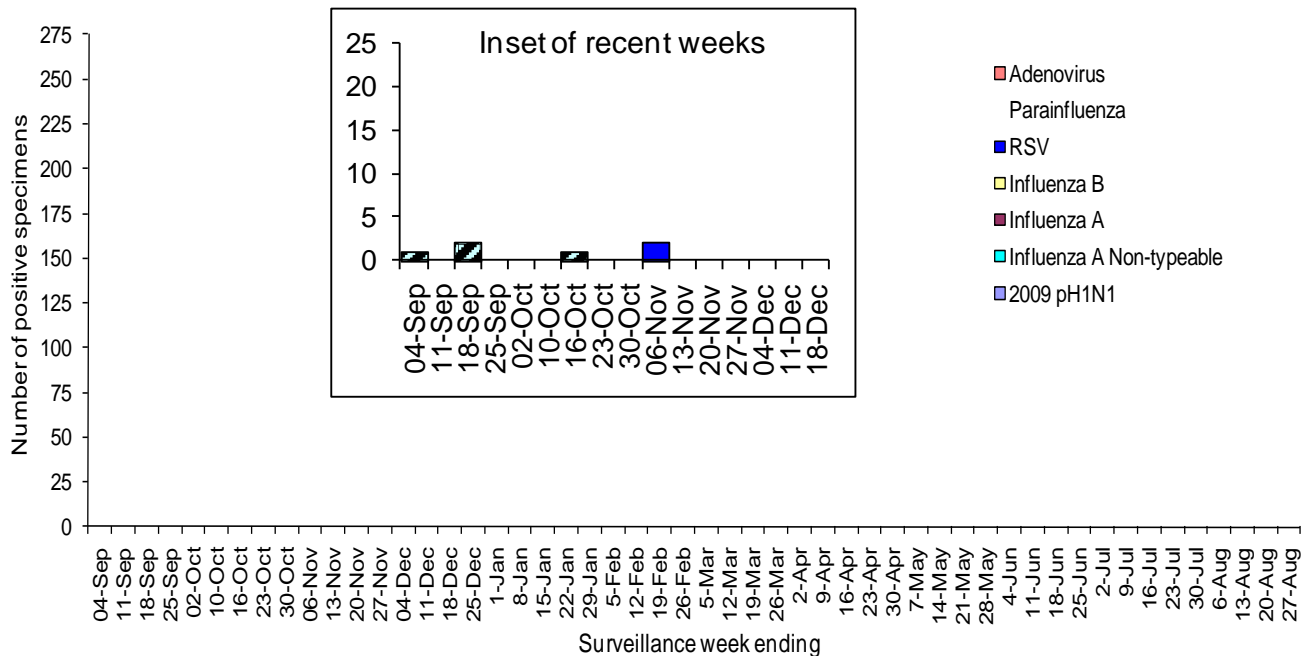


Summary of Nova Scotia surveillance findings, for the period ending November 13, 2010:

- No reports of laboratory-detected influenza
- All DHAs reported no influenza activity during surveillance week 45.
- The percentage of ER visits with ILI was 1.6% (2.4 % in week 44).
- The percentage of visits with ILI from sentinel physicians was 0.0% (0.0% in week 44).

Figure 1: Summary of laboratory detected circulating respiratory pathogens, Nova Scotia, 2010–2011

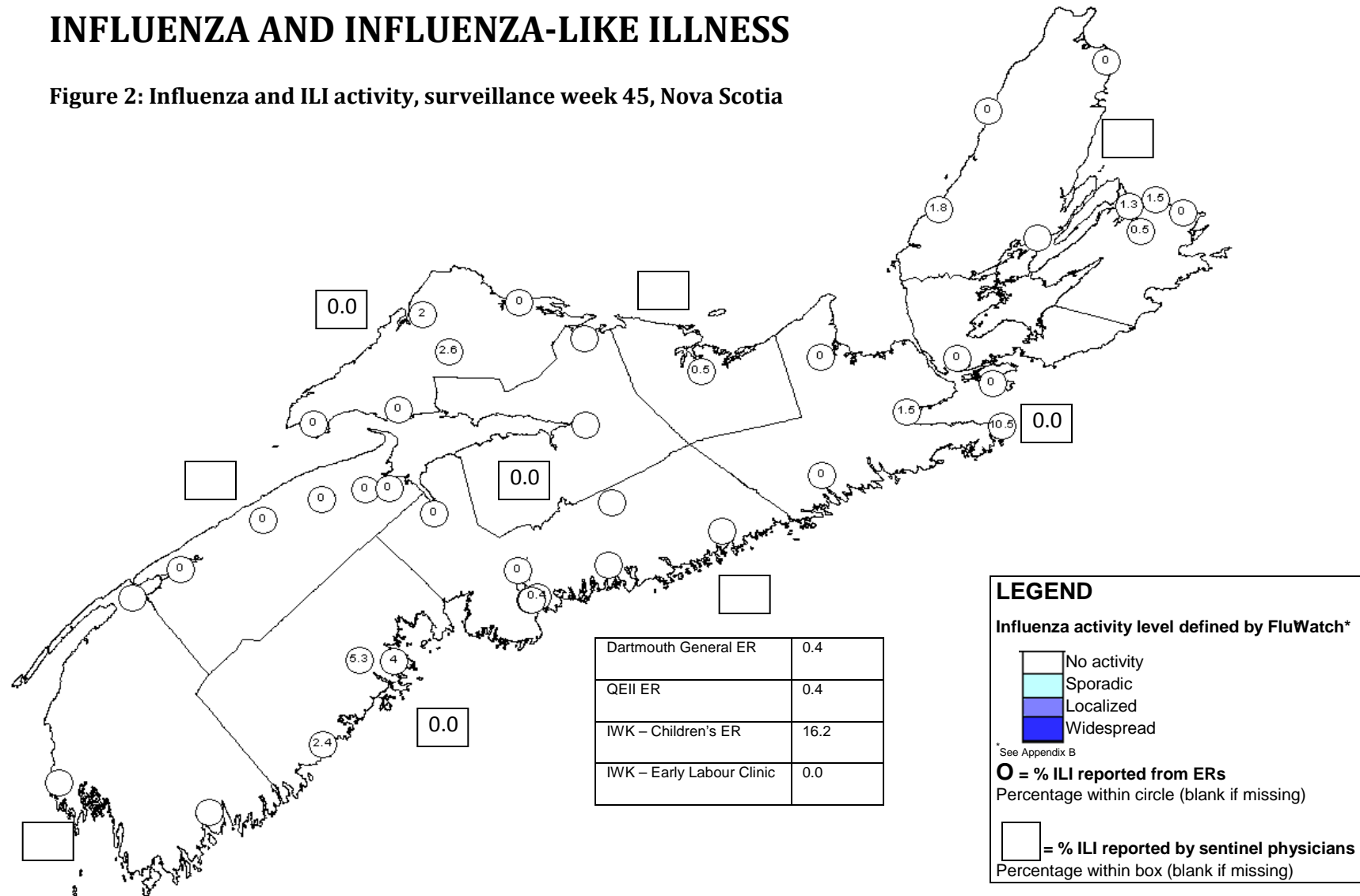


RESPIRATORY WATCH

Week 45 (November 7 – November 13, 2010)

INFLUENZA AND INFLUENZA-LIKE ILLNESS

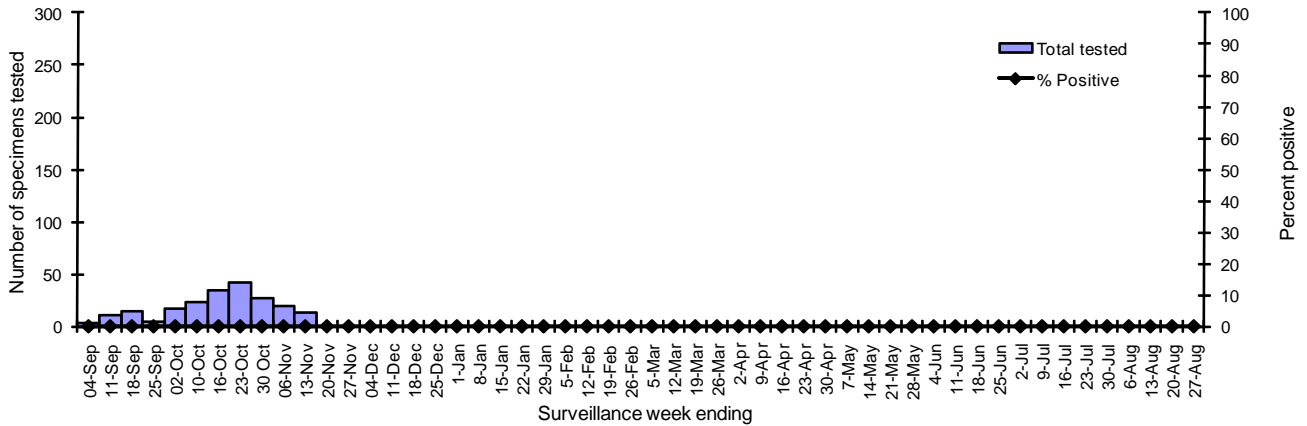
Figure 2: Influenza and ILI activity, surveillance week 45, Nova Scotia



RESPIRATORY WATCH

Week 45 (November 7 – November 13, 2010)

Figure 3: Number of specimens tested for influenza and percent positive, Nova Scotia Provincial Public Health Laboratory Network, 2010–2011*



*Data presented in this figure refers to week specimen was tested. All other data in report refers to onset date of symptoms.

Figure 4: Number of reported lab-confirmed influenza cases by type and report week, Nova Scotia, 2010–2011 (n=0)

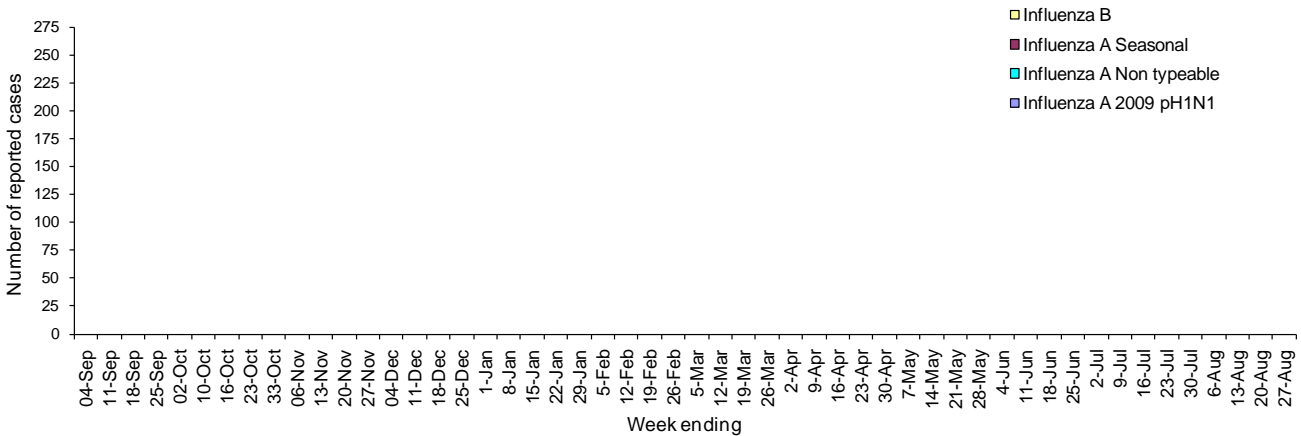
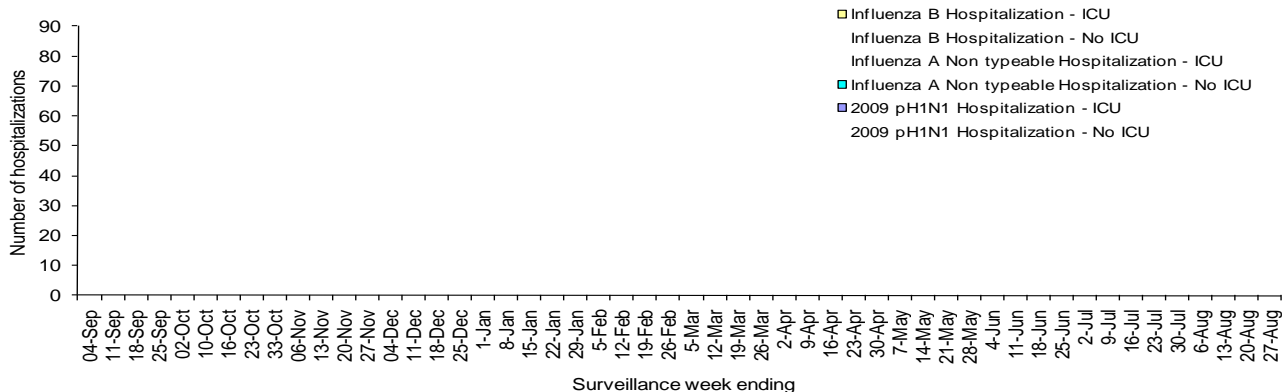


Figure 5: Number of influenza hospitalizations by type and report week, Nova Scotia, 2010–2011 (n=0)



RESPIRATORY WATCH

Week 45 (November 7 – November 13, 2010)

Figure 6: Influenza rate per 100,000 population by type and age group, cumulative, Nova Scotia, 2010-2011

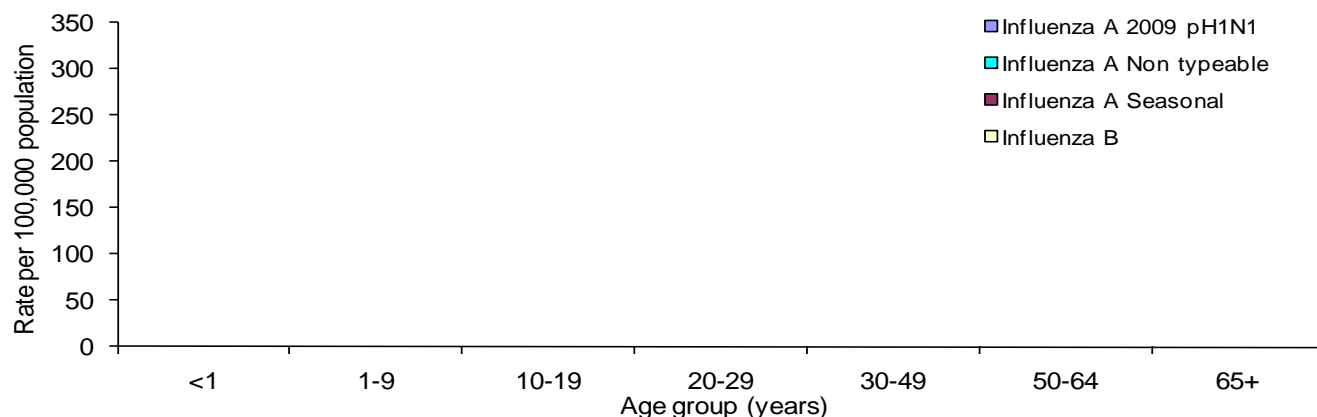


Figure 7: Influenza rate per 100,000 population by type and DHA, cumulative, Nova Scotia, 2010-2011



Table 1: Influenza case counts by DHA, surveillance week 45 and cumulative, Nova Scotia, 2010-2011

	DHA 1	DHA 2	DHA 3	DHA 4	DHA 5	DHA 6	DHA 7	DHA 8	DHA 9	Nova Scotia
2009 pH1N1										
Week 45	0	0	0	0	0	0	0	0	0	0
Cumulative	0	0	0	0	0	0	0	0	0	0
Influenza A (non-typeable)										
Week 45	0	0	0	0	0	0	0	0	0	0
Influenza A (seasonal)										
Week 45	0	0	0	0	0	0	0	0	0	0
Cumulative	0	0	0	0	0	0	0	0	0	0
Influenza B										
Week 45	0	0	0	0	0	0	0	0	0	0
Cumulative	0	0	0	0	0	0	0	0	0	0



RESPIRATORY WATCH

Week 45 (November 7 - November 13, 2010)

Table 2: Influenza case demographics, surveillance week 45 and cumulative, Nova Scotia, 2010-2011

	n	Rate (CI)*	% Male	Mean age	Median age	Age range
Week 45						
2009 pH1N1						
Cases	0	—	—	—	—	—
Total hospitalizations	0	—	—	—	—	—
Non-ICU	0	—	—	—	—	—
ICU	0	—	—	—	—	—
Deaths**	0	—	—	—	—	—
Influenza A (seasonal)						
Cases	0	—	—	—	—	—
Total hospitalizations	0	—	—	—	—	—
Non-ICU	0	—	—	—	—	—
ICU	0	—	—	—	—	—
Deaths	0	—	—	—	—	—
Influenza A (non-typeable)						
Cases	0	—	—	—	—	—
Total hospitalizations	0	—	—	—	—	—
Non-ICU	0	—	—	—	—	—
ICU	0	—	—	—	—	—
Deaths	0	—	—	—	—	—
Influenza B						
Cases	0	—	—	—	—	—
Total hospitalizations	0	—	—	—	—	—
Non-ICU	0	—	—	—	—	—
ICU	0	—	—	—	—	—
Deaths	0	—	—	—	—	—
Cumulative 2010–2011 season						
2009 pH1N1						
Cases	0	—	—	—	—	—
Total hospitalizations	0	—	—	—	—	—
Non-ICU	0	—	—	—	—	—
ICU	0	—	—	—	—	—
Deaths**	0	—	—	—	—	—
Influenza A (seasonal)						
Cases	0	—	—	—	—	—
Total hospitalizations	0	—	—	—	—	—
Non-ICU	0	—	—	—	—	—
ICU	0	—	—	—	—	—
Deaths	0	—	—	—	—	—
Influenza A (non-typeable)						
Cases	0	—	—	—	—	—
Total hospitalizations	0	—	—	—	—	—
Non-ICU	0	—	—	—	—	—
ICU	0	—	—	—	—	—
Deaths	0	—	—	—	—	—
Influenza B						
Cases	0	—	—	—	—	—
Total hospitalizations	0	—	—	—	—	—
Non-ICU	0	—	—	—	—	—
ICU	0	—	—	—	—	—
Deaths**	0	—	—	—	—	—

*Rate per 100,000 population; CI=confidence interval for rate. Dashes used for small numbers.

**Age group rather than age presented for deaths due to small numbers.



RESPIRATORY WATCH

Week 45 (November 7 - November 13, 2010)

Table 3: Surveillance week 45 ILI reporting from emergency departments and FluWatch sentinel physicians, Nova Scotia

	ER SURVEILLANCE		SENTINEL SURVEILLANCE*	
	%ILI	Reporting ERs	%ILI	Reporting Practices
DHA 1	4.0	3 of 3	0.0	1 of 1
DHA 2	—	0 of 3	—	0 of 1
DHA 3	0.0	5 of 5	—	—
DHA 4	—	0 of 2	0.0	1 of 1
DHA 5	1.4	5 of 5	0.0	1 of 1
DHA 6	0.5	1 of 1	—	0 of 2
DHA 7	0.4	6 of 6	0.0	1 of 2
DHA 8	0.7	7 of 8	—	0 of 3
DHA 9	0.4	4 of 7	—	0 of 3
Nova Scotia (excl. IWK)†	0.8	31 of 40 (77.5%)		
Nova Scotia (incl. IWK)	1.6	32 of 41 (78.0%)		4 of 14 (28.6%)
IWK	16.2	1 of 1		

*Flu watch sentinels

†Excludes the children's ER from IWK

Figure 8: Percentage of ER visits with ILI, Nova Scotia, 2010–2011

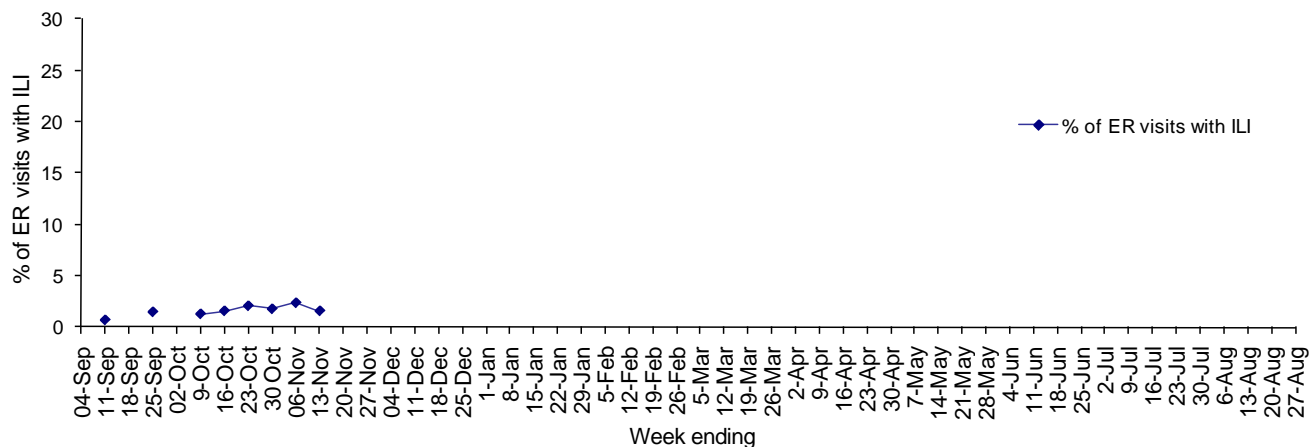
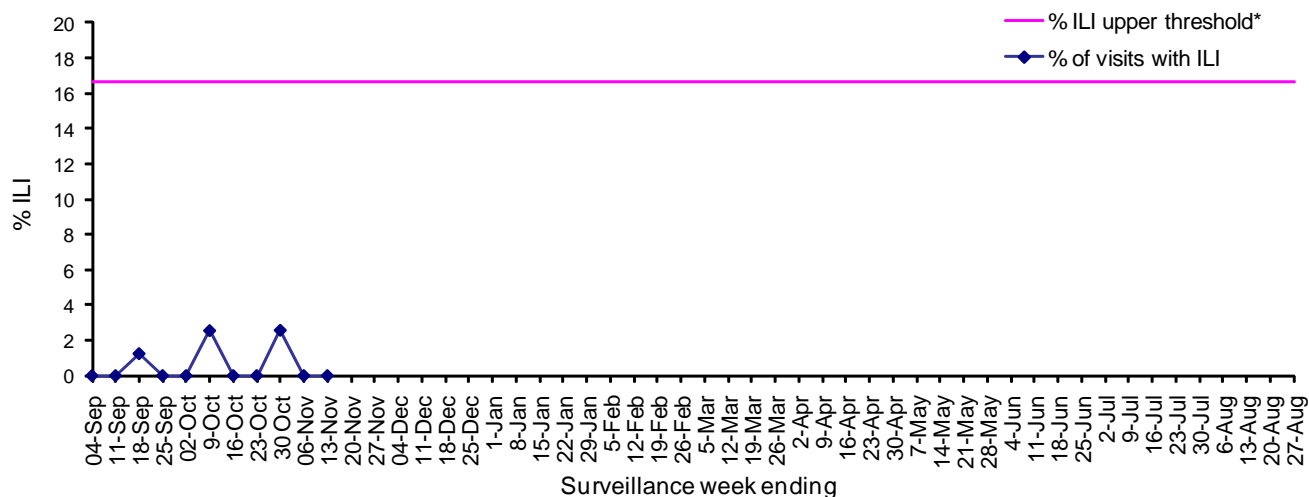


Figure 9: Percent of patient visits to FluWatch sentinel physicians with ILI, Nova Scotia, 2010–2011



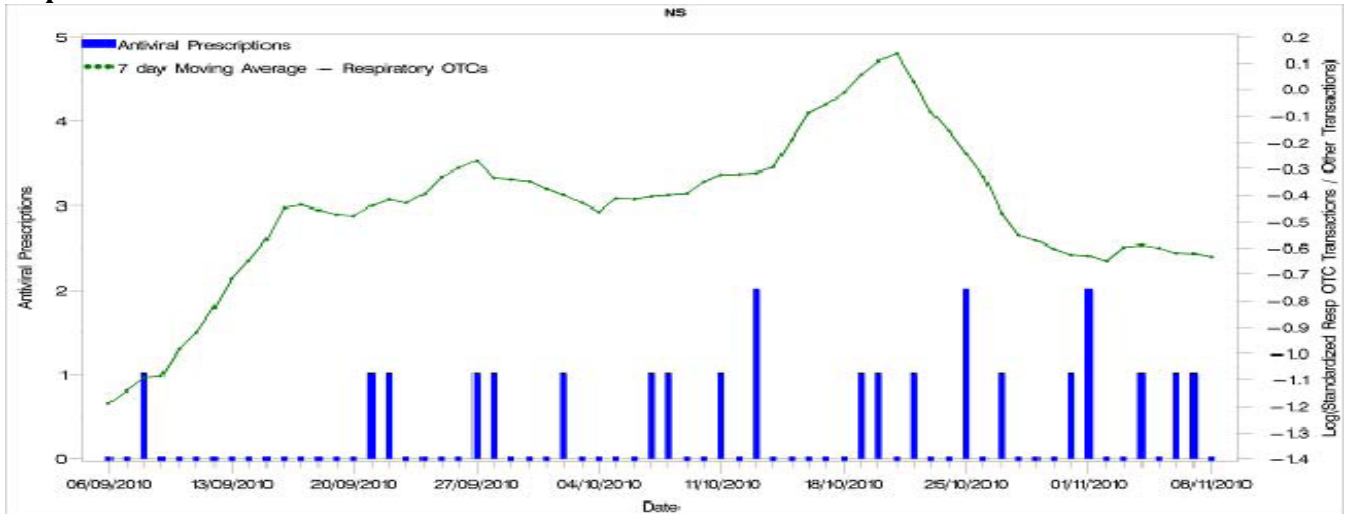
*Note: Threshold ILI rate of 16.7% represents the highest proportion of patient visits reported with ILI over the past five influenza seasons.



RESPIRATORY WATCH

Week 45 (November 7 - November 13, 2010)

Figure 10: Seven day moving average of antivirals and respiratory over-the-counter medications dispensed in Nova Scotia



RESPIRATORY SYNCYTIAL VIRUS (RSV)

Figure 11: Number of positive RSV specimens by report week, Nova Scotia, 2010-2011 (n=2)

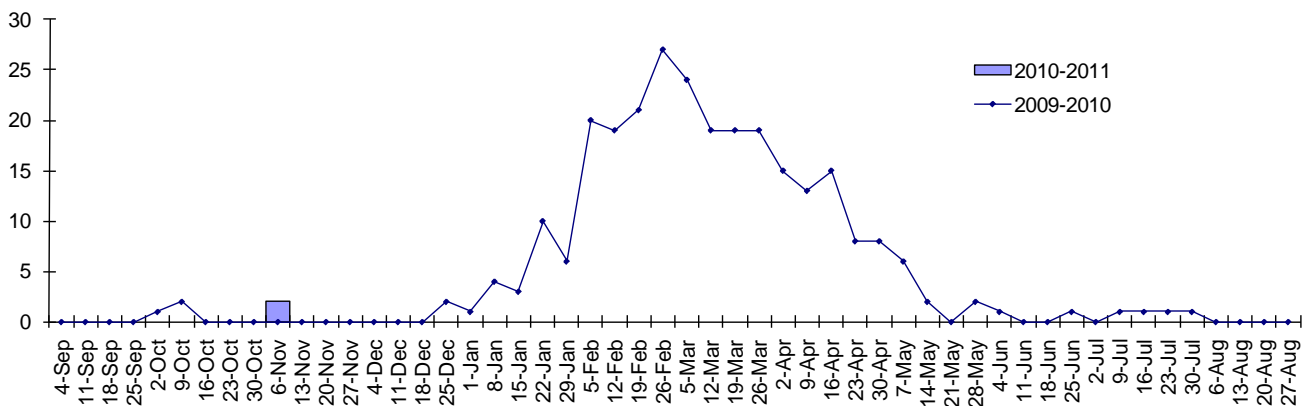
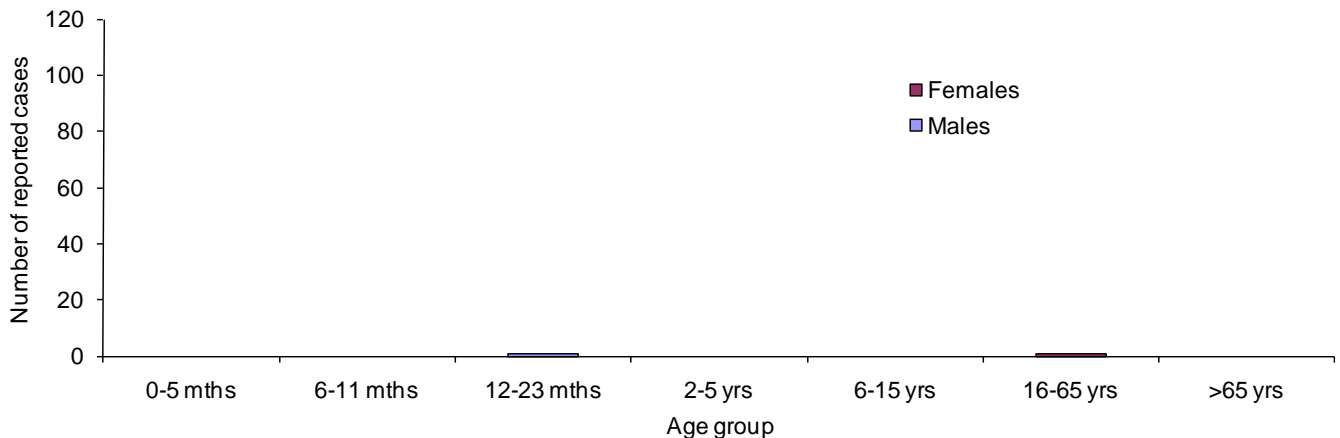


Figure 12: Cumulative number of positive RSV specimens by age group and sex, Nova Scotia, 2010 - 2011 (n=2)



RESPIRATORY WATCH

Week 45 (November 7 – November 13, 2010)

PARAINFLUENZA VIRUS (PIV) and ADENOVIRUS

Table 5: Total number of specimens tested and number (%) positive for parainfluenza and adenovirus by report week and cumulative season, Nova Scotia, 2010–2011

	Surveillance Week 45 November 13, 2010		Cumulative Season-to-Date Totals	
	n positive	% positive	n positive	% positive
Number of specimens tested:	6		122	
Number and percent positive for:	n positive	% positive	n positive	% positive
Parainfluenza virus 1	0	0.0	0	2.5
Parainfluenza virus 2	0	0.0	1	0.8
Parainfluenza virus 3	0	0.0	3	2.5
Parainfluenza virus 4	0	0.0	0	0.0
Total parainfluenza virus	0	0.0	4	3.3
Adenovirus	0	0.0	0	0.0



RESPIRATORY WATCH

Week 45 (November 7 – November 13, 2010)

APPENDIX: Definitions used in Influenza Surveillance, 2010-2011

- 1) ILI in the general population:
Acute onset of respiratory illness with fever and cough and with one or more of the following: sore throat, arthralgia, myalgia or prostration, which could be due to influenza virus. In children under five years, gastrointestinal symptoms may also be present. In patients under five or over 65, fever may not be prominent.
- 2) Outbreaks of influenza / ILI by setting:
Schools and work sites:
Greater than 10% absenteeism on any day that is most likely due to ILI.
Residential institutions:
Two or more cases of ILI within a seven-day period, **including at least one laboratory confirmed case**. Institutional outbreaks should be reported within 24-hours of identification.
- 3) National FluWatch Definitions for Influenza Activity Levels:

Influenza activity levels are defined as:

- 1 = **No activity:** i.e. no laboratory-confirmed influenza detections in the reporting week, however, sporadically occurring ILI* may be reported
- 2 = **Sporadic:** sporadically occurring ILI* and lab confirmed influenza detection(s) with **NO ILI/influenza outbreaks** detected within the influenza surveillance region†
- 3 = **Localized:** evidence of increased ILI* and lab confirmed influenza detection(s) together **with outbreaks** in schools, hospitals, residential institutions and/or other types of facilities occurring in **less than 50% of the influenza surveillance region(s)†**
- 4 = **Widespread:** evidence of increased ILI* and lab confirmed influenza detection(s) **together with 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(s)†**

* ILI data may be reported through sentinel physicians, emergency room visits or health line telephone calls.

† Sub-regions within the province or territory as defined by the provincial/territorial epidemiologist.

- 4) District Health Authorities (DHAs), Nova Scotia:
DHA 1 – South Shore Health
DHA 2 – South West Health
DHA 3 – Annapolis Valley Health
DHA 4 – Colchester East Hants Health Authority
DHA 5 – Cumberland Health Authority
DHA 6 – Pictou County Health Authority
DHA 7 – Guysborough Antigonish Strait Health Authority
DHA 8 – Cape Breton District Health Authority
DHA 9 – Capital Health



