

WEEKLY NEW BRUNSWICK INFLUENZA REPORT

Reporting period: July 28 to August 10 2013 (weeks 31 & 32)

Summary:

Influenza activity at typical inter-seasonal levels in New Brunswick

New Brunswick:

- There have been no positive influenza detections during weeks 31 & 32.
- The ILI consultation rate was low and was within the expected levels for both weeks.
- No new influenza or ILI outbreaks were reported.

Canada:

- Influenza activity in Canada remained at inter-seasonal levels during this 2-week period.
- 5 laboratory detections of influenza were reported, proportion of positive tests was 0.1% in week 31 and 0.4% in week 32.
- The ILI consultation rate has been fairly stable and above the expected range over weeks 18 to 31, and decreased in week 32. No new influenza outbreaks were reported in weeks 31 or 32.

International:

- Human infection with Avian Influenza: As of August 19 2013, the WHO reported a total of 135 laboratory-confirmed cases of human infection with an avian influenza A (H7N9) virus in China including 44 deaths. Disease onset was between February 19 and July 27 2013. There is no evidence of sustained human-to-human transmission. Contacts of confirmed cases are being closely monitored. Investigations into possible sources of infection and reservoirs of the virus are ongoing.
- MERS-CoV: Since April 2012, 94 laboratory-confirmed cases have been reported from Saudi Arabia, Qatar, Jordan, United Arab Emirates, United Kingdom, France, Germany, Tunisia and Italy. Among the 94 cases, 46 were fatal. Onset of illness was between April 2012 and July 2013.
- Novel influenza A virus: So far this year, the United States reported 16 new cases of human infection with an influenza A (H3N2) v virus. No human-to-human transmission has been identified. All have reported close contact with swine.

Note: While influenza surveillance continues to be monitored weekly at provincial and national levels, reporting will occur on a biweekly basis during the summer season.

1) Influenza Laboratory Data¹

- Influenza activity has returned to inter-seasonal levels.
- No influenza detections were reported during that period.
- Since the beginning of the season, 1488 positive influenza detections have been reported, 38 influenza A (H1N1)pdm09, 450 influenza A (H3) viruses, 902 influenza A (unsubtyped) and 98 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, 5 sites in Family Practice, 3 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.

Graph 1: Number and percent of positive influenza specimens in New Brunswick, by week, up to August 10 2013 (data source: G. Dumont lab results)

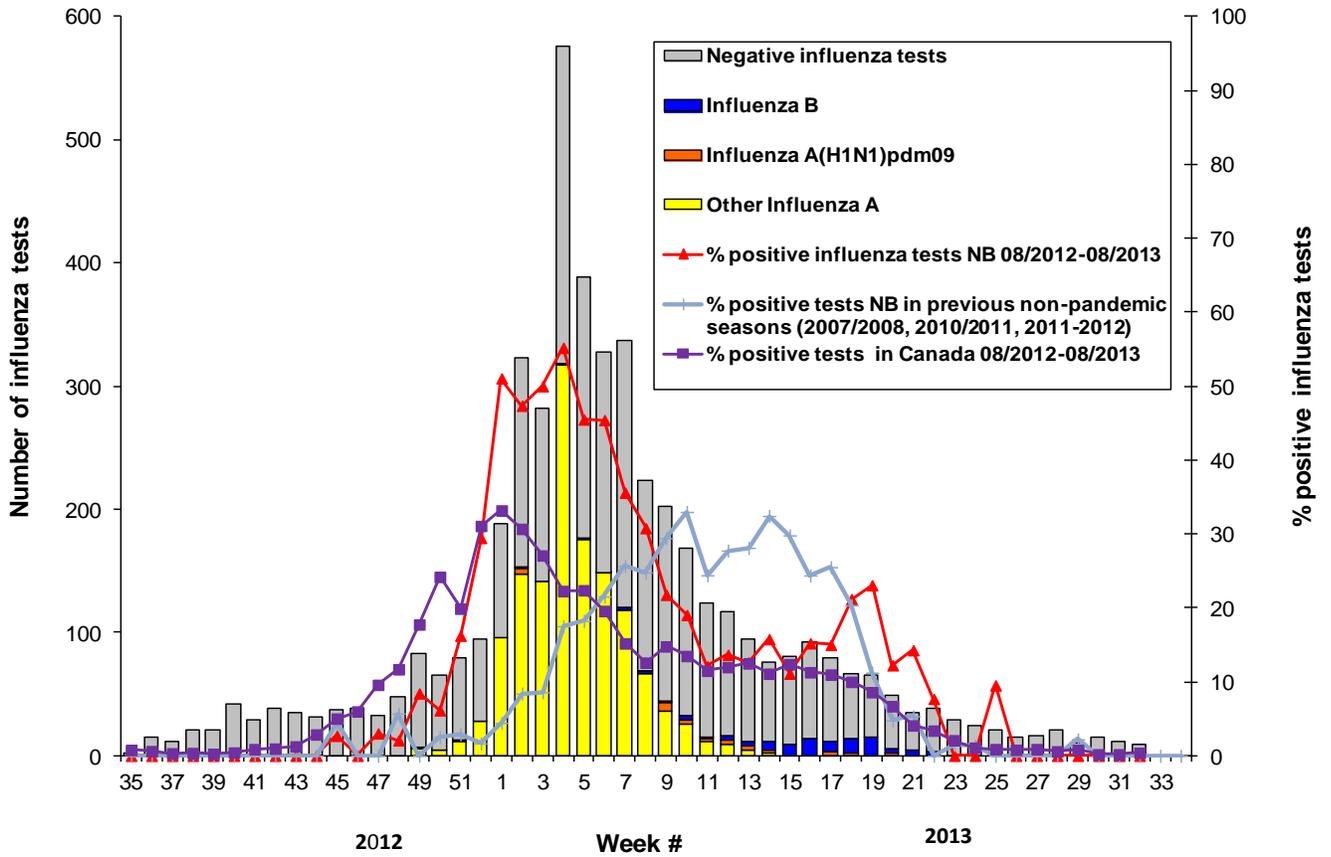


Table 1: Positive influenza test results by Health Region in New Brunswick up to August 10 2013 (data source: G. Dumont lab results)

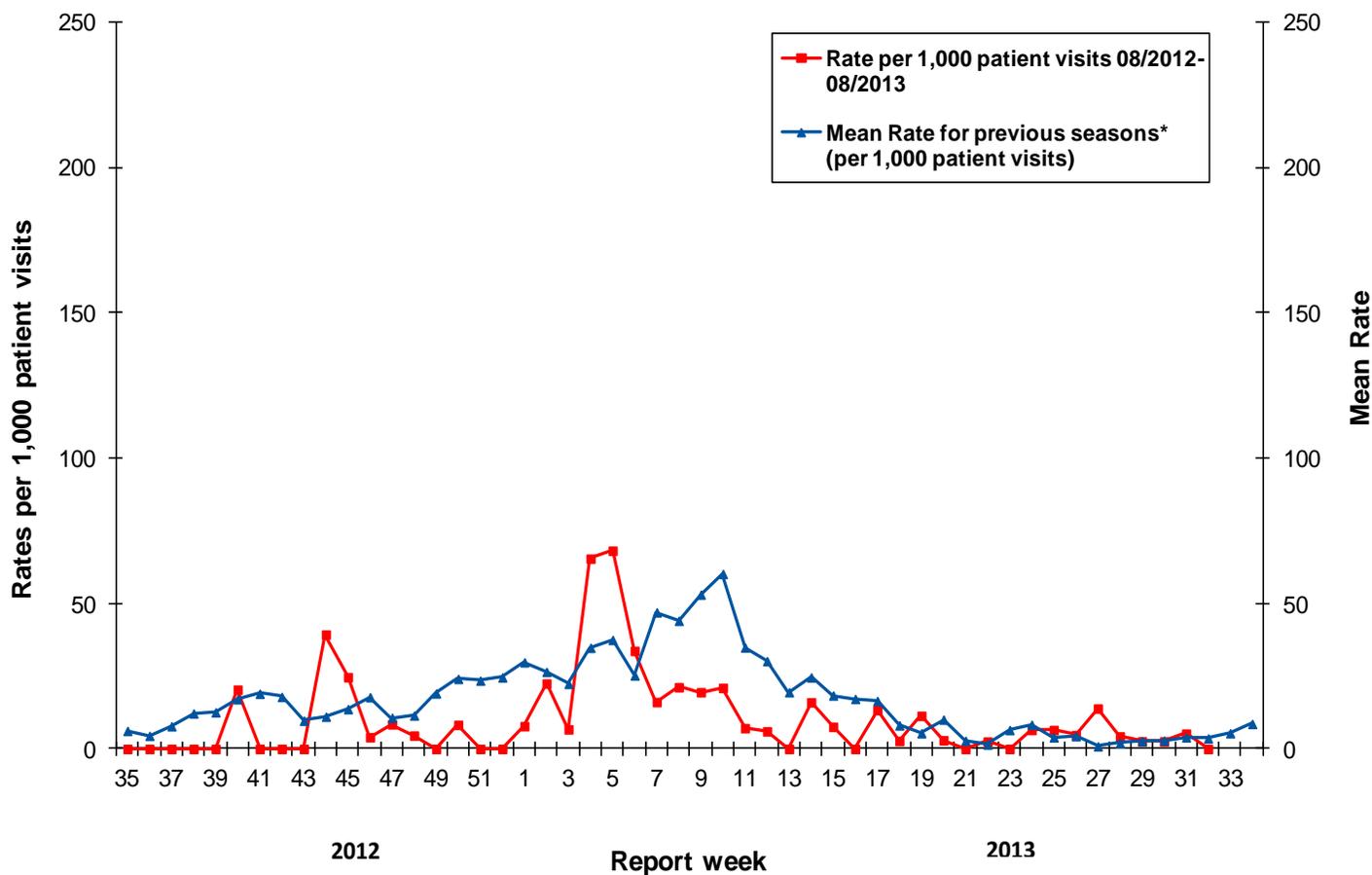
Region	Reporting period: Jul./28/2013–Aug./10/2013							Cumulative: (2012/2013 season) Aug./26/2012 –Aug./10/2013						Cumulative: (2011/2012 season) Aug./28/2011 – Aug./25/2012			
	Activity level ²	A				B	Total	A				B	Total	A		B	Total
		A(H1)	A(H3)	(H1N1) pdm09	unsubt yped	A(H1)		A(H3)	(H1N1) pdm09	unsubt yped	Non-(H1N1) pdm09	(H1N1) pdm09					
Region 1	No activity	0	0	0	0	0	0	0	156	13	371	18	558	24	17	206	247
Region 2	No activity	0	0	0	0	0	0	0	52	3	159	8	222	1	2	18	21
Region 3	No activity	0	0	0	0	0	0	0	27	9	58	1	95	1	0	3	4
Region 4	No activity	0	0	0	0	0	0	0	34	5	134	3	176	2	9	2	13
Region 5	No activity	0	0	0	0	0	0	0	11	1	9	7	28	0	2	4	6
Region 6	No activity	0	0	0	0	0	0	0	137	5	115	50	307	1	6	16	23
Region 7	No activity	0	0	0	0	0	0	0	33	2	56	11	102	1	1	12	14
Total NB		0	0	0	0	0	0	0	450	38	902	98	1488	30	37	261	328

² Influenza activity level definition is available on the PHAC FluWatch website: <http://www.phac-aspc.gc.ca/fluwatch/12-13/def12-13-eng.php>

2) ILI Consultation Rates³

- During weeks 31 & 32, the ILI consultation rate was 5.3 and 0.0 consultations per 1,000 patient visits, respectively, and was within the expected levels for both weeks.
- During weeks 31 & 32, the sentinel response rate was 34%, for both weeks, for both the FluWatch sentinel physicians and the NB SPIN practitioners.

Graph 2: ILI Consultation Rates in New Brunswick, by report week, season 2012/13 compared to previous seasons*



* The mean rate was based on data from the 1996/97 to 2011/2012 seasons and excludes the Pandemic season (2009-2010).

³ A total of 38 practitioner sites (20 FluWatch sentinel physicians and 18 NB SPIN sites) are recruited this season to report the number of ILI patients and total patient consultations one day during a reporting week.

3) ILI and Laboratory-Confirmed Outbreak Data

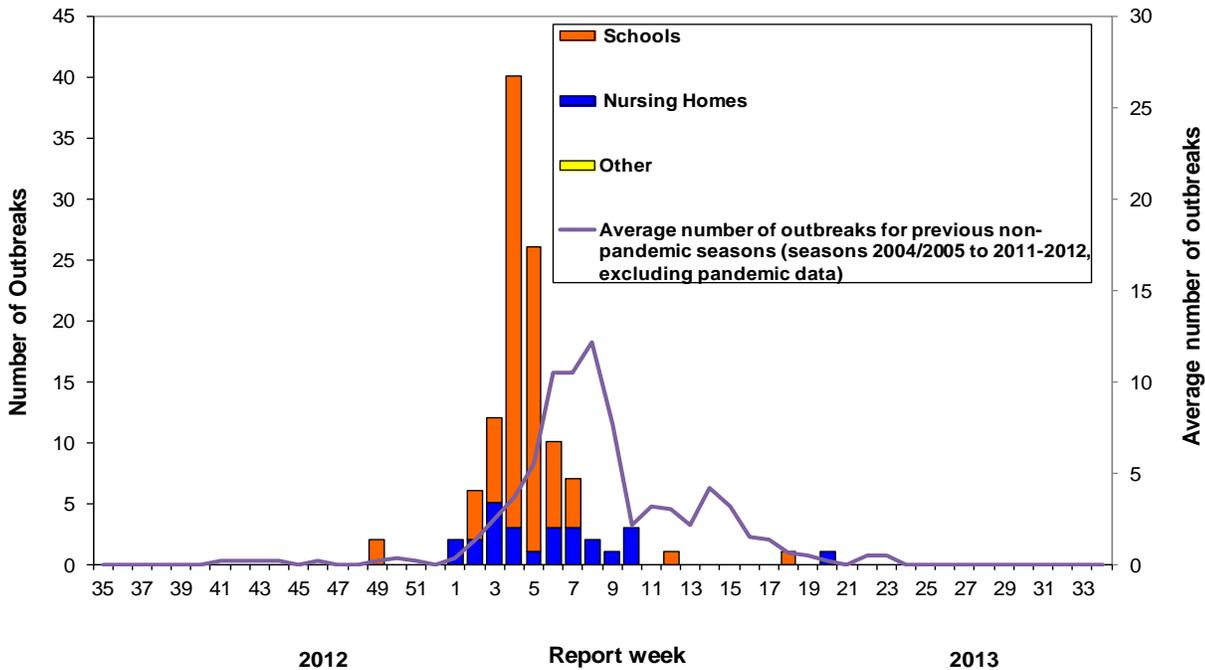
Table 2: ILI activity/outbreaks in New Brunswick nursing homes and schools for the reporting week, current and previous seasons.

	Reporting period: Jul./28/2013–Aug./10/2013			Cumulative # of outbreaks season 2012-2013	Cumulative # of outbreaks season 2011-2012
	Lab-confirmed outbreaks in Nursing Homes*	Schools reporting ILI outbreaks**	Lab-confirmed outbreaks in Other Settings*		
Region 1	0 out of 13	0 out of 74	0	15	4
Region 2	0 out of 15	0 out of 81	0	38	6
Region 3	0 out of 14	0 out of 95	0	20	8
Region 4	0 out of 6	0 out of 22	0	2	2
Region 5	0 out of 2	0 out of 18	0	6	7
Region 6	0 out of 9	0 out of 35	0	23	2
Region 7	0 out of 4	0 out of 27	0	10	2
Total NB	0 out of 63	0 out of 352	0	114	31

*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.

Graph 3: Number of Influenza Outbreaks in Nursing Homes¹ and ILI Outbreaks in Schools² reported to Public Health in New Brunswick, by report week, season 2012/13.



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.

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.

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:
www.phac-aspc.gc.ca/fluwatch/index.html

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/

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