

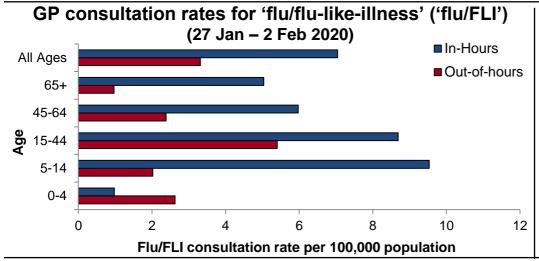


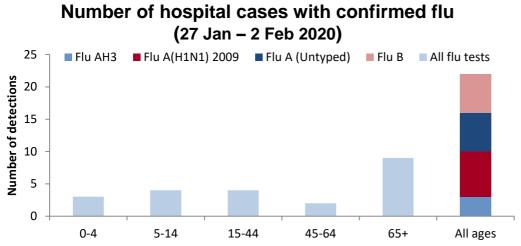
Influenza

Weekly Surveillance Bulletin

Week 5 (27 January - 2 February 2020)

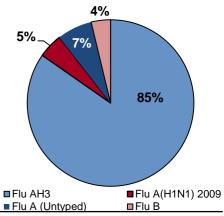
Community Activity							Flu Intensity:				В	ase	seline Low			Medium		า	High			Very High												
			0	ctob	er		N	love	mbe	er	D	ece	mbe	er		Ja	nua	ıry		F	ebr	uar	у		Ма	rch			Αp	oril			May	
	Week	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	2019/20																																	
	2018/19																																	





To date there have been 61 admissions to ICU with confirmed influenza

Circulating strains this season to date



Respiratory Outbreaks this Week

(27 Jan – 2 Feb 2020)



To date there have been eight flu outbreaks; five in a Care Home setting, two in a Hospital setting and one other

Vaccine Uptake (1 October - 31 December 2020)



All 2 to 4 year olds*

Primary school children offered and vaccinated so far* All pregnant woman

52.0%

All individuals under 65 years with a chronic medical

condition

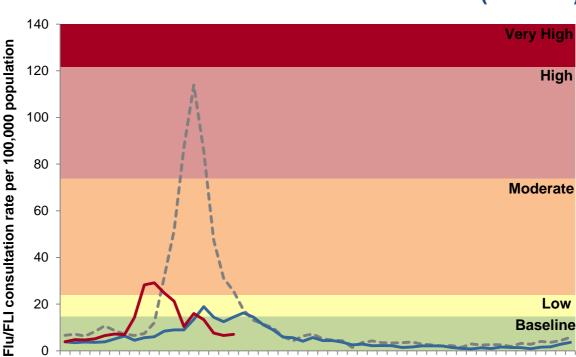
67.3%

All individuals 65 years and over

40.6%

Frontline health care workers employed by a Trust 21.8%

Frontline social care workers employed by a Trust 40 42 44 46 48 50 52 2



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

Figure 1. Northern Ireland GP consultation rates for 'flu/FLI' 2018/19 – 2019/20, 2010/11 for comparison

6 8

The baseline MEM threshold for Northern Ireland is 14.7 per 100,000 population for 2019-20. Low activity is 14.7 to <23.9, moderate activity 23.9 to <73.9, high activity 73.9 to <121.7 and very high activity is >121.7

--- 2010-11 **---** 2018-19 **---** 2019-20

Year/Week

10 12 14 16 18 20 22 24 26 28 30 32 34 36 38

Comment

The GP flu/FLI consultation rate during week 5, 2020 was 7.0 per 100,000 population, a slight increase from week 4 (6.6 per 100,000). This is lower than the same time last year (14.5 per 100,000). Activity remains below the baseline threshold for Northern Ireland (<14.7 per 100,000) (Figure 1).

Flu/FLI consultation rates decreased in week 5 compared to week 4 in all age groups, except in those aged 5-14 and 15-44 years, which increased. Flu/FLI consultation rate was highest in those aged 5-14 years in week 5 (9.5 per 100,000 population). Rates are lower in all age groups compared to the same period last year (week 5, 2018-19).

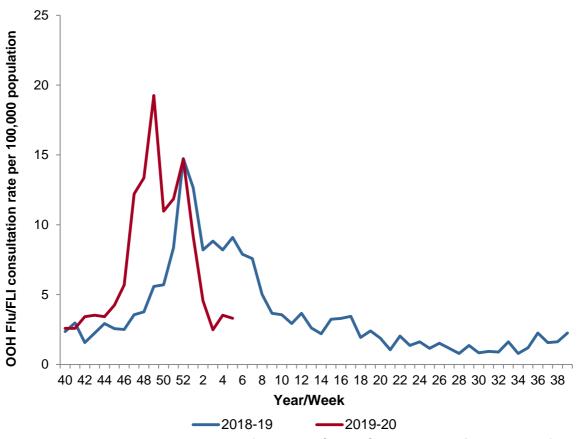


Figure 2. Northern Ireland Out of Hours (OOH) consultation rates for 'flu/FLI' 2018/19 – 2019/20

Comment

The flu/FLI consultation rate in Primary Care Out-of-Hours (OOH) Centres during week 5, 2020 was 3.3 per 100,000 population, a slight decrease from week 4 (3.5 per 100,000). This is lower than the same time last year (9.1 per 100,000).

In week 5 the percentage of calls to an OOH Centre due to flu/FLI was 0.6%. This is similar to week 4 (0.7%) and is lower than the same period last year (1.6%).

Consultation rates increased in week 5 compared to week 4 in the 15-44 and 45-64 year age groups, while decreasing in the 0-4 and 5-14 year age groups. Rates remained constant in those aged 65+ years. Consultation rates were highest in those aged 15-44 years in week 5 (5.4 per 100,000 population). Rates are lower in all age groups compared to the same period last year (week 5, 2018-19).

Virology

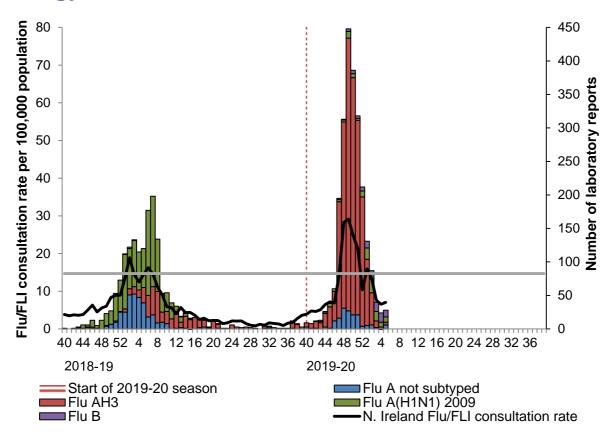


Figure 3. Weekly number of flu laboratory reports from week 40, 2018 with weekly GP consultation rates for 'flu/FLI'

Table 1. Virus activity in Northern Ireland by source, Week 5, 2019-20												
Source	Specimens tested	Flu AH3	Flu A(H1N1) 2009	Flu A (Untyped)	Flu B	RSV	Total Influenza Positive	% Influenza Positive				
Sentinel	3	1	0	0	0	0	1	33%				
Non-sentinel	371	3	8	6	10	8	27	7%				
Total	374	4	8	6	10	8	28	7%				

Table 2.	Table 2. Cumulative virus activity from all sources by age group, Week 40 - 5, 2019-20												
Age Group	Flu AH3	Flu A(H1N1) 2009	Flu A (Untyped)	Flu B	Total Influenza	RSV							
0-4	298	24	25	13	360	567							
5-14	240	8	27	12	287	33							
15-64	771	65	49	59	944	157							
65+	679	15	58	4	756	200							
Unknown	0	0	0	0	0	1							
All ages	1988	112	159	88	2347	958							

Table 3. Cumulative virus activity by age group and source, Week 40 - Week 5, 2019-20												
			Sen	tinel	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	11	0	0	0	11	0	287	24	25	13	349	567
5-14	32	0	0	1	33	0	208	8	27	11	254	33
15-64	66	6	0	5	77	15	705	59	49	54	867	142
65+	13	0	0	0	13	2	666	15	60	4	745	198
Unknown	0	0	0	0	0	0	0	0	0	0	0	1
All ages	122	6	0	6	134	17	1866	106	161	82	2215	941

Note

Additional virology testing has been undertaken at local laboratories. This bulletin includes this data along with the data from the Regional Virology Laboratory.

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 RSV. Cumulative reports of influenza A (untyped) may vary from week to week as these may be subsequently typed in later reports.

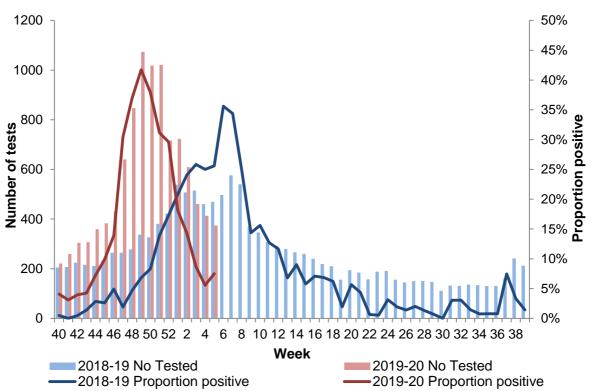


Figure 4. Number of samples tested for influenza and proportion positive, 2018/19 – 2019/20, all sources

Comment

In week 5, 2020, 28 samples were positive for flu (four Flu A(H3), eight Flu A(H1N1), six Flu A(untyped) and 10 Flu B) from 374 submitted for testing in laboratories across Northern Ireland.

Positivity increased slightly in week 5 (7%) compared to week 4 (6%). Positivity is lower than this time last year (26%).

One of the three samples submitted by the GP based sentinel scheme was positive for flu (Flu AH3, 33% positivity) (Figures 3 and 4; Tables 1, 2 and 3).

Respiratory Syncytial Virus (RSV)

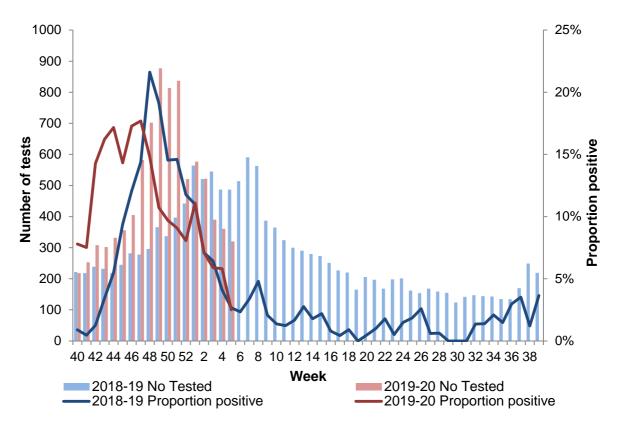


Figure 5. Number of samples tested for RSV and proportion positive, 2018/19 – 2019/20, all sources

Comment

In week 5, eight samples were positive for RSV, with positivity (3%) the same as the same period last season (3%).

The majority (59%) of cases since week 40 have occurred in children aged 0-4 years (Table 2 and Figure 5).

Hospital Surveillance (Non-ICU/HDU)

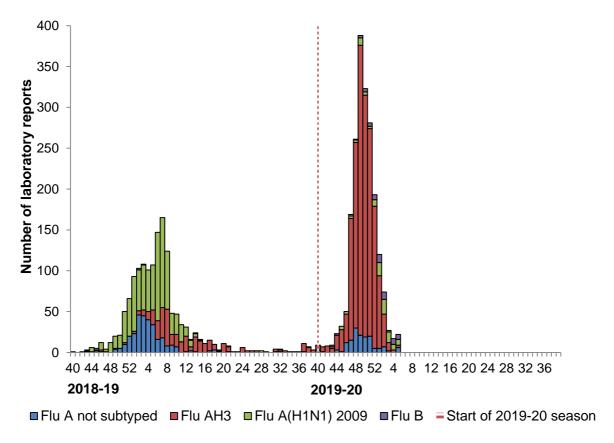


Figure 6. Weekly number of hospitalisations testing positive for influenza by week of specimen, 2018/19 – 2019/20

Comment

In week 5, 2020, 22 hospitalisations tested positive for flu (three Flu A(H3), seven Flu A(H1N1), six Flu A(untyped) and six Flu B). This is an increase from week 4 but lower than the same time last year (Figure 6).

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

ICU/HDU Surveillance

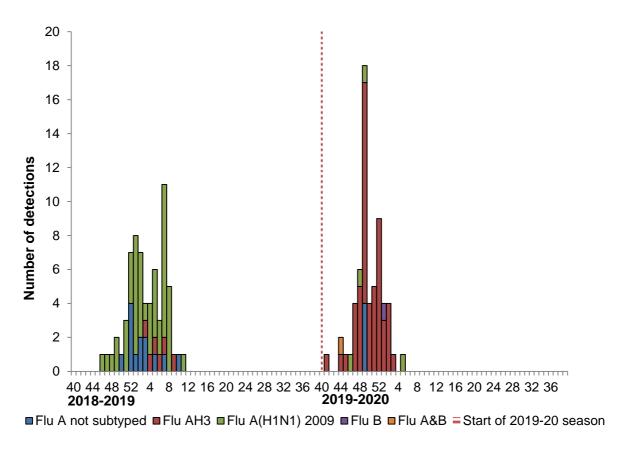


Figure 7. Confirmed ICU/HDU influenza cases by week of specimen, 2018/19 – 2019/20

Comment

Data are collected on laboratory confirmed influenza patients and deaths in critical care (level 2 and level 3). There was one new admission to ICU with confirmed influenza reported to the Public Health Agency (PHA) during week 5. So far this season there has been 61 admissions to ICU with confirmed influenza (51 Flu A(H3), four Flu A(H1N1), four Flu A(untyped), one Flu B and one Flu A&B) reported to the PHA (Figure 7).

Of the 61 admissions to ICU, 49% (n=30) were male. The ages ranged from <1 year to 86 years, with a median age of 59 years and a mean age of 50 years old. 75% (n=46) were classed as being in a vaccine risk group. Vaccination status was known for 74% (n=45); 12 were vaccinated this season. To date there have been nine deaths reported among ICU admissions.

Outbreaks

During week 5, 2020 there were no confirmed respiratory outbreaks reported to the PHA Health Protection acute response duty room. To date, there has been a total of eight confirmed respiratory outbreaks reported, five in a Care Home setting, two in a Hospital setting and one other (seven Flu A(untyped) and one Flu B).

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.

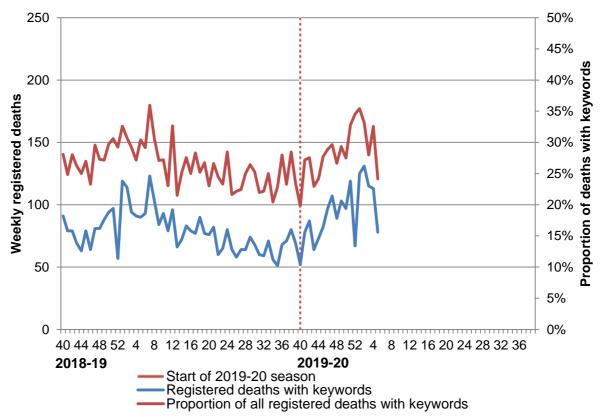


Figure 8. Weekly registered deaths and proportion of all deaths with keywords, by week of registration from week 40, 2018

Comment

In week 5, 2020, 78 respiratory associated deaths out of 323 all-cause deaths were reported (24%). These trends are broadly the same as the same period last year (Figure 8).

EuroMOMO

There was no excess all-cause mortality reported in Northern Ireland in week 5, 2020. Excess all-cause mortality was reported for five weeks in Northern Ireland to date this season (weeks 49, 50, 51, 2 and 3). This excess mortality was mostly reported 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 http://www.euromomo.eu/index.html

Influenza Vaccine Uptake

Every year the seasonal flu vaccine programme officially commences on 1st October 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 children's programme has been impacted on by temporary delays in the manufacturing of the flu vaccine given to children (see table 4 for details).

Uptake for primary school children is presented differently and is the proportion of children offered the vaccine between the start of the programme and 31st December and also received it.

Table 4. Influenza vaccine uptake rates, 2019-20 and 2018-19											
	Delivered by	Start date	2019/20 (to 31 Dec)	2018/19 (to 31 Dec)							
All 2 to 4 year olds	GP	Mid - late Oct 2019	37.2%	45.7%							
All pregnant women	GP	1 st Oct 2019	44.9%	46.5%							
All individuals under 65 years with a chronic medical condition	GP	1 st Oct 2019	52.0%	47.9%							
All individuals 65 years and over	GP	1 st Oct 2019	67.3%	64.1%							
% of primary school children offered and vaccinated the vaccine to date	Trust School Nurse Service*	1 st Oct 2019 2 week pause in Nov	74.9%	75.5%							
% of all Frontline health care workers employed by a Trust	Trust HSCW Campaign	1 st Sept 2019	40.6%	38.4%							
% of all Frontline social care workers employed by a Trust	Trust HSCW Campaign	1 st Sept 2019	21.8%	21.6%							

^{*}This figure also includes a small number vaccinated 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

USA (CDC) Weekly U.S. Influenza Surveillance Report

Acknowledgements

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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.

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:

Dr Mark O'Doherty
Senior Epidemiological Scientist
Public Health Agency

Ms Emma Dickson
Epidemiological Scientist
Public Health Agency

Mr Jeffrey Doogan
Surveillance Information Officer
Public Health Agency

Dr Jillian Johnston
Consultant in Health Protection
Public Health Agency

Email: flusurveillance@hscni.net