

## WEEKLY NEW BRUNSWICK INFLUENZA REPORT

Reporting period: August 26 to September 8 2018 (weeks 35 & 36)

#### Summary:

### In New Brunswick, influenza activity remained at inter-seasonal levels in weeks 35 & 36

#### New Brunswick:

- There have been no positive influenza cases in weeks 35 & 36. To date this season, no cases have been reported.
- There have been no influenza associated hospitalizations during weeks 35 & 36. So far this season, no influenza associated hospitalizations have been reported.
- The ILI consultation rate was 0.0 consultations per 1,000 patients visits in weeks 35 & 36. The ILI rate was within the expected levels for this time of year.
- No influenza/ILI outbreaks were reported in weeks 35 & 36. So far this season, no outbreaks have been reported.

#### Canada:

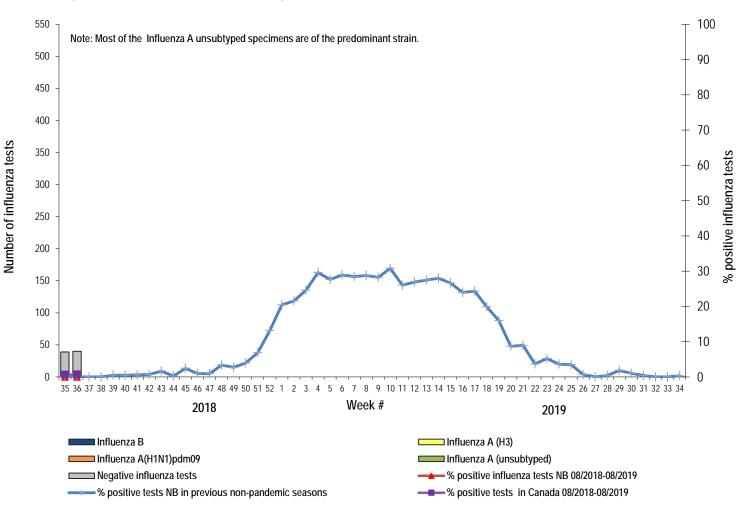
- Influenza activity is at interseasonal levels across the country. The majority of regions in Canada are reporting no influenza activity.
- All indicators of influenza activity are at low levels, as expected for this time of year.
- Influenza A is the most common influenza virus circulating in Canada.

#### International:

Seasonal influenza:

- In the temperate zones of the southern hemisphere, influenza activity remained elevated in South America and continued to decrease in Southern Africa. Influenza activity remained at low seasonal levels in Australia and New Zealand and at inter-seasonal levels in most of temperate zone of the northern hemisphere. Reports of influenza activity were reported as decreased in some countries of tropical America. Worldwide, seasonal influenza subtype A viruses accounted for the majority of detections.
- Emerging Respiratory Viruses:
  - MERS CoV:
    - o WHO: http://www.who.int/csr/disease/coronavirus\_infections/en/
    - o CDC: <u>http://www.cdc.gov/coronavirus/mers/</u>
    - o Updated Risk Assessment (August 2018): http://www.who.int/csr/disease/coronavirus\_infections/risk-assessment-august-2018.pdf?ua=1
  - Avian Influenza:
    - o WHO: www.who.int/csr/disease/avian influenza/en/index.html
    - 1) Influenza Laboratory Data<sup>1</sup>
      - Influenza activity remained at inter-seasonal levels in weeks 35 & 36.
      - No influenza cases were reported during weeks 35 & 36.
      - Since the beginning of the season, no influenza cases have been reported.

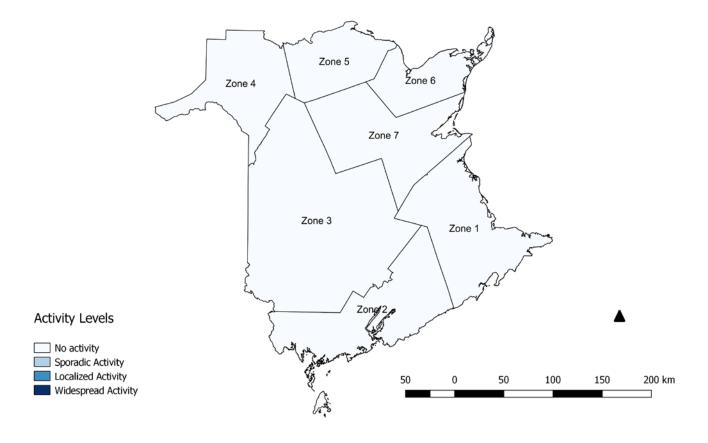
<sup>&</sup>lt;sup>1</sup> Surveillance specimens are submitted by recruited New Brunswick Sentinel Practitioner Influenza Network (NB SPIN) practitioners, which are comprised of sites in Emergency Rooms, in Family Practice, in First Nations communities, in Nursing Home, in Universities and in Community 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>Graph 1</u>: Number and percent of positive influenza specimens<sup>2</sup> in New Brunswick by week, up to September 8 2018 (data source: G. Dumont Lab results)

<sup>&</sup>lt;sup>2</sup> Total number of positive influenza tests is higher than number of cases since some individuals had co-infection of A & B simultaneously.

Figure 2: Influenza/ILI activity levels<sup>3</sup> by Health Zones, in New Brunswick, for weeks 35 & 36, season 2018/2019.



<sup>&</sup>lt;sup>3</sup> <u>No activity</u> is defined as no laboratory-confirmed influenza detections in the reporting week, however, sporadically occurring ILI may be reported. <u>Sporadic activity</u> is defined as sporadically occurring ILI and lab confirmed influenza detection(s) with no outbreaks detected within the influenza surveillance region.

Localized activity is defined as evidence of increased ILI with lab confirmed influenza detection(s) and outbreaks in schools, hospitals, residential institutions and/or other types of facilities occurring in less than 50% of the influenza surveillance region.

Widespread activity is defined as evidence of increased ILI with lab confirmed influenza detection(s) and outbreaks in schools, hospitals, residential institutions and/or other types of facilities occurring in greater than or equal to 50% of the influenza surveillance region.

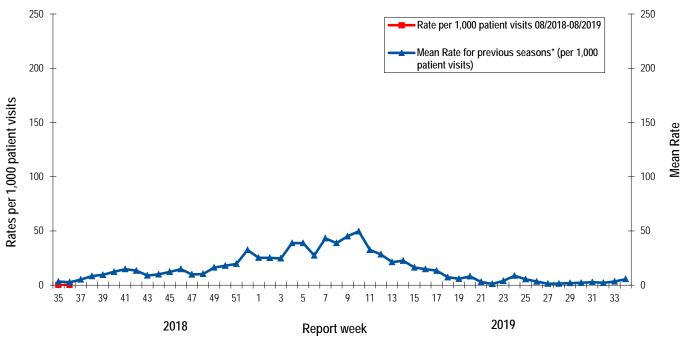
# <u>Table 1</u>: Positive influenza cases by Health Region, in New Brunswick for reporting week, cumulative current and previous seasons. (data source: G. Dumont lab results up to September 8 2018)

	Reporting period: August/26/2018–September/08/2018						Cumulative: (2018/2019 season) Aug./26/2018 –Sept./08/2018						Cumulative: (2017/2018 season) Aug./27/2017 –Aug./25/2018					
Zone	A				В	A & B co- infection	A B A & B CO- infection				A				В	A & B co- infectio n		
	A(H3)	(H1N1) pdm09	Unsubty ped/ Other	A Total	Total	Total	A(H3)	(H1N1) pdm09	Unsubty ped/ Other	A Total	Total	Total	(H3)	(H1N1) pdm09	Unsubty ped/ Other	A Total	Total	Total
Zone 1	0	0	0	0	0	0	0	0	0	0	0	0	102	12	575	689	756	11
Zone 2	0	0	0	0	0	0	0	0	0	0	0	0	32	3	126	161	158	1
Zone 3	0	0	0	0	0	0	0	0	0	0	0	0	63	3	194	260	163	3
Zone 4	0	0	0	0	0	0	0	0	0	0	0	0	19	2	53	74	84	0
Zone 5	0	0	0	0	0	0	0	0	0	0	0	0	9	0	8	17	6	0
Zone 6	0	0	0	0	0	0	0	0	0	0	0	0	38	3	75	116	68	0
Zone 7	0	0	0	0	0	0	0	0	0	0	0	0	17	2	72	91	63	0
Total NB	0	0	0	0	0	0	0	0	0	0	0	0	280	25	1103	1408	1298	15

## 2) ILI Consultation Rates<sup>4</sup>

- For weeks 35 & 36, the ILI consultation rate was 0.0 consultations per 1,000 patients visits. The ILI rate was within the expected levels for this time of year.
- During weeks 35 & 36, the sentinel response rate was 18% and 21%, respectively, for both the FluWatch sentinel physicians and the NB SPIN practitioners.

Graph 2: ILI Consultation Rates in New Brunswick, by report week, season 2018/19 compared to previous seasons\*



<sup>\*</sup> The mean rate was based on data from the 1996/97 to 2017/2018 seasons and excludes the Pandemic season (2009/10).

## 3) ILI and Laboratory-Confirmed Outbreak Data

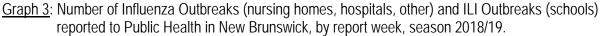
<u>Table 2</u>: ILI activity/outbreaks in New Brunswick nursing homes and schools for the reporting week, current and previous seasons.

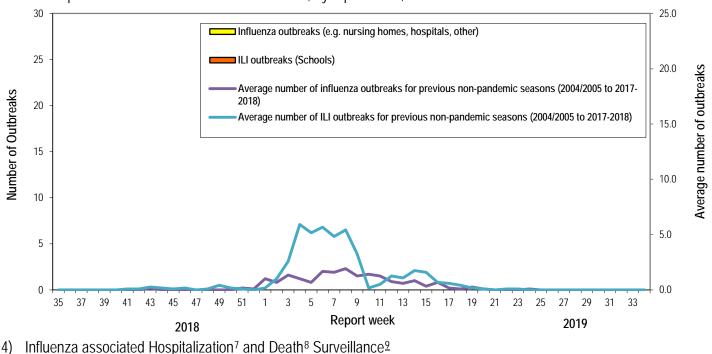
	August/2 Lab-confirmed outbreaks in Nursing homes <sup>5</sup>	Reporting period: 6/2018–September/08/2 ILI school outbreaks <sup>6</sup>	Cumulative # of outbreaks season 2018-2019	Cumulative # of outbreaks season 2017-2018		
Zone 1	0 out of 13	0 out of 74	Other settings <sup>4</sup> 0	0	9	
Zone 2	0 out of 16	0 out of 81	0	0	11	
Zone 3	0 out of 14	0 out of 95	0	0	21	
Zone 4	0 out of 6	0 out of 22	0	0	1	
Zone 5	0 out of 2	0 out of 18	0	0	0	
Zone 6	0 out of 9	0 out of 35	0	0	3	
Zone 7	0 out of 4	0 out of 27	0	0	3	
Total NB	0 out of 64	0 out of 352	0	0	48	

<sup>&</sup>lt;sup>4</sup> 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.

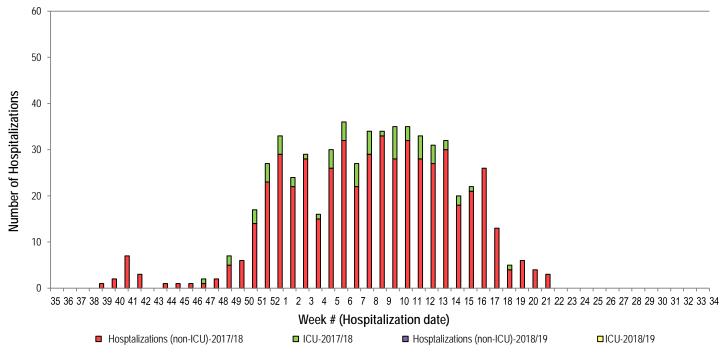
<sup>&</sup>lt;sup>5</sup> Two or more ILI cases within a seven day period, including at least one laboratory-confirmed case of influenza. Outbreaks are reported in the week when laboratory confirmation is received.

<sup>&</sup>lt;sup>6</sup> 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 \*\*No deaths have been reported so far in season 2018-2019.

<sup>&</sup>lt;sup>7</sup> Hospitalizations (including ICU admissions) are influenza associated; they may or may not be due to influenza.

<sup>&</sup>lt;sup>8</sup> Deaths are influenza associated; influenza may not be the direct cause of death.

<sup>&</sup>lt;sup>9</sup> In early January 2014, the Office of the Chief Medical Officer of Health implemented a new provincial surveillance system in collaboration with the Regional Health Authorities to monitor influenza-associated hospitalizations, intensive care unit admissions and deaths. A standardized Enhanced Surveillance Form is used to collect data on hospitalizations.

<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&ltemid=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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