

## WEEKLY NEW BRUNSWICK INFLUENZA REPORT

Reporting period: July 17 to August 13 2016 (weeks 29 to 32)

### Summary:

#### In New Brunswick, influenza activity returned to inter-seasonal levels

##### New Brunswick:

- There has been 1 positive influenza detection in weeks 29 to 32. To date this season, a total of 1219 influenza detections have been reported, 959 influenza A (unsubtyped), 97 influenza A (H1N1)pdm09, 6 influenza A (H3) and 157 influenza B.
- There has been 1 new influenza associated hospitalization during weeks 29 to 32. So far this season, a total of 250 influenza associated hospitalizations were reported in New Brunswick, including 20 deaths.
- The ILI consultation rate was 3.2 consultations per 1,000 patients visits in week 30, and 0.0 consultations per 1,000 patients visits in weeks 29, 31 & 32 and was within the expected levels for this time of year.
- No new influenza or ILI outbreaks were reported.

##### Canada:

- Overall, influenza activity is at interseasonal levels with all regions of Canada reporting low to no influenza activity.
- Influenza A was the most common influenza virus circulating in weeks 29-32.
- No influenza outbreaks have been reported since week 22.
- Nine hospitalizations were reported in weeks 29-32, all in adults over the age of 45.
- Updates from the National Influenza Surveillance will only be available on a monthly basis during the summer months.

##### International:

###### Seasonal influenza:

- Influenza activity varied in countries of temperate South America and increased steadily in the last few weeks in South Africa, increased slowly but remained still low overall in most of Oceania. Influenza activity in the temperate zone of the northern hemisphere was at inter-seasonal levels.

###### Emerging Respiratory Viruses:

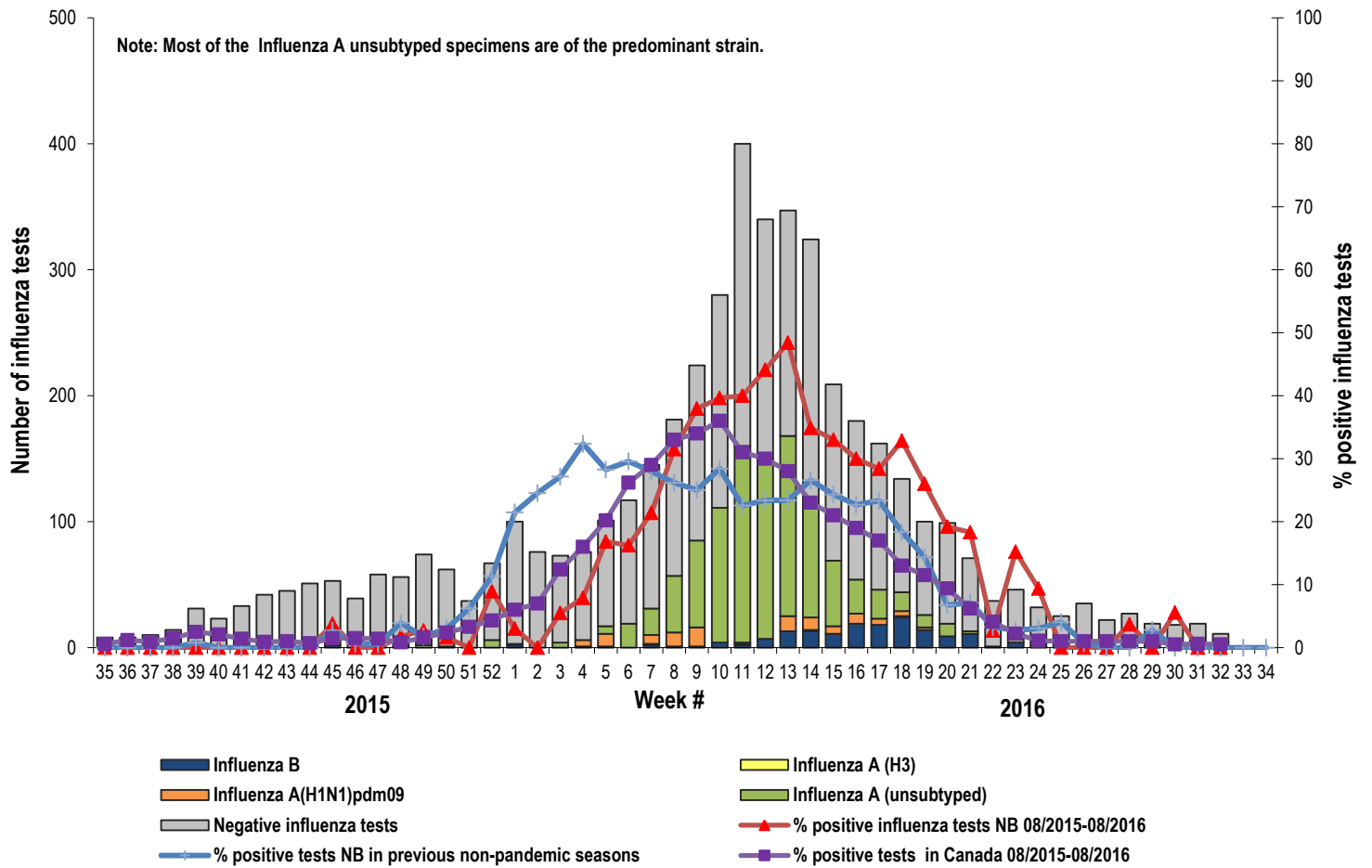
- MERS CoV:
  - WHO: [http://www.who.int/csr/disease/coronavirus\\_infections/en/](http://www.who.int/csr/disease/coronavirus_infections/en/)
  - CDC: <http://www.cdc.gov/coronavirus/mers/>
- Avian Influenza
  - WHO: [www.who.int/csr/disease/avian\\_influenza/en/index.html](http://www.who.int/csr/disease/avian_influenza/en/index.html)

### 1) Influenza Laboratory Data<sup>1</sup>

- Influenza activity returned to inter-seasonal levels.
- 1 influenza detection was reported during weeks 29 to 32.
- Since the beginning of the season, 1219 positive influenza detections were reported, 157 influenza B and 959 influenza A (unsubtyped), 6 influenza A (H3) and 97 influenza A (H1N1)pdm09.

<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.

Graph 1: Number and percent of positive influenza specimens in New Brunswick by week, up to August 13 2016 (data source: G. Dumont Lab results)



**Table 1:** 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 August 13 2016)

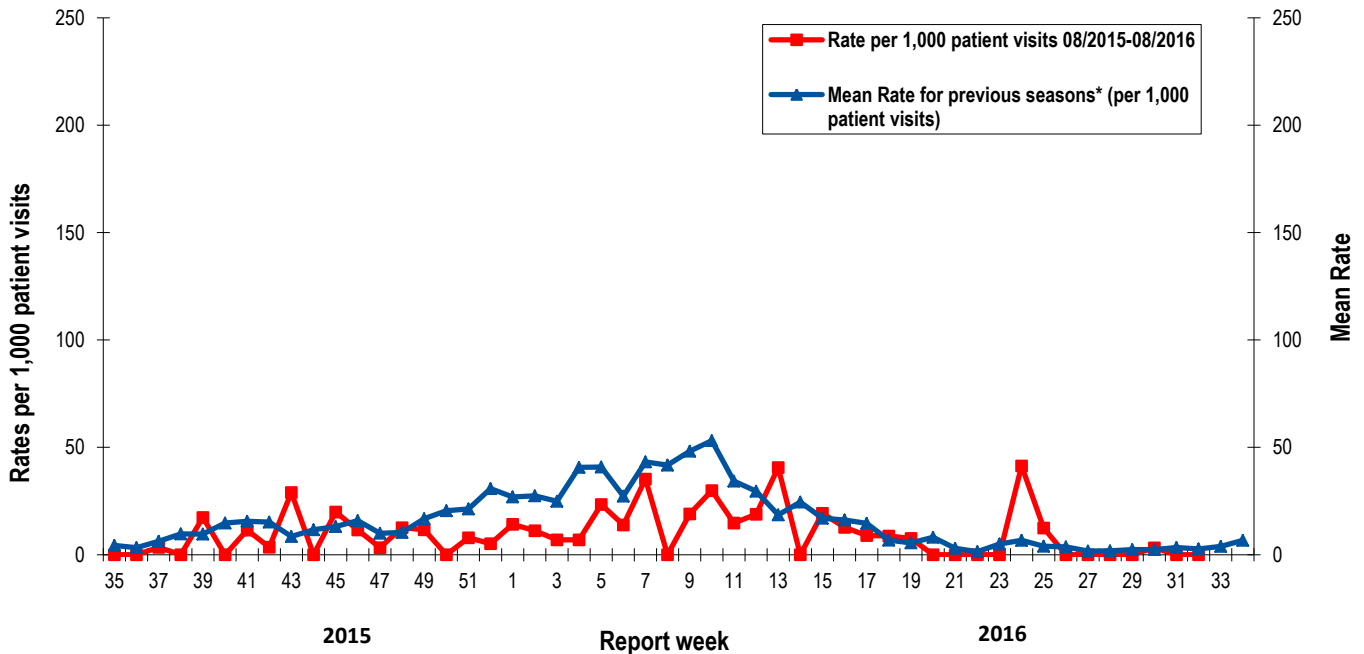
Zone	Reporting period: July/17/2016–August/13/2016						Cumulative: (2015/2016 season) Aug./30/2015 –August/13/2016					Cumulative: (2014/2015 season) Aug./24/2014 – Aug./29/2015				
	Activity level <sup>2</sup>	A				B	A				B	A				B
		A(H3)	(H1N1) pdm09	Unsubtyped / Other	A Total	Total	A(H3)	(H1N1) pdm09	Unsubtyped / Other	A Total	Total	(H3)	(H1N1) pdm09	Unsubtyped / Other	A Total	Total
Zone 1	No activity	0	0	0	0	0	3	40	575	618	113	88	0	353	441	280
Zone 2	No activity	0	0	0	0	0	0	9	131	140	7	19	0	69	88	58
Zone 3	Sporadic	0	0	1	1	0	0	9	57	66	13	19	0	69	88	55
Zone 4	No activity	0	0	0	0	0	0	11	86	97	8	56	0	31	87	27
Zone 5	No activity	0	0	0	0	0	0	4	9	13	3	8	0	14	22	2
Zone 6	No activity	0	0	0	0	0	3	18	79	100	5	81	0	95	176	29
Zone 7	No activity	0	0	0	0	0	0	6	22	28	8	12	0	24	36	19
<b>Total NB</b>		<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>6</b>	<b>97</b>	<b>959</b>	<b>1062</b>	<b>157</b>	<b>283</b>	<b>0</b>	<b>655</b>	<b>938</b>	<b>470</b>

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

2) ILI Consultation Rates<sup>3</sup>

- During week 30, the ILI consultation rate was 3.2 consultations per 1,000 patients visits and 0.0 consultations per 1,000 patients visits for weeks 29, 31 & 32, and was within the expected levels for this time of year.
- During weeks 29 to 32, the sentinel response rate was between 23% and 46%, for both the FluWatch sentinel physicians and the NB SPIN practitioners.

Graph 2: ILI Consultation Rates in New Brunswick, by report week, season 2015/16 compared to previous seasons\*



\* The mean rate was based on data from the 1996/97 to 2014/2015 seasons and excludes the Pandemic season (2009-2010).

3) ILI and Laboratory-Confirmed Outbreak Data

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

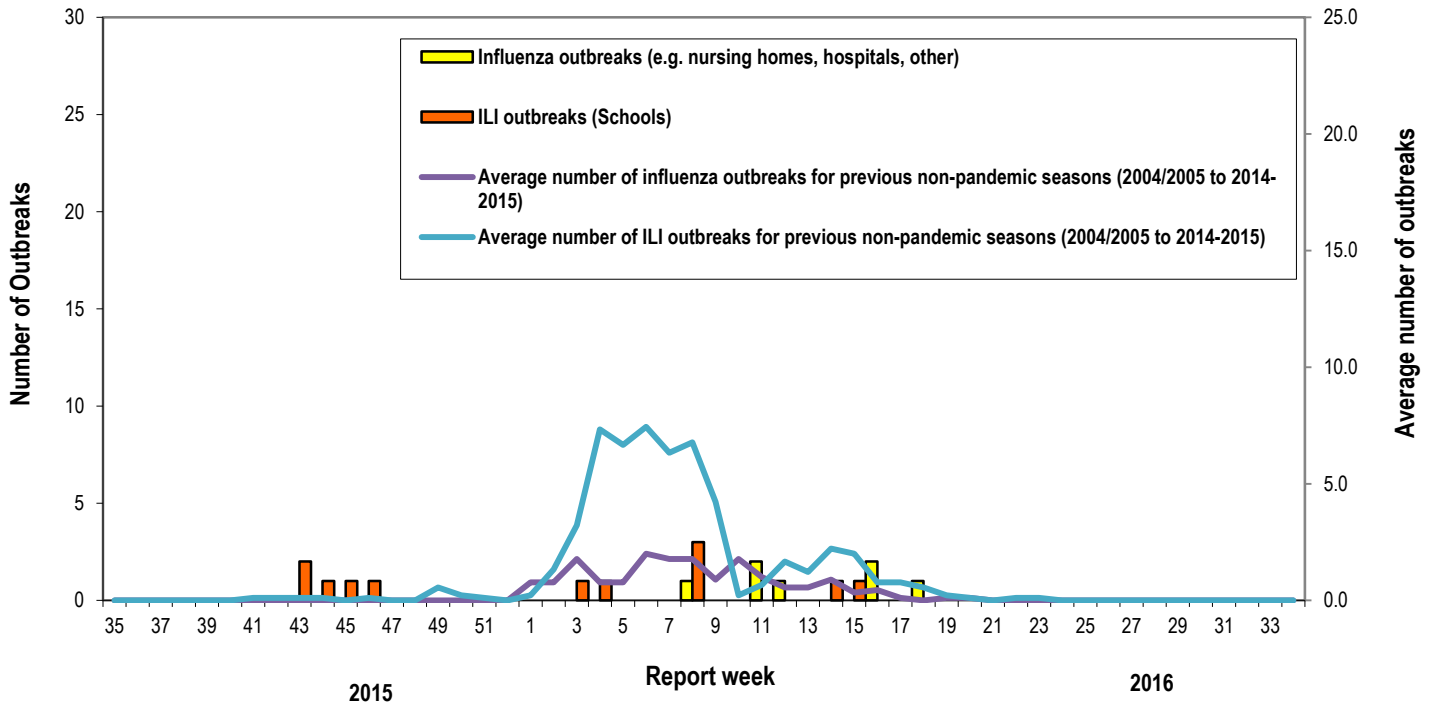
	Reporting period: July/17/2016–August/13/2016			Cumulative # of outbreaks season 2015-2016	Cumulative # of outbreaks season 2014-2015
	Lab-confirmed outbreaks in Nursing homes*	ILI school outbreaks**	Lab-confirmed outbreaks in Other settings*		
Zone 1	0 out of 13	0 out of 74	0	6	14
Zone 2	0 out of 15	0 out of 81	0	4	15
Zone 3	0 out of 14	0 out of 95	0	1	12
Zone 4	0 out of 6	0 out of 22	0	0	6
Zone 5	0 out of 2	0 out of 18	0	0	4
Zone 6	0 out of 9	0 out of 35	0	3	5
Zone 7	0 out of 4	0 out of 27	0	5	8
<b>Total NB</b>	<b>0 out of 63</b>	<b>0 out of 352</b>	<b>0</b>	<b>19</b>	<b>64</b>

\*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.

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

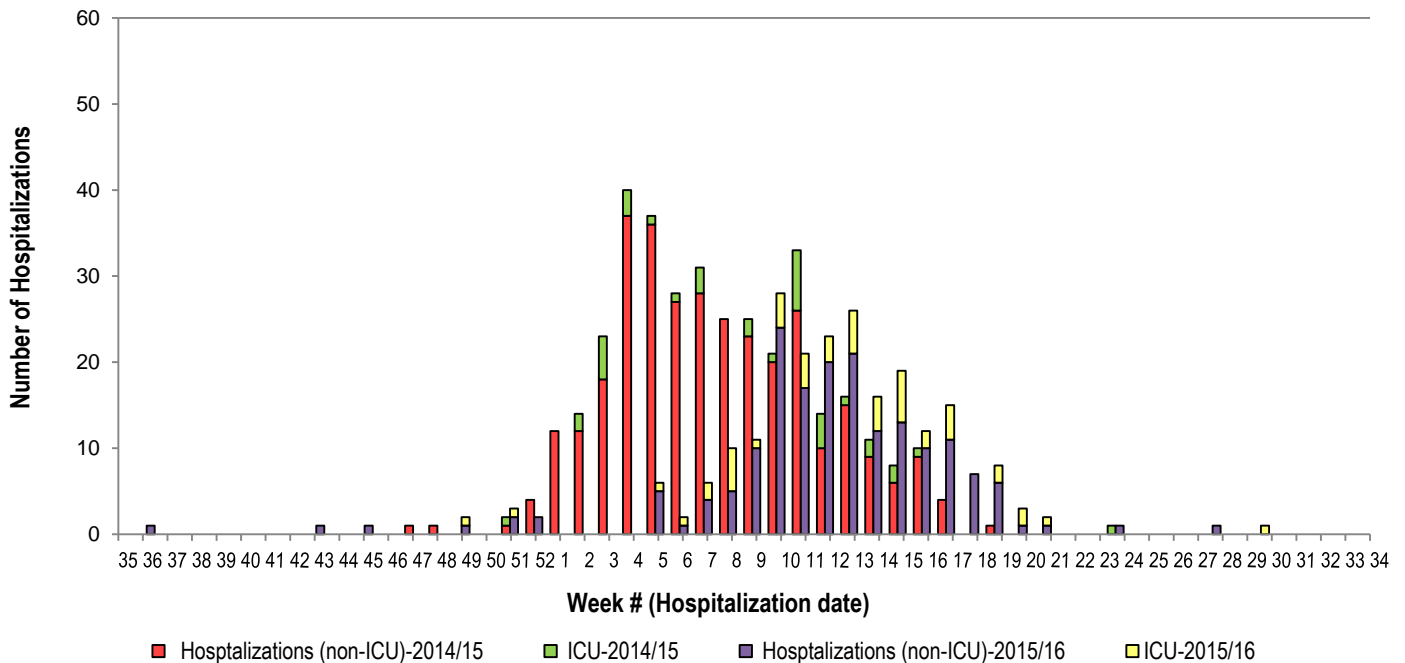
<sup>3</sup> A total of 28 practitioner sites (16 FluWatch sentinel physicians and 12 NB SPIN sites) are recruited this season to report the number of ILI patients and total patient consultations one day during a reporting week.

**Graph 3:** Number of Influenza Outbreaks (nursing homes, hospitals, other)<sup>4</sup> and ILI Outbreaks (schools)<sup>5</sup> reported to Public Health in New Brunswick, by report week, season 2015/16.



4) Influenza associated Hospitalization<sup>4</sup> and Death<sup>5</sup> Surveillance<sup>6</sup>

**Graph 4:** 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

\*\* Twenty deaths were reported in season 2015-2016.

<sup>4</sup> Hospitalizations (including ICU admissions) are influenza associated; they may or may not be due to influenza.

<sup>5</sup> Deaths are influenza associated; influenza may not be the direct cause of death.

<sup>6</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.

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

Other Links:

World-[http://www.who.int/influenza/surveillance\\_monitoring/updates/latest\\_update\\_GIP\\_surveillance/en/index.html](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](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&Itemid=569](http://new.paho.org/hq/index.php?option=com_content&task=blogcategory&id=805&Itemid=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](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/](http://www.cdc.gov/flu/weekly/)

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