

# **WEEKLY NEW BRUNSWICK INFLUENZA REPORT**

Reporting period: May 23 to June 19, 2021 (weeks 21 to 24)

### Summary

# In New Brunswick, influenza activity remained at inter-seasonal levels in weeks 21 to 24

#### New Brunswick:

- There have been no positive influenza cases in weeks 21 to 24. Since the beginning of the season, 1 case of influenza B has been reported.
- There has been no influenza associated hospitalizations during weeks 21 to 24. Since the beginning of the season, no hospitalizations have been reported and no deaths.
- The ILI consultation rate was 0.0 per 1,000 patients visits for weeks 21 to 23 and was 10.8 per 1,000 patients visits for week 24. The ILI rate was within the expected levels for this time of year.
- No influenza outbreaks were reported in weeks 21 to 24. So far this season, no influenza outbreaks have been reported. Three new ILI school outbreaks were reported in weeks 21 & 22.

#### Canada:

- Despite continued monitoring for influenza across Canada, there has been no evidence of community circulation of influenza during the usual period of seasonal influenza activity from mid-November to mid-April. Given the time of year, influenza is expected to remain at interseasonal levels for the remainder of the 2020-2021 seasonal influenza surveillance period.
- Nationally, one laboratory detection of influenza was reported in weeks 21 to 24.
- In week 24, 11,987 participants reported to FluWatchers and 14 (0.12%) participants reported cough and fever.
- Influenza surveillance indicators may be influenced by the COVID-19 pandemic, including changes in healthcare-seeking behaviour, impacts of public health measures and influenza testing capacity. Current data should be interpreted with consideration to this context.

#### International:

#### Seasonal influenza:

The current influenza surveillance data should be interpreted with caution as the ongoing COVID-19 pandemic have influenced to varying extents health seeking behaviours, staffing/routines in sentinel sites, as well as testing priorities and capacities in Member States. The various hygiene and physical distancing measures implemented by Member States to reduce SARS-CoV-2 virus transmission have likely played a role in reducing influenza virus transmission. Globally, despite continued or even increased testing for influenza in some countries, influenza activity remained at lower levels than expected for this time of the year. In the temperate zone of the northern hemisphere, influenza activity remained below baseline, though detections of influenza B/Victoria lineage slightly increased, especially in China. In the temperate zone of the southern hemisphere, influenza activity remained at interseasonal levels. In the Caribbean and Central American countries, there were very few influenza detections reported. In tropical South America, no influenza detections were reported. In tropical Africa, a few influenza detections were reported in some countries in Western and Eastern Africa. In Southern Asia, a few influenza detections were reported from Bangladesh, India, Nepal and Pakistan. In South East Asia, no influenza detections were reported. Worldwide, influenza B detections accounted for the majority of the very low numbers of detections reported.

### **Emerging Respiratory Viruses:**

- <u>COVID-19</u>: On December 31, 2019, a cluster of cases of pneumonia was reported in Wuhan, China, and the cause has been confirmed as a new coronavirus that has not previously been identified in humans (COVID-19). As of June 27, 2021, 1,413,203 cases of COVID-19 infection in Canada have been identified with 26,197 deaths. Two thousand three hundred and twenty-six cases (633 Variants of Concern) have been identified in New Brunswick with 46 deaths. As of June 27, the WHO reported globally 180 817 269 confirmed cases and 3 923 238 deaths. For more timely updates, please visit the following websites:
  - o WHO: https://www.who.int/emergencies/diseases/novel-coronavirus-2019
  - o PHAC: https://www.canada.ca/en/public-health/services/diseases/2019-novel-coronavirus-infection.html
  - o NB: https://www2.gnb.ca/content/gnb/en/departments/ocmoh/cdc/content/respiratory\_diseases/coronavirus.html

### • MERS CoV:

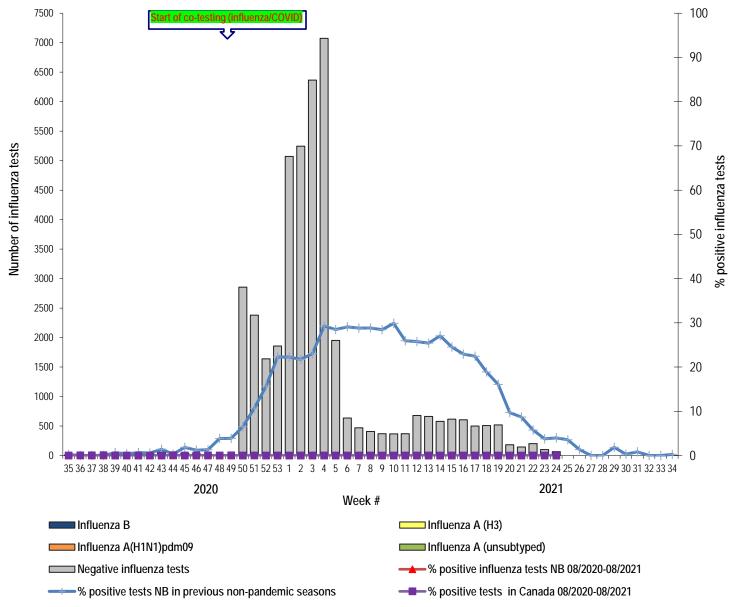
- WHO: http://www.who.int/csr/disease/coronavirus infections/en/
- o CDC: http://www.cdc.gov/coronavirus/mers/
- Updated Risk Assessment (August 2018): http://www.who.int/csr/disease/coronavirus infections/risk-assessment-august-2018.pdf?ua=1

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

<sup>&</sup>lt;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.

- Influenza activity remained at inter-seasonal levels in weeks 21 to 24.
- No influenza cases were reported during weeks 21 to 24.
- Since the beginning of the season, 1 influenza case has been reported, an influenza B virus<sup>2</sup>.

<u>Graph 1</u>: Number and percent of positive influenza specimens<sup>3</sup> in New Brunswick by week, up to June 19, 2021 (data source: G. Dumont Lab results)

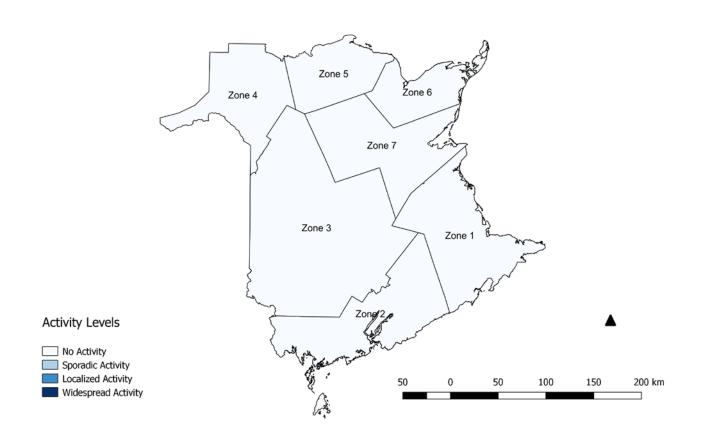


<sup>\*</sup>The increase in influenza laboratory tests seen between week 50 and week 5 is due to a change in testing process (co-testing for influenza and COVID)

<sup>&</sup>lt;sup>2</sup> This positive influenza detection is associated with recent live attenuated influenza vaccine receipt and does not represent community circulation of seasonal influenza viruses

<sup>&</sup>lt;sup>3</sup> Total number of positive influenza tests is higher than number of cases since some individuals had co-infection of A & B simultaneously.

Figure 2: Influenza/ILI activity levels<sup>4</sup> by Health Zones, in New Brunswick, for week 24, season 2020/2021.



<sup>&</sup>lt;sup>4</sup> <u>No activity</u> is defined as no laboratory-confirmed influenza detections in the reporting week, however, sporadically occurring ILI may be reported. <u>Sporadic activity</u> is defined as sporadically occurring ILI and lab confirmed influenza detection(s) with no outbreaks detected within the influenza surveillance region.

<sup>&</sup>lt;u>Localized activity</u> is defined as evidence of increased ILI with lab confirmed influenza detection(s) and outbreaks in schools, hospitals, residential institutions and/or other types of facilities occurring in less than 50% of the influenza surveillance region.

<sup>&</sup>lt;u>Widespread activity</u> is defined as evidence of increased ILI with lab confirmed influenza detection(s) and outbreaks in schools, hospitals, residential institutions and/or other types of facilities occurring in greater than or equal to 50% of the influenza surveillance region.

<u>Table 1</u>: Positive influenza cases by Health Region, in New Brunswick for reporting week, cumulative current and previous seasons. (data source: G. Dumont lab results up to June 19, 2021)

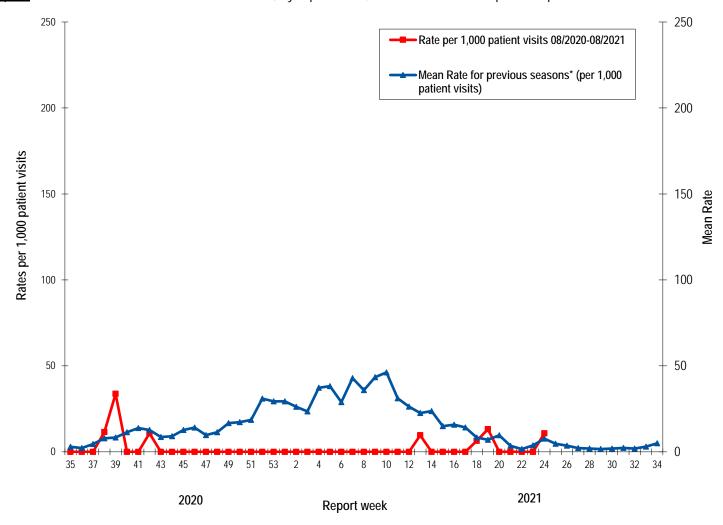
	Reporting period:						Cumulative: (2020/2021 season)					Cumulative: (2019/2020 season)						
	May/23/2021-June/19/2021						Aug./23/2020 – June/19/2021						Aug./25/2019 –Aug./22/2020					
Zone	А				В	A & B co- infection	А				A & B co- infection	А			В	A & B co- infectio n		
	A(H3)	(H1N1) pdm09	Unsubty ped/ Other	A Total	Total	Total	A(H3)	(H1N1) pdm09	Unsubty ped/ Other	A Total	Total	Total	(H3)	(H1N1) pdm09	Unsubty ped/ Other	A Total	Total	Total
Zone 1	0	0	0	0	0	0	0	0	0	0	1*	0	9	28	324	361	665	3
Zone 2	0	0	0	0	0	0	0	0	0	0	0	0	3	11	121	135	96	2
Zone 3	0	0	0	0	0	0	0	0	0	0	0	0	1	8	102	111	188	5
Zone 4	0	0	0	0	0	0	0	0	0	0	0	0	1	7	43	51	212	1
Zone 5	0	0	0	0	0	0	0	0	0	0	0	0	10	5	85	100	17	1
Zone 6	0	0	0	0	0	0	0	0	0	0	0	0	6	7	120	133	98	1
Zone 7	0	0	0	0	0	0	0	0	0	0	0	0	0	3	65	68	103	0
Total NB	0	0	0	0	0	0	0	0	0	0	1*	0	30	69	860	959	1379	13

<sup>\*</sup>This positive influenza detection is associated with recent live attenuated influenza vaccine receipt and does not represent community circulation of seasonal influenza viruses.

# 2) ILI Consultation Rates<sup>5</sup>

- The ILI consultation rate was 0.0 per 1,000 patients visits for weeks 21 to 23 and was 10.8 per 1,000 patients visits for week 24. The ILI rate for weeks 21 to 24 was within the expected levels for this time of year.
- During weeks 21 to 24, the sentinel response rate was between 14% and 21% for both the FluWatch sentinel physicians and the NB SPIN practitioners.

Graph 2: ILI Consultation Rates in New Brunswick, by report week, season 2020/21 compared to previous seasons\*



<sup>\*</sup> The mean rate was based on data from the 1996/97 to 2019/2020 seasons and excludes the Pandemic season (2009/10).

<sup>&</sup>lt;sup>5</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.

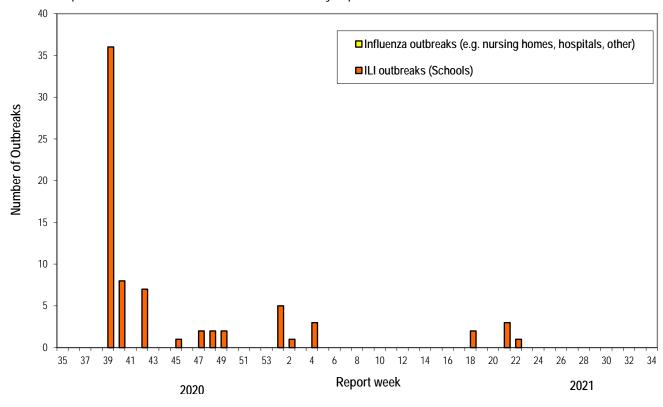
# 3) ILI and Laboratory-Confirmed Outbreak Data

<u>Table 2</u>: New ILI activity/outbreaks in New Brunswick nursing homes and schools\* for the reporting week and current season.

	M	Cumulativa # of				
	Lab-confirmed outbreaks in Nursing homes <sup>6</sup>	ILI school outbreaks <sup>7</sup> *	Lab-confirmed outbreaks in Other settings <sup>4</sup>	Cumulative # of outbreaks season 2020-2021*		
Zone 1	0 out of 15	3 out of 74	0	33		
Zone 2	0 out of 16	0 out of 81	0	14		
Zone 3	0 out of 16	0 out of 95	0	23		
Zone 4	0 out of 5	0 out of 22	0	0		
Zone 5	0 out of 2	0 out of 18	0	0		
Zone 6	0 out of 9	0 out of 35	0	0		
Zone 7	0 out of 5	0 out of 27	0	2		
Total NB	0 out of 68	3 out of 352	0	72*		

<sup>\*</sup>During this influenza season, 2020-2021, the number of ILI outbreaks in school (based on greater than 10% absenteeism in school due to ILI symptoms, which for many schools cannot be determined) will likely be skewed due to the COVID-19 pandemic, the prudence of parents/guardians to send their children to school and their interpretation of the home isolation requirements. Therefore, the number of ILI outbreaks in schools should be interpreted with caution and should not be compared to previous seasons.

<u>Graph 3</u>: Number of Influenza Outbreaks (nursing homes, hospitals, other) and ILI Outbreaks (schools) reported to Public Health in New Brunswick, by report week, season 2020/21.



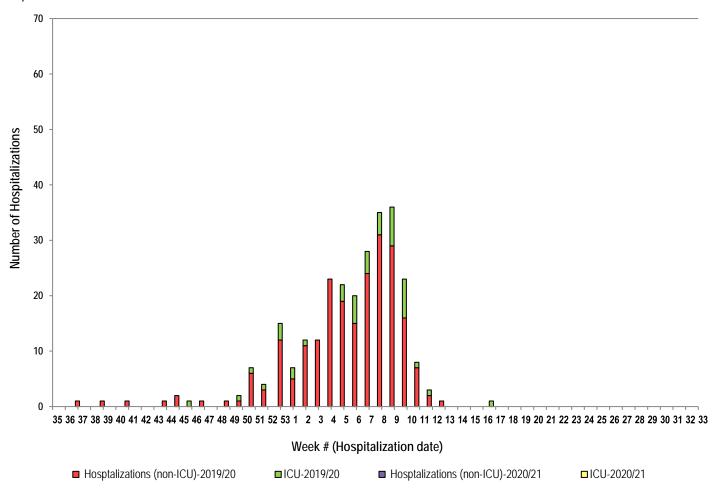
<sup>&</sup>lt;sup>6</sup> Two or more ILI cases within a seven-day period, including at least one laboratory-confirmed case of influenza. Outbreaks are reported in the week when laboratory confirmation is received.

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<sup>&</sup>lt;sup>7</sup> Schools reporting greater than 10% absenteeism which is likely due to ILI.

# 4) Influenza associated Hospitalization<sup>8</sup> and Death<sup>9</sup> Surveillance<sup>10</sup>

<u>Graph 4</u>: Influenza associated Hospitalizations and ICU admissions in New Brunswick, by week of hospitalization for current and past season.\*



<sup>\*</sup>Those who had been hospitalized 15 days or more prior to laboratory confirmation date were excluded from the graph

<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: <a href="http://www.phac-aspc.gc.ca/fluwatch/">http://www.phac-aspc.gc.ca/fluwatch/</a>

### 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.html

New Zealand: [http://www.surv.esr.cri.nz/virology/influenza\_weekly\_update.php

Argentina: <a href="http://www.msal.gov.ar/">http://www.msal.gov.ar/</a>
South Africa: <a href="http://www.nicd.ac.za/">http://www.nicd.ac.za/</a>
US: <a href="http://www.nicd.ac.za/">www.cdc.gov/flu/weekly/</a>

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<sup>\*\*</sup>No deaths have been reported so far in season 2020-2021.

 $<sup>^{8}</sup>$  Hospitalizations (including ICU admissions) are influenza associated; they may or may not be due to influenza.

 $<sup>^{9}</sup>$  Deaths are influenza associated; influenza may not be the direct cause of death.

<sup>&</sup>lt;sup>10</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. A standardized Enhanced Surveillance Form is used to collect data on hospitalizations.