

WEEKLY NEW BRUNSWICK INFLUENZA REPORT

Reporting period: June 5 to June 18 2016 (weeks 23 & 24)

Summary: In New Brunswick, influenza activity is low

New Brunswick:

- There have been 10 positive influenza detections in weeks 23 & 24. To date this season, a total of 1217 influenza detections have been reported, 957 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 23 & 24. So far this season, a total of 245 influenza associated hospitalizations were reported in New Brunswick, including 18 deaths.
- The ILI consultation rate was 0.0 and 41.4 consultations per 1,000 patients visits, respectively for weeks 23 & 24, and was above the expected levels for week 24.
- No new influenza or ILI outbreaks were reported.

Canada:

- Overall, influenza activity continues to decrease across Canada and has reached interseasonal levels.
- Sporadic activity is being reported in several parts of Canada; however, the majority of regions are reporting no influenza activity.
- No influenza outbreaks have been reported in weeks 23 & 24.
- Influenza-associated hospitalizations continue to decrease. Ten hospitalizations were reported in week 24.
- Updates from the National Influenza Surveillance will only be available on a monthly basis during the summer months.

International:

Seasonal influenza:

• Influenza activity in the temperate zone of the northern hemisphere continued to decrease to inter-seasonal levels. In temperate countries in the southern hemisphere, influenza activity started to increase in South America and South Africa, but remained low overall in most of Oceania. Activity in the northern hemisphere continued to decrease with a predominance of influenza B virus reported. In temperate countries in the southern hemisphere, influenza activity started to increase slightly in South America and South Africa, but remained low overall in most of Oceania.

Emerging Respiratory Viruses:

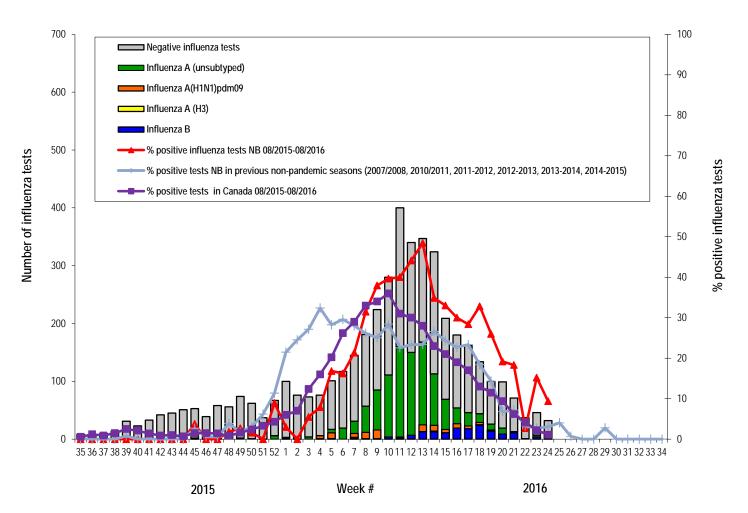
- MERS CoV:
 - WHO: http://www.who.int/csr/disease/coronavirus infections/en/
 - o CDC: http://www.cdc.gov/coronavirus/mers/
- Avian Influenza
 - WHO: www.who.int/csr/disease/avian_influenza/en/index.html

1) Influenza Laboratory Data¹

- Influenza activity is low.
- 10 influenza detections were reported during weeks 23 & 24.
- Since the beginning of the season, 1217 positive influenza detections were reported, 157 influenza B and 957 influenza A (unsubtyped), 6 influenza A (H3) and 97 influenza A (H1N1)pdm09.

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>Graph 1</u>: Number and percent of positive influenza specimens in New Brunswick by week, up to June 18 2016 (data source: G. Dumont Lab results)



Note: Most of the Influenza A unsubtyped specimens are of the predominant strain.

<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 June 18 2016)

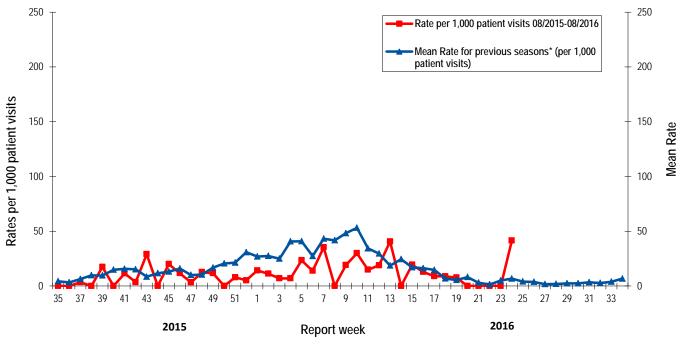
Zone	Reporting period:					Cumulative: (2015/2016 season)				Cumulative: (2014/2015 season)						
	June/05/2016-June/18/2016						Aug./30/2015 -June/18/2016				Aug./24/2014 – Aug./29/2015					
	Activity level ²	А				В	A B				АВ					
		A(H3)	(H1N1) pdm09	Unsubtyped / Other	A Total	Total	A(H3)	(H1N1) pdm09	Unsubtyped / Other	A Total	Total	(H3)	(H1N1) pdm09	Unsubtyped / Other	A Total	Total
Zone 1	Sporadic	0	0	5	5	2	3	40	575	618	113	88	0	353	441	280
Zone 2	Sporadic	0	0	0	0	1	0	9	131	140	7	19	0	69	88	58
Zone 3	No activity	0	0	0	0	0	0	9	56	65	13	19	0	69	88	55
Zone 4	Sporadic	0	0	0	0	1	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	Sporadic	0	0	0	0	1	3	18	79	100	5	81	0	95	176	29
Zone 7	No activity	0	0	0	0	0	0	6	21	27	8	12	0	24	36	19
Total NB		0	0	5	5	5	6	97	957	1060	157	283	0	655	938	470

² 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#c

2) ILI Consultation Rates³

- During weeks 23 &24, the ILI consultation rate was 0.0 and 41.4 consultations per 1,000 patients visits, respectively, and was above the expected levels for week 24.
- During weeks 23 & 24, the sentinel response rate was 27% and 38%, respectively, 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) <u>ILI and Laboratory-Confirmed Outbreak Data</u>

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

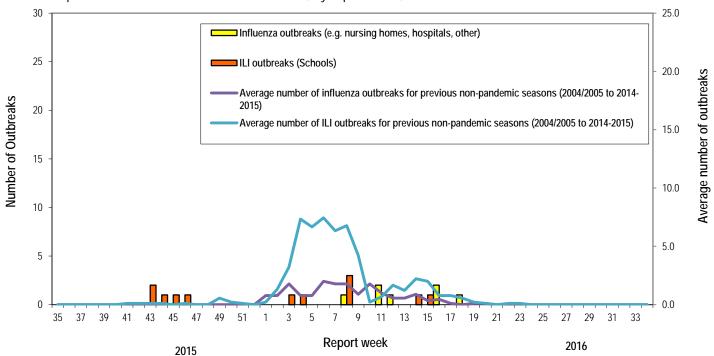
	June	Reporting period: /05/2016–June/18/2016	Cumulative # of outbreaks	Cumulative # of outbreaks		
	Lab-confirmed outbreaks in Nursing homes*	ILI school outbreaks**	Lab-confirmed outbreaks in Other settings*	season 2015-2016	season 2014-2015	
Zone 1	0 out of 13	0 out of 74	0	6	14	
Zone 2	0 out of 15	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	
Total NB	0 out of 63	0 out of 352	0	19	64	

^{*}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.

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.

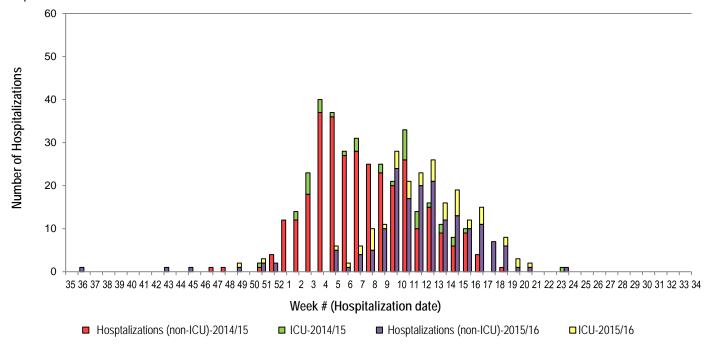
^{**}Schools reporting greater than 10% absenteeism which is likely due to ILI.

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



4) Influenza associated Hospitalization⁴ and Death⁵ Surveillance⁶

<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

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

^{**} Eighteen deaths were reported so far in season 2015-2016.

 $^{^{\}rm 5}$ Deaths are influenza associated; influenza may not be the direct cause of death.

⁶ 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

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&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

Argentina: : http://www.msal.gov.ar/
South Africa: http://www.nicd.ac.za/
US: www.cdc.gov/flu/weekly/

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