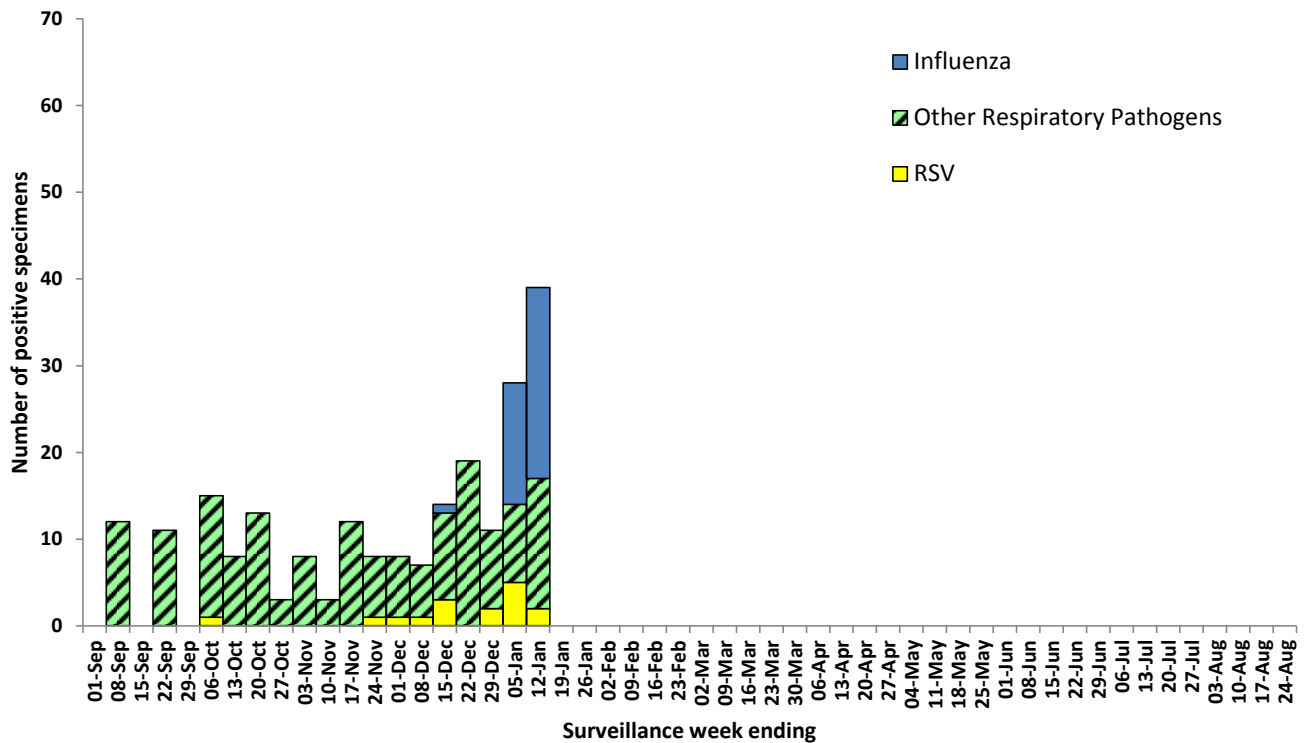


Summary of Nova Scotia surveillance findings, for the period ending January 12, 2013:

- Twenty two influenza A positive lab results were reported this week.
- Other respiratory pathogen activity continues. Positive results were received for coronavirus, mycoplasma pneumoniae, parainfluenza, rhinovirus and RSV.
- The ILI rate for Nova Scotia for this reporting period was 1.4. Eighty two percent of ER sites reported ILI data this week.
- Three specimens were submitted through the sentinel swabbing program. One from DHA 3 and 2 from DHA 7.
- Sentinel physician data was not received at time of report production.

Figure 1: Summary of laboratory detected circulating respiratory pathogens, Nova Scotia, 2012–2013

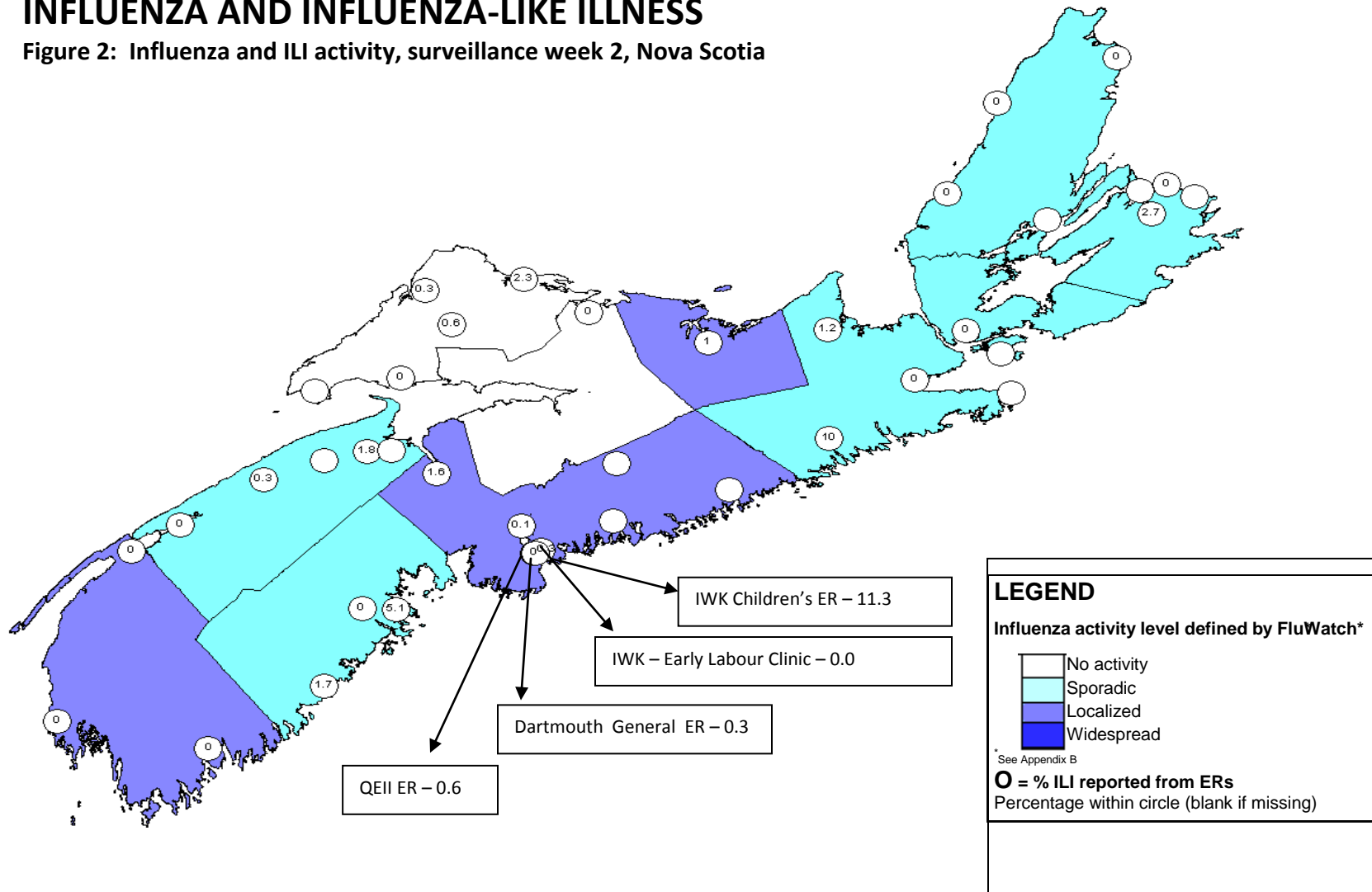


RESPIRATORY WATCH

Week 2 (January 6 to January 12, 2013)

INFLUENZA AND INFLUENZA-LIKE ILLNESS

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



RESPIRATORY WATCH

Week 2 (January 6 to January 12, 2013)

Figure 3: Number of reported lab-confirmed influenza cases by type and report week, Nova Scotia, 2012–2013

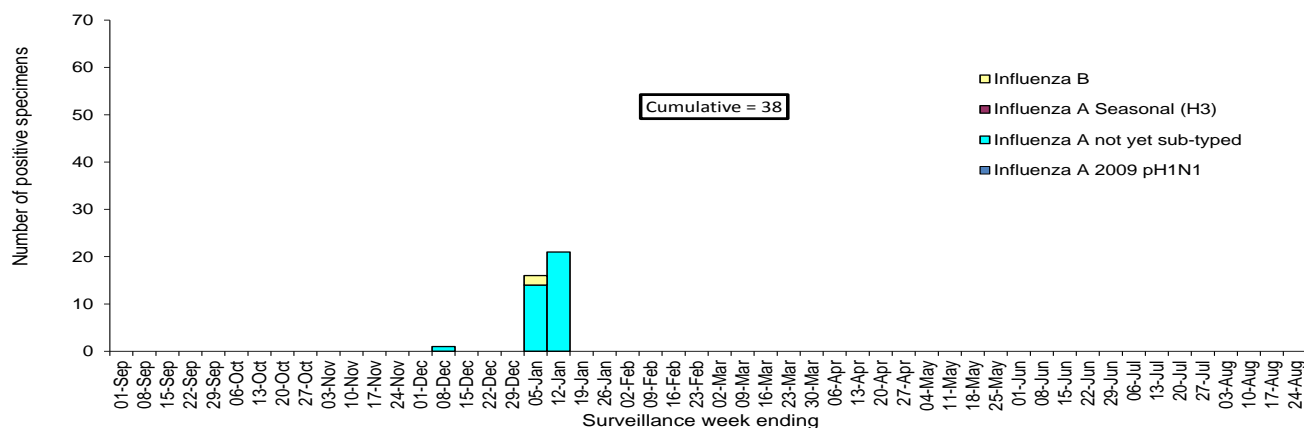
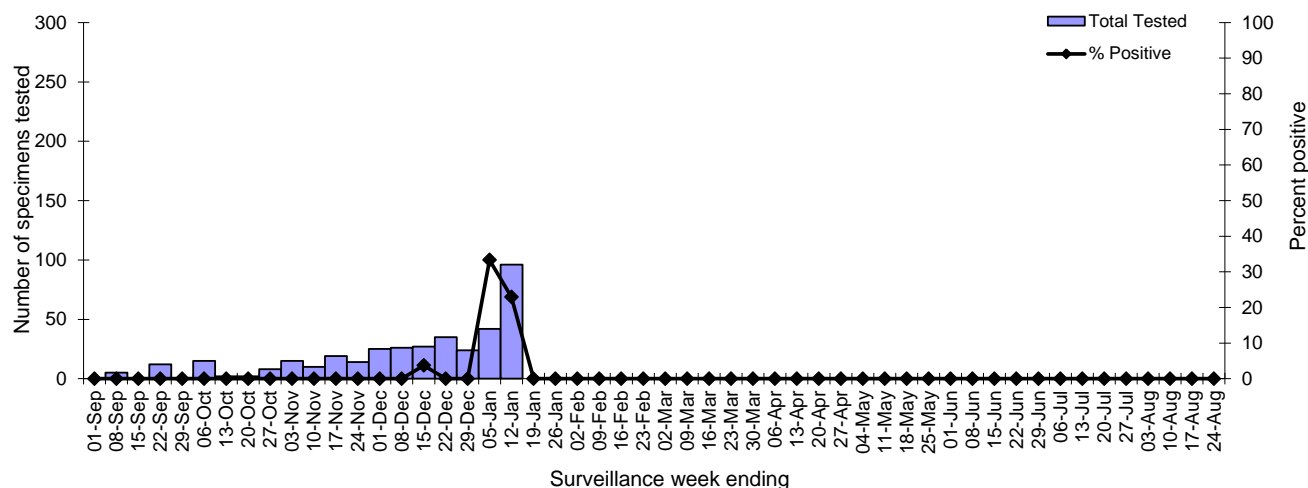


Figure 4: Number of specimens tested for influenza and percent positive, Nova Scotia Provincial Public Health Laboratory Network, 2012–2013*



*Data presented in this figure refers to week specimen was tested.

Table 1: Influenza case counts by DHA, current surveillance week and cumulative, Nova Scotia, 2012–2013

	DHA 1	DHA 2	DHA 3	DHA 4	DHA 5	DHA 6	DHA 7	DHA 8	DHA 9	Nova Scotia
Influenza A 2009 pH1N1										
Current Week	0	0	0	0	0	0	0	0	0	0
Cumulative 2012 - 2013	0	0	0	0	0	0	0	0	0	0
Influenza A (not yet sub-typed)										
Current Week	2	3	1	0	0	2	2	0	11	21
Cumulative 2012 - 2013	2	5	3	0	3	2	2	0	19	36
Influenza A Seasonal (H3)										
Current Week	0	0	0	0	0	0	0	0	0	0
Cumulative 2012 - 2013	0	0	0	0	0	0	0	0	0	0
Influenza B										
Current Week	0	0	0	0	0	0	0	0	0	0
Cumulative 2012 - 2013	0	0	0	0	0	0	0	0	2	2

RESPIRATORY WATCH

Week 2 (January 6 to January 12, 2013)

Figure 5: Influenza rate per 100,000 population by type and age group, cumulative, Nova Scotia, 2012–2013

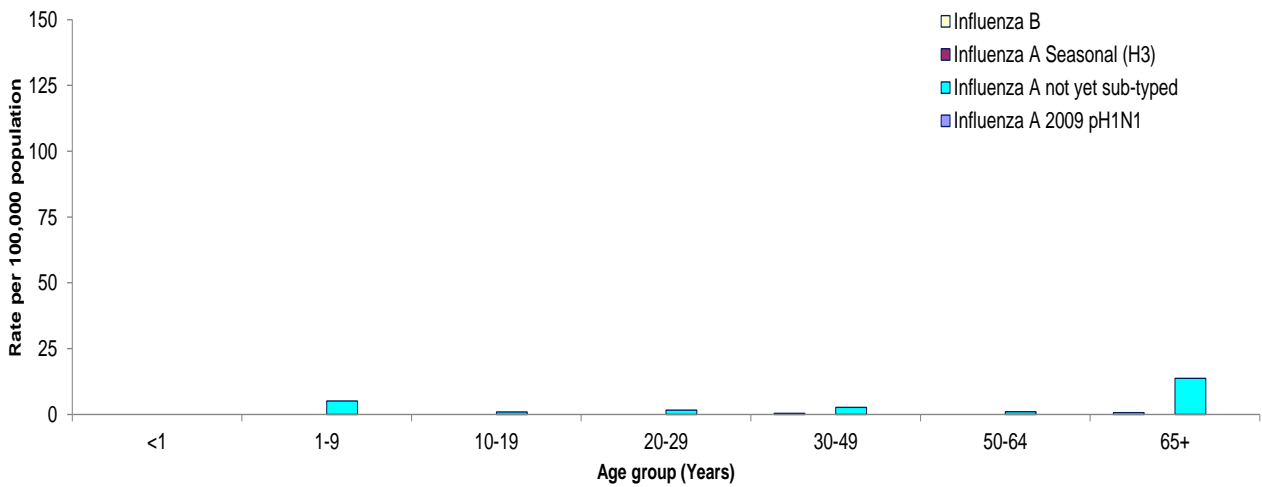


Figure 6: Influenza rate per 100,000 population by type and DHA, cumulative, Nova Scotia, 2012–2013

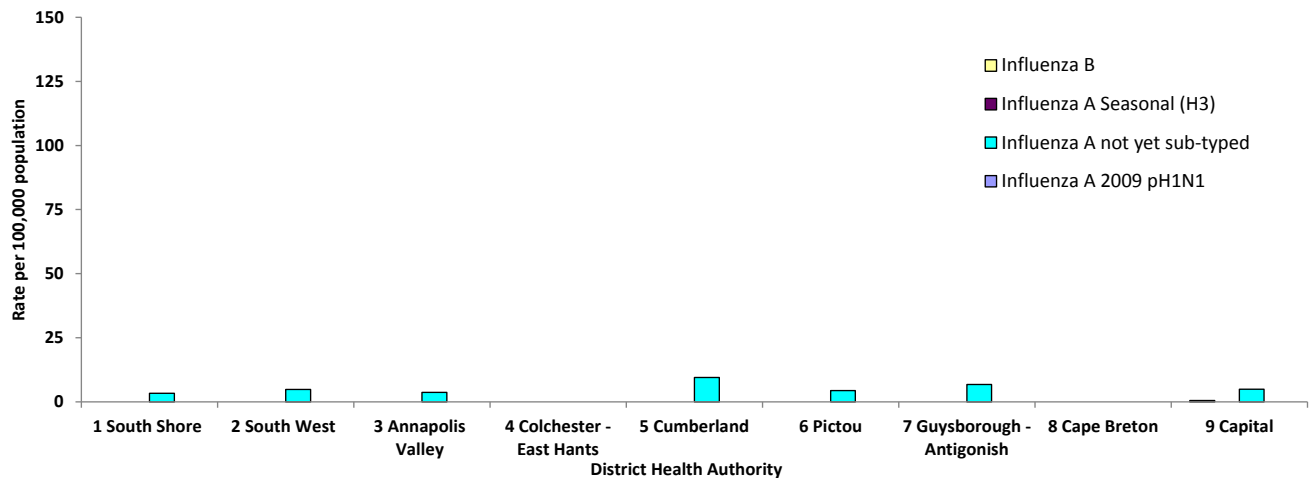


Table 2: ILI reporting from emergency departments and FluWatch sentinel physicians, and Sentinel Swabbing Specimen Submissions, Nova Scotia, 2012-2013

	ER SURVEILLANCE		SENTINEL SURVEILLANCE*		SENTINEL SWABBING	
	%ILI	Reporting ERs	%ILI	Reporting Sentinels	# Swabs	Sites Submitting Specimens
DHA 1	1.8	3 of 3	–	0 of 6	0	0 of 1
DHA 2	0.0	3 of 3	–	0 of 0	0	0 of 1
DHA 3	1.1	3 of 5	–	0 of 1	1	1 of 2
DHA 4	0.8	2 of 2	–	0 of 0	0	0 of 2
DHA 5	0.8	5 of 5	–	0 of 2	0	0 of 1
DHA 6	1.0	1 of 1	–	0 of 2	0	0 of 1
DHA 7	0.8	6 of 6	–	0 of 1	2	1 of 2
DHA 8	1.6	5 of 8	–	0 of 4	0	0 of 3
DHA 9	0.5	5 of 7	–	0 of 14		
IWK	8.4	1 of 1				
Nova Scotia (excl. IWK)	0.8	33 of 40	82.5%		3	2 of 12
Nova Scotia (incl. IWK)	1.4	34 of 41	82.9%	0 of 30	0.0%	

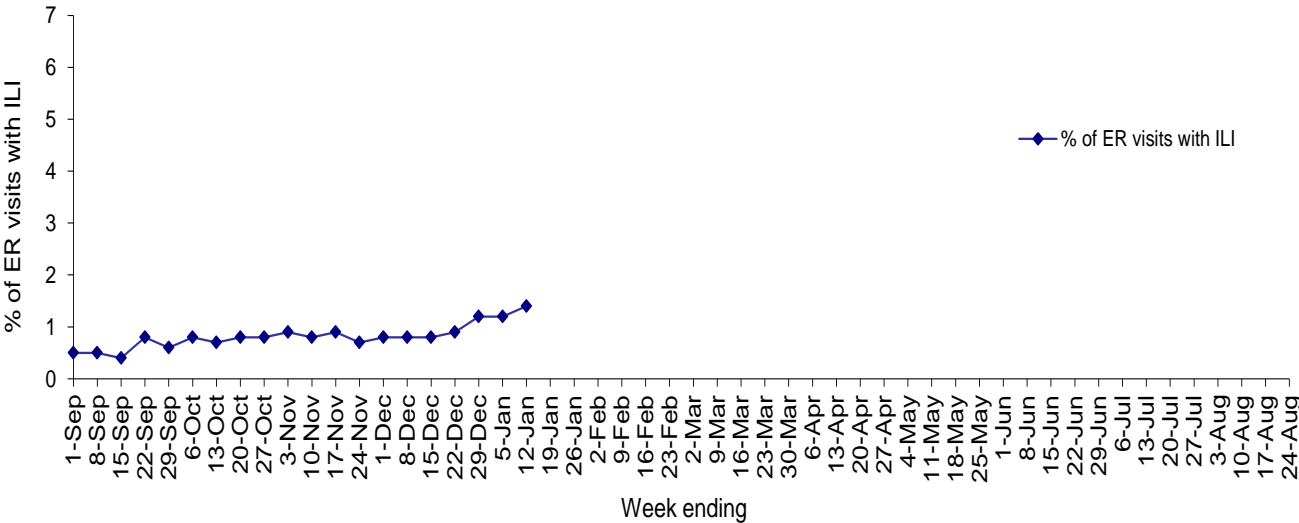
*FluWatch sentinels

†Excludes the children's ER from IWK

RESPIRATORY WATCH

Week 2 (January 6 to January 12, 2013)

Figure 7: Percentage of ER visits with ILI, Nova Scotia, 2012–2013



RESPIRATORY WATCH

Week 2 (January 6 to January 12, 2013)

RESPIRATORY SYNCYTIAL VIRUS (RSV)

Figure 8: Number of positive RSV specimens by report week, Nova Scotia, 2012–2013

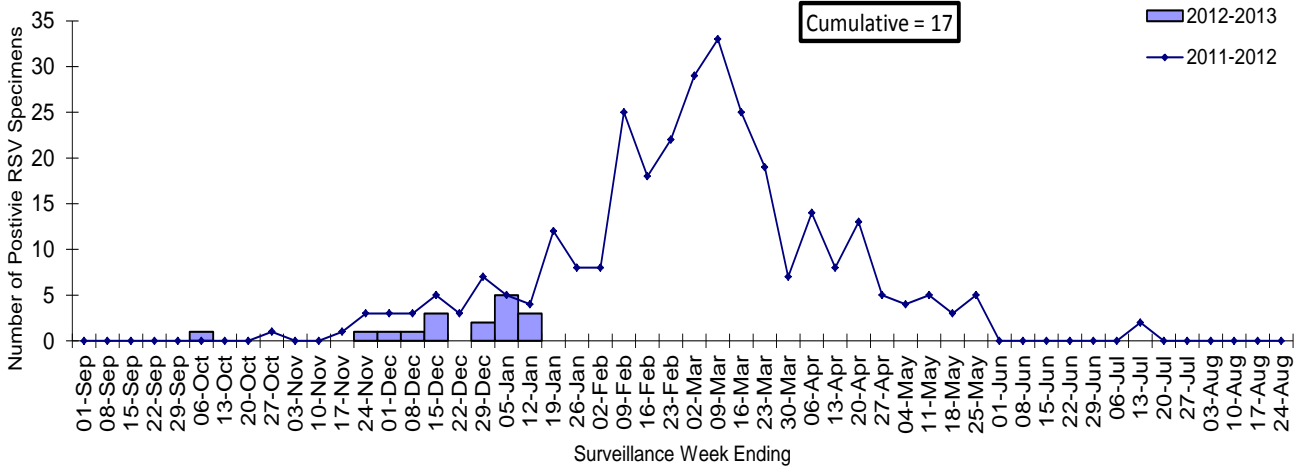
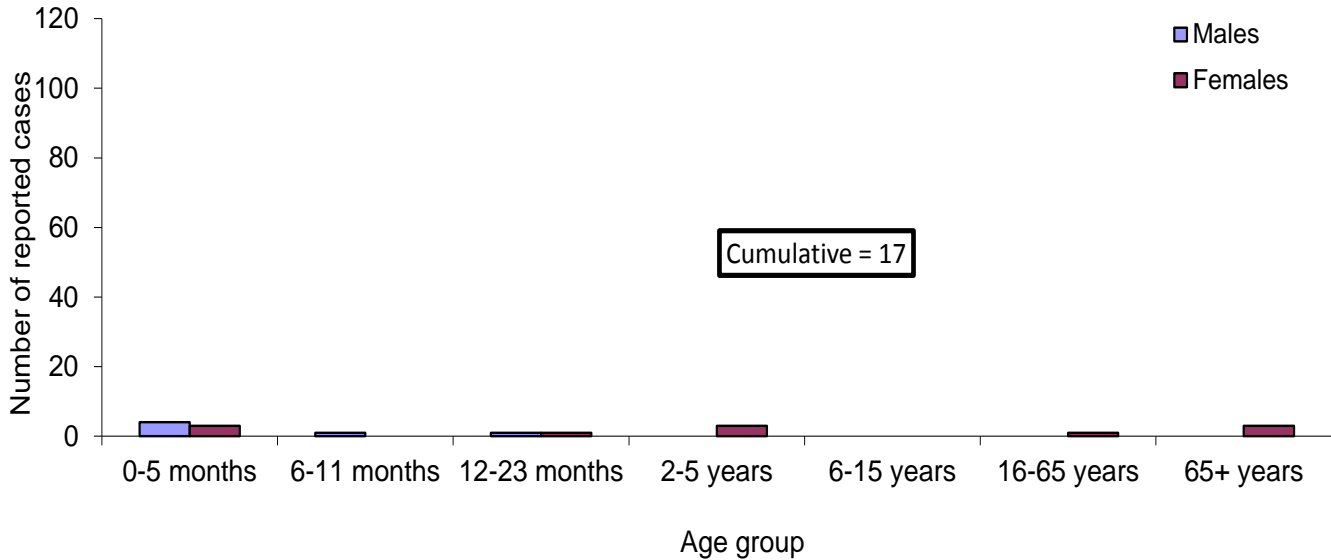


Figure 9: Cumulative number of positive RSV specimens by age group and sex, Nova Scotia, 2012-2013



RESPIRATORY WATCH

Week 2 (January 6 to January 12, 2013)

OTHER RESPIRATORY PATHOGENS

Table 3: Total number of specimens tested and number (%) positive for other respiratory pathogens, by report week and cumulative season, Nova Scotia, 2012–2013

Number and percent positive for:	Surveillance Week			Cumulative Season-to-Date Totals		
	n tested	n positive	% positive	n tested	n positive	% positive
Adenovirus	74	0	0.0	306	0	0.0
Bocavirus	74	0	0.0	306	1	0.3
Chlamydomphila pneumoniae	13	0	0.0	262	23	8.8
Coronavirus	74	5	6.8	306	5	1.6
Enterovirus	74	0	0.0	306	4	1.3
Metapneumovirus	74	0	0.0	306	4	1.3
Mycoplasma pneumoniae	13	2	15.4	262	57	21.8
Parainfluenza	74	4	5.4	306	15	4.9
Pertussis	13	0	0.0	149	14	9.4
Respiratory syncytial virus A	74	0	0.0	308	8	2.6
Respiratory syncytial virus B	74	0	0.0	308	0	0.0
Respiratory syncytial virus not typed	24	3	12.5	231	9	3.9
Rhinovirus	74	4	5.4	306	43	14.1

RESPIRATORY WATCH

Week 2 (January 6 to January 12, 2013)

APPENDIX: Definitions used in Influenza Surveillance, 2012-2013

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 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.

2) Outbreaks of influenza / ILI by setting:

Schools and Daycares:

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.

Hospitals and 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. Residential institutions include but not limited to long-term care facilities (LTCF) and prisons.

Other Settings:

Two or more cases of ILI within a seven-day period, including at least one laboratory confirmed case; i.e. closed communities.

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 outbreaks detected within the influenza surveillance region† |
| 3 = Localized: | (1) evidence of increased ILI* and
(2) lab confirmed influenza detection(s) together with
(3) outbreaks in schools, hospitals, residential institutions and/or other types of facilities occurring in less than 50% of the influenza surveillance region † |
| 4 = Widespread: | (1) evidence of increased ILI* and
(2) lab confirmed influenza detection(s) together with
(3) 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 † |

* 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.

RESPIRATORY WATCH

Week 2 (January 6 to January 12, 2013)

- 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