

WEEKLY NEW BRUNSWICK INFLUENZA REPORT

Reporting period: October 22 to October 28 2017 (week 43)

Summary:

In New Brunswick, influenza activity was low in week 43

New Brunswick:

- There have been 21 positive influenza detections in week 43. To date this season, 32 influenza detections have been reported, 31 were influenza A (H3) and 1 was influenza A (unsubtyped). Twenty of the 32 detections reported so far were related to two nosocomial outbreaks (where patients were admitted at least 48 hours before influenza symptoms).
- There have been 2 new influenza associated hospitalizations during week 43. So far this season, 27 influenza associated hospitalizations have been reported with 1 death. Twenty of the 27 hospitalizations were related to nosocomial outbreaks where patients were admitted at least 48 hours before influenza symptoms.
- The ILI consultation rate was 0.0 consultations per 1,000 patients visits in week 43. The ILI rate was slightly below the expected levels for this time
 of year.
- Two new influenza outbreaks were reported in Hospitals in Region 3.

Canada:

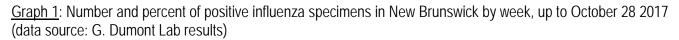
- Influenza activity continues to increase, but remained below the seasonal threshold in week 43.
- The percentage of laboratory tests positive for influenza remains higher for this time of year compared to previous seasons. The majority of influenza detections continue to be A(H3N2).
- The number of influenza-related hospitalizations and regions reporting sporadic and localized activity are above the expected levels for this time of year.

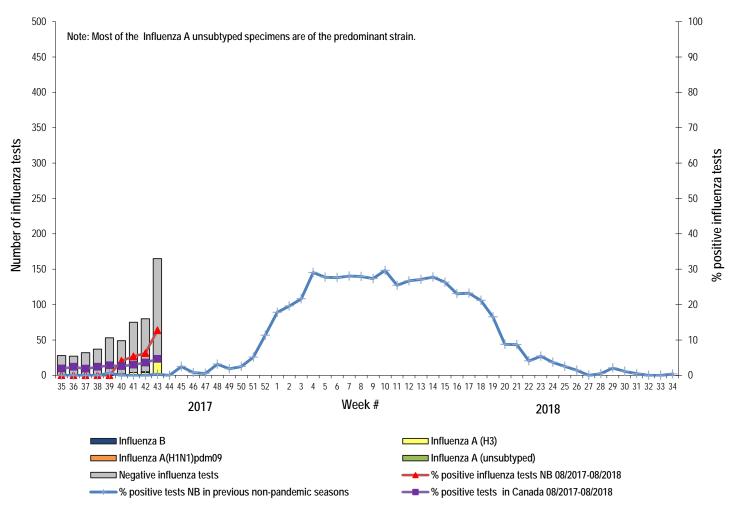
International:

Seasonal influenza:

- Declining levels of influenza activity were reported in the temperate zone of the southern hemisphere and in some countries of South and South East Asia. In Central America and the Caribbean, low influenza activity was reported in a few countries. Influenza activity remained at low levels in the temperate zone of the northern hemisphere. Worldwide, influenza A(H3N2) and B viruses accounted for the majority of influenza detections.
- Emerging Respiratory Viruses:
 - MERS CoV:
 - o WHO: <u>http://www.who.int/csr/disease/coronavirus_infections/en/</u>
 - o CDC: <u>http://www.cdc.gov/coronavirus/mers/</u>
 - Avian Influenza:
 - o WHO: www.who.int/csr/disease/avian influenza/en/index.html
 - 1) Influenza Laboratory Data¹
 - Influenza activity was low in week 43.
 - Twenty-one influenza detections were reported during week 43.
 - Since the beginning of the season, 32 influenza detections were reported, 31 were influenza A (H3) and 1 was influenza A (unsubtyped).

¹ Surveillance specimens are submitted by recruited New Brunswick Sentinel Practitioner Influenza Network (NB SPIN) practitioners, which are comprised of sites in Emergency Rooms, in Family Practice, in First Nations communities, in Nursing Home, in Universities and in Community Health Centers. Diagnostic specimens are submitted by physicians in the community/hospital setting. Influenza laboratory data is comprised of results from surveillance and diagnostic specimens. All laboratory specimens are tested using a real-time PCR assay, which is a rapid detection method designed for detection of all known variants of influenza A and B. All laboratory-confirmed cases are reported for the week when laboratory confirmation was received.





<u>Table 1</u>: Positive influenza test results by Health Region, in New Brunswick for reporting week, cumulative current and previous seasons. (data source: G. Dumont lab results up to October 28 2017)

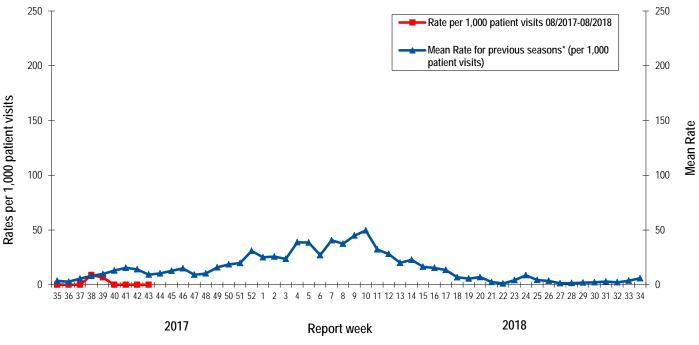
Zone	Reporting period:					Cumulative: (2017/2018 season) Aug./27/2017 –Oct./28/2017				Cumulative: (2016/2017 season) Aug./28/2016 – Aug./26/2017						
	October/22/2017-October/28/2017															
	Activity level ²	A B				A B				A B						
		A(H3)	(H1N1) pdm09	Unsubtyped / Other	A Total	Total	A(H3)	(H1N1) pdm09	Unsubtyped / Other	A Total	Total	(H3)	(H1N1) pdm09	Unsubtyped / Other	A Total	Total
Zone 1	Sporadic activity	1	0	0	1	0	8	0	0	8	0	76	0	504	580	90
Zone 2	No activity	0	0	0	0	0	0	0	0	0	0	21	1	77	99	8
Zone 3	Sporadic activity	19	0	0	19	0	21	0	1	22	0	25	0	117	142	23
Zone 4	No activity	0	0	0	0	0	0	0	0	0	0	18	0	32	50	6
Zone 5	No activity	0	0	0	0	0	0	0	0	0	0	2	0	3	5	6
Zone 6	No activity	0	0	0	0	0	1	0	0	1	0	27	0	62	89	11
Zone 7	Sporadic activity	1	0	0	1	0	1	0	0	1	0	21	0	52	73	16
Total NB		21	0	0	21	0	31	0	1	32	0	190	1	847	1038	160

² Influenza activity level definition is available on the PHAC FluWatch website: <u>http://healthycanadians.gc.ca/diseases-conditions-maladies-affections/disease-maladie/flu-grippe/surveillance/season-definitions-saison-eng.php</u>

2) ILI Consultation Rates³

- During week 43, the ILI consultation rate was 0.0 consultations per 1,000 patients visits. The ILI rate was slightly below the expected levels for this time of year.
- During week 43, the sentinel response rate was 18%, for both the FluWatch sentinel physicians and the NB SPIN practitioners.

Graph 2: ILI Consultation Rates in New Brunswick, by report week, season 2017/18 compared to previous seasons*



* The mean rate was based on data from the 1996/97 to 2016/2017 seasons and excludes the Pandemic season (2009/10).

3) ILI and Laboratory-Confirmed Outbreak Data

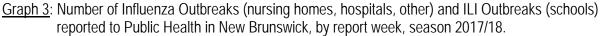
<u>Table 2</u>: ILI activity/outbreaks in New Brunswick nursing homes and schools for the reporting week, current and previous seasons.

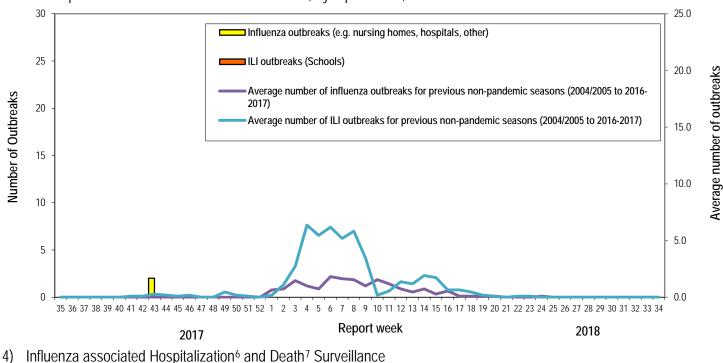
	October	Reporting period: /22/2017–October/28/20	Cumulative # of outbreaks	Cumulative # of outbreaks		
	Lab-confirmed outbreaks in Nursing homes ⁴	ILI school outbreaks ⁵	Lab-confirmed outbreaks in Other settings⁴	season 2017-2018	season 2016-2017	
Zone 1	0 out of 13	0 out of 74	0	0	3	
Zone 2	0 out of 16	0 out of 81	0	0	5	
Zone 3	0 out of 14	0 out of 95	2	2	14	
Zone 4	0 out of 6	0 out of 22	0	0	0	
Zone 5	0 out of 2	0 out of 18	0	0	1	
Zone 6	0 out of 9	0 out of 35	0	0	0	
Zone 7	0 out of 4	0 out of 27	0	0	2	
Total NB	0 out of 64	0 out of 352	2	2	25	

³ A total of 28 practitioner sites (16 FluWatch sentinel physicians and 12 NB SPIN sites) are recruited this season to report the number of ILI patients and total patient consultations one day during a reporting week.

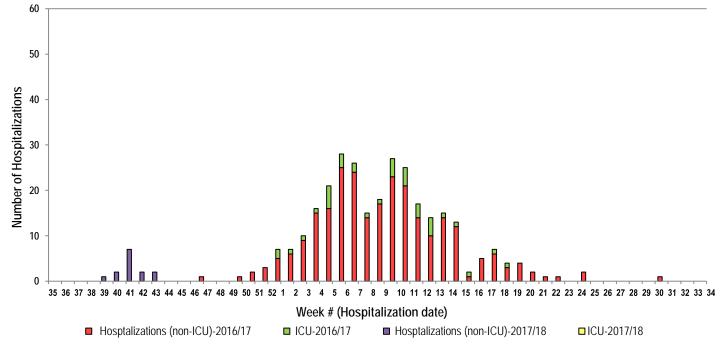
⁴ Two or more ILI cases within a seven day period, including at least one laboratory-confirmed case of influenza. Outbreaks are reported in the week when laboratory confirmation is received.

⁵ Schools reporting greater than 10% absenteeism which is likely due to ILI.





<u>Graph 4</u>: Influenza associated Hospitalizations and ICU admissions in New Brunswick, by week of hospitalization for current and past season.*



*Those who had been hospitalized 15 days or more prior to laboratory confirmation date were excluded from the graph ** One death has been reported so far in season 2017-2018.

⁶ Hospitalizations (including ICU admissions) are influenza associated; they may or may not be due to influenza.

⁷ Deaths are influenza associated; influenza may not be the direct cause of death.

<u>National Flu Watch Program</u> - Additional information on influenza activity in Canada and around the world is available on the Public Health Agency of Canada's website at: <u>http://www.phac-aspc.gc.ca/fluwatch/</u>

Other Links:

World-http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/index.html Europe: http://www.ecdc.europa.eu/en/healthtopics/seasonal_influenza/epidemiological_data/Pages/Weekly_Influenza_Surveillance_Overview.aspx PAHO:http://new.paho.org/hq/index.php?option=com_content&task=blogcategory&id=805<emid=569] Australia: http://www.health.gov.au/internet/main/publishing.nsf/Content/cda-surveil-ozflu-flucurr.htm] New Zealand: [http://www.surv.esr.cri.nz/virology/influenza_weekly_update.php Argentina: : http://www.msal.gov.ar/ South Africa: http://www.nicd.ac.za/ US: www.cdc.gov/flu/weekly/

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