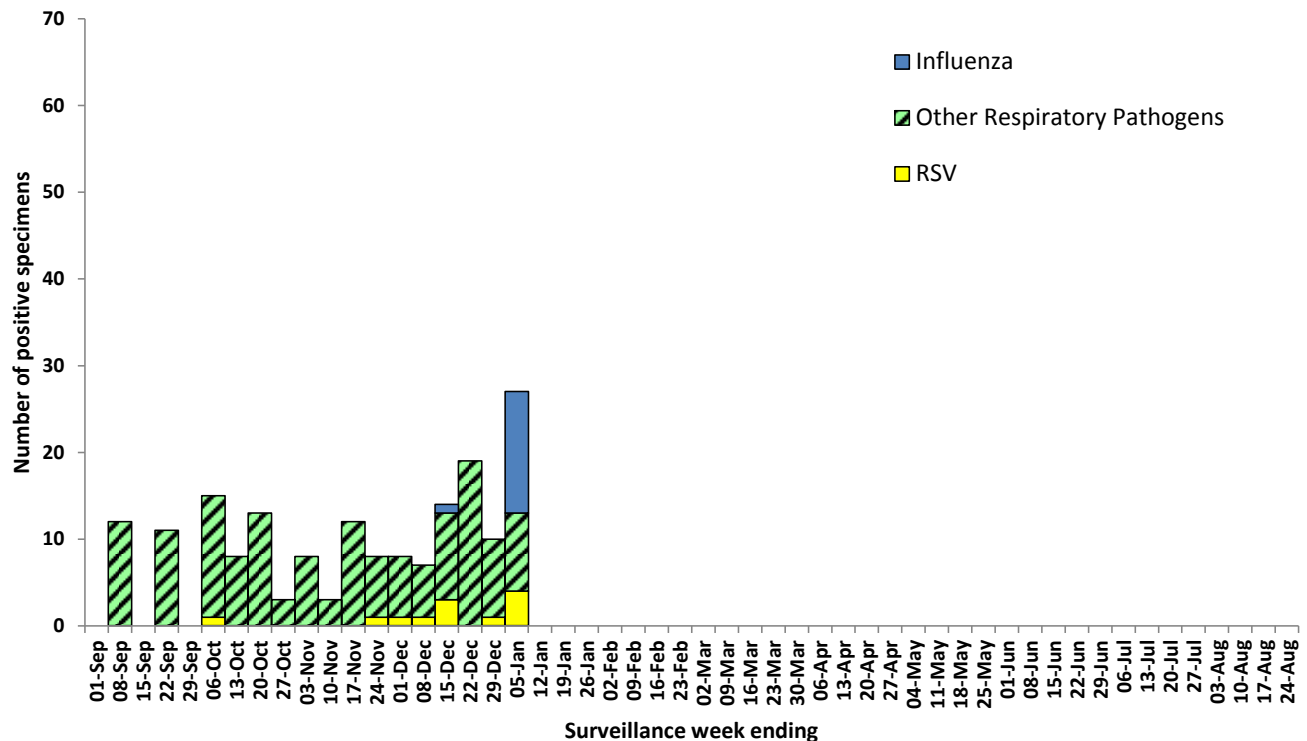


Summary of Nova Scotia surveillance findings, for the period ending January 5, 2013:

- 12 influenza A and 2 influenza B cases were reported this week.
- Other respiratory pathogen activity continues. Positive results were received for enterovirus, mycoplasma pneumoniae, pertussis, rhinovirus and RSV.
- The ILI rate for Nova Scotia for this reporting period was 1.2. **Eighty five** percent of ER sites reported ILI data this week. (This is the highest reporting since the beginning of this program. Thank you!)
- Two specimens were submitted through the sentinel swabbing program from DHA 3.
- 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 1 (December 30, 2012 to January 5, 2013)

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

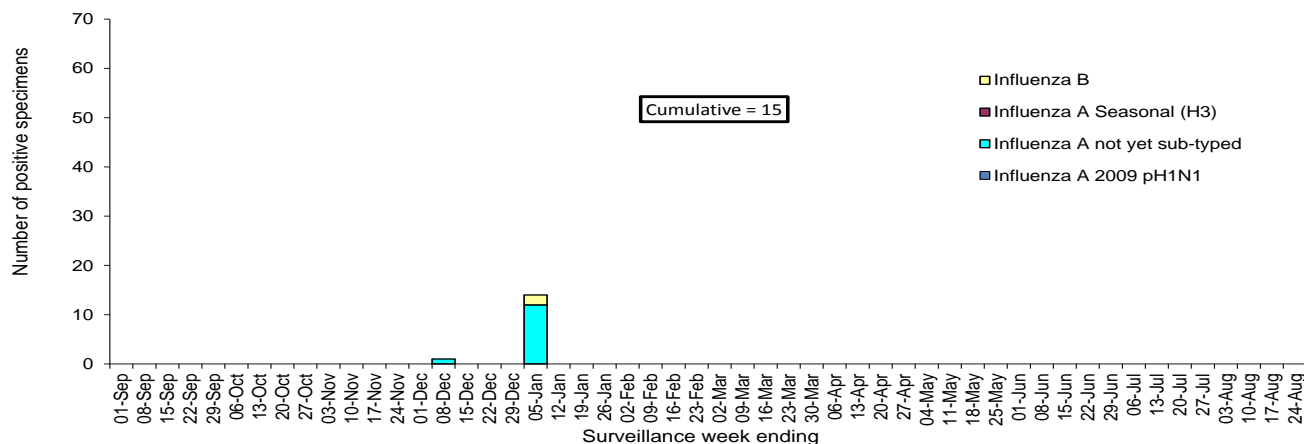
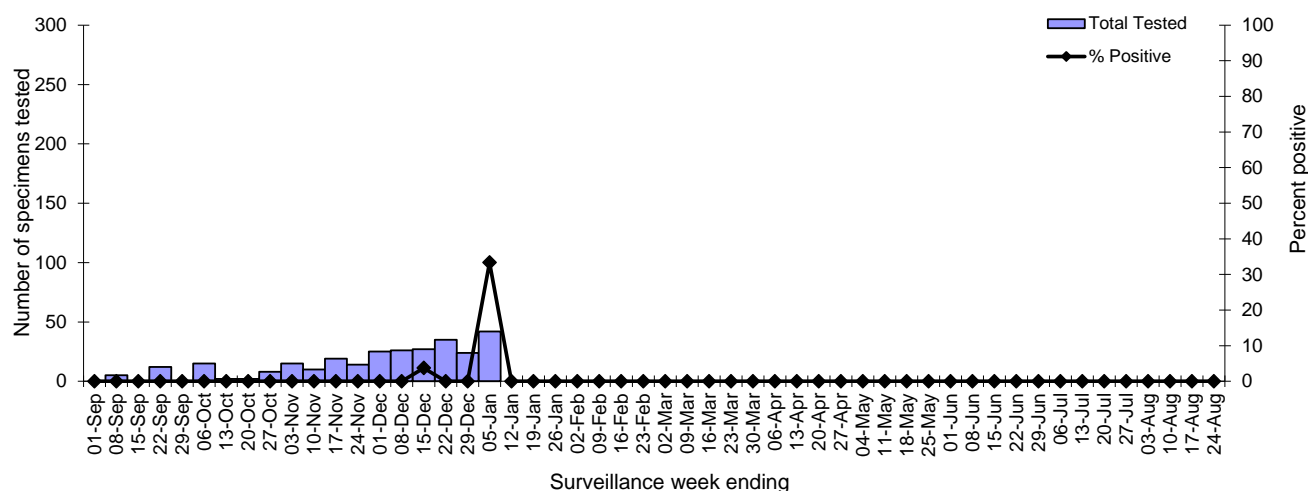


Figure 4: Number of specimens tested for influenza and percent positive, Nova Scotia Provincial Public Health Laboratory Network, 2012–2013*



*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	0	0	2	0	3	0	0	0	7	12
Cumulative 2012 - 2013	0	0	2	0	3	0	0	0	8	13
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	2	2
Cumulative 2012 - 2013	0	0	0	0	0	0	0	0	2	2

RESPIRATORY WATCH

Week 1 (December 30, 2012 to January 5, 2013)

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

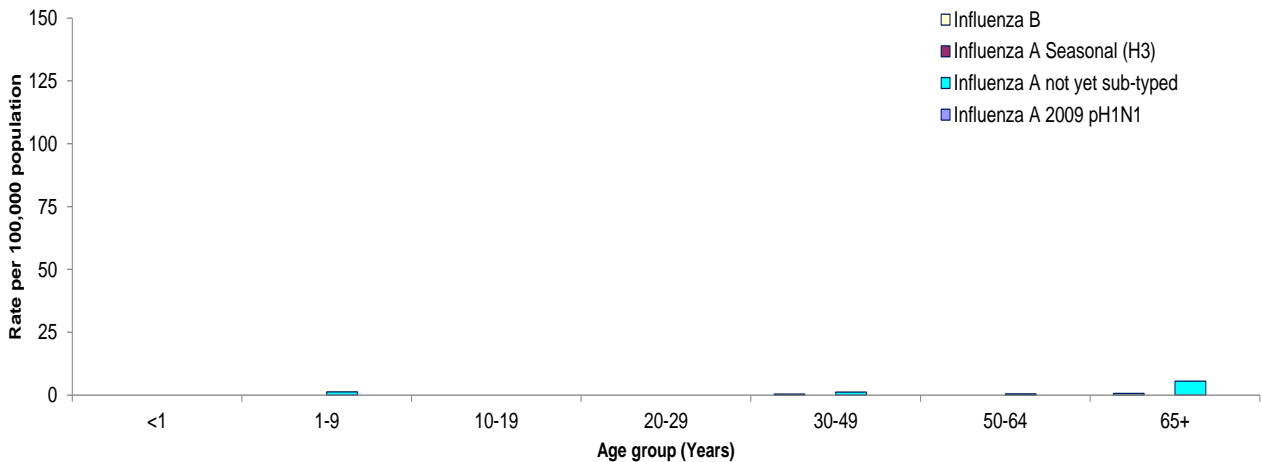


Figure 6: Influenza rate per 100,000 population by type and DHA, cumulative, Nova Scotia, 2012–2013

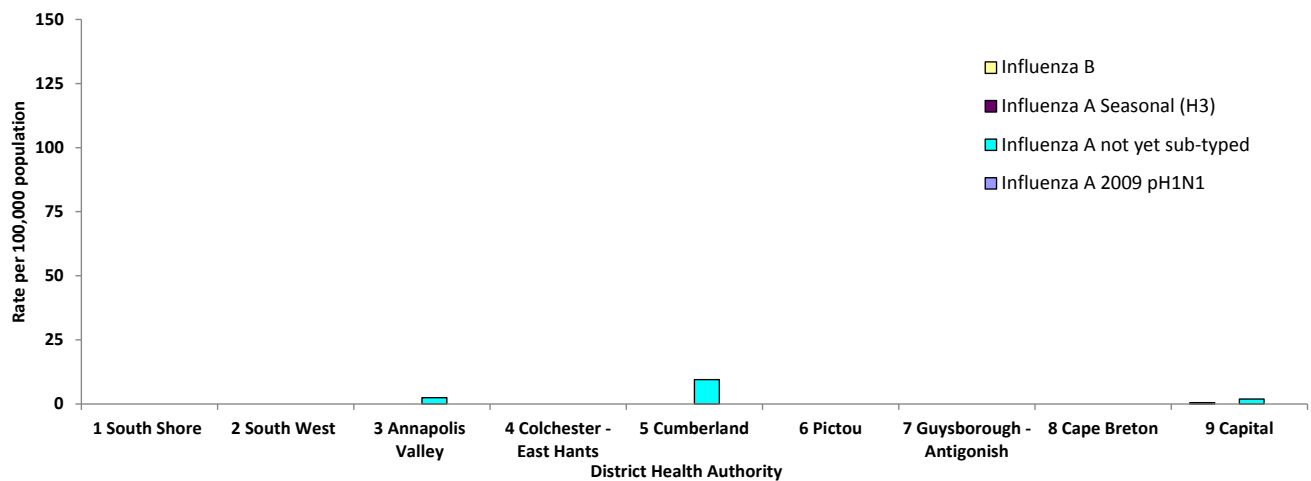


Table 2: ILI reporting from emergency departments and FluWatch sentinel physicians, and Sentinel Swabbing Specimen Submissions, Nova Scotia, 2012-2013

	ER SURVEILLANCE		SENTINEL SURVEILLANCE*		SENTINEL SWABBING	
	%ILI	Reporting ERs	%ILI	Reporting Sentinels	# Swabs	Sites Submitting Specimens
DHA 1	2.9	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	1.0	3 of 5	–	0 of 1	2	1 of 2
DHA 4	0.9	2 of 2	–	0 of 0	0	0 of 2
DHA 5	0.9	5 of 5	–	0 of 2	0	0 of 1
DHA 6	0.7	1 of 1	–	0 of 2	0	0 of 1
DHA 7	1.6	6 of 6	–	0 of 1	0	0 of 2
DHA 8	1.9	6 of 8	–	0 of 4	0	0 of 3
DHA 9	0.3	5 of 7	–	0 of 14		
IWK	4.4	1 of 1				
Nova Scotia (excl. IWK)†	0.9	34 of 40	85.0%		2	1 of 12
Nova Scotia (incl. IWK)	1.2	35 of 41	85.4%	0 of 30	0.0%	

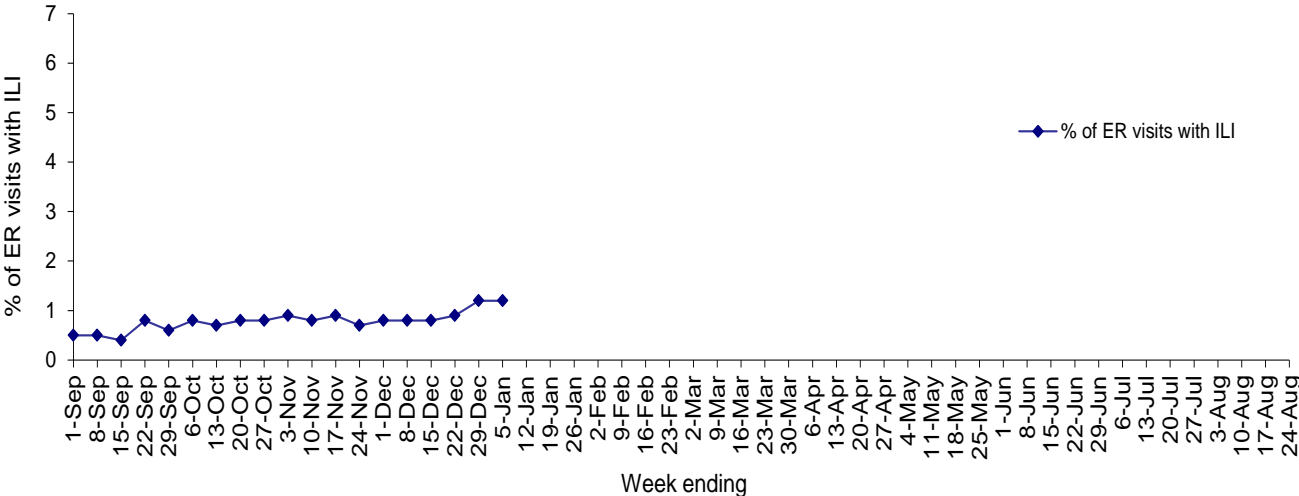
*Flu watch sentinels

†Excludes the children's ER from IWK

RESPIRATORY WATCH

Week 1 (December 30, 2012 to January 5, 2013)

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



RESPIRATORY WATCH

Week 1 (December 30, 2012 to January 5, 2013)

RESPIRATORY SYNCYTIAL VIRUS (RSV)

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

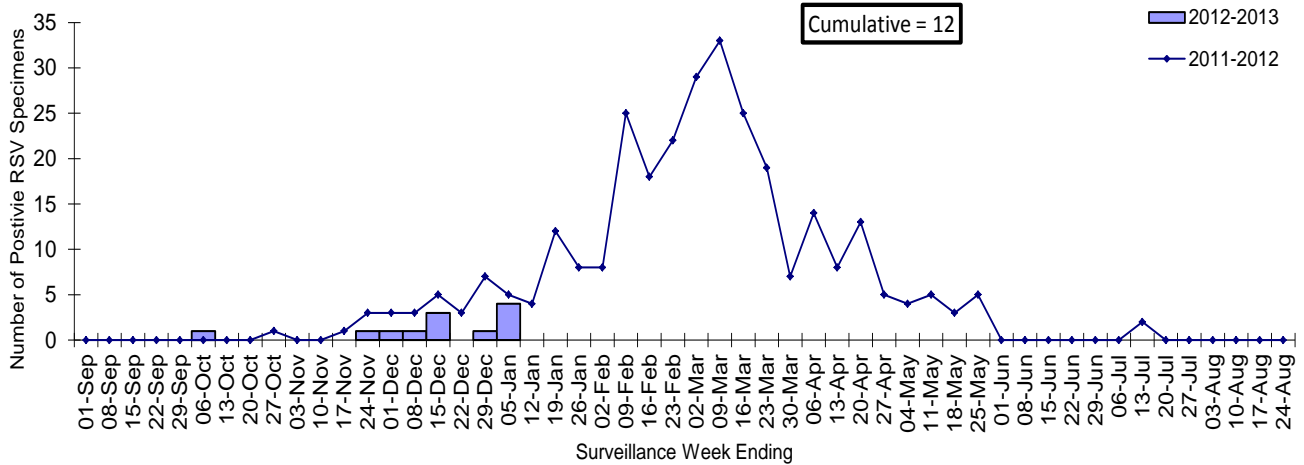
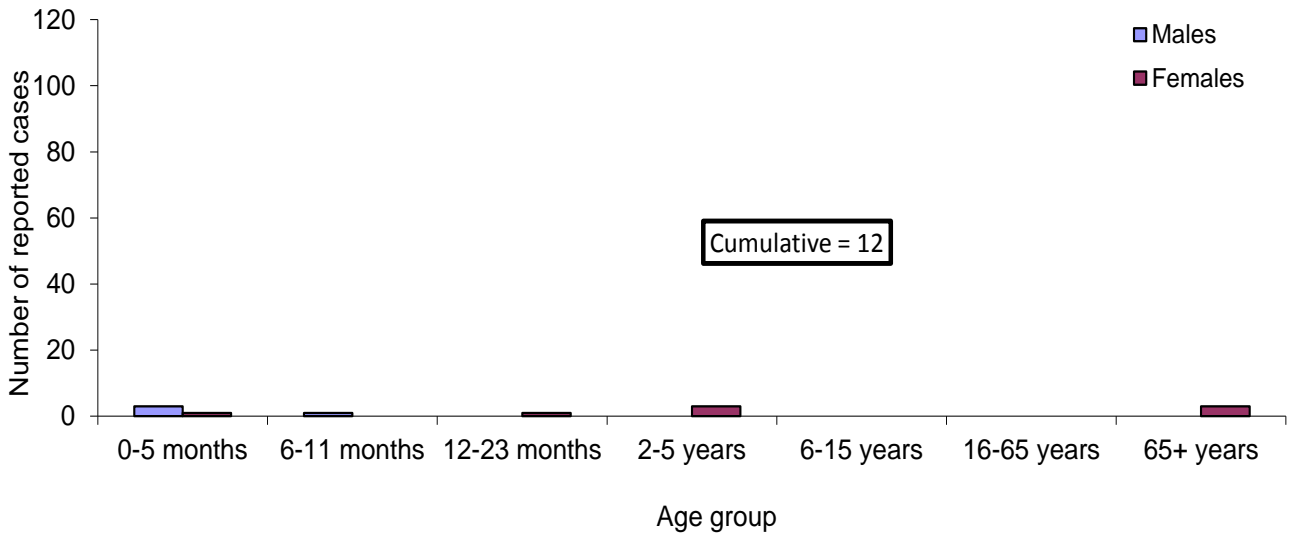


Figure 9: Cumulative number of positive RSV specimens by age group and sex, Nova Scotia, 2012-2013



RESPIRATORY WATCH

Week 1 (December 30, 2012 to January 5, 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	33	0	0.0	232	0	0.0
Bocavirus	33	0	0.0	232	1	0.4
Chlamydomphila pneumoniae	10	0	0.0	249	23	9.2
Coronavirus	33	0	0.0	232	0	0.0
Enterovirus	33	1	3.0	232	4	1.7
Metapneumovirus	33	0	0.0	232	4	1.7
Mycoplasma pneumoniae	10	2	20.0	249	55	22.1
Parainfluenza	33	0	0.0	232	11	4.7
Pertussis	11	2	18.2	136	14	10.3
Respiratory syncytial virus A	33	2	6.1	234	8	3.4
Respiratory syncytial virus B	33	0	0.0	234	0	0.0
Respiratory syncytial virus not typed	14	2	14.3	204	4	2.0
Rhinovirus	33	4	12.1	232	39	16.8

RESPIRATORY WATCH

Week 1 (December 30, 2012 to January 5, 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 1 (December 30, 2012 to January 5, 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