

<u>WEEKLY NEW BRUNSWICK INFLUENZA REPORT</u>

Reporting period: July 13 to July 26 2014 (weeks 29 & 30)

Summary:

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

New Brunswick:

- There has been 1 positive influenza detection during weeks 29 & 30, an influenza B virus.
- The ILI consultation rate was 0.00 consultations per 1,000 patients visits, for both weeks, and was within the expected levels for both weeks.
- No new influenza or ILI outbreaks were reported.

Canada:

- In weeks 29 & 30, influenza activity in Canada remains at inter-seasonal levels with only sporadic detections of influenza. Influenza B circulated later into the spring than in previous seasons, but overall activity remained within expected levels.
- There have been slightly more hospitalizations but a similar number of deaths with influenza than were reported last season.
- 26 laboratory detections of influenza were reported in weeks 29 & 30. The percentage of laboratory tests positive for influenza in week 30 was less than 2.0%.
- The national ILI consultation rate was 10.4 and 8.7 consultations per 1,000 patients' visits for weeks 29 & 30, respectively. The rates for both weeks were above the expected range for this time of year. No new influenza outbreaks were reported for the 2-week period.

International:

- <u>Human infection with Avian Influenza:</u> As of July 31 2014, a total of 451 laboratory-confirmed cases of human infection with an avian influenza A (H7N9) virus were reported in China (as well as in Taiwan, Hong Kong and Malaysia) including 171 deaths. The majority of cases have presented with severe acute illness, rapidly progressing to severe pneumonia. Most human cases have reported a history of exposure to poultry or live bird markets. There is currently no evidence of sustained human-to-human transmission of H7N9.
- MERS-CoV: (As a result of a delay in reporting there may be discrepancy in the reported number of cases on the WHO website to those reported on other websites) From April 2012 to July 31 2014, 837 laboratory-confirmed cases have been reported from Saudi Arabia, Qatar, Jordan, United Arab Emirates, Kuwait, United Kingdom, Oman, Yemen, Iran, France, Germany, Tunisia, Algeria, Italy, Malaysia, Greece, Philippines, Egypt, Lebanon, Netherlands and the United States. All cases have either occurred in the Middle East or have a direct link to a primary case infected in the Middle East. Among the 837 cases, 291 were fatal. Onset of illness was between April 2012 and July 2014. A recent increase in cases since April 2014 can be possibly explained by the 2 ongoing hospital outbreaks in Jeddah, KSA and Abu Dhabi, UAE, as well as using a more sensitive case detection through more active case finding and contact tracing.

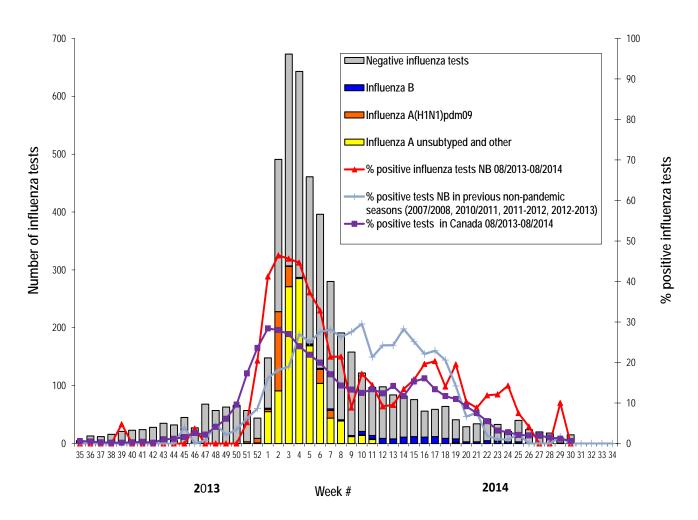
<u>Note:</u> While influenza surveillance continues to be monitored weekly at provincial and national levels, the full length version of this report as well as the abbreviated web version will be distributed biweekly during the summer season.

Influenza Laboratory Data¹

- Influenza activity has returned to inter-seasonal levels.
- 1 influenza detection was reported during the 2-week reporting period.
- Since the beginning of the season, 1455 positive influenza detections were reported, 440 influenza A (H1N1)pdm09, 2 influenza A (H3), 885 influenza A (unsubtyped) and 128 influenza B.

¹ Surveillance specimens are submitted by recruited New Brunswick Sentinel Practitioner Influenza Network (NB SPIN) practitioners, which are comprised of 8 sites in Emergency Rooms, 3 sites in Family Practice, 2 sites in First Nations communities, 1 site in a Nursing Home, 3 sites in Universities and 8 sites 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 July 26 2014 (data source: G. Dumont Lab results)



<u>Table 1</u>: Positive influenza test results by Health Region, in New Brunswick up to July 26 2014 (data source: G. Dumont lab results)

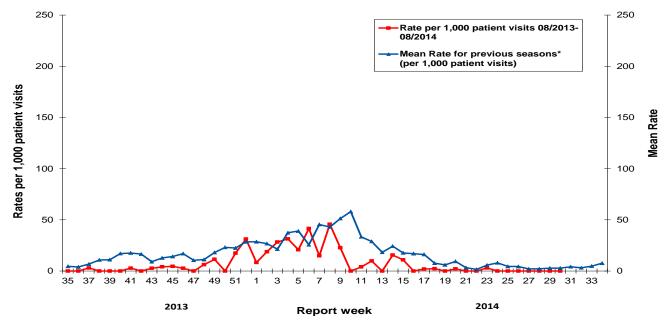
Region	Reporting period: July/13/2014–July/26/2014						Cumulative: (2013/2014 season) Aug./25/2013 –July/26/2014					Cumulative: (2012/2013 season) Aug./26/2012 – Aug./24/2013					
		А				В		A B					A B				
	Activity level ²	A(H1)	A(H3)	(H1N1) pdm09	unsubt yped		Total	A(H1)	A(H3)	(H1N1) pdm09	unsubt yped		Total	Non- (H1N1) pdm09	(H1N1) pdm09		Total
Region 1	Sporadic	0	0	0	0	1	1	0	2	205	442	39	688	527	13	18	558
Region 2	No activity	0	0	0	0	0	0	0	0	86	219	2	307	211	3	8	222
Region 3	No activity	0	0	0	0	0	0	0	0	41	80	4	125	85	9	1	95
Region 4	No activity	0	0	0	0	0	0	0	0	52	61	49	162	168	5	3	176
Region 5	No activity	0	0	0	0	0	0	0	0	10	23	6	39	20	1	7	28
Region 6	No activity	0	0	0	0	0	0	0	0	42	49	25	116	252	5	50	307
Region 7	No activity	0	0	0	0	0	0	0	0	4	11	3	18	89	2	11	102
Total NB		0	0	0	0	1	1	0	2	440	885	128	1455	1352	38	98	1488

 $^{^2 \} Influenza\ activity\ level\ definition\ is\ available\ on\ the\ PHAC\ FluWatch\ website: \\ \underline{http://www.phac-aspc.gc.ca/fluwatch/13-14/def13-14-eng.php}$

2) ILI Consultation Rates³

- During weeks 29 & 30, the ILI consultation rate was 0.0 consultations per 1,000 patient visits, for both weeks, and was within the expected levels for both weeks.
- During weeks 29 & 30, the sentinel response rate was 39% and 23%, respectively, for both the FluWatch sentinel physicians and the NB SPIN practitioners.

Graph 2: ILI Consultation Rates in New Brunswick, by report week, season 2013/14 compared to previous seasons*



^{*} The mean rate was based on data from the 1996/97 to 2012/2013 seasons and excludes the Pandemic season (2009-2010).

ILI and Laboratory-Confirmed Outbreak Data

<u>Table 3</u>: ILI activity/outbreaks in New Brunswick nursing homes and schools for the reporting week, current and previous seasons.

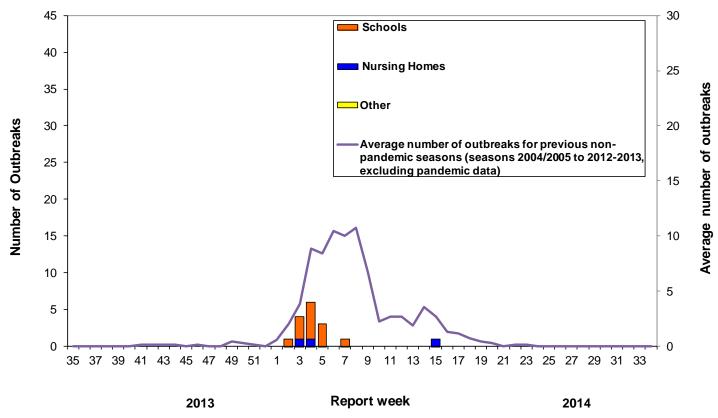
	J	Reporting period: uly/13/2014–July/26/201	Cumulative # of	Cumulative # of outbreaks		
	Lab-confirmed outbreaks in Nursing Homes*	Schools reporting ILI outbreaks**	Lab-confirmed outbreaks in Other Settings*	outbreaks season 2013-2014	season 2012-2013	
Region 1	0 out of 13	0 out of 74	0	3	15	
Region 2	0 out of 15	0 out of 81	0	2	38	
Region 3	0 out of 14	0 out of 95	0	4	20	
Region 4	0 out of 6	0 out of 22	0	1	2	
Region 5	0 out of 2	0 out of 18	0	0	6	
Region 6	0 out of 9	0 out of 35	0	3	23	
Region 7	0 out of 4	0 out of 27	0	2	10	
Total NB	0 out of 63	0 out of 352	0	15	114	

^{*}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 (or absenteeism that is higher (e.g. >5-10%) than expected level as determined by school or Public Health Authority) which is likely due to ILI.

³ A total of 34 practitioner sites (19 FluWatch sentinel physicians and 15 NB SPIN sites) are recruited this season to report the number of ILI patients and total patient consultations one day during a reporting week.

<u>Graph 3</u>: Number of Influenza Outbreaks in Nursing Homes¹ and ILI Outbreaks in Schools² reported to Public Health in New Brunswick, by report week, season 2013/14.



¹ The National FluWatch definition of an outbreak in a nursing home is stated as two or more cases of ILI within a seven-day period, including at least one laboratory confirmed case.

<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: 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.euroflu.org/cgi-files/bulletin_v2.cgi and

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/

² The National FluWatch definition of an ILI outbreak in a school is stated as absenteeism greater than 10% (or absenteeism that is higher (e.g.>5-10%) than expected level as determined by school or Public Health Authority) which is likely due to ILI.