

WEEKLY NEW BRUNSWICK INFLUENZA REPORT

Reporting period: April 14 to April 20 2013 (week 16)

Summary

In New Brunswick, low influenza activity for week 16

New Brunswick:

- There have been 14 positive influenza detections during week 16 (4% increase from previous week), all influenza B.
- The ILI consultation rate was low and was slightly below the expected range for this time of year.
- No new influenza or ILI outbreaks were reported.

Canada:

- The percentage of laboratory tests positive for influenza has been stable at approximately 12% over the past 6 weeks. Detections of influenza B continued to increase with influenza B detected in 89% of positive specimens in week 16. The number of regions reporting localized activity increased compared to the previous week, likely due to the continued circulation of influenza B.
- 397 laboratory detections of influenza were reported, proportion of positive tests was 11.3%.
- The ILI consultation rate was stable and was within the expected level for this time of year. 10 new influenza outbreaks were reported: 9 in long-term care facilities and 1 in a school.

International:

- Human infection with Avian Influenza: As of April 29 2013, the WHO reported a total of 126 laboratory-confirmed cases of human infection with an avian influenza A (H7N9) virus in China including 24 deaths. Disease onset was between 19 February and 27 April 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.
- Novel Coronavirus: Since April 2012, 17 laboratory-confirmed cases have been reported from Saudi Arabia (9), Qatar (2), Jordan (2), United Kingdom (3), and United Arab Emirates (1). Among the 17 cases, 11 were fatal. Onset of illness was between April 2012 and March 2013.

1) Influenza Laboratory Data¹

- A 4% increase in percent positive laboratory results compared to previous week.
- 14 influenza detections were reported during that period.
- Since the beginning of the season, 1431 positive influenza detections have been reported, 32 influenza A (H1N1)pdm09, 450 influenza A (H3) viruses, 899 influenza A (unsubtyped) and 50 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 April 20, 2013 (data source: G. Dumont lab results)

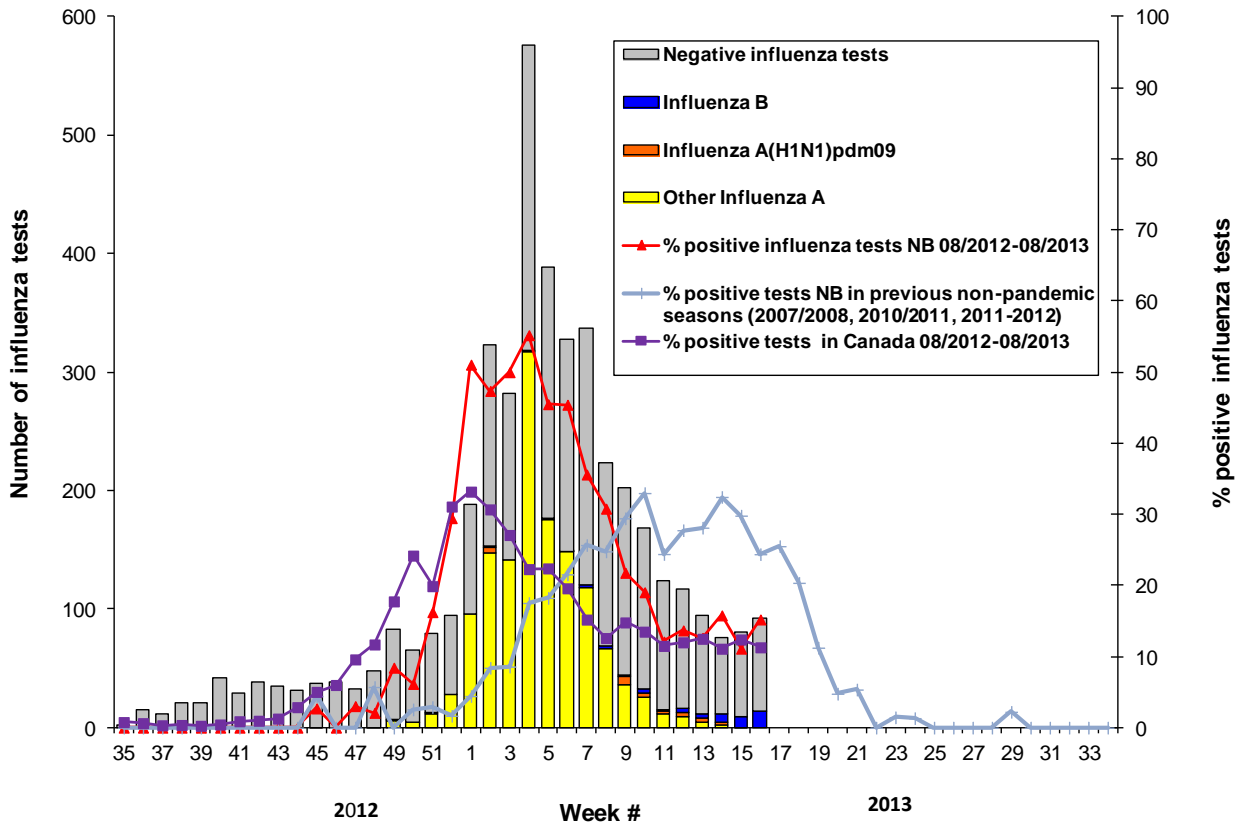


Table 1: Positive influenza test results by Health Region in New Brunswick up to April 20, 2013 (data source: G. Dumont lab results)

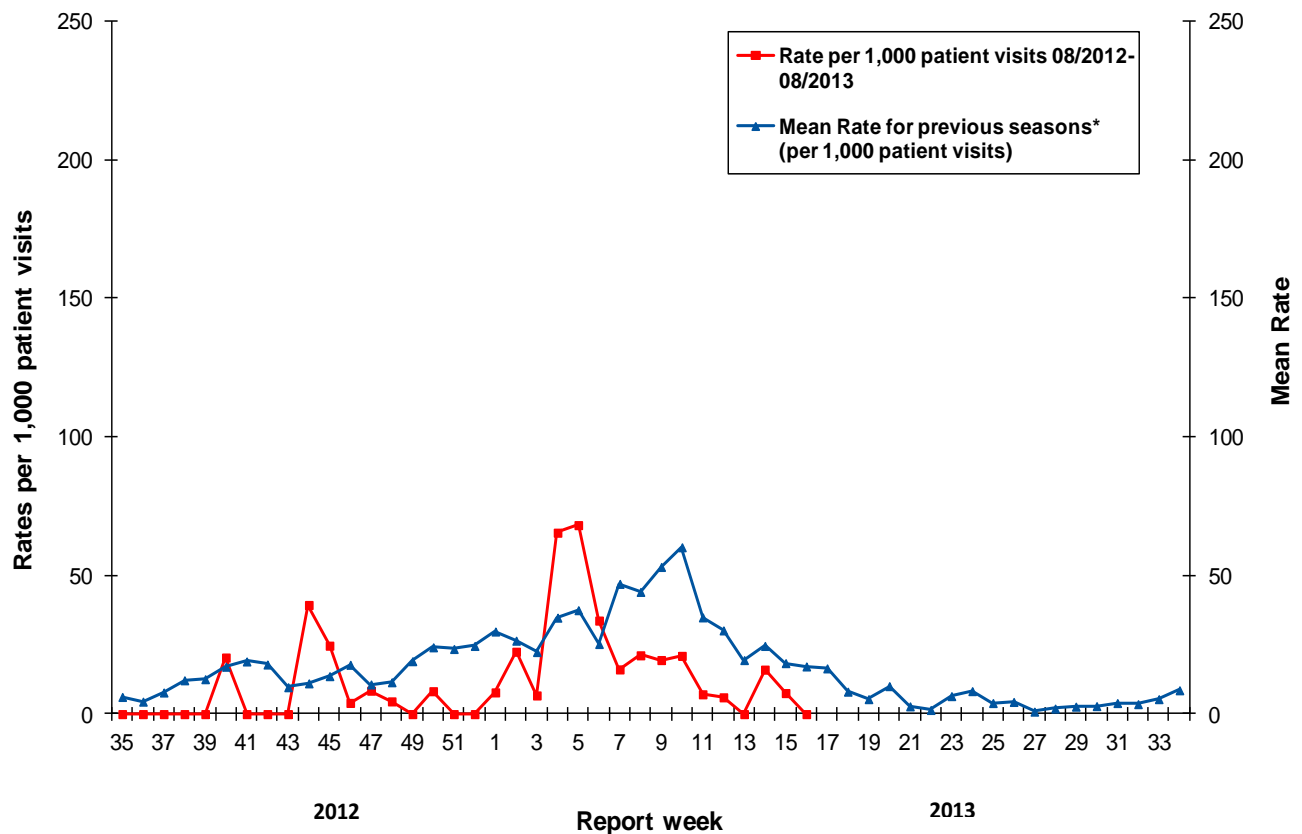
Region	Reporting period: April/14/2012–April/20/2013							Cumulative: (2012/2013 season) Aug./26/2012 –Apr./20/2013						Cumulative: (2011/2012 season) Aug./28/2011 – Aug./25/2012			
	Activity level ²	A				B	Total	A				B	Total	A		B	Total
		A(H1)	A(H3)	(H1N1) pdm09	unsub typed	A(H1)		A(H3)	(H1N1) pdm09	unsub typed	A(H1)	(H1N1) pdm09		Non-(H1N1) pdm09	(H1N1) pdm09		
Region 1	Sporadic	0	0	0	0	1	1	0	156	11	369	12	548	24	17	206	247
Region 2	No activity	0	0	0	0	0	0	0	52	3	158	6	219	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	1	174	2	9	2	13
Region 5	Sporadic	0	0	0	0	1	1	0	11	1	9	3	24	0	2	4	6
Region 6	Sporadic	0	0	0	0	8	8	0	137	2	115	20	274	1	6	16	23
Region 7	Sporadic	0	0	0	0	4	4	0	33	1	56	7	97	1	1	12	14
Total NB		0	0	0	0	14	14	0	450	32	899	50	1431	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 week 16, the ILI consultation rate was 0.0 consultations per 1,000 patient visits, and was slightly below the expected levels for this time of year.
- During week 16, the sentinel response rate was 24% 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

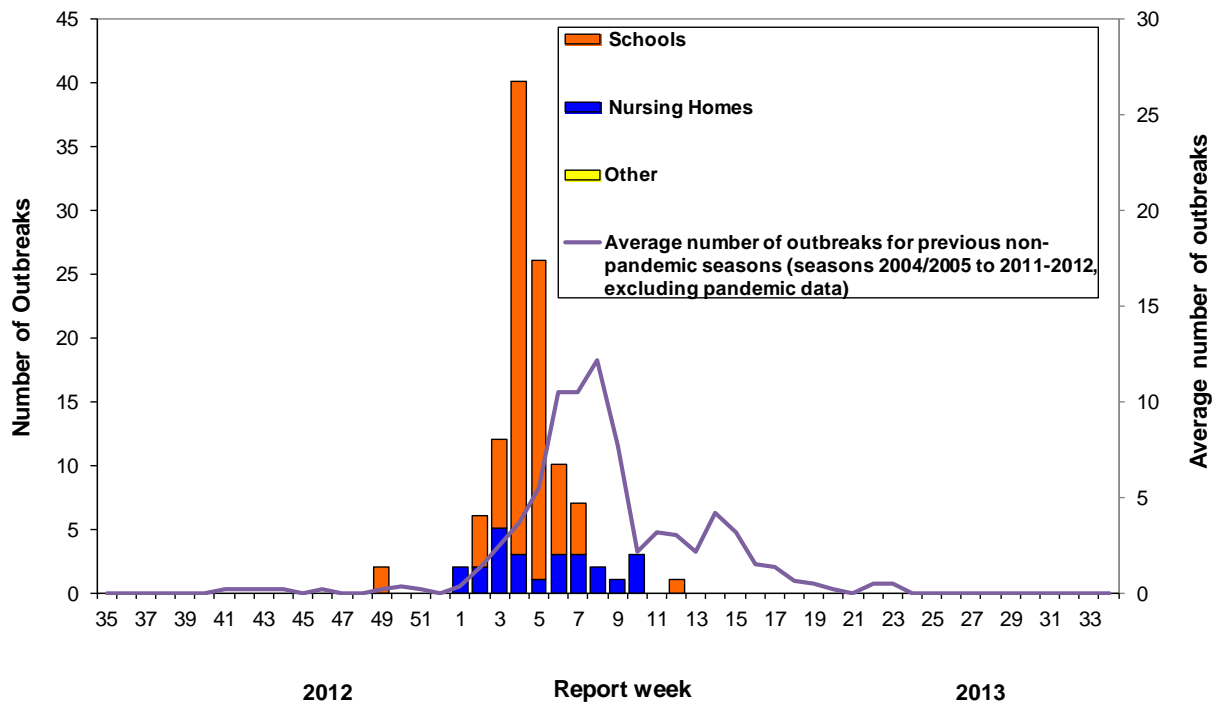
Table 2: ILI activity/outbreaks in New Brunswick nursing homes and schools for the reporting week, current and previous seasons.

	Reporting period: April/14/2012–April/20/2013			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	14	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	22	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	112	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/