving Epidemic Method (MEM) threshold levels. *Source: ICGP.*

48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
27.9	38.9	63.0	116.2	88.6	99.4	60.7	32.4	29.3	20.6	14.7	15.2	12.7	12.4	12.4	10.8	11.1	11.0	7.7	4.1	7.5	4.4	3.6
27.3	60.9	71.1	154.3	57.2	62.5	58.4	40.6	32.3	13.5	12.1	22.5	10.5	7.3	14.7	18.5	13.9	11.9	11.7	4.4	1.5	5.9	6.1
21.1	32.1	64.6	96.2	95.4	106.0	62.2	29.6	27.8	23.8	15.6	14.1	12.6	12.8	11.9	8.0	11.5	11.5	6.2	3.8	9.1	2.9	3.5
62.3	37.5	25.7	63.8	105.0	113.5	57.3	33.2	31.6	16.6	14.3	9.5	16.6	18.5	11.6	12.2	4.9	7.0	7.0	4.7	9.4	9.3	0.0
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	MEM Threshold Levels	Below Baseline	Low	Moderate	High	Extraordinary
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2. Influenza and Other Respiratory Virus Detections - NVRL

The data reported in this section for the 2022/2023 influenza season refers to sentinel GP ILI/ARI and non-sentinel respiratory specimens routinely tested for influenza, 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). In Ireland, virological surveillance for influenza, RSV and other respiratory viruses (ORVs) undertaken by the Irish sentinel GP network is integrated into current testing structures for COVID-19 primary care referrals. As of 9th November 2022, the acute respiratory (ARI) case definition is being used by sentinel GPs for surveillance purposes and to identify cases for respiratory virus swabbing. Case definitions are available in Section 12. Sentinel GPs re-commenced in-surgery swabbing of ARI patients on November 16th 2022.

- A lag time with testing and reporting is noted for the most recent surveillance week.
- During week 18 2023, of 40 sentinel GP Acute Respiratory Infection (ARI) specimens tested and reported by the NVRL, seven (17.5%) were positive for SARS-CoV-2, one (2.5%) was positive for influenza B and none were positive for RSV. hMPV positivity decreased to 2.5% (1/40) in week 18, compared to 5.7% (3/53) in week 17. There were six (15%) rhino/enterovirus and one (2.5%) PIV-3 positive specimen in week 18 2023.
- During week 17 2023, of 53 sentinel GP ARI specimens tested and reported by the NVRL, one (1.9%) were positive for influenza B. There were four (7.5%) specimens positive for SARS-CoV-2 and no specimens were positive for RSV. There were six (11.3%) rhino/enterovirus and seven (13.2%) PIV-3 positive specimens in week 17 2023.
- Of 104 non-sentinel respiratory specimens tested and reported by the NVRL during week 18 2023, two (1.9%) were positive for influenza: one influenza B and one influenza A(H3).
- During week 17 2023, of 135 non-sentinel respiratory specimens tested, two (1.5%) were positive for influenza: one influenza B and one influenza A (not subtyped).
- RSV positivity (non-sentinel respiratory specimens) was at low levels in recent weeks, four RSV specimens were detected during week 18 (3.8%) and no positive RSV specimens were detected during week 17 2023.
- Rhinovirus/enterovirus positivity from non-sentinel respiratory specimens remained elevated at 21.2% (22/104) during week 18 2023 compared to 20% (27/135) during week 17 2023 (Figure 3b).
- Parainfluenza virus type 3 (PIV-3) positivity decreased in non-sentinel respiratory specimens to 3.8% (4/104) in week 18 2023 compared to 11.1% (15/135) in week 17 2023.
- Other respiratory viruses (ORVs) are being detected at lower levels (Figure 3a and 3b).
- Of 1,999 sentinel GP ARI specimens and non-sentinel respiratory specimens positive for influenza and reported by the NVRL during the 2022/2023 season, 486 (24.3%) were coinfected with other respiratory viruses.

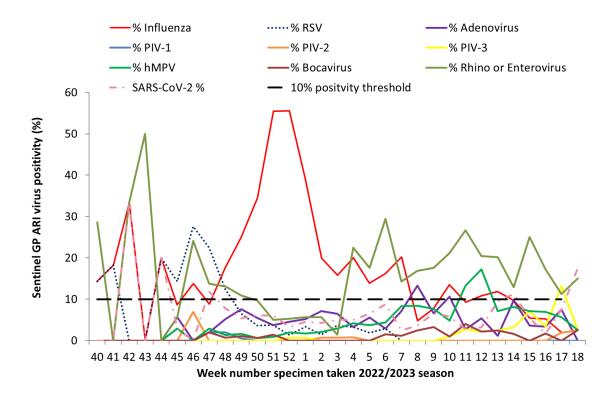


Figure 3a: Percentage positive results for **sentinel GP ARI** specimens tested by the NVRL for influenza, RSV and other respiratory viruses by week specimen was taken, weeks 40 2022-18 2023. *Source: NVRL*

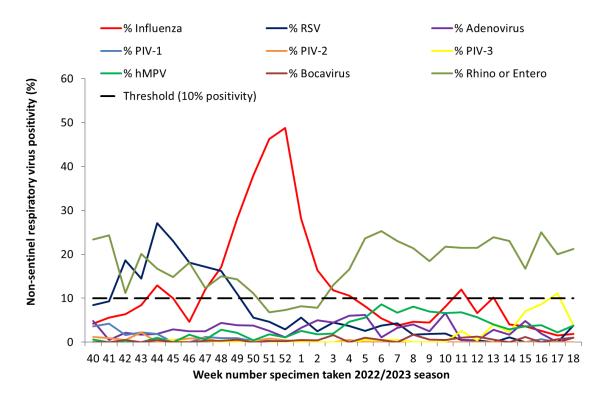


Figure 3b: Percentage positive results for **non-sentinel respiratory** specimens tested by the NVRL for influenza, RSV and other respiratory viruses by week specimen was taken, weeks 40 2022-18 2023. *Source: NVRL*

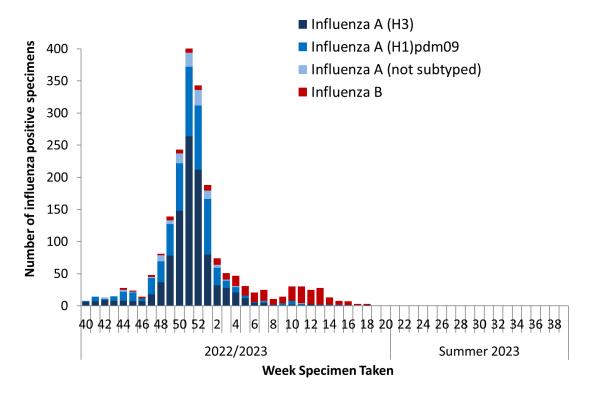


Figure 4: Number of positive influenza specimens (from sentinel GP ARI and non-sentinel respiratory sources) tested by the NVRL by influenza type/subtype and by week specimen was taken for the 2022/2023 influenza season. *Source: NVRL*

Table 2: Number of sentinel GP ARI and non-sentinel respiratory specimens tested by the NVRL and positive influenza results, for weeks 17 and 18 2023 and the 2022/2023 season (weeks 40 2022-18 2023). *Source: NVRL*

Surveillance	Specimen type	Total	Number	% Influenza		Inf	fluenza A			Influer	nza B	
period	specifien type	tested	influenza	positive	A(H1)pdm09	A(H3)	A (not subtyped)	Total	В	B Victoria	B Yamagata	Total
	Sentinel GP ARI	40	1	2.5	0	0	0	0	1	0	0	1
Week 18 2023	Non-sentinel respiratory	104	2	1.9	0	1	0	1	1	0	0	1
	Total	144	3	2.1	0	1	0	1	2	0	0	2
	Sentinel GP ARI	53	1	1.9	0	0	0	0	1	0	0	1
Week 17 2023	Non-sentinel respiratory	135	2	1.5	0	0	1	1	1	0	0	1
	Total	188	3	1.6	0	0	1	1	2	0	0	2
	Sentinel GP ARI	2700	607	22.5	217	231	22	470	137	0	0	137
2022/2023	Non-sentinel respiratory	7658	1392	18.2	381	769	88	1238	136	18	0	154
	Total	10358	1999	19.3	<mark>598</mark>	1000	110	1708	273	18	0	291

Table 3: Number of sentinel GP ARI and non-sentinel respiratory specimens tested by the NVRL and positive RSV results, for weeks 17 and 18 2023 and the 2022/2023 season (weeks 40 2022-18 2023). *Source: NVRL*

Surveillance period	Specimen type	Total tested	Number RSV positive	% RSV positive	RSV A	RSV B	RSV (unspecified)
	Sentinel GP ARI	40	0	0.0	0	0	0
Week 18 2023	Non-sentinel	104	4	3.8	1	3	0
	Total	144	4	2.8	1	3	0
	Sentinel GP ARI	53	0	0.0	0	0	0
Week 17 2023	Non-sentinel	135	0	0.0	0	0	0
	Total	188	0	0.0	0	0	0
	Sentinel GP ILI/ARI	2700	108	4.0	3	105	0
2022/2023	Non-sentinel	7658	549	7.2	65	483	1
	Total	10358	657	6.3	68	588	1

Table 4: Number of sentinel GP ILI/ARI specimens tested by the NVRL for respiratory viruses and positive results, for weeks 17 and 18 2023 and 2022/2023 season (weeks 40 2022-18 2023). *Source: NVRL*

Virus	Week 18 20	22 (N=40)	Week 17 202	22 (N=53)	2022/2023 (N=2700)		
Virus	Total	% positive	Total positive	% positive	Total positive	% positive	
SARS-CoV-2	7	17.5	4	7.5	157	5.8	
Influenza virus	1	2.5	1	1.9	607	22.5	
Respiratory Syncytial Virus (RSV)	0	0.0	0	0.0	108	4.0	
Rhino/enterovirus	6	15.0	6	11.3	353	13.1	
Adenovirus	0	0.0	4	7.5	146	5.4	
Bocavirus	1	2.5	0	0.0	27	1.0	
Human metapneumovirus (hMPV)	1	2.5	3	5.7	112	4.1	
Parainfluenza virus type 1 (PIV-1)	0	0.0	0	0.0	7	0.3	
Parainfluenza virus type 2 (PIV-2)	1	2.5	1	1.9	7	0.3	
Parainfluenza virus type 3 (PIV-3)	1	2.5	7	13.2	25	7.0	
Parainfluenza virus type 4 (PIV-4)	0	0.0	0	0.0	4	0.1	

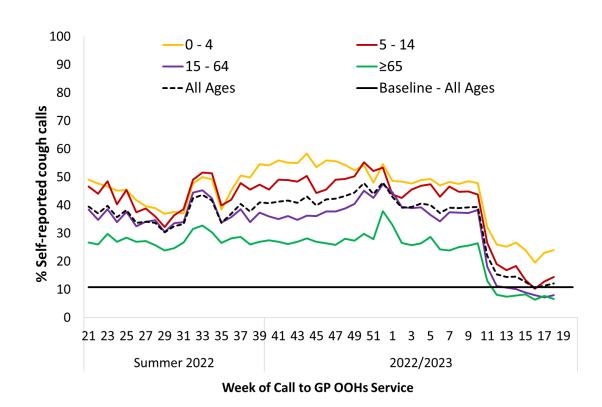
Table 5: Number of non-sentinel respiratory specimens tested by the NVRL for respiratory viruses and positive results, for weeks 17 and 18 2023 and2022/2023 season (weeks 40 2022-18 2023). Source: NVRL

Virus	Week 18 20)22 (N=104)	Week 17 20)22 (N=135)	2022/2023 (N=7658)		
Virus	Total positive	% positive	Total positive	% positive	Total positive	% positive	
Influenza virus	2	1.9	2	1.5	1392	18.2	
Respiratory Syncytial Virus (RSV)	4	3.8	0	0.0	549	7.2	
Rhino/enterovirus	22	21.2	27	20.0	1191	15.6	
Adenovirus	1	1.0	0	0.0	227	3.0	
Bocavirus	1	1.0	1	0.7	33	0.4	
Human metapneumovirus (hMPV)	4	3.8	3	2.2	211	2.8	
Parainfluenza virus type 1 (PIV-1)	0	0.0	0	0.0	41	2.8	
Parainfluenza virus type 2 (PIV-2)	0	0.0	0	0.0	26	0.3	
Parainfluenza virus type 3 (PIV-3)	4	3.8	15	11.1	68	0.9	
Parainfluenza virus type 4 (PIV-4)	0	0.0	0	0.0	26	0.3	

3. GP Out-Of-Hours services surveillance

National data on calls to GP Out-of-Hours services in Ireland are collated by HPSC. Five services currently participate in this program. Records with clinical symptoms reported as flu/influenza or cough are extracted for analysis. This information may act as an early indicator of circulation of influenza, SARS-CoV-2 or other respiratory viruses. Data are self-reported by callers and are not based on coded diagnoses.

- 1,781 (12% of total calls; N=14,674) self-reported 'cough' calls were reported by a network of GP OOHs services during week 18 2023, returning to baseline levels (10.8%) (Figure 5).
- 87 (0.5% of total calls; N=14,674) self-reported 'flu' calls were reported by a network of GP OOHs services during week 18 2023, which is below baseline levels. The baseline threshold level for self-reported 'flu' calls is 2.3% (Figure 7).



• Five GP OOH services provided data for week 18 2023.

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, summer 2022 and the 2022/2023 season. The % cough calls baseline 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)*.

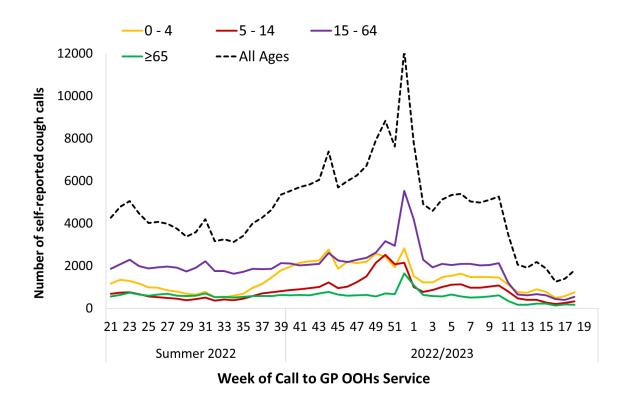


Figure 6: Number of self-reported COUGH calls for all ages and by age group to GP Out-of-Hours services by week of call, Summer 2022 and 2022/2023. *Source: GP Out-Of-Hours services in Ireland (collated by HSE & ICGP).*

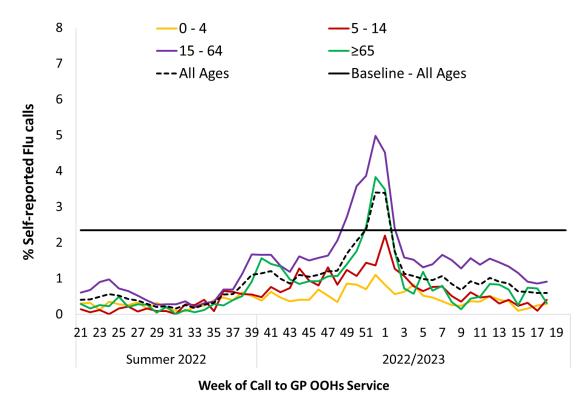


Figure 7: Percentage of self-reported FLU calls for all ages and by age group as a proportion of total calls to GP Outof-Hours services by week of call, Summer 2022 and 2022/2023. The % flu calls baseline for all ages calculated using the MEM method on historic data is shown. *Source: GP Out-Of-Hours services in Ireland (collated by HSE & ICGP)*

4. Influenza & RSV notifications

Influenza and RSV case notifications are reported on Ireland's Computerised Infectious Disease Reporting System (CIDR), including all positive influenza/RSV specimens reported from all laboratories testing for influenza/RSV and reporting to CIDR.

Influenza and RSV notifications are reported in the Weekly Infectious Disease Report for Ireland.

- 37 laboratory confirmed influenza cases were notified during week 18 2023: five influenza A (not subtyped), and 32 influenza B. This is a decrease compared to 69 cases notified during week 17 2023 (Figures 8 & 9).
- During the 2022/2023 season to date (weeks 40 2022 -18 2023), 16,021 laboratory confirmed influenza cases have been notified to HPSC 1,210 A(H1)pdm09, 1,008 A(H3), 11,285 influenza A (not subtyped), 2,448 influenza B, 48 influenza A and B coinfections, 16 influenza A(H1)pdm09 & A(H3) coinfections and six influenza (type not reported) (Figure 8).
- Laboratory confirmed influenza notified cases by HSE Area, are outlined in Table 6.
- Age specific rates in notified laboratory confirmed influenza cases were low in all age groups during week 18 2023 (Figure 10).
- Seven RSV cases were notified during week 18 2023, compared to nine cases notified during week 17 2023 (Figure 11).
- During week 18 2023, age specific rates in notified laboratory confirmed RSV cases were low in all age groups (Figure 12).

Table 6: Number of laboratory confirmed influenza notifications by HSE Area during the 2022/2023 season (weeks 402022-18 2023) and week 18 2023 Source: CIDR

HSE area	Week 18 2023	2022/2023 season (Weeks 40 2022 - 18 2023)
HSE-East	10	5252
HSE-Midlands	4	1429
HSE-Mid-West	2	1487
HSE-North-East	4	1534
HSE-North-West	8	1607
HSE-South-East	2	1432
HSE-South	3	1707
HSE-West	4	1573
Total	37	16021



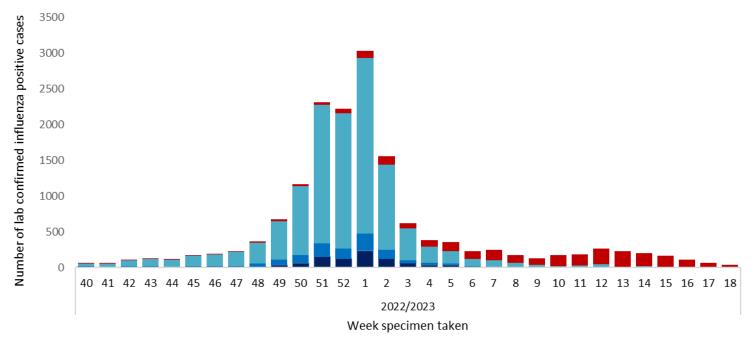


Figure 8: Number of laboratory confirmed **influenza** notifications by influenza type/subtype to HPSC by week 2022-2023 season. *Source: Ireland's Computerised Infectious Disease Reporting System.*

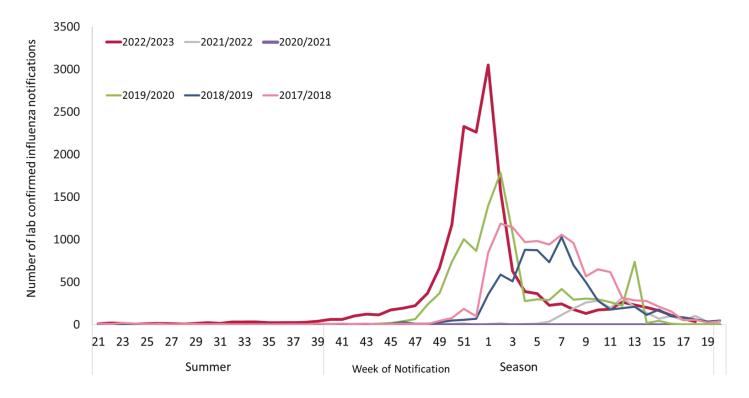


Figure 9: Number of laboratory confirmed **influenza** notifications to HPSC by week and season, 2017/2018 to 2022/2023 influenza seasons. *Source: Ireland's Computerised Infectious Disease Reporting System.*

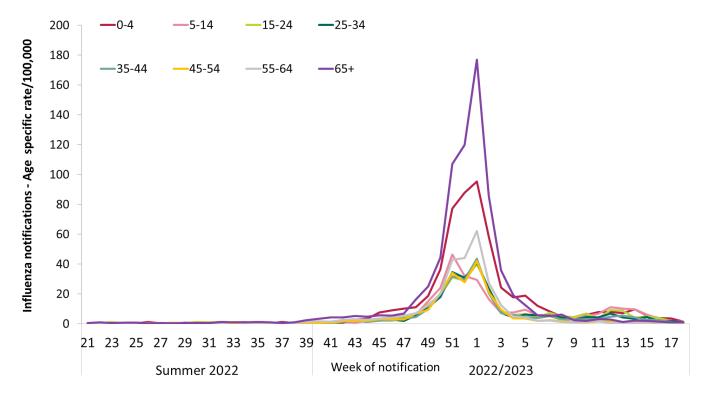


Figure 10: Age specific rates per 100,000 population for laboratory confirmed **influenza** notifications to HPSC by week of notification. *Source: Ireland's Computerised Infectious Disease Reporting System*.

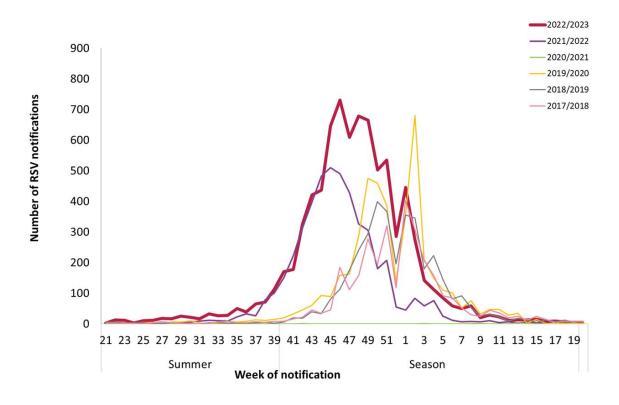


Figure 11: Number of laboratory confirmed **RSV** notifications to HPSC by week of notification, 2017/2018 to 2022/2023 seasons. *Source: Ireland's Computerised Infectious Disease Reporting System.*

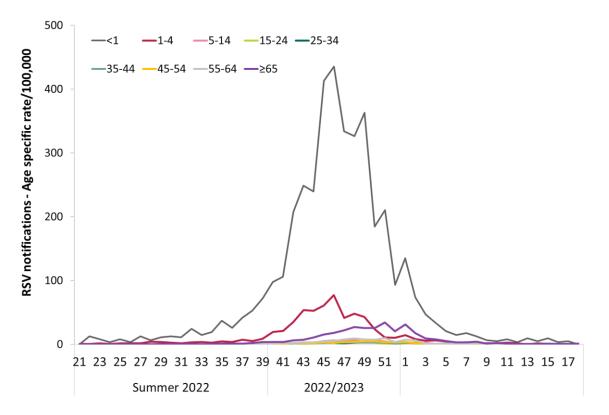


Figure 12: Age specific rates per 100,000 population for laboratory confirmed **RSV** notifications to HPSC by week of notification. *Source: Ireland's Computerised Infectious Disease Reporting System*.

5. Hospitalisations

- During week 18 2023, 15 laboratory confirmed influenza cases were reported as hospital inpatients: two influenza A (not subtyped) and 13 influenza B (Figure 13 & 14). Influenza hospitalised cases during week 18 2023 remained stable at 15, compared to 15 in week 17 2023.
- During the 2022/2023 season to date (weeks 40 2022 to week 18 2023), 4,588 laboratory confirmed influenza cases have been notified as hospital inpatients: 320 influenza A(H1)pdm09, 206 A(H3), 3,485 influenza A (not subtyped), 560 influenza B, 14 influenza co-infections and three influenza (type not reported) (Figure 13).
- During week 18 2023, age specific rates in notified laboratory confirmed hospitalised influenza cases were low in all age groups (Figure 15).
- The number and age specific rate per 100,000 population of laboratory confirmed notified influenza hospitalised and critical care cases for the 2022/2023 season are detailed in Table 9.
- During week 18 2023, two RSV cases were reported as hospital inpatients (Figures 16 and 17).
- Patient type of laboratory confirmed influenza and RSV notifications by week for the 2022/2023 season are reported in Tables 7 and 8.



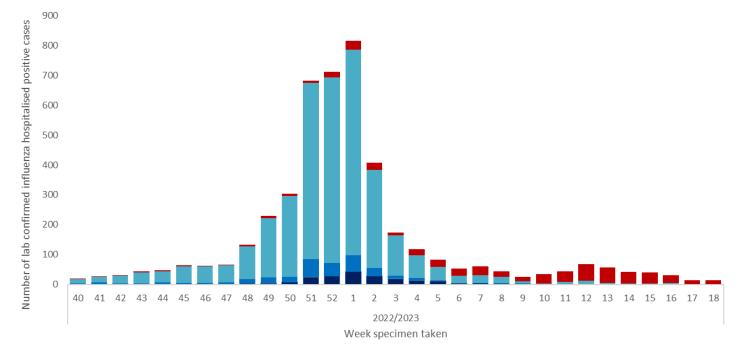


Figure 13: Number of laboratory confirmed **influenza** notifications reported as **hospital inpatients** by influenza type/subtype to HPSC by week, 2022/2023 season. *Source: Ireland's Computerised Infectious Disease Reporting System.*

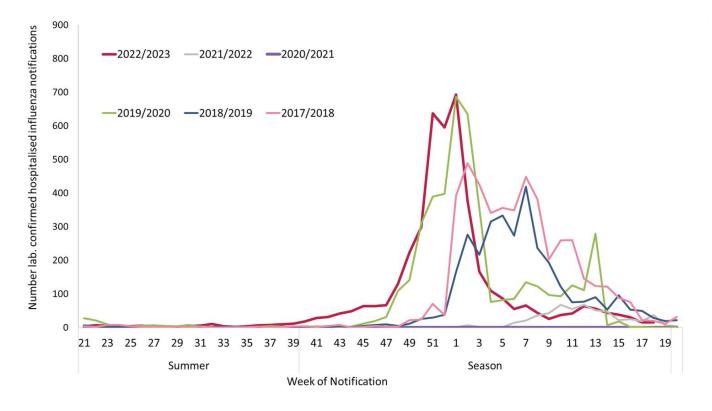


Figure 14: Number of notified laboratory confirmed **influenza** cases reported as **hospital inpatients**, for the 2017/2018 to 2022/2023 seasons. *Source: Ireland's Computerised Infectious Disease Reporting System*

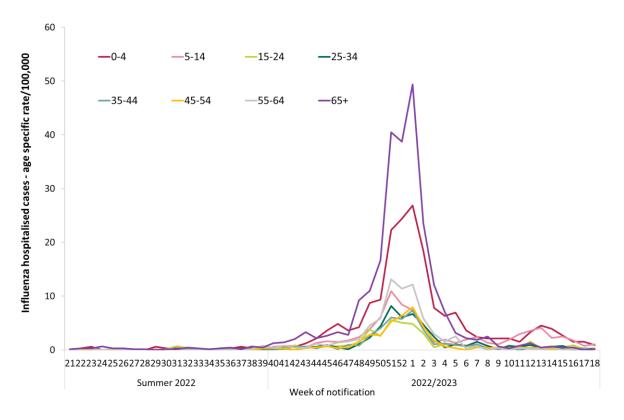


Figure 15: Age specific rates per 100,000 population for laboratory confirmed **influenza** cases reported as **hospital inpatients** by week of notification. *Source: Ireland's Computerised Infectious Disease Reporting System*.

Table 7: Number of notified influenza cases reported by patient type and week of notification, 2022/2023season (weeks 40 2022-18 2023). Source: Ireland's Computerised infectious Disease Reporting System

				Patient Typ	be			
	GP Patient	ED patient	Hospital Inpatient	Hospital Day Patient	Hospital Outpatient	Other	Unknown	Total
Week 40	2	11	18	3	9	7	12	62
Week 41	4	20	28	1	3	2	2	60
Week 42	0	45	31	1	16	3	5	101
Week 43	7	34	44	6	20	7	6	124
Week 44	2	38	48	6	16	2	5	117
Week 45	2	66	65	7	12	12	8	172
Week 46	5	80	65	11	15	12	5	193
Week 47	3	92	66	18	19	7	16	221
Week 48	18	122	131	8	31	20	40	370
Week 49	17	261	230	31	56	19	61	675
Week 50	45	450	298	22	105	46	204	1170
Week 51	100	806	691	30	220	134	347	2328
Week 52	49	1013	710	17	162	143	141	2235
Week 1	145	1368	833	48	201	129	323	3047
Week 2	60	606	413	31	146	132	172	1560
Week 3	35	244	172	8	51	15	99	624
Week 4	24	161	114	5	26	11	45	386
Week 5	35	146	91	7	33	8	39	359
Week 6	12	113	56	4	17	10	16	228
Week 7	16	110	62	4	28	6	19	245
Week 8	11	72	48	1	21	7	18	178
Week 9	5	74	26	0	14	3	11	133
Week 10	8	87	37	1	18	3	20	174
Week 11	17	99	44	3	8	4	8	183
Week 12	11	141	67	6	13	4	24	266
Week 13	14	109	55	8	6	19	19	231
Week 14	4	100	43	7	11	13	23	201
Week 15	3	81	40	5	7	10	17	163
Week 16	3	45	32	1	8	6	15	110
Week 17	3	33	15	0	6	4	8	69
Week 18	0	15	15	1	2	0	4	37
Total	660	6642	4588	301	1300	798	1732	16021

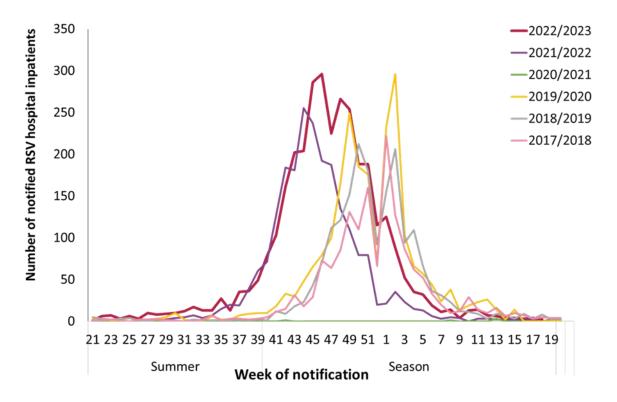


Figure 16: Number of notified **RSV** cases reported as **hospital inpatients**, by week of notification and season, for the 2017/2018 to 2022/2023 seasons. *Source: Ireland's Computerised Infectious Disease Reporting System*.

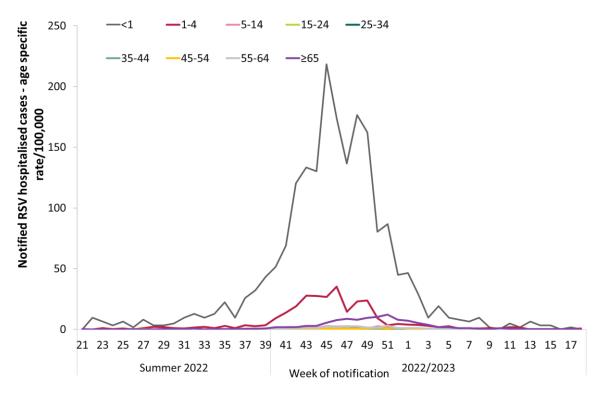


Figure 17: Age specific rates per 100,000 population for laboratory confirmed **RSV** cases reported as **hospital inpatients** by week of notification and season, Summer 2022 and 2022/2023. *Source: Ireland's Computerised Infectious Disease Reporting System*

Table 8: Number of notified **RSV** cases reported by patient type and week of notification (weeks 40 2022-18 2023),2022/2023 season. Source: Ireland's Computerised infectious Disease Reporting System

				Patient ⁻	Гуре			
	GP Patient	ED patient	Hospital	Hospital	Hospital	Other	Unknown	Total
			Inpatient	Day Patient	Outpatient			
Week 40	5	51	78	6	12	7	11	170
Week 41	3	45	103	3	12	5	4	177
Week 42	5	121	161	2	14	7	15	325
Week 43	6	149	201	9	20	19	16	421
Week 44	6	172	204	3	22	15	15	437
Week 45	8	239	286	12	37	28	27	646
Week 46	10	319	295	5	32	34	32	729
Week 47	6	273	225	8	24	36	33	609
Week 48	34	246	267	3	35	36	44	678
Week 49	19	254	255	13	17	24	81	665
Week 50	20	175	187	2	28	23	64	502
Week 51	14	172	191	5	32	30	80	532
Week 52	8	82	119	0	12	29	24	286
Week 1	26	165	125	5	21	31	66	444
Week 2	7	92	88	3	20	23	41	277
Week 3	4	44	52	2	13	5	21	142
Week 4	6	39	35	5	6	11	8	111
Week 5	4	27	32	0	9	2	11	85
Week 6	4	23	19	0	3	4	6	59
Week 7	1	23	11	2	3	3	7	50
Week 8	0	19	14	1	7	4	11	58
Week 9	0	13	4	0	2	1	0	20
Week 10	0	8	13	1	2	1	3	29
Week 11	0	5	14	0	3	1	0	23
Week 12	0	2	7	0	0	0	3	12
Week 13	0	3	6	0	1	2	1	13
Week 14	0	5	4	0	0	2	2	13
Week 15	0	10	4	0	0	0	1	15
Week 16	1	2	3	1	0	0	1	8
Week 17	0	4	4	0	0	0	0	9
Week 18	0	1	2	0	0	2	2	7
Total	197	2783	3009	91	387	385	630	7552

6. Critical Care Surveillance

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

- No laboratory confirmed influenza case was admitted to critical care and notified to HPSC during week 18 2023.
- During the 2022/2023 season to date (weeks 40 2022-18 2023), 184 laboratory confirmed influenza cases 32 A(H1)pdm09, 31 influenza A(H3), 107 influenza A (not subtyped) and 14 influenza B have been admitted to critical care units and notified to HPSC. Age specific rates for the season to date were highest in those aged 65 years and older.
- During the 2022/2023 season (weeks 40 2022-18 2023), of 161 laboratory confirmed influenza ICU cases with known influenza vaccination status, 108 (67%) were reported as NOT having received the 2022/2023 influenza vaccine.
- The number and age specific rate per 100,000 population of laboratory confirmed notified influenza hospitalised and critical care cases for the 2022/2023 season are detailed in Table 9.

Table 9: Cumulative number and age specific rate per 100,000 population of laboratory confirmed notified influenzahospitalised and critical care cases, weeks 40 2022-18 2023. Source: Ireland's Computerised infectious DiseaseReporting System.

		Hospitalised	A	Admitted to ICU
Age (years)		Age specific rate per		Age specific rate per
	Number	100,000 pop.	Number	100,000 pop.
<1	143	229.7	2	3.2
1-4	472	175.3	13	4.8
5-14	593	87.8	15	2.2
15-24	254	44.1	8	1.4
25-34	345	52.3	5	0.8
35-44	335	50.8	19	2.5
45-54	279	44.6	25	4.0
55-6 4	393	77.2	27	5.3
≥65	1774	278.2	70	11.0
Unknown	0	-	0	-
Total	4588	96.3	184	3.9

7. Mortality Surveillance

Influenza-associated deaths include all deaths where influenza is reported as the primary/main cause of death by the physician or if influenza is listed anywhere on the death certificate as the cause of death. 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 deaths as part of the influenza surveillance system and the European Mortality Monitoring Project. 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 18 2023.
- During the 2022/2023 season (weeks 40 2022-18 2023), 196 deaths in notified influenza cases were reported to HPSC – 32 influenza A(H3), 26 influenza A(H1)pdm09, 131 influenza A (not subtyped), six influenza B and one influenza A and B coinfection.
- During the 2022/2023 season, excess all-cause mortality was reported over five consecutive weeks (weeks 51 2022 3 2023). Excess pneumonia and influenza mortality was also reported over four consecutive weeks (weeks 51 2022 2 2023). 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.

8. Outbreak Surveillance

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 18 2023, there were no Influenza, RSV, ARI or COVID-19 & Influenza mixed outbreaks notified to the HPSC.
- During the 2022/2023 season (weeks 40 2022-18 2023), 156 laboratory confirmed influenza outbreaks were
 notified to HPSC. For an overview of outbreaks for the season to date (weeks 40 2022-18 2023), see Tables 10
 and 11.

Table 10: Summary of influenza, RSV, COVID-19 & influenza mixed outbreaks and ARI (influenza/RSV/SARS-CoV-2negative) outbreaks by HSE Area during week 18 2023 and the 2022/2023 season (weeks 40 2022-18 2023) Source:CIDR

HSE area	Influ	ienza	RS	SV.	ļ	ARI	COVID-19 8	& Influenza	То	otal
HJE di Ed	Week 18	2022/2023	Week 18	2022/2023	Week 18	2022/2023	Week 18	2022/2023	Week 18	2022/2023
HSE-East	0	55	0	15	0	1	0	1	0	72
HSE-Midlands	0	6	0	0	0	1	0	0	0	7
HSE-Mid-West	0	13	0	4	0	0	0	0	0	17
HSE-North-East	0	22	0	19	0	3	0	2	0	46
HSE-North-West	0	22	0	6	0	8	0	3	0	39
HSE-South-East	0	13	0	0	0	0	0	0	0	13
HSE-South	0	8	0	9	0	0	0	0	0	17
HSE-West	0	17	0	4	0	1	0	0	0	22
Total	0	156	0	57	0	14	0	6	0	233

Table 11: Summary of influenza, RSV, COVID-19 & influenza mixed outbreaks and ARI (influenza/RSV/SARS-CoV-2negative) outbreaks by outbreak setting during week 18 2023 and the 2022/2023 season (weeks 40 2022-18 2023).Source: CIDR

Catting	Influenza		R	RSV		ARI		COVID-19 & Influenza		Total	
Setting	Week 18	2022/2023	Week 18	2022/2023	Week 18	2022/2023	Week 18	2022/2023	Week 18	2022/2023	
Community hospital/Long-stay unit	0	8	0	10	0	4	0	1	0	23	
Nursing Home	0	56	0	21	0	6	0	3	0	86	
Hospital	0	67	0	8	0	0	0	2	0	77	
Residential Institution	0	14	0	4	0	4	0	0	0	22	
Childcare facility	0	0	0	1	0	0	0	0	0	1	
Family Outbreaks	0	7	0	12	0	0	0	0	0	19	
Other settings	0	4	0	1	0	0	0	0	0	5	
Total	0	156	0	57	0	14	0	6	0	233	

9. International Summary

In the European region, during week 17 2023 (week ending 30/04/2023), influenza virus positivity in sentinel primary care specimens decreased to 7%, from 9% in the previous week, under the ECDC influenza positivity threshold of 10%. For week 17 2023, 133 (7%) of 1,909 sentinel GP specimens tested positive for an influenza virus; 75% were type B and 25% were type A. Of 13 subtyped A viruses, 92% were A(H1)pdm09 and 8% A(H3). Of 33 influenza B viruses ascribed to a lineage, all were B/Victoria.

For week 17 2023, 988 of 33,537 specimens from non-sentinel sources (such as hospitals, schools, primary care facilities not involved in sentinel surveillance, or nursing homes and other institutions) tested positive for an influenza virus; 738 (75%) were influenza B and 250 (25%) were influenza A. Of 30 subtyped A viruses, 24 (80%) were A(H1)pdm09 and 6 (20%) were A(H3). Of 20 influenza B viruses ascribed to a lineage, all were B/Victoria. Of 41 countries and areas reporting on geographic spread of influenza viruses, four reported no activity, 15 reported sporadic spread, five reported local spread, eight reported regional spread and nine reported widespread influenza activity.

As of 16th April 2023, globally, influenza activity decreased further due to decreased detections in the northern hemisphere. In the southern hemisphere influenza activity remained low, however influenza slightly increased in Australia and Chile.

See <u>ECDC</u> and <u>WHO</u> influenza surveillance reports for further information.

- Further information on influenza is available on the following websites:
 - Europe ECDChttp://ecdc.europa.eu/Public Health Englandhttps://www.gov.uk/government/collections/weekly-national-flu-reportsUnited States CDChttp://www.gov.uk/government/collections/weekly-national-flu-reportsPublic Health Agency of Canadahttp://www.phac-aspc.gc.ca/fluwatch/index-eng.php
 - Influenza case definition in Ireland <u>https://www.hpsc.ie/a-z/respiratory/influenza/casedefinitions/</u>
 - COVID-19 case definition in Ireland <u>https://www.hpsc.ie/a-</u> z/respiratory/coronavirus/novelcoronavirus/casedefinitions/
 - Avian influenza overview May August 2020 <u>https://www.ecdc.europa.eu/en/publications-data/avian-influenza-overview-may-august-2020</u>
 - Avian influenza: EU on alert for new outbreaks <u>https://www.ecdc.europa.eu/en/news-events/avian-</u> 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/
 - The WHO categorised COVID-19 as a pandemic on 11 March 2020. For more information about the situation in the WHO European Region visit:
 - o WHO website: https://www.who.int/emergencies/diseases/novel-coronavirus-2019
 - ECDC website: <u>https://www.ecdc.europa.eu/en/novel-coronavirus-china</u>

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 2023/2024 northern hemisphere influenza season contain the following:

- an A/Victoria/4897/2022 (H1N1)pdm09-like virus;
- an A/Darwin/9/2021 (H3N2)-like virus; and
- a B/Austria/1359417/2021 (B/Victoria lineage)-like virus; and
- a B/Phuket/3073/2013 (B/Yamagata lineage)-like virus.

https://www.who.int/news/item/24-02-2023-recommendations-announced-for-influenza-vaccine-composition-forthe-2023-2024-northern-hemisphere-influenza-season

Further information on influenza in Ireland is available at www.hpsc.ie

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