

Influenza

Weekly Surveillance Bulletin

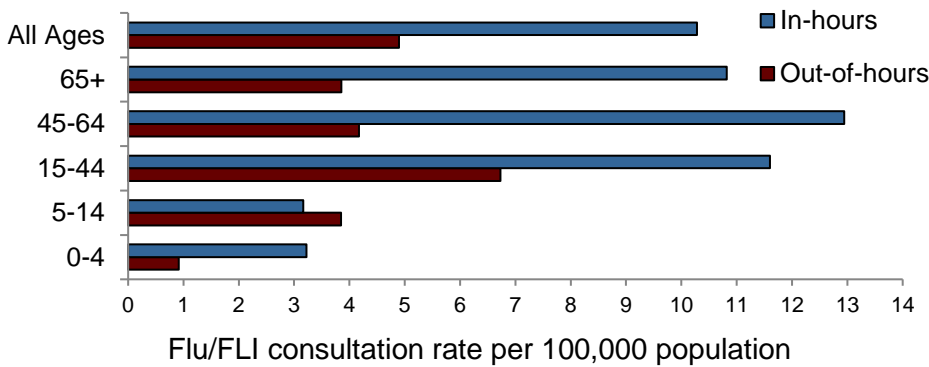
Week 02 (09 January — 15 January 2023)

Community Activity

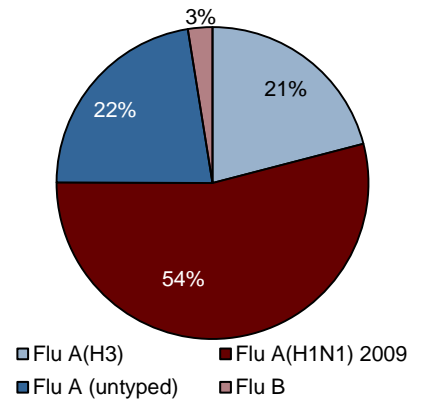


Week	October					November				December					January					February				March			April			May				
	40	41	42	43	44	45	46	47	48	49	50	51	52	53	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2022/23																																		
2021/22																																		
2020/21																																		

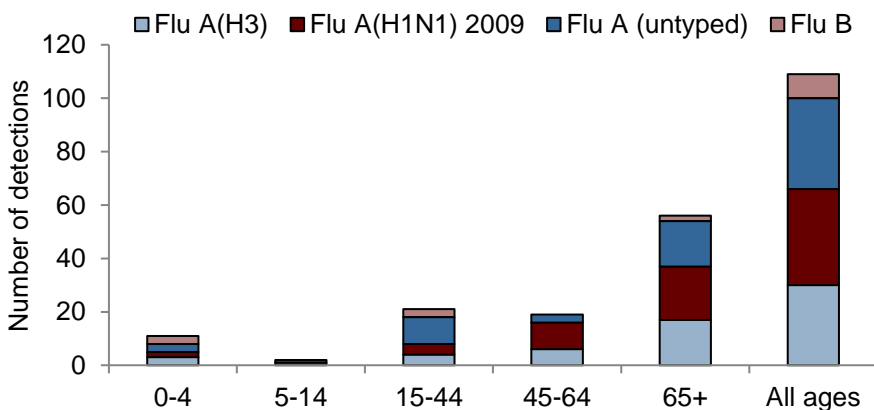
GP consultation rates for 'flu/flu-like-illness' ('flu/FLI') (09 January — 15 January 2023)



Circulating strains this season to date



Number of hospital samples with confirmed flu (09 January — 15 January 2023)



Respiratory outbreaks (09 Jan – 15 Jan 2023)

3

To date there have been 29 flu outbreaks and one RSV outbreak reported this season.

Influenza vaccine uptake 2022/23

Vaccine uptake rates for 2022/23 have been included in [this bulletin](#).

COVID-19 Epidemiological Bulletin

The weekly report outlining the recent epidemiology of COVID-19 disease in Northern Ireland is available to download [here](#).

Note

It is important to note that the influenza surveillance data contained within this report should be interpreted with caution due to the impact of the COVID-19 pandemic. This is true not only for the early stages of the pandemic in Northern Ireland from March 2020 (when there was an increase in the use of influenza-like illness (ILI) codes), but also when in making comparisons between different influenza seasons. Interpretation of data from week 10 (March), 2020 onwards should consider the implementation of episodic COVID-19 control measures. These include, but are not limited to, the wearing of face masks, hand hygiene practices, social and physical distancing measures, national lockdowns and travel restrictions. Changes in both health-seeking behaviours (including patient access to GP services) and in testing practices (including the introduction of laboratory multiplex testing for SARS-CoV/Flu/RSV in 2021) should also be considered.

Consultation rates for influenza or influenza-like-illness ('flu/FLI')

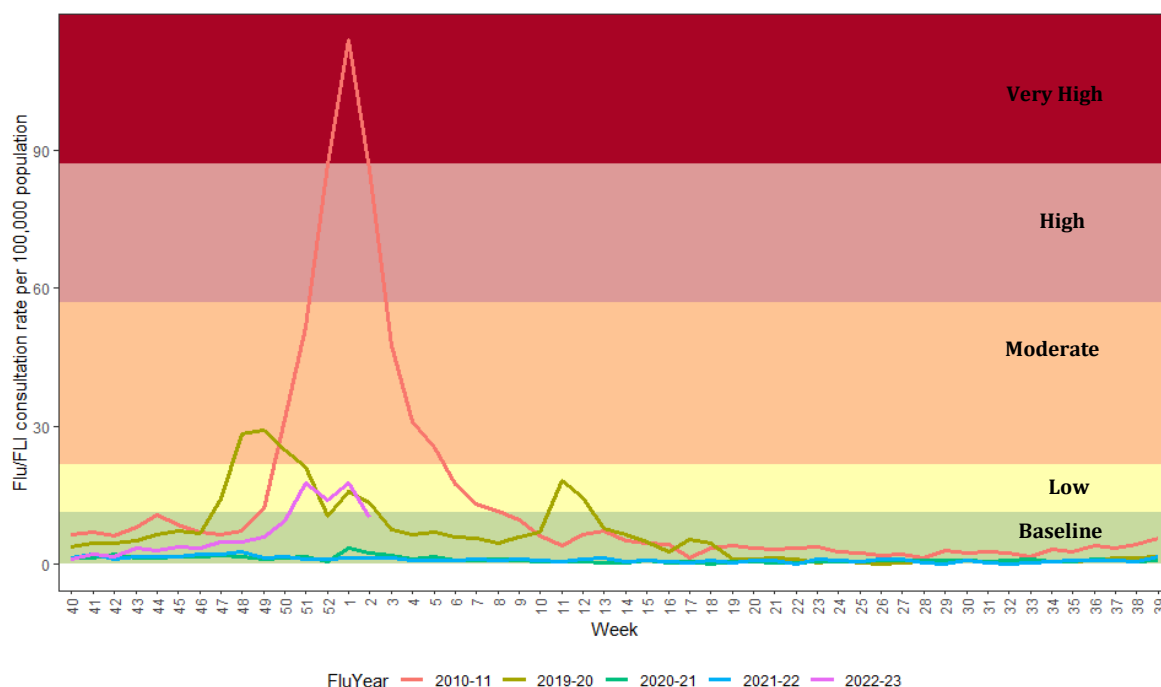


Figure 1. Northern Ireland GP consultation rates for ‘flu/FLI’ 2010/11 and 2019/20 – 2022/23

The baseline MEM threshold for Northern Ireland is 11.3 per 100,000 population for 2022-23. Low activity is 11.3 to <21.8, moderate activity 21.8 to <57.0, high activity 57.0 to <87.1 and very high activity is >87.1.

Comment

The GP flu/FLI consultation rate during week 2 was 10.3 per 100,000 population. This is lower than week 1 (17.7 per 100,000) and higher than the same period in 2021-22 (1.3 per 100,000). Activity has returned to baseline activity levels (≤ 11.3 per 100,000) in week 2, after increasing above the baseline threshold between weeks 51-1.

Flu/FLI consultation rates were highest in the 45-64 year old age group in week 2 at 12.9 per 100,000 population. Rates are higher in all age groups when compared to the same period in 2021-22.

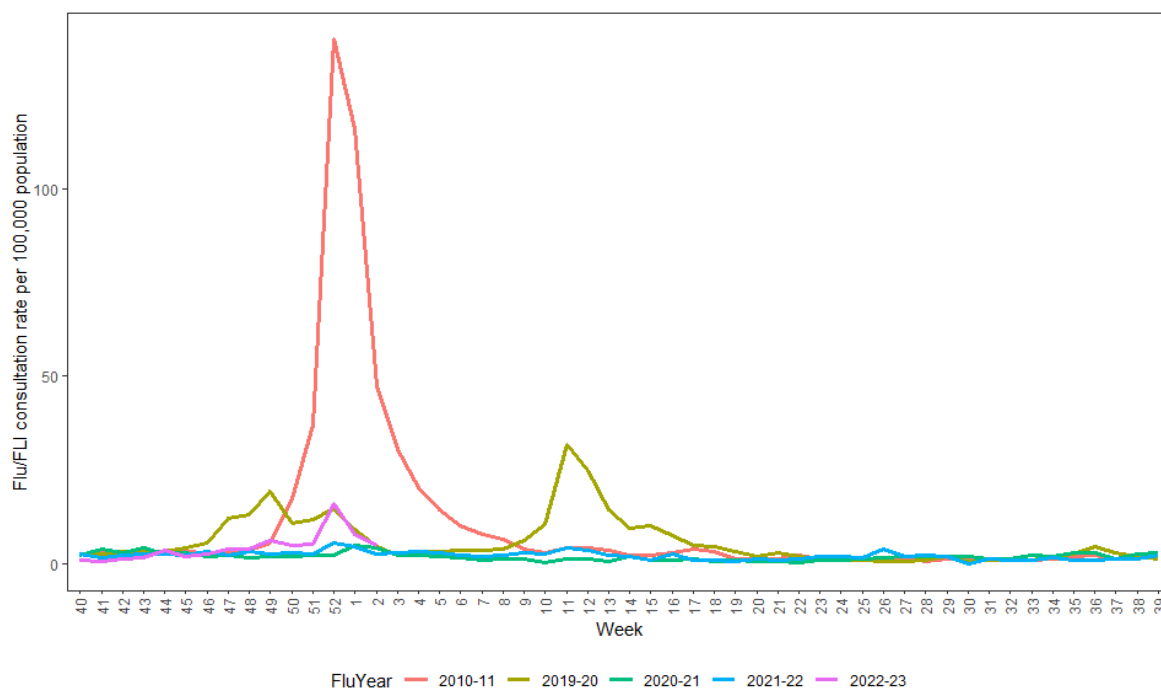


Figure 2. Northern Ireland Out-of-Hours (OOH) consultation rates for ‘flu/FLI’ 2010/11 and 2019/20 – 2022/23

Comment

The Flu/FLI consultation rate in Primary Care Out-of-Hours (OOH) Centres was 4.9 per 100,000 population in week 2. This is lower than week 1 (8.0 per 100,000) and higher than the same period in 2021-22 (2.9 per 100,000) (Figure 2).

In week 2 the percentage of calls to an OOH Centre due to flu/FLI was 0.9%. This is lower than the previous week (1.44% in week 1) and also lower when compared to the same period in 2021-22 (0.58% in week 2).

Rates were highest in those aged 15-44 years in week 2 (6.7 per 100,000 population). Rates were higher in the 15-44, 45-64 and 65+ age categories but lower in the 0-4 and 5-14 age groups, when compared with the same period in 2021-22.

Virology

Table 1. Virus activity in Northern Ireland by source, week 2, 2022-23

Source	Specimens tested	Flu A(H3)	Flu A(H1N1)	Flu A (untyped)	Flu B	Total Influenza Positive	% Influenza Positive	RSV
Sentinel	11	2	0	0	0	2	18.2	0
Non-sentinel	1296	34	37	35	11	117	9.0	14
Total	1307	36	37	35	11	119	9.1	14

Table 2. Cumulative virus activity from all sources by age group, weeks 40-2, 2022-23

Age Group	Flu A(H3)	Flu A(H1N1)	Flu A (untyped)	Flu B	Total Influenza Positive	RSV
0-4	48	90	35	14	187	564
5-14	13	39	10	2	64	35
15-64	171	477	196	26	870	128
65+	173	440	192	7	812	176
Unknown	0	0	0	0	0	0
All ages	405	1046	433	49	1933	903

Table 3. Cumulative virus activity by source and age group, weeks 40-2, 2022-23

Source	Age Group	Flu A(H3)	Flu A(H1N1)	Flu A (untyped)	Flu B	Total Influenza Positive	RSV
Sentinel	0-4	0	0	0	0	0	0
	5-14	0	1	0	0	1	0
	15-64	10	12	1	3	26	2
	65+	0	3	0	0	3	0
	Unknown	0	0	0	0	0	0
	All ages	10	16	1	3	30	2
Non-sentinel	0-4	48	90	35	14	187	564
	5-14	13	38	10	2	63	35
	15-64	161	465	195	23	844	126
	65+	173	437	192	7	809	176
	Unknown	0	0	0	0	0	0
	All ages	395	1030	432	46	1903	901

Note

All virology data are provisional. The virology figures for previous weeks included in this or future bulletins are updated with data from laboratory returns received after the production of the last bulletin. The current bulletin reflects the most up-to-date information available. Cumulative reports of influenza types may vary from week to week as untyped specimens may be subsequently typed at the time of later reports.

Positive influenza results (dual positive influenza A and influenza B) can occur when vaccine virus is detected in a specimen taken from a person (e.g. a child under 16 years) who recently received intranasal administration of live attenuated influenza virus vaccine (LAIV). The number of positive influenza results should therefore be interpreted with caution.

Since week 34 of 2021, laboratories have used a mixture of multiplex and standard testing for SARS-CoV-2/Flu/RSV. As a result, positivity is not directly comparable between seasons.

Virology data from week 47 of 2022 includes point of care tests from RVL.

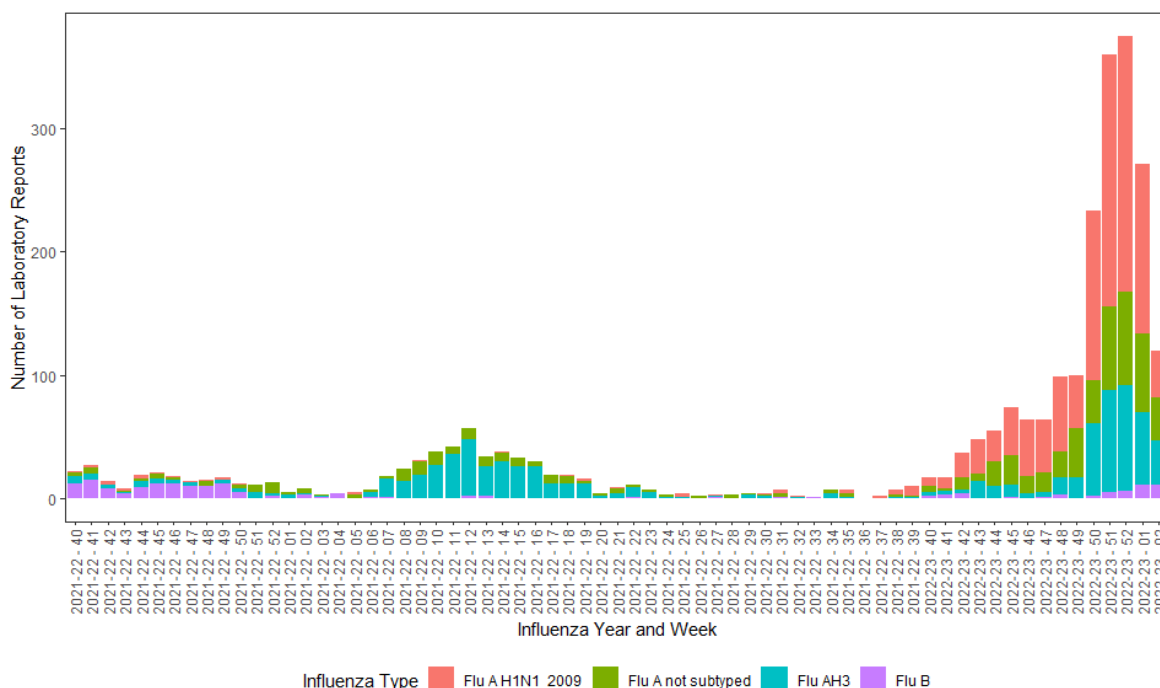


Figure 3. Weekly number of positive influenza laboratory reports, 2021/22 – 2022/23

Comment

In week 2, 119 samples were positive for flu (37 Flu A(H1N1), 35 Flu A(untyped), 36 Flu A(H3) and 11 Flu B from 1307 samples submitted for testing in laboratories across Northern Ireland (Figure 3). The positivity rate for week 2 was 9.1%. Since week 40, 45% of total influenza positive samples have occurred in individuals aged 15-64 years.

In week 2, 14 samples were positive for RSV. The majority (62%) of RSV positive samples since week 40 have occurred in children in the 0-4 age group (Table 2).

Hospital Surveillance

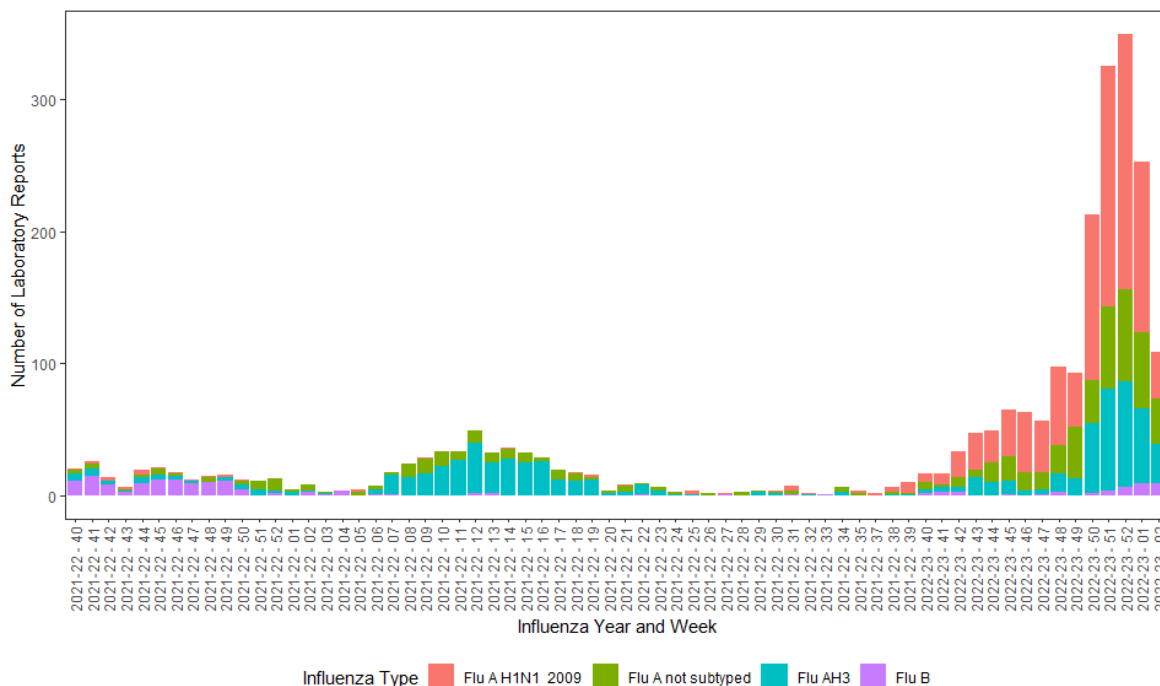


Figure 4. Weekly number of hospital samples testing positive for influenza by week of specimen, 2021/22 – 2022/23

Comment

In week 2, 109 hospital samples were positive for flu (36 Flu A(H1N1), 34 Flu A(untyped), 30 Flu A(H3) and nine Flu B from 1307 samples submitted for testing in laboratories across Northern Ireland (Figure 4).

Outbreaks

Comment

There were three respiratory outbreaks reported to the PHA Health Protection acute response duty room during week 2. These were all outbreaks of Flu A (untyped), two were reported in a hospital setting (one of which is also in a COVID-19 outbreak) and one in a care home setting. This care home is also reporting an outbreak of COVID-19.

To date, in 2022-23, there have been a total of 29 confirmed influenza outbreaks reported (15 in a care home setting, one in a supported living facility and 13 in a hospital) and one RSV outbreak (care home setting).

Mortality

The Northern Ireland Statistics and Research Agency (NISRA) provides the weekly number of respiratory-associated deaths and the proportion of all-cause registered deaths (by week of death registration, not by week of death).

Respiratory-associated deaths include those that are attributable to influenza, other respiratory infections or their complications. This includes “bronchiolitis, bronchitis, influenza or pneumonia” keywords recorded on the death certificate.

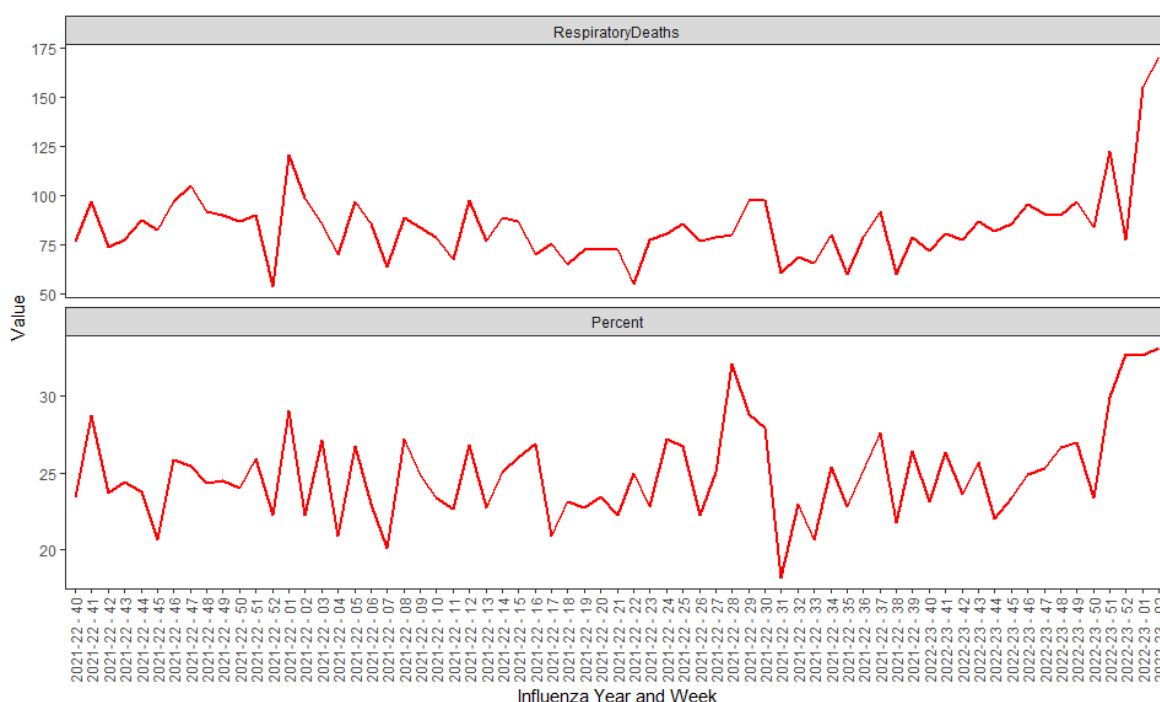


Figure 5. Weekly count of registered deaths and percent of all deaths with respiratory keywords, by week of registration from week 40, 2021

Comment

In week 2, 171 respiratory associated deaths out of 515 all-cause deaths were reported (33%). This is higher than the same period in 2021/22 (99 respiratory deaths out of 445 all-cause deaths, 22%).

EuroMOMO

In 2022, based on NISRA death registrations and the EuroMOMO model, excess deaths were reported in weeks 42-44, 48 and 50-1, particularly in those aged 65+. Despite delay correction, reported mortality data are still provisional due to the time delay in registration and observations which can vary from week to week; not all registrations for the current week will have been included this bulletin.

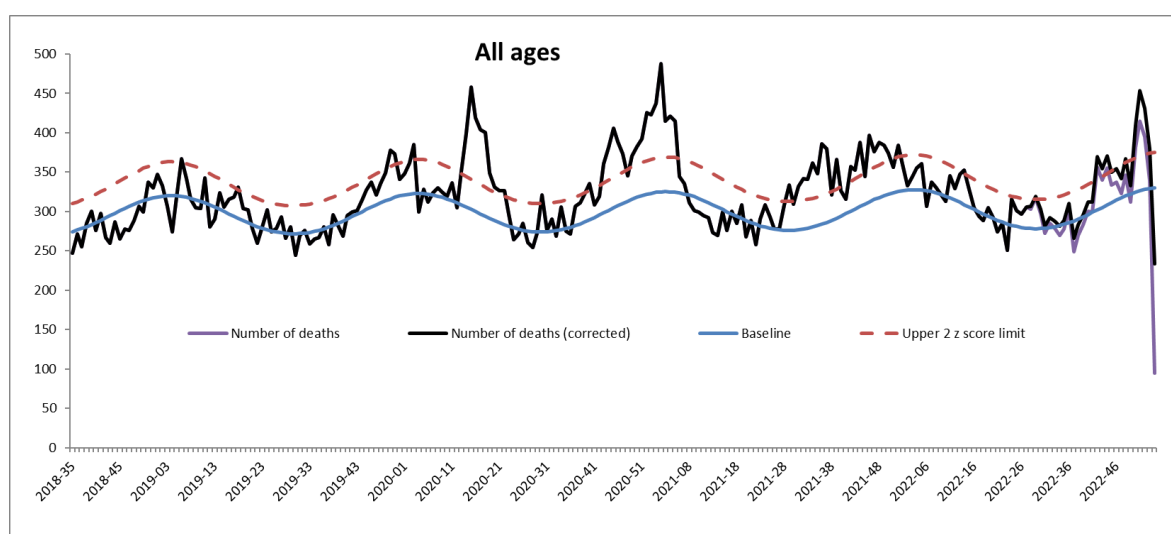


Figure 6. Weekly observed and expected number of all-cause deaths in all ages, week 35, 2018 – week 2, 2023

Excess mortality is defined as a statistically significant increase in the number of deaths reported over the expected number for a given point in time. This calculation allows for a weekly variation in the number of deaths registered and takes account of deaths registered retrospectively. Information is used to provide an early warning to the health service of any seasonal increases in mortality to allow further investigation of excess detections.

There is no single cause of 'additional' deaths in the winter months but they are often attributed in part to cold weather (e.g. directly from falls, fractures, road traffic accidents), through worsening of chronic medical conditions e.g. heart and respiratory complaints and through respiratory infections including influenza.

For more information on EuroMOMO and interactive maps of reporting across the season please see <http://www.euromomo.eu/index.html>

Influenza Vaccine Uptake

Every year the seasonal flu vaccine programme officially commences early Autumn and is delivered by primary care, the Trust School Nursing Service (in school) and the Trust Health and Social Care Worker (HSCW) flu campaign. This year the flu vaccination programme began on 19th September. Influenza vaccine uptake for the current and previous season has been determined using data extracted from the regional Immunisation Information System developed by the Department of Health (DoH) Digital team; known as the Vaccine Management System (VMS). Influenza vaccination was introduced into the VMS in August 2021.

Caution should be used when considering the 2021/22 and 2022/23 influenza vaccine uptake rates in comparison to previous seasons, due to the introduction of the VMS involving new methods of recording and extracting influenza vaccine data.

Table 4. Influenza vaccine uptake rates (Public Programme), 2022-23

	2022/23 ¹
All individuals 50-64 years	51.40%
All individuals 65 years and over	84.45%

¹Data extracted and accurate to 18/01/2023.

Flu vaccine uptake in additional eligible groups will be presented in future weeks following development and validation work.

Further Information and International/National Updates

Further information on influenza is available at the following websites:

[PHA Seasonal Influenza](#)

[nidirect Flu Vaccination](#)

[UKHSA Seasonal Influenza Guidance - Data and Analysis](#)

[Influenza \(seasonal\) \(who.int\)](#)

[ECDC Seasonal Influenza](#)

National updates

Detailed influenza weekly reports can be found at the following websites:

England [UKHSA Weekly National Flu Report](#)

Scotland [HPS Weekly National Seasonal Respiratory Report](#)

Wales [Public Health Wales Influenza Surveillance Report](#)

Republic of Ireland [HPSC Seasonal Influenza Surveillance Reports](#)

International updates

Europe (ECDC and WHO) [Flu News Europe](#)

Worldwide (WHO) [WHO Influenza Surveillance Monitoring](#)

Acknowledgements

We would like to extend our thanks to all those who assist us in the surveillance of influenza in particular the sentinel GPs, Out-of-Hours Centres, Apollo Medical, and, the Regional Virus Laboratory. Their work is greatly appreciated and their support vital in the production of this bulletin.

We acknowledge the Northern Ireland Statistics and Research Agency (NISRA) and the General Register Office Northern Ireland (GRONI) for the supply of data used in this publication. NISRA and GRONI do not accept responsibility for any alteration or manipulation of data once it has been provided.

For further information on the Enhanced Surveillance of Influenza in Northern Ireland scheme or to be added to the circulation list for this bulletin please contact: **Email:** flusurveillance@hscni.net