

IN SUMMARY...

Activity levels**
<ul style="list-style-type: none"> Central and Eastern Zones are reporting localized activity and Western Zone has sporadic activity. There is no activity in Northern Zone. There was 1 new influenza outbreak reported for this week.
Laboratory-confirmed cases***
<ul style="list-style-type: none"> There were 9 influenza A cases and 5 influenza B cases reported this week. There have been 491 laboratory confirmed cases of Influenza A and 277 laboratory confirmed cases of influenza B reported during the 2017-2018 influenza season. Positive test results were received for chlamydomphila pneumoniae, metapneumovirus, rhinovirus and RSV.
Severity
<ul style="list-style-type: none"> There have been 50 ICU admissions and 55 influenza deaths*** of laboratory confirmed influenza during the 2017-2018 influenza season.
Syndromic surveillance
<ul style="list-style-type: none"> The average ILI rate for Nova Scotia during this reporting period was 1.0. 100% of emergency rooms reported ILI data during this reporting period.

Notes: *Reporting weeks run from Sunday to Saturday. The 2017-2018 influenza season is defined using PHAC's influenza surveillance weeks. This year runs from August 27, 2017 (Week 35) to August 25, 2018 (Week 34);

**Activity level data is obtained from CNPHI, see appendix for definitions;

***Deaths include individuals with a positive influenza test result, influenza may not have been the major contributing cause of death or hospitalization.

LABORATORY-CONFIRMED INFLUENZA CASES

Figure 1: Number of laboratory confirmed influenza cases by report week, 2017-2018 season, with trend-line comparison to 2016-2017 season, Nova Scotia

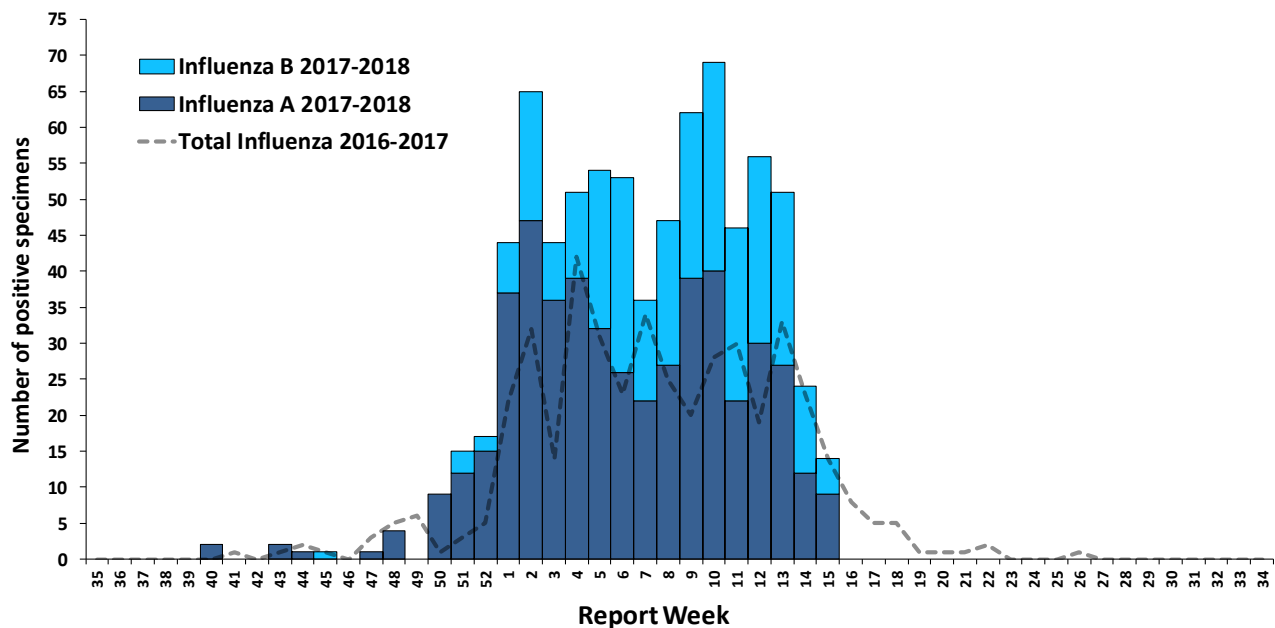


Table 1: Number of laboratory-confirmed influenza cases by zone, current week and cumulative 2017-2018 season in Nova Scotia

ZONE	CURRENT WEEK			CUMULATIVE 2017-2018		
	TOTAL	INFLUENZA A	INFLUENZA B	TOTAL	INFLUENZA A	INFLUENZA B
Western	1	0	1	152	101	51
Northern	0	0	0	69	23	46
Eastern	2	1	1	241	160	81
Central	11	8	3	306	207	99
Nova Scotia Total	14	9	5	768	491	277

Table 2: Number of laboratory-confirmed influenza cases by age group, current week and cumulative 2017-2018 season in Nova Scotia

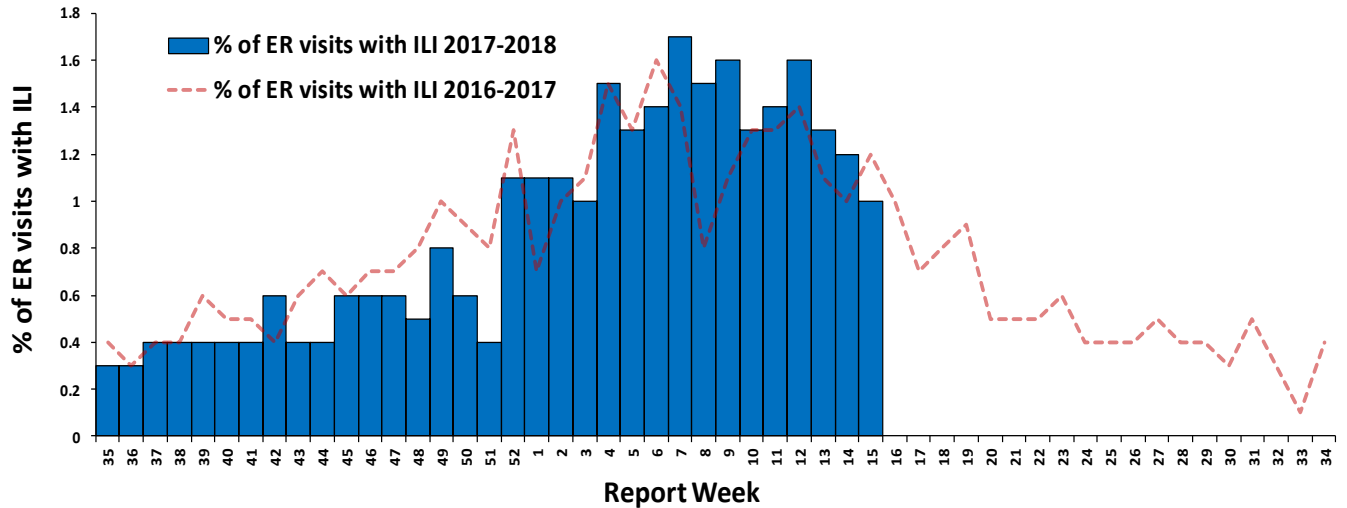
AGE	CURRENT WEEK			CUMULATIVE 2017-2018		
	TOTAL	INFLUENZA A	INFLUENZA B	TOTAL	INFLUENZA A	INFLUENZA B
0-4	3	1	1	37	25	24
5-19	4	1	0	49	21	35
20-44	3	0	0	38	25	19
45-64	5	1	0	92	68	38
65+	26	6	4	442	352	161
Nova Scotia Total	14	9	5	768	491	277

Table 3: Hospitalizations, ICU admissions and deaths for influenza positive patients, current week and cumulative, 2017-2018 season, Nova Scotia

	CURRENT WEEK			CUMULATIVE 2017-2018		
	TOTAL	INFLUENZA A	INFLUENZA B	TOTAL	INFLUENZA A	INFLUENZA B
Hospitalized	8	5	3	446	300	146
Hospitalized - ICU	1	0	1	50	32	18
Deceased*	0	0	0	55	40	15
Nova Scotia Total	9	5	4	551	372	179

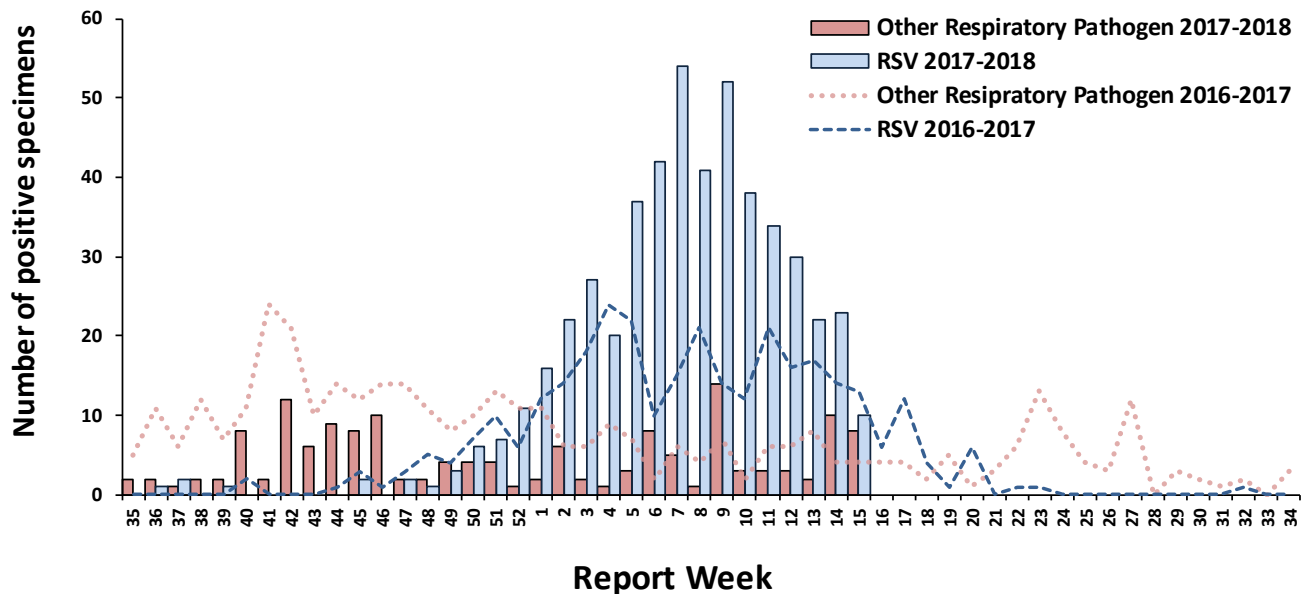
SYNDROMIC SURVEILLANCE

Figure 2: Percentage of emergency room visits due to ILI by report week, 2017-2018 season, with trend-line comparison to 2016-2017 season, Nova Scotia



OTHER RESPIRATORY PATHOGENS

Figure 3: Number of positive specimens tested for other respiratory pathogens* and RSV by report week, 2017-2018 season, with trend-line comparison to 2016-2017 season, Nova Scotia



* Other respiratory pathogen includes Adenovirus, Bocavirus, Chlamydomphila pneumonia, Coronavirus, Enterovirus, Metapneumovirus, Mycoplasma pneumoniae, Parainfluenza, Pertussis, Rhinovirus.
Note that data for this figure is obtained from provincial laboratories.

Table 4: Number of positive RSV specimens by age group, 2017-2018 season, Nova Scotia

AGE GROUP	2017-2018
0-5 months	124
6-11 months	30
12-23 months	51
2-5 years	38
6-15 years	8
16-65 years	66
65+ years	187
Nova Scotia Total	504

Table 5: Number of positive specimens tested for other respiratory pathogens, current report week and cumulative season, Nova Scotia, 2017–2018

Adenovirus	CURRENT WEEK (n positive)	CUMULATIVE 2017-2018
Adenovirus	0	7
Bocavirus	0	5
Chlamydomphila pneumoniae	1	3
Coronavirus	0	16
Enterovirus	0	1
Metapneumovirus	5	16
Mycoplasma pneumoniae	0	20
Parainfluenza	0	9
Pertussis	0	1
Respiratory Syncytial Virus	10	494
Rhinovirus	2	66

APPENDIX: DEFINITIONS USED IN INFLUENZA SURVEILLANCE, AND USEFUL LINKS, 2017-2018

ACRONYM LIST

- CNPHI** Canadian Network for Public Health Intelligence
ICU Intensive care unit
ILI Influenza-like illness
RSV Respiratory syncytial virus

MANAGEMENT ZONES

- Zone 1** – Western
Zone 2 – Northern
Zone 3 – Eastern
Zone 4 – Central

ILI CASE DEFINITION

Acute onset of respiratory illness with fever and cough and with one or more of the following – sore throat, arthralgia, myalgia or prostration which is likely due to influenza. In children under 5, gastrointestinal symptoms may also be present. In patients under 5 or 65 and older, fever may not be prominent.

NATIONAL FLUWATCH DEFINITIONS FOR INFLUENZA ACTIVITY LEVELS

No activity	No laboratory-confirmed influenza detections in the reporting week, however, sporadically occurring ILI* may be reported
Sporadic	Sporadically occurring ILI* and lab confirmed influenza detection(s) with no outbreaks detected within the influenza surveillance region
Localized	(1) Evidence of increased ILI* and (2) lab confirmed influenza detection(s) together with (3) outbreaks occurring in schools, hospitals, residential institutions and/or other types of facilities occurring in less than 50% of the influenza surveillance region
Widespread	(1) Evidence of increased ILI* and (2) lab confirmed influenza detection(s) together with (3) outbreaks occurring in schools, hospitals, residential institutions and/or other types of facilities occurring in greater than or equal to 50% of the influenza surveillance region

LINKS TO OTHER WEEKLY INFLUENZA REPORTING BODIES

Canada: <http://www.phac-aspc.gc.ca/fluwatch/>
 World: https://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/index.html
 US: www.cdc.gov/flu/weekly