

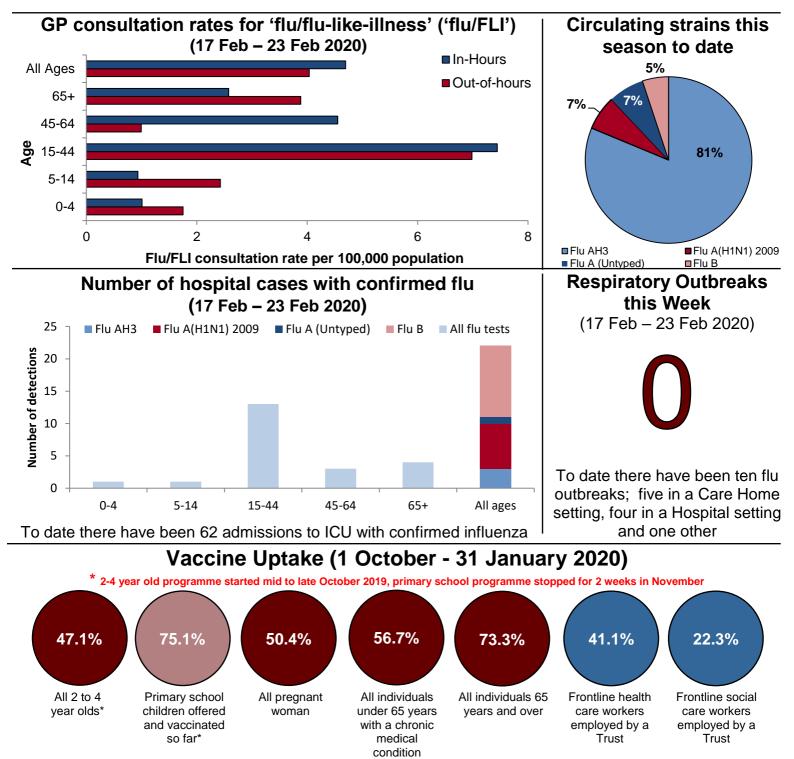


Influenza

Weekly Surveillance Bulletin

Week 8 (17 February – 23 February 2020)

(Community Activity							Flu Intensity:			B	asel	ine	Low		Medium		า	High			Very High												
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ſ	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
Ī	2019/20																																	
	2018/19																																	



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

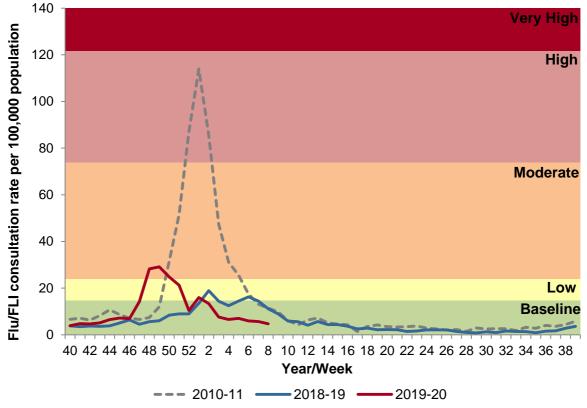


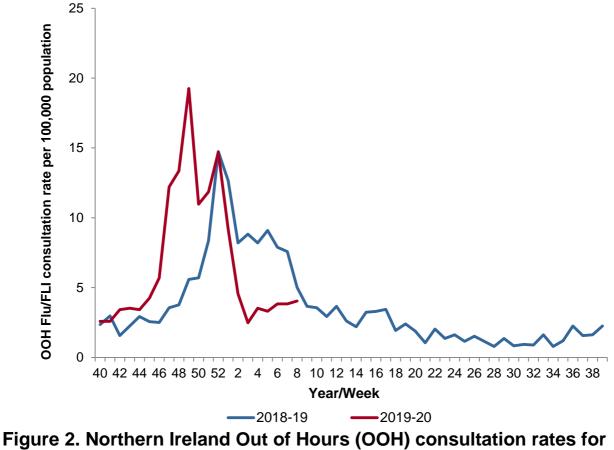
Figure 1. Northern Ireland GP consultation rates for 'flu/FLI' 2018/19 – 2019/20, 2010/11 for comparison

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

Comment

The GP flu/FLI consultation rate during week 8, 2020 was 4.7 per 100,000 population, a decrease from week 7 (5.7 per 100,000). This is lower than the same time last year (11.1 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 8 compared to week 7 in the 5-14, 45-64 and 65+ year age groups, while increasing in the 0-4 and 15-44 year age groups. Flu/FLI consultation rate was highest in those aged 15-44 years in week 8 (7.4 per 100,000). Rates are lower in all age groups compared to the same period last year (week 8, 2018-19).



'flu/FLI' 2018/19 - 2019/20

Comment

The flu/FLI consultation rate in Primary Care Out-of-Hours (OOH) Centres during week 8, 2020 was 4.0 per 100,000 population, a slight increase from week 7 (3.8 per 100,000). This is lower than the same time last year (5.0 per 100,000).

In week 8 the percentage of calls to an OOH Centre due to flu/FLI was 0.8%. This is similar to week 7 (0.7%) and the same period last year (0.9%).

Consultation rates increased in week 8 compared to week 7 in the 5-14, 15-44 and 65+ year age groups, while decreasing in the 0-4 and 45-64 year age groups. Consultation rates were highest in those aged 15-44 years in week 8 (7.0 per 100,000 population). Rates are lower in all age groups compared to the same period last year (week 8, 2018-19), except in those groups aged 0-4 and 65+ years which are higher.

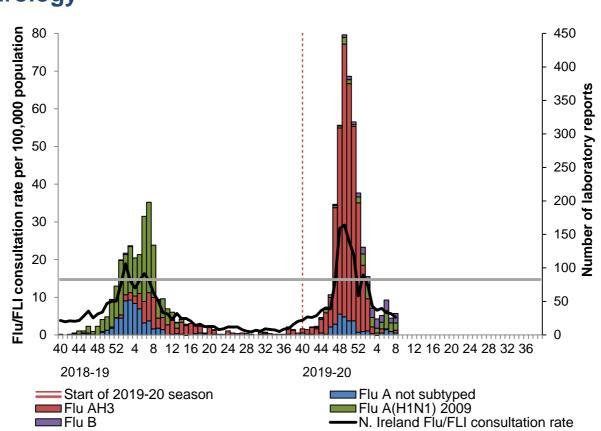


Figure 3. Weekly number of flu laboratory reports from week 40, 2018 with weekly GP consultation rates for 'flu/FLI'

Virology

Table 1. Virus activity in Northern Ireland by source, Week 8, 2019-20												
Source	Specimens tested	Flu AH3	Flu A(H1N1) 2009	Flu A (Untyped)	Flu B	RSV	Total Influenza Positive	% Influenza Positive				
Sentinel	10	0	2	0	1	0	3	30%				
Non-sentinel	382	4	9	3	13	1	29	8%				
Total	392	4	11	3	14	1	32	8%				

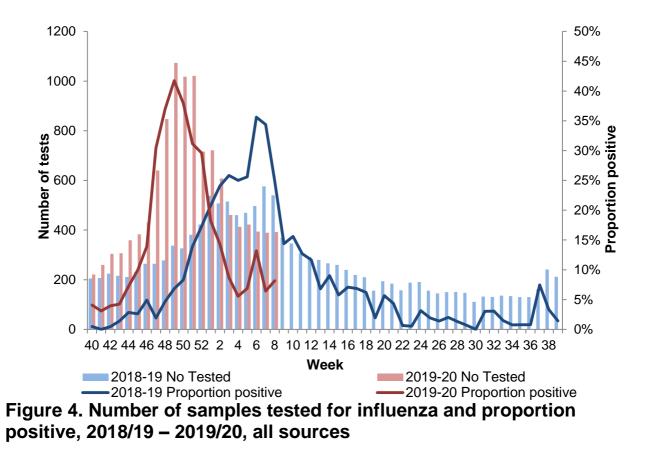
Table 2. Cumulative virus activity from all sources by age group, Week 40 - 8, 2019-20													
Age Group	Flu AH3	Flu A(H1N1) 2009	Flu A (Untyped)	Flu B	Total Influenza	RSV							
0-4	298	26	27	20	371	573							
5-14	240	8	29	17	294	35							
15-64	775	98	58	81	1012	163							
65+	682	33	56	7	778	203							
Unknown	0	0	0	0	0	1							
All ages	1995	165	170	125	2455	975							

Table 3. Cumulative virus activity by age group and source, Week 40 - Week 8, 2019-20													
			Sent	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	26	27	20	360	573	
5-14	32	0	0	1	33	0	208	8	29	16	261	35	
15-64	66	11	0	8	85	15	709	87	58	73	927	148	
65+	13	0	0	0	13	2	669	33	58	7	767	201	
Unknown	0	0	0	0	0	0	0	0	0	0	0	1	
All ages	122	11	0	9	142	17	1873	154	172	116	2315	958	

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.



Comment

In week 8, 2020, 32 samples were positive for flu (11 Flu A(H1N1), four Flu A(H3), three Flu A(untyped) and 14 Flu B) from 392 submitted for testing in laboratories across Northern Ireland.

Positivity increased in week 8 (8%) compared to week 7 (6%). Positivity is lower than this time last year (25%).

Three of the 10 samples submitted by the GP based sentinel scheme were positive for flu (two Flu A(H1N1) and one Flu B, 30% positivity) (Figures 3 and 4; Tables 1, 2 and 3).



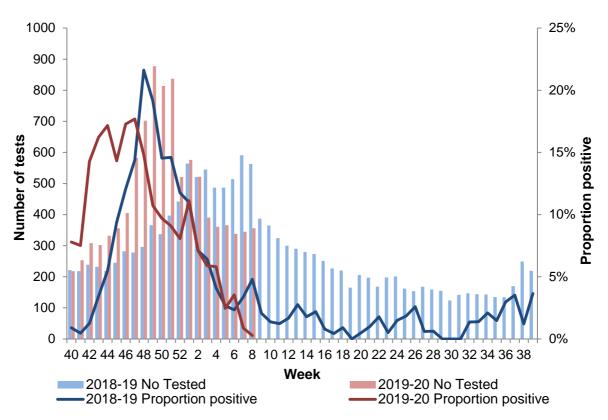
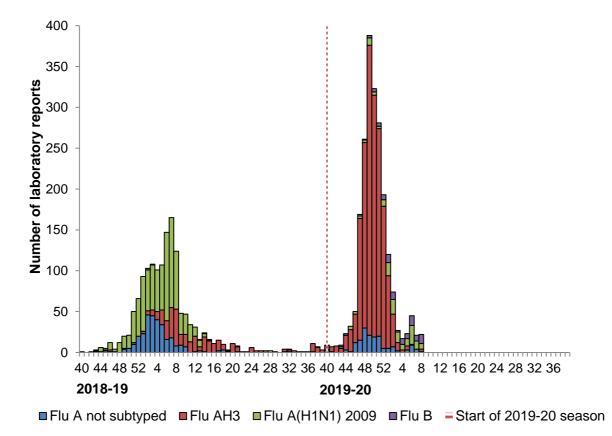


Figure 5. Number of samples tested for RSV and proportion positive, 2018/19 – 2019/20, all sources

Comment

In week 8, one sample was positive for RSV, with positivity (0%) lower than the same period last season (5%).

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 8, 2020, 22 hospitalisations tested positive for flu (seven Flu A(H1N1), one Flu A(untyped), three Flu A(H3) and 11 Flu B). This is similar to the number of hospitalisations testing positive for flu in week 7 and 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

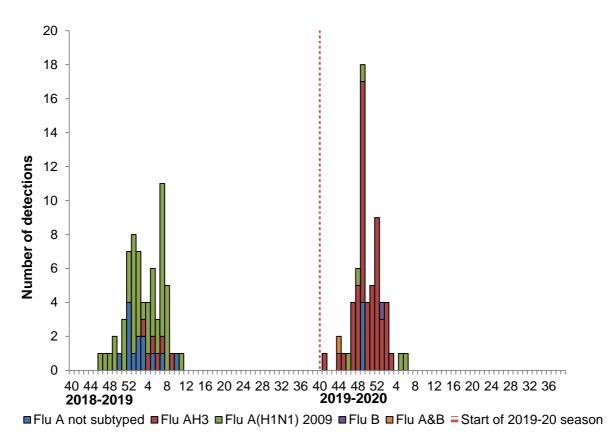


Figure 7. Confirmed ICU/HDU influenza cases by week of specimen, 2018/19 – 2019/20

Comment

Data are collected on laboratory confirmed influenza patients and deaths in critical care (level 2 and level 3). There were no new admissions to ICU with confirmed influenza reported to the Public Health Agency (PHA) during week 8. So far this season there has been 62 admissions to ICU with confirmed influenza (51 Flu A(H3), five Flu A(H1N1), four Flu A(untyped), one Flu B and one Flu A&B) reported to the PHA (Figure 7).

Of the 62 admissions to ICU, 50% (n=31) 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. 74% (n=46) were classed as being in a vaccine risk group. Vaccination status was known for 74% (n=46); 12 were vaccinated this season. To date there have been 10 deaths reported among ICU admissions; seven of whom were in a flu vaccine eligible group and <5 had been vaccinated this season.

Outbreaks

During week 8, 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 ten confirmed respiratory outbreaks reported, five in a Care Home setting, four in a Hospital setting and one other (nine 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.

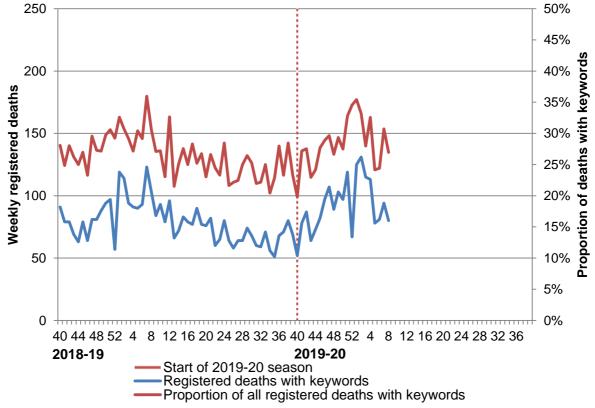


Figure 8. Weekly registered deaths and proportion of all deaths with keywords, by week of registration from week 40, 2018

Comment

In week 8, 2020, 80 respiratory associated deaths out of 297 all-cause deaths were reported (27%). This is lower than the same period last year (31%).

EuroMOMO

There was no excess all-cause mortality reported in Northern Ireland in week 8, 2020. Excess all-cause mortality was reported for four weeks in Northern Ireland to date this season (weeks 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 January and also received it.

Table 4. Influenza vaccine uptake rates, 2019-20 and 2018-19											
	Delivered by	Start date	2019/20 (to 31 Jan)	2018/19 (to 31 Jan)							
All 2 to 4 year olds	GP	Mid - late Oct 2019	47.1%	47.2%							
All pregnant women	GP	1 st Oct 2019	50.4%	47.0%							
All individuals under 65 years with a chronic medical condition	GP	1 st Oct 2019	56.7%	50.7%							
All individuals 65 years and over	GP	1 st Oct 2019	73.3%	68.7%							
% of primary school children offered the vaccine and vaccinated to date	Trust School Nurse Service*	1 st Oct 2019 2 week pause in Nov	75.1%	75.7%							
% of all Frontline health care workers employed by a Trust	Trust HSCW Campaign	1 st Sept 2019	41.1%	38.8%							
% of all Frontline social care workers employed by a Trust	Trust HSCW Campaign	1 st Sept 2019	22.3%	22.0%							

*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

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