



# Influenza

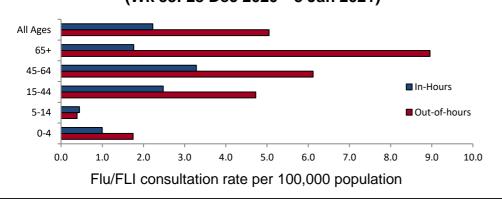
# Weekly Surveillance Bulletin

Week 53 (28 December 2020—3 January 2021)

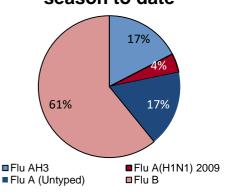
### Community Activity

Community Activity							Flu Intensity:				Baseline			Low		Medium			High		Very High		1											
	October				November				December			January			February		March			April		May		,										
Week	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
2020/21																																		
2019/20																																		

### GP consultation rates for 'flu/flu-like-illness' ('flu/FLI') (Wk 53: 28 Dec 2020—3 Jan 2021)



### Circulating strains this season to date



### Number of hospital cases with confirmed flu (28 Dec 2020-3 Jan 2021)

Summary information on cases will be reported in the bulletin only if the numbers do not risk data confidentiality

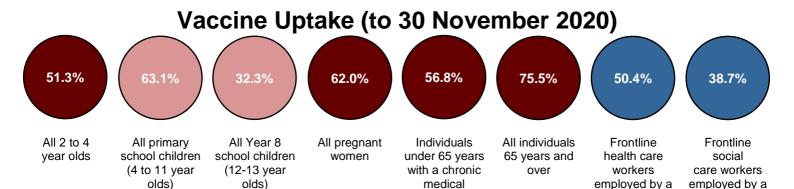
### **Respiratory Outbreaks** (28 Dec 2020-3 Jan 2021)

To date there have been no flu outbreaks reported

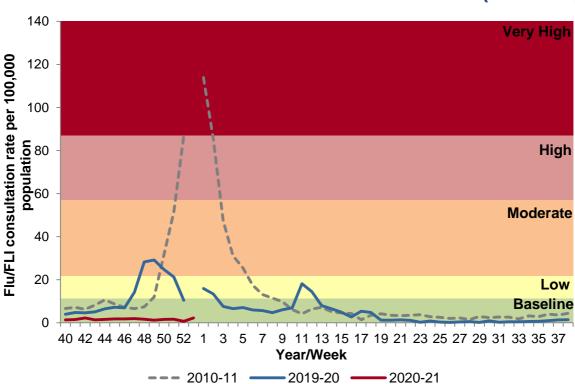
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To date there has been 1 admission to ICU with confirmed influenza



condition



## GP consultation rates for 'flu/flu-like-illness' ('flu/FLI')

Figure 1. Northern Ireland GP consultation rates for 'flu/FLI' 2019/20 – 2020/21, 2010/11 for comparison\*

The baseline MEM threshold for Northern Ireland is 11.3 per 100,000 population for 2020-21. 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

GP flu/FLI consultation rates were 2.2 per 100,000 population in week 53, which is lower than the same time last year (10.4 per 100,000 in week 52, 2019-20). Activity remains below the baseline threshold for Northern Ireland (<11.3 per 100,000) (Figure 1).

Flu/FLI consultation rates were highest in 45-64 year olds in week 53 (3.3 per 100,000). Rates are lower in all age groups, compared to the same time last year (week 52, 2019-20).

Surveillance systems should be interpreted with caution due to the impact of the COVID-19 pandemic.

\* Please note that there was no epidemiological week 53 in the 2019-20 seasonal influenza season.

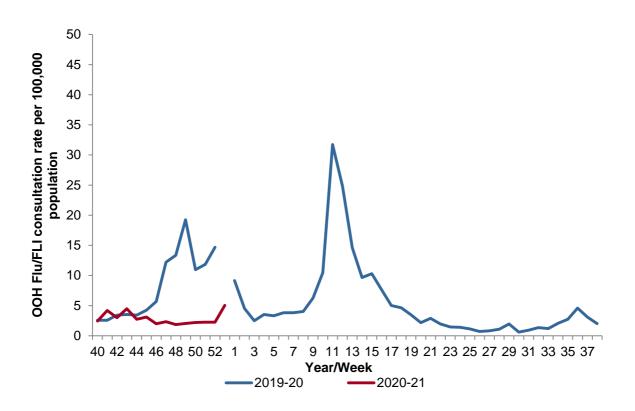


Figure 2. Northern Ireland Out of Hours (OOH) consultation rates for 'flu/FLI' 2019/20 – 2020/21\*

Flu/FLI consultation rates in Primary Care Out-of-Hours (OOH) Centres were 5.0 per 100,000 population in week 53. This is lower than the same time last year (14.7 per 100,000 in week 52, 2019-20) (Figure 2).

In week 53 the percentage of calls to an OOH Centre due to flu/FLI was 0.7%. This has decreased from the same period last year (1.9% in week 52, 2019-20).

Rates were highest in those aged 65+ years in week 53 (9.0 per 100,000 population). In comparison to week 52, 2019-20, consultation rates were lower in all age groups.

Surveillance systems should be interpreted with caution due to the impact of the COVID-19 pandemic.

\* Please note that there was no epidemiological week 53 in the 2019-20 seasonal influenza season.

# **Virology**

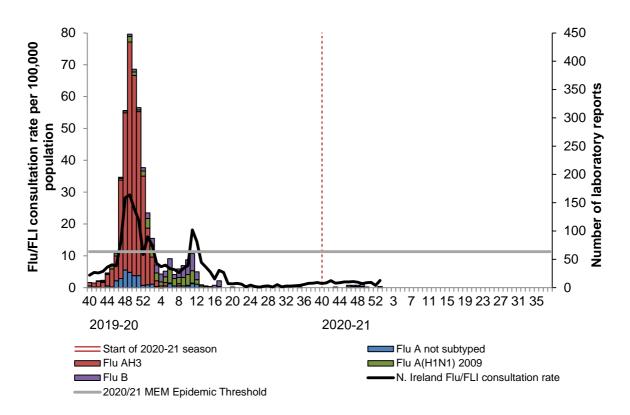


Figure 3. Weekly number of flu laboratory reports from week 40, 2019 with weekly GP consultation rates for 'flu/FLI'

Table 1. Virus activity in Northern Ireland by source, Week 53, 2020-21											
Source	Specimens tested	Flu AH3	Flu A(H1N1) 2009	Flu A (Untyped)	Flu B	RSV	Total Influenza Positive	% Influenza Positive			
Sentinel	2	0	0	0	0	0	0	0%			
Non-sentinel	3381	0	0	1	1	0	2	0%			
Total	3383	0	0	1	1	0	2	0%			

Table 2. Cumulative virus activity from all sources by age group, Week 40 - 53, 2020-21											
Age Group	Flu AH3	Flu A(H1N1) 2009	Flu A (Untyped)	Flu B	Total Influenza	RSV					
0-4	0	0	1	4	5	0					
5-14	4	1	1	8	14	0					
15-64	0	0	1	1	2	0					
65+	0	0	1	1	2	0					
Unknown	0	0	0	0	0	0					
All ages	4	1	4	14	23	0					

Table 3. Cumulative virus activity by age group and source, Week 40 - 53, 2020-21													
		S	entinel			Non-sentinel							
Age Group	Flu AH3	Flu A(H1N1) 2009	Flu A (Untyped)	Flu B	Total Influenza	RSV	Flu AH3	Flu A(H1N1) 2009	Flu A (Untyped)	Flu B	Total Influenza	RSV	
0-4	0	0	0	0	0	0	0	0	1	4	5	0	
5-14	0	0	0	0	0	0	4	1	1	8	14	0	
15-64	0	0	0	0	0	0	0	0	1	1	2	0	
65+	0	0	0	0	0	0	0	0	1	1	2	0	
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	
All ages	0	0	0	0	0	0	4	1	4	14	23	0	

#### **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. Sentinel and non-sentinel samples are tested for influenza and for respiratory syncytial virus. Cumulative reports of influenza A (untyped) may vary from week to week as these may be subsequently typed in later reports.

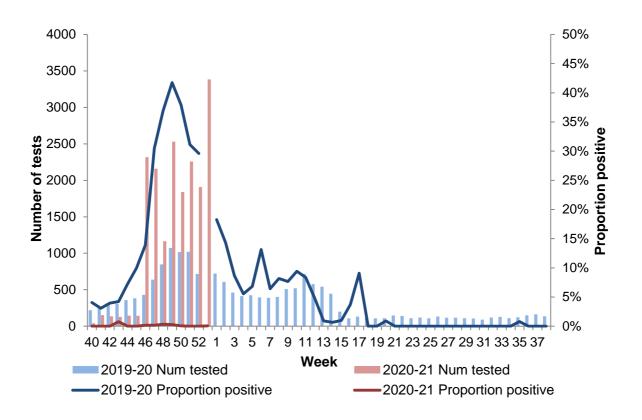


Figure 4. Number of samples tested for influenza and proportion positive, 2019/20 – 2020/21, all sources\*

#### Comment

In week 53, 2 samples were positive for flu (one Flu A(untyped), one Flu B) from 3383 submitted for testing in laboratories across Northern Ireland. Positivity for week 53 (0%) is lower than this time last year (30% in week 52, 2019-20).

The GP based sentinel programme is being redeveloped due to the impact of the COVID-19 pandemic. Therefore, preliminary sentinel testing needs to be interpreted with caution (Figures 3 and 4; Tables 1, 2 and 3)).

Surveillance systems should be interpreted with caution due to the impact of the COVID-19 pandemic.

\*Please note that a new testing platform at the regional Virology Laboratory includes both flu and COVID-19 from Week 46, therefore an increase in flu testing should be expected. Please note that there was no epidemiological week 53 in the 2019-20 seasonal influenza season.

# **Respiratory Syncytial Virus (RSV)**

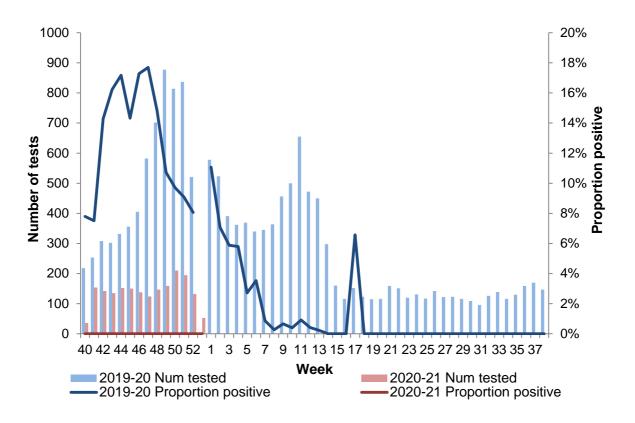


Figure 5. Number of samples tested for RSV and proportion positive, 2019/20 – 2020/21, all sources\*

#### Comment

In week 53, no samples were positive for RSV, with positivity in week 53 (0%) lower than the same time last season (8% in week 52, 2019-20). (Table 2 and Figure 5).

Surveillance systems should be interpreted with caution due to the impact of the COVID-19 pandemic.

\* Please note that there was no epidemiological week 53 in the 2019-20 seasonal influenza season.

# **Hospital Surveillance (Non-ICU/HDU)**

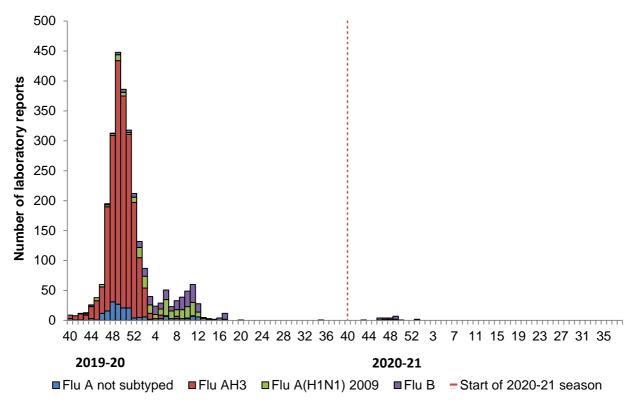


Figure 6. Weekly number of hospitalisations testing positive for influenza by week of specimen, 2019/20 – 2020/21

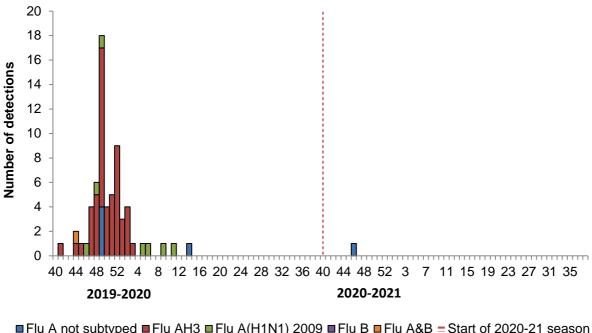
#### Comment

In week 53, 2 hospitalisations tested positive for flu (one Flu A(untyped), one Flu B). This is a decrease compared to the same time last year (Figure 6).

Of note, not all positive specimens may have been reported as this point.

Surveillance systems should be interpreted with caution due to the impact of the COVID-19 pandemic.

### **ICU/HDU Surveillance**



■Flu A not subtyped ■Flu AH3 ■Flu A(H1N1) 2009 ■Flu B ■Flu A&B = Start of 2020-21 season

Figure 7. Confirmed ICU/HDU influenza cases by week of specimen, 2019/20 - 2020/21

#### Comment

Data are collected on laboratory confirmed influenza patients and deaths in critical care (level 2 and level 3). There were no new admissions to ICU with confirmed influenza reported to the Public Health Agency (PHA) in week 53. To date this season there has been one admission to ICU with confirmed influenza reported to the PHA (week 46) (Figure 7).

Summary information on cases will be reported in the bulletin only if the numbers do not risk data confidentiality.

Surveillance systems should be interpreted with caution due to the impact of the COVID-19 pandemic.

# **Outbreaks**

### Comment

During week 53 there were no confirmed influenza outbreaks reported to the PHA Health Protection acute response duty room.

# **Mortality**

The Northern Ireland Statistics and Research Agency (NISRA) provide the weekly number of **respiratory associated deaths** and its proportion of all–cause registered deaths.

**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.

Please note, NISRA mortality data is not the same as the actual number of deaths during the reporting period.

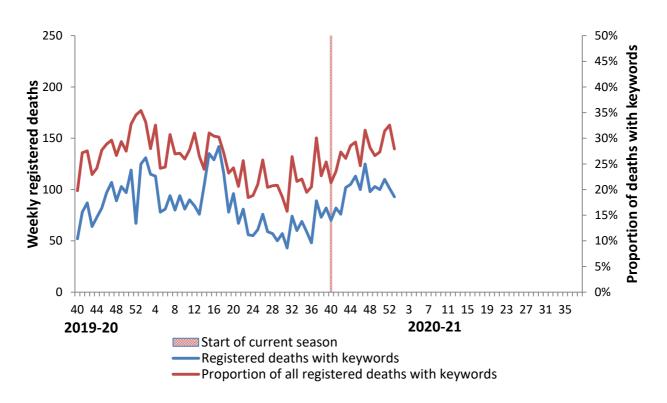


Figure 8. Weekly registered deaths and proportion of all deaths with keywords, by week of registration from week 40, 2019

#### Comment

In week 53, 93 respiratory associated deaths out of 333 all-cause deaths were reported (28%). These trends are broadly the same as the same period in 2019/20 (Figure 8).

### **EuroMOMO**

There was no excess all-cause mortality reported in Northern Ireland in week 53. Excess all-cause mortality was reported for two weeks in Northern Ireland to date this season (week 44 and 45). This excess mortality was reported mainly in those aged 65+ years.

Please note this data is provisional due to the time delay in registration; numbers may vary from week to week.

Information on mortality from all causes is provided for management purpose from Public Health England. 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 <a href="http://www.euromomo.eu/index.html">http://www.euromomo.eu/index.html</a>

# **Influenza Vaccine Uptake**

The 2020-21 seasonal flu vaccine programme officially commenced on 1<sup>st</sup> October 2020.

Figures below represent the first figures collected up to 30<sup>th</sup> November and so only reflect two months or less of data depending on the eligible group.

Table 4. Influenza vaccine	uptake rates, 2020	-21 and 2019-20	
	Delivered by	2020/21 (to 30 Nov)	2019/20 (to 30 Nov)
All 2 to 4 year olds	GP	51.3%	29.9%
All pregnant women	GP	62.0%	43.8%
All Individuals under 65 years with a chronic medical condition	GP	56.8%	43.8%
All individuals 65 years and over	GP	75.5%	62.5%
% of all primary school children vaccinated to date	Trust School Nurse Service*	63.1%	41.0%
% of all year 8 school children vaccinated to date	Trust School Nurse Service	32.3%	n/a
% of all frontline health care workers employed by a Trust	Trust HSCW Campaign	50.4%	37.3%
% of all frontline social care workers employed by a Trust	Trust HSCW Campaign	38.7%	19.8%

<sup>\*</sup> This figure includes nasal and injected vaccines delivered by the school, as well as a small number of nasal vaccines delivered by their GP

# **Further Information and International/National Updates**

#### **Further information**

Further information on influenza is available at the following websites:

PHA Seasonal Influenza

nidirect Flu Vaccination

PHE Seasonal Influenza Guidance - Data and Analysis

WHO Influenza

**ECDC Seasonal Influenza** 

### **National updates**

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

England PHE 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, Regional Virus Laboratory, Critical Care Network for Northern Ireland and Public Health England. Their work is greatly appreciated and their support vital in the production of this bulletin. The author also acknowledges 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.

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