

Weekly Report

April 12th, 2011

The purpose of this report is to inform Public Health staff, primary care providers, acute care staff and other community practitioners about recent respiratory virus activity in the province of Alberta. Unless otherwise noted, all data presented are current as of the Saturday prior to the day the report is released.

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What's New?

- Globally, influenza activity is generally low. Activity in Europe, where influenza A (H1N1) 2009 is co-circulating with influenza B, continues to decline. Nearly all influenza A viruses and 92% of influenza B viruses characterized in Europe this season are of the same lineage as those in the current vaccine with the remaining proportion of the influenza B viruses being of the Yamagata lineage. Several countries in North Africa and the Middle East are also reporting decreasing influenza activity. In that part of the world, influenza B was the predominant strain at the beginning of the season, however Influenza A (H1N1) 2009 is now the more prevalent strain. Activity in Northern Asia also remains low, where influenza A (H3N2) is predominant.
- Caribbean, Central American and tropical Asian countries, as well as Australia are also reporting low influenza activity. Influenza continues to circulate in Sub-Saharan Africa with influenza A (H3N2), A (H1N1) 2009 and type B circulating at different levels in different countries.
- Of note, Mexico recently reported an influenza A outbreak primarily affecting the cities of Juarez and Chihuahua where over 4,000 cases of ILI and severe acute respiratory infection (SARI) were identified. Of these, 24% were confirmed with influenza A (H1N1) 2009 virus, including six deaths in healthy adults. Further genetic sequencing from 3 cases showed that the virus is similar to those currently circulating.
- In the US, influenza activity continues to decrease however the proportion of deaths attributed to pneumonia and influenza still remain above the national baseline.
- Influenza activity continues to decline in most areas of Canada but persists in parts of Alberta, Saskatchewan, Ontario, Quebec and the Atlantic provinces. Influenza B is still increasing proportionately and now accounts for nearly half of all influenza viruses detected in Canada this season.
- In Alberta, respiratory virus activity is gradually declining however some viruses (particularly influenza B) persist in some areas of the province. As of the end of last week (Apr 9, 2011), the total number of influenza cases confirmed in the province this season is 1345, of which 37.3% have been identified as influenza A (H3), 17.2% as influenza A (H1N1) 2009, 43.4% as influenza type B, and 2.0% influenza A with unresolved sub-typing.
- Since the last update, one respiratory outbreak was confirmed in a Central Zone long term care facility. It was attributed to influenza A (H3) with symptom onset occurring in Week 10 (Mar 6-12, 2011). In addition, two new respiratory outbreaks were reported last week including one in a Central Zone long term care facility and another in a Central Zone seniors' lodge. The onset of symptoms for these outbreaks occurred in Week 14 (Apr 3-9, 2011) and Week 13 (Mar 27-Apr 2, 2011), respectively. Laboratory confirmation for these outbreaks is currently pending.

If you have questions about the Alberta Respiratory Virus Surveillance Update, or any of the indicators, please contact:
AHSPublicHealthSurveillance@albertahealthservices.ca Or phone: 780-342-0210

Alberta Snapshot

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Indicators			Cumulative Counts Week 35 (starting Aug 29/10) to Week 14 (starting Apr 3/11)					Alberta
			South	Calgary	Central	Edmonton	North	
Laboratory Confirmed Cases	Number of cases with a positive respiratory specimen ¹	Adenovirus	6	42	11	81	17	157
		Coronavirus	12	71	42	115	40	280
		Human metapneumovirus (hMPV)	9	7	2	16	8	42
		Influenza A	45	197	108	259	152	761
		Influenza B	75	169	60	178	102	584
		Parainfluenza	34	105	59	209	103	510
		Respiratory syncytial virus (RSV)	120	469	206	756	310	1861
		Rhino enterovirus	108	471	187	666	330	1762
		Mixed	37	149	54	158	93	491
		Total	446	1680	729	2438	1155	6448
Outbreaks	# laboratory confirmed respiratory outbreaks ²		0	23	11	34	7	75
Influenza Immunizations	Total number of clients who have received 1 dose administered by AHS Public Health ³ (cumulative since Oct 3, 2010)		43367	193732	61924	162270	63117	524410
	The reported number of people who have received 1 dose administered by external providers (Oct 3-Dec 31, 2010) ⁴		17,639	120,408	17,789	62,481	5,075	223,392

-- Information not available

*Note: 27 specimens were positive for influenza A or B and one or more other virus type(s). These cases have been included in the influenza counts, as well as the other respective specimen type(s). They have not been included in the 'Mixed' category. Four specimens were positive for both influenza A & B.

¹ Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011).

² Source: Alberta Health and Wellness Outbreak Reporting Form (Fillable PDF) from All Zones.

³Source: AHS Zones (number does not include doses provided by external providers); includes first doses only for those that require two doses

⁴In some cases, it was not possible to separate dose 1's from dose 2's.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

SECTION 1: ALBERTA

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Summary

Respiratory virus activity indicators over the last several weeks have been showing a mixed trend in Alberta. Overall, activity does appear to be gradually declining, however some respiratory virus transmission persists in some parts of the province, particularly influenza B.

Laboratory Data (see [Figure 1A](#), [Figure 1B](#) & [Figure 1C](#), [Table 1A](#) & [Table 1B](#))

Influenza A activity continues to decline. For the second consecutive week, influenza B activity declined from the previous week. Despite this, the majority of the influenza cases confirmed in Week 14 were identified as influenza B. As of the end of last week (Apr 9, 2011), the total number of confirmed cases of influenza in the province this season is 1345 (37.3% influenza A (H3), 17.2% influenza A (H1N1) 2009, 43.4% influenza type B, and 2.0% influenza A with unresolved sub-typing). At this point in the season, the age specific rate for confirmed influenza cases (all types) in infants 0 to <2 years of age is higher than the rate in other age groups, at 18.4 per 10,000 compared to 8.4 per 10,000 or lower for all other age groups.

Outbreaks (see [Figure 1D](#))

One of the three respiratory outbreaks reported last week has been confirmed in a Central Zone long term care facility. The initial symptom onset for this outbreak occurred in Week 10 (Mar 6-12, 2011), and the attack rate was 40%. The outbreak was attributed to influenza A (H3).

In addition to the above, two respiratory outbreaks were reported since last week's report. One occurred in a Central Zone long term care facility and had a preliminary attack rate of 13%. The other occurred in a Central Zone seniors' lodge. The preliminary attack rate for this outbreak is unknown. The onset of symptoms for these two reported outbreaks occurred in Week 14 (Apr 3-9, 2011) and Week 13 (Mar 27-Apr 2, 2011), respectively. Laboratory confirmation is pending for these.

Health Link Alberta Calls (see [Figure 1E](#))

The general trend over the last several weeks for the number of calls to Health Link Alberta for cough or breathing difficulties has been declining.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

The combined number of visits and hospital admissions to emergency departments/urgent care centers (ED's) for influenza-like illness (ILI) in the City of Calgary and Edmonton Zone decreased slightly (by 7% and 2%, respectively) in Week 14 (Apr 3-9, 2011) from the previous week. These indicators have been declining over the past three weeks.

The number of emergency department visits for cough decreased by 2% in Week 14 (Apr 3-9, 2011) from the previous week, while the number of hospital admissions for this reason increased by 10%. Generally, visits to ED's for cough have been decreasing over the last several weeks, while the hospital admissions have been fluctuating.

Sentinel Physician Office Visits

The combined percentage of ILI- and LRTI-related visits of all visits to sentinel physician offices in Alberta increased by 45% in Week 13 (Mar 27-Apr 9, 2011) compared to the previous week. This indicator has been fluctuating in recent weeks.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

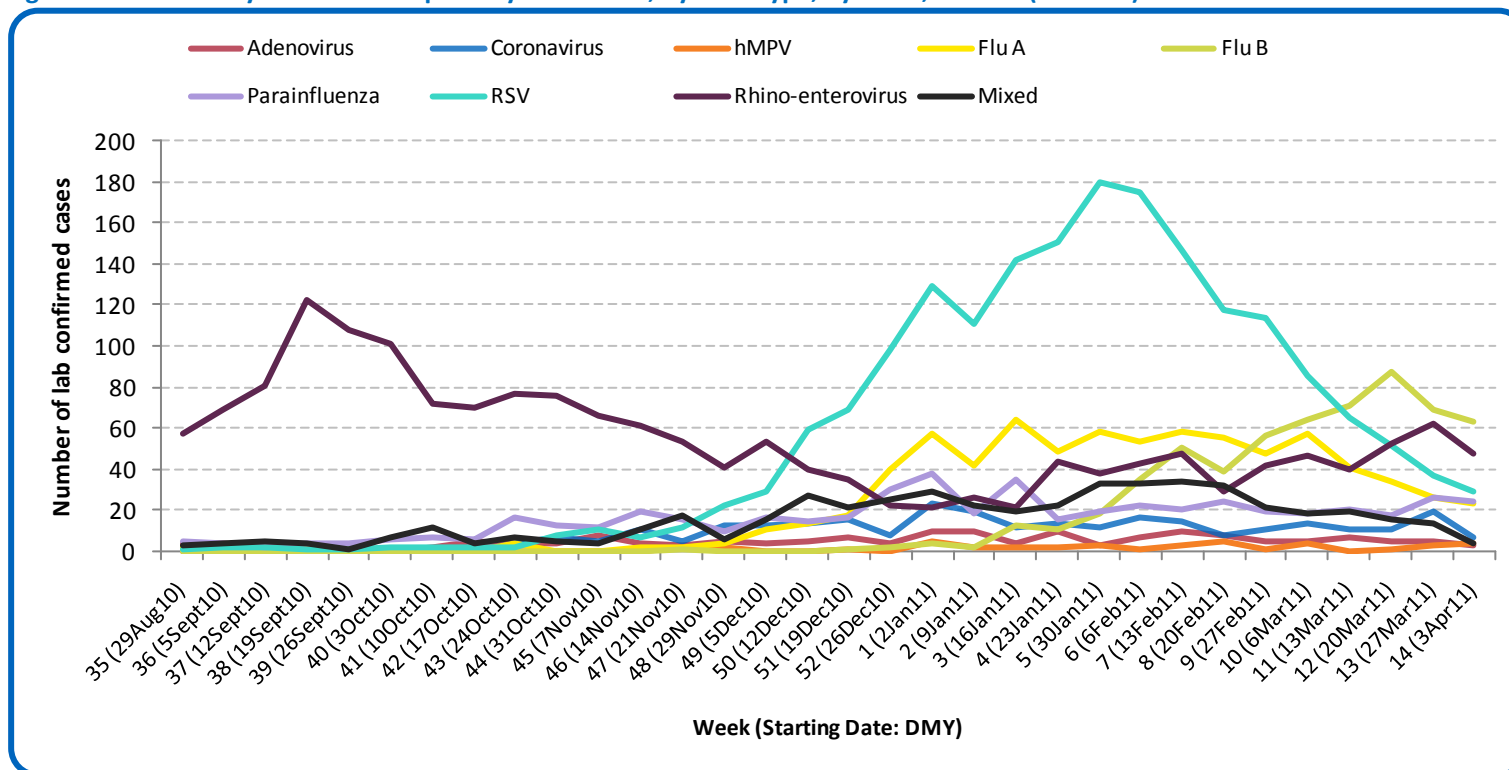
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Figure 1A: Laboratory confirmed respiratory virus cases, by virus type, by week, Alberta (2010-11)



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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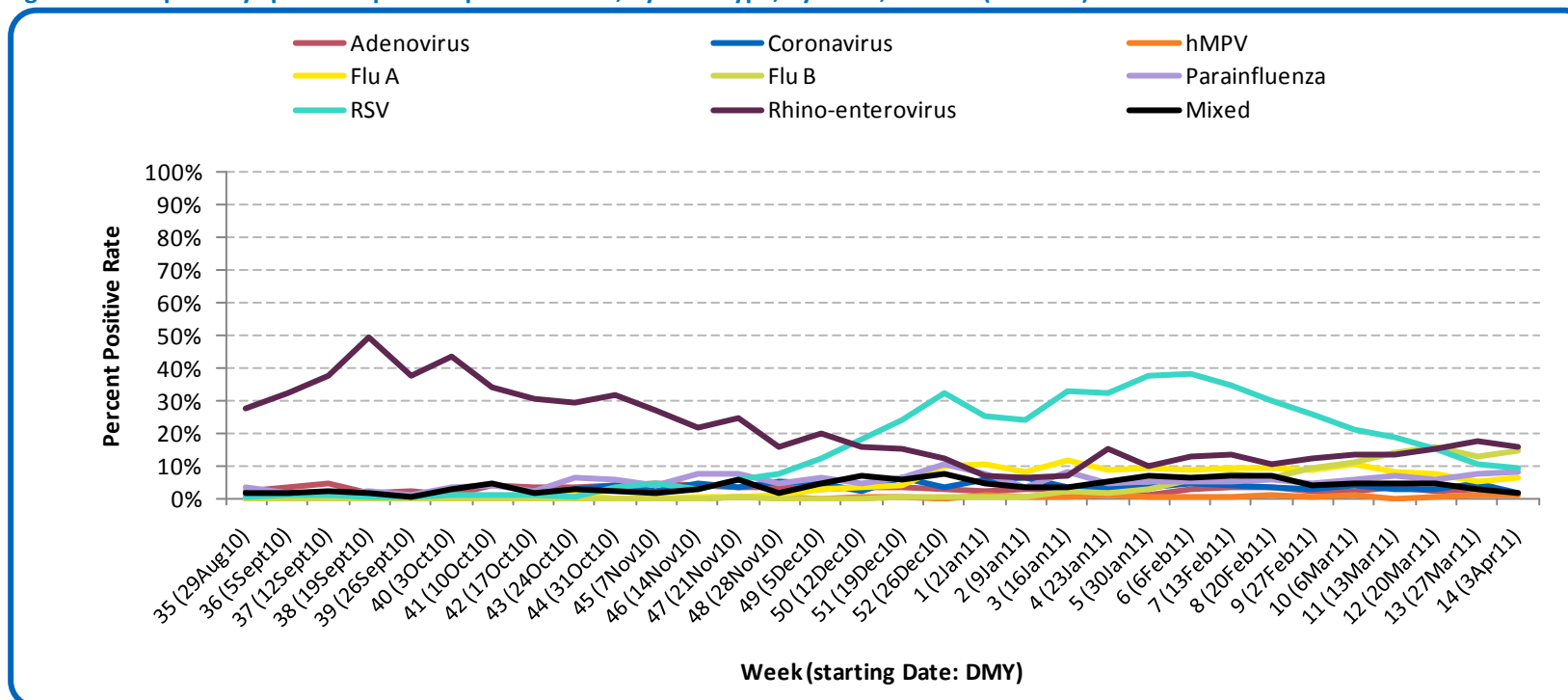
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Figure 1B: Respiratory specimen percent positive rates, by virus type, by week, Alberta (2010-11)



Sources: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 9, 2011).

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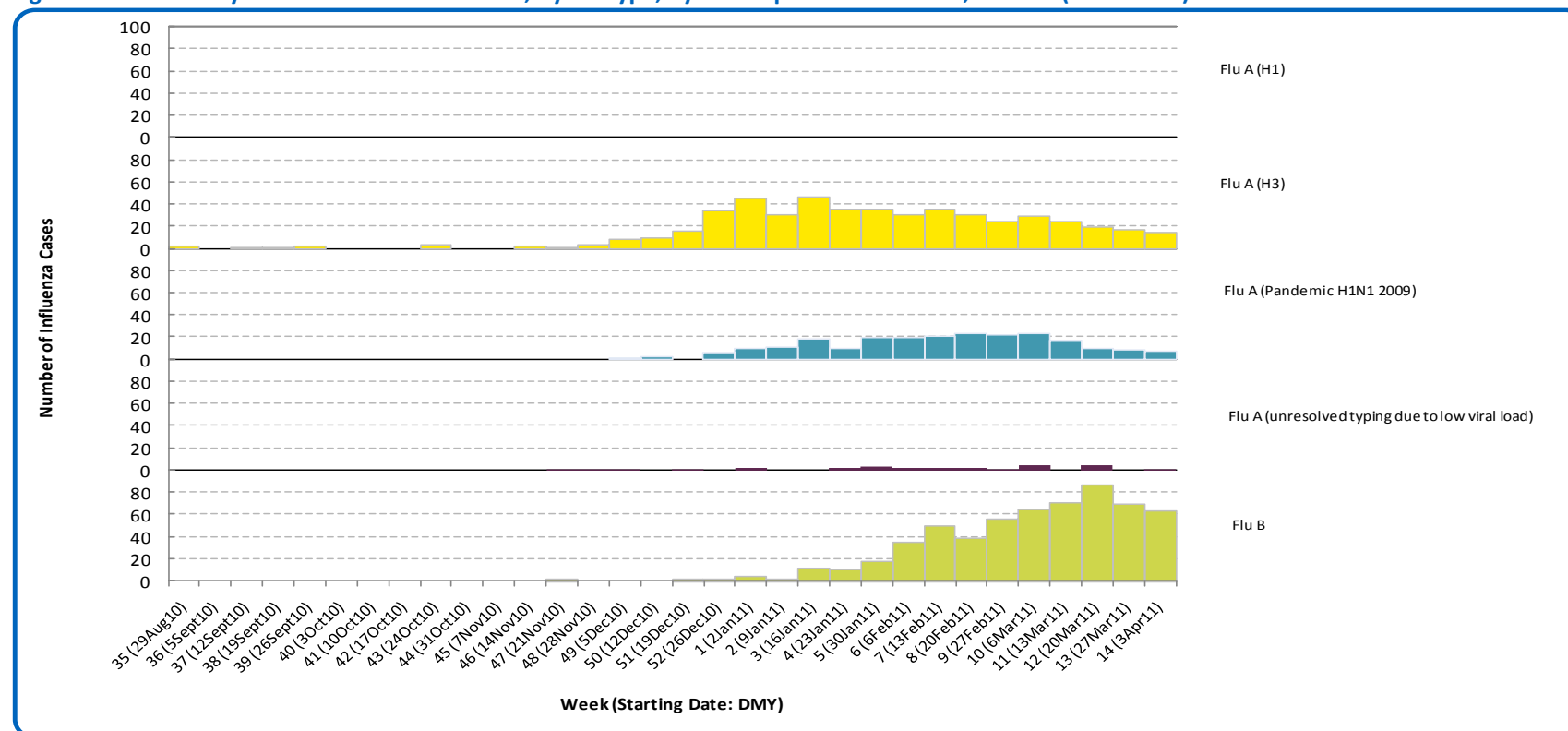
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Figure 1C: Laboratory confirmed Influenza cases, by subtype, by week specimen received, Alberta (2010-2011)



*Note: 27 specimens were positive for influenza A or B and one or more other virus type(s). Four specimens were positive for both influenza A & B.

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011).

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Table 1A: New influenza cases (and age specific rates), by subtype, by age group, Alberta (Week 14: Apr 3-9, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	1	0.1	0	0.0	0	0.0	6	0.6	7	0.7
2 to <5 years	0	0.0	1	0.1	0	0.0	0	0.0	12	0.8	13	0.9
5 to <9 years	0	0.0	2	0.1	0	0.0	0	0.0	8	0.4	10	0.6
9 to <18 years	0	0.0	0	0.0	1	<0.1	0	0.0	8	0.2	9	0.2
18 to <65 years	0	0.0	5	<0.1	6	<0.1	1	<0.1	28	0.1	40	0.2
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
75+ years	0	0.0	6	0.3	0	0.0	0	0.0	1	0.1	7	0.4
Total	0	0.0	15	<0.1	7	<0.1	1	<0.1	63	0.2	86	0.2

Table 1B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Alberta (Aug 29, 2010 – Apr 9, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	74	7.2	30	2.9	5	0.5	81	7.8	190	18.4
2 to <5 years	0	0.0	40	2.7	15	1.0	2	0.1	67	4.5	124	8.4
5 to <9 years	0	0.0	36	2.0	10	0.6	2	0.1	87	4.8	135	7.5
9 to <18 years	0	0.0	31	0.7	18	0.4	3	0.1	130	3.1	182	4.4
18 to <65 years	0	0.0	208	0.9	156	0.6	12	<0.1	187	0.8	563	2.3
65 to <75 years	0	0.0	21	1.0	3	0.1	0	0.0	16	0.7	40	1.8
75+ years	0	0.0	92	5.0	0	0.0	3	0.2	16	0.9	111	6.0
Total	0	0.0	502	1.4	232	0.6	27	0.1	584	1.6	1345	3.6

Source for Table 1A & 1B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011).

Population data values used to calculate rates are for June 30, 2009 and are estimated using actual population values from the Alberta Health Care Insurance Plan (AHCIP) Registration File as of March 31, 2009.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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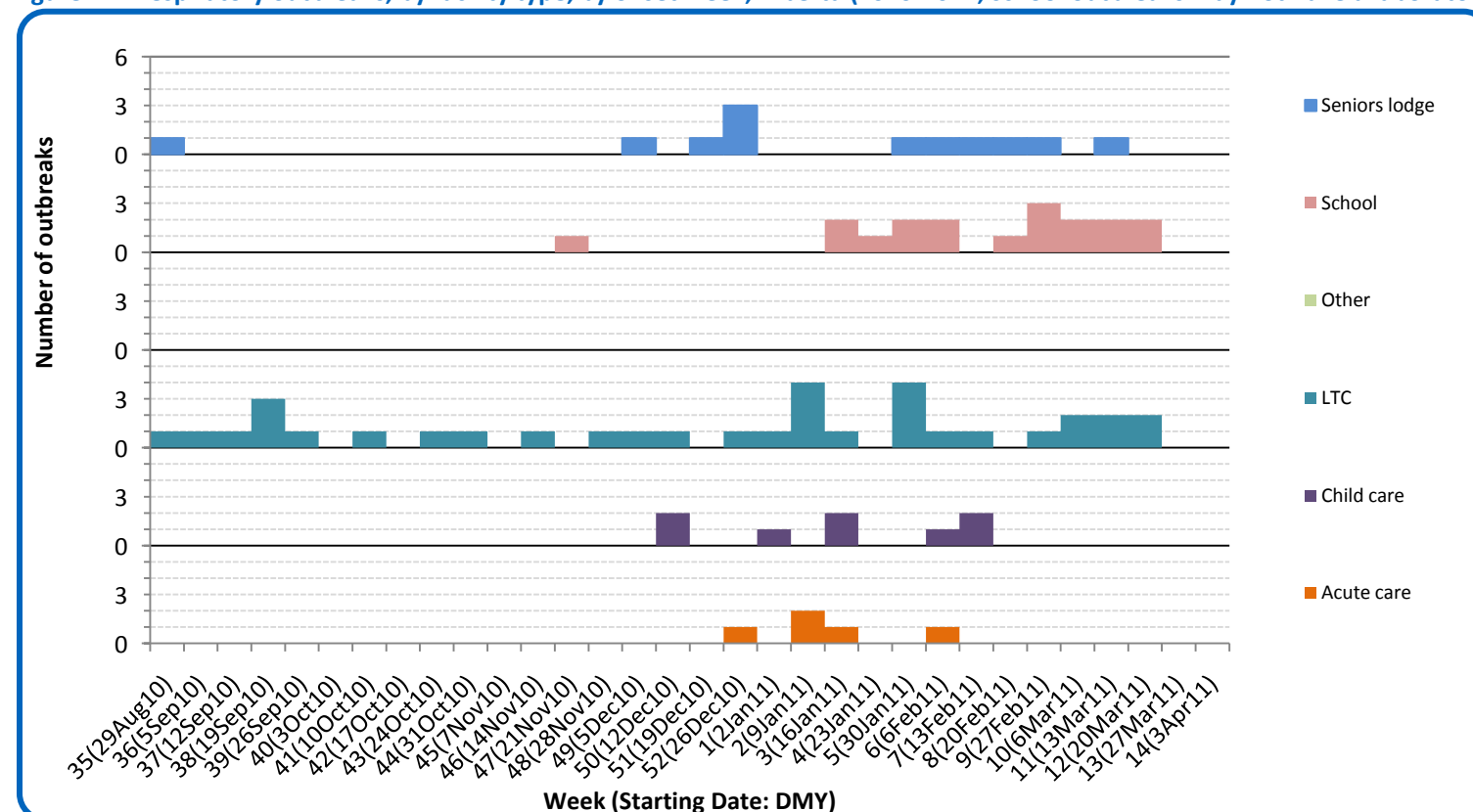
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Figure 1D: Respiratory outbreaks, by facility type, by onset week, Alberta (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 9, 2011. LTC stands for long term care facility.
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

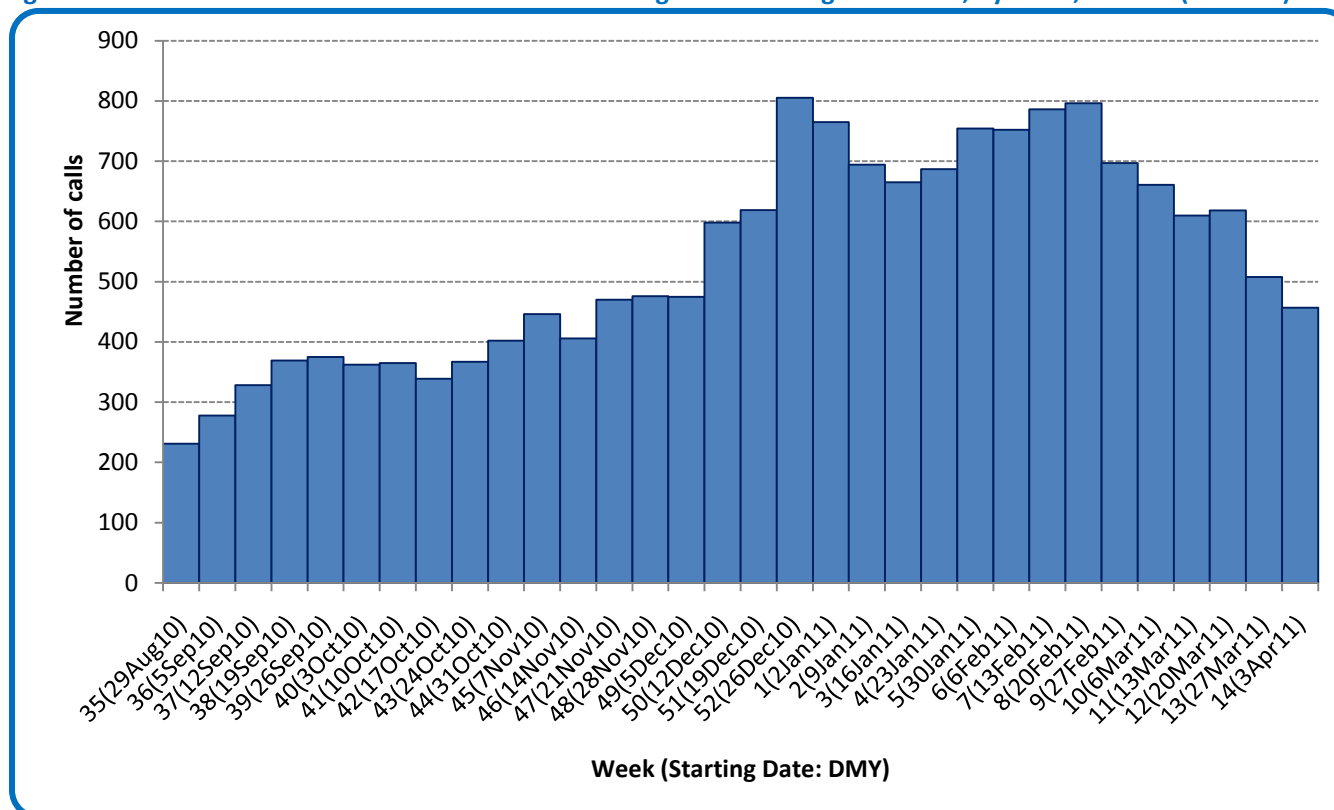
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Figure 1E: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, Alberta (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 9, 2011.
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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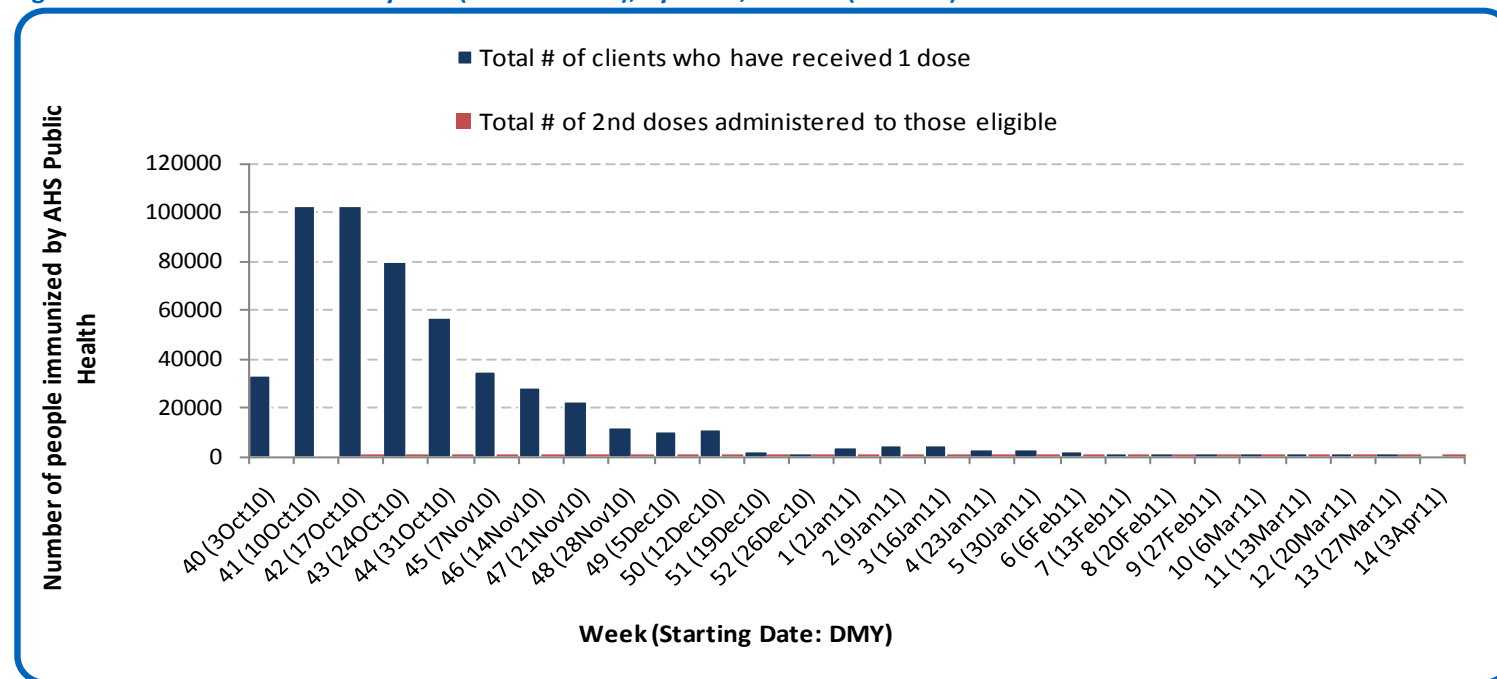
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Figure 1F: Number immunized by AHS (Public Health), by week, Alberta (2010-11)



Source: AHS Zones (doses do not include those delivered by external providers)

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

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An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Table 1C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, Alberta (2010-11)

Priority Group		# Immunized (Week 14 – Apr 3-Apr 9, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		4	2,647
Health care workers		11	19,083
Pregnant women		4	4,758
Residents of long term care		0	4,842
65 years of age and over		12	146,806
All children 6 months up to and including 23 months*	Dose #1	214	27,854
	Dose #2	172	9,419
All children 24 months up to and including 59 months*	Dose #1	43	25,619
	Dose #2	13	1,551
High risk: 5 years up to and including 8 years*	Dose #1	10	5,869
	Dose #2	1	157
High risk: 9 years up to and including 64 years		34	56,096
Healthy: 5 years up to and including 8 years*	Dose #1	33	18,991
	Dose #2	3	658
Healthy: 9 years up to and including 64 years		164	211,845
Total number of clients who have received 1 dose		529	524,410
Total number of 2nd doses administered to those eligible*		189	11,785

Source: AHS Zones (doses do not include those delivered by external providers)

*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

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Table 1D: Influenza immunizations delivered by external partners, by priority group, Alberta (Oct 3-Dec 31, 2010)

Priority Group		# Immunized Oct 3-Dec 31, 2010
Long term care staff		5,668
Health care workers		31,866
Pregnant women		1,640
Residents of long term care		6,951
65 years of age and over		52,176
All children 6 months up to and including 23 months*	Dose #1	965
	Dose #2**	48
All children 24 months up to and including 59 months*	Dose #1	1,043
	Dose #2**	27
High risk: 5 years up to and including 8 years*	Dose #1	1,685
	Dose #2**	2
High risk: 9 years up to and including 64 years		29,034
Healthy: 5 years up to and including 8 years*	Dose #1	2,226
	Dose #2**	5
Healthy: 9 years up to and including 64 years		90,138
Total number of clients who have received 1 dose		223,392
Total number of 2nd doses administered to those eligible*		82

Source: AHS Zones (zones are required to report doses of seasonal influenza vaccine administered by community and other providers (e.g. physicians, pharmacists, LTC, WHS/OHS programs) twice during the influenza season. These numbers are from the first report (for doses delivered from Oct 3 to Dec 31, 2010). The remaining doses will be reported at a later date.

*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

** In some cases, it was not possible to separate dose 1's from dose 2's. Therefore, the dose 1 category may contain some 2nd doses.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

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SECTION 2: ZONE 1 - SOUTH

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Summary

Respiratory virus activity has shown a mixed trend in South Zone in recent weeks, although the majority of the activity appears to be due to influenza B.

Laboratory Data (see [Figure 2A](#), [Figure 2B](#), [Figure 2C](#), [Table 2A](#) & [Table 2B](#))

Influenza B is the predominant virus being confirmed in South Zone, although the number of cases confirmed decreased slightly in Week 14 (Apr 3-9, 2011) from the previous week. As of the end of last week (Apr 9, 2011), the total number of laboratory confirmed cases of influenza in this part of the province this season is 120. The age specific rate for confirmed influenza in South zone is highest for infants under the age of 2 years and children between the ages of 2 to less than 5 years, at 10.8 per 10,000 and 14.2 per 10,000, respectively.

Outbreaks

There have been no respiratory outbreaks reported in South Zone this season.

Health Link Alberta Calls (see [Figure 2D](#))

The number of calls to Health Link Alberta for cough or breathing difficulties in the South Zone decreased by 44% from Week 13 (Mar 27-Apr 2, 2011) to Week 14 (Apr 3-9, 2011). This indicator has been fluctuating over the last several weeks.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

This information is not available for South Zone.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

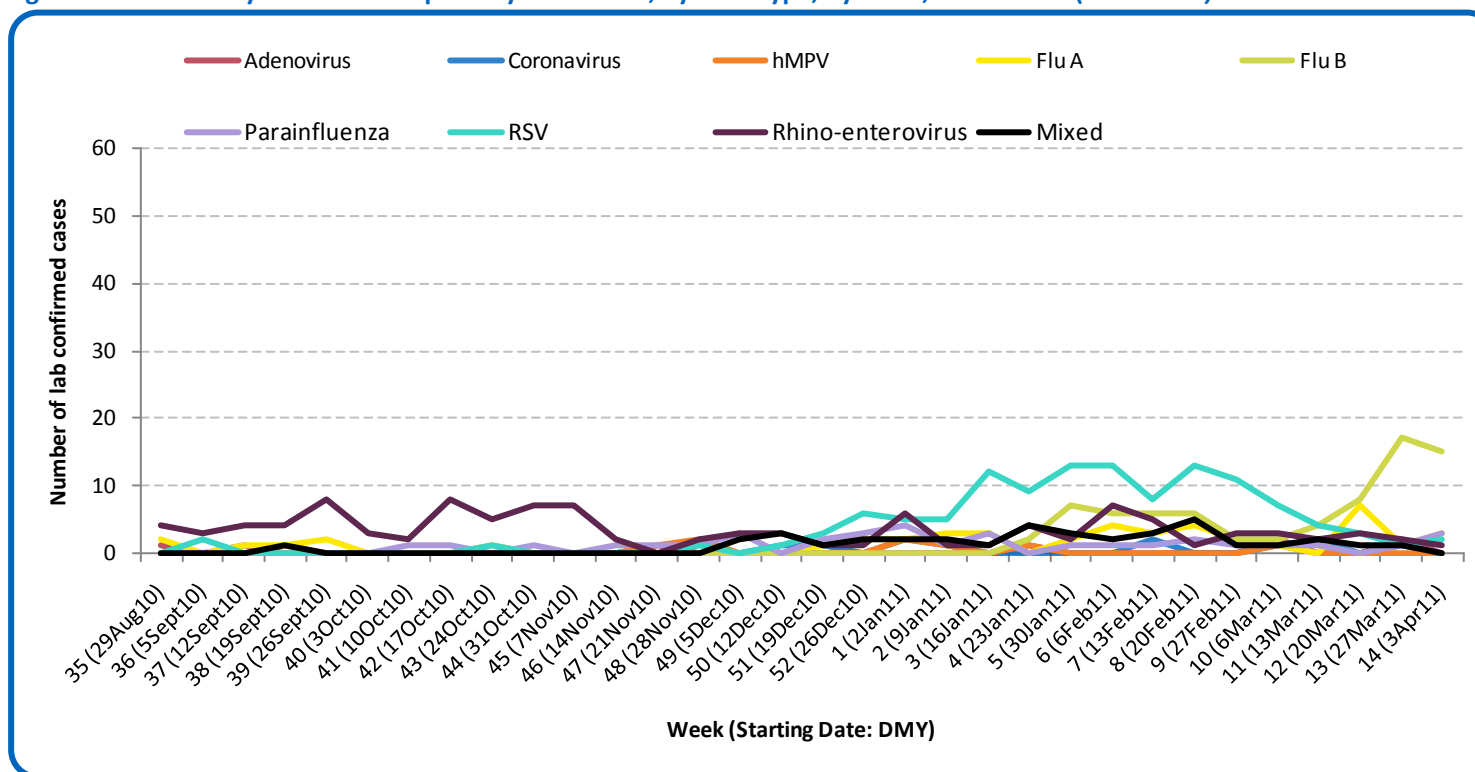
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Figure 2A: Laboratory confirmed respiratory virus cases, by virus type, by week, South Zone (2010-2011)



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

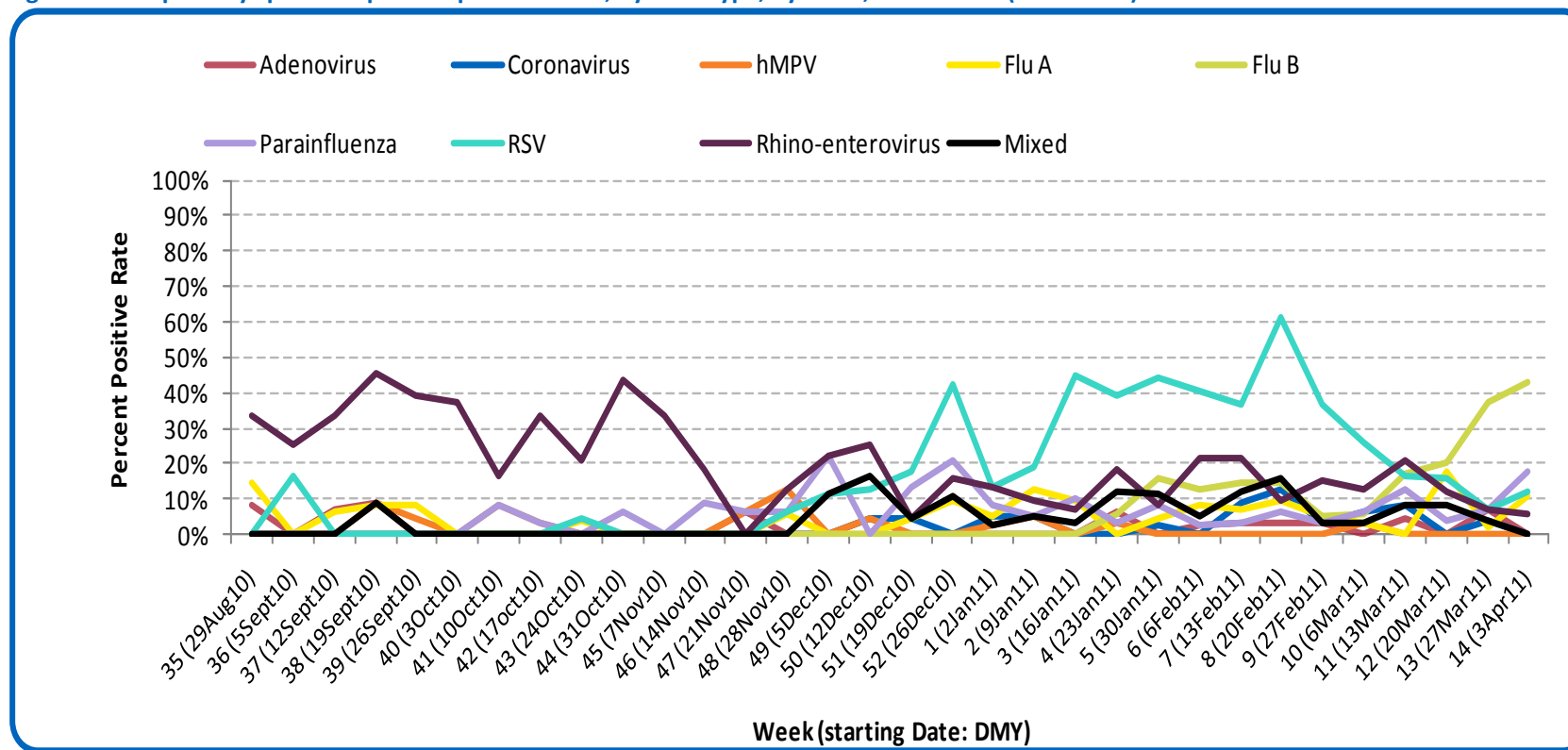
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Figure 2B: Respiratory specimen percent positive rates, by virus type, by week, South Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 9, 2011)

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

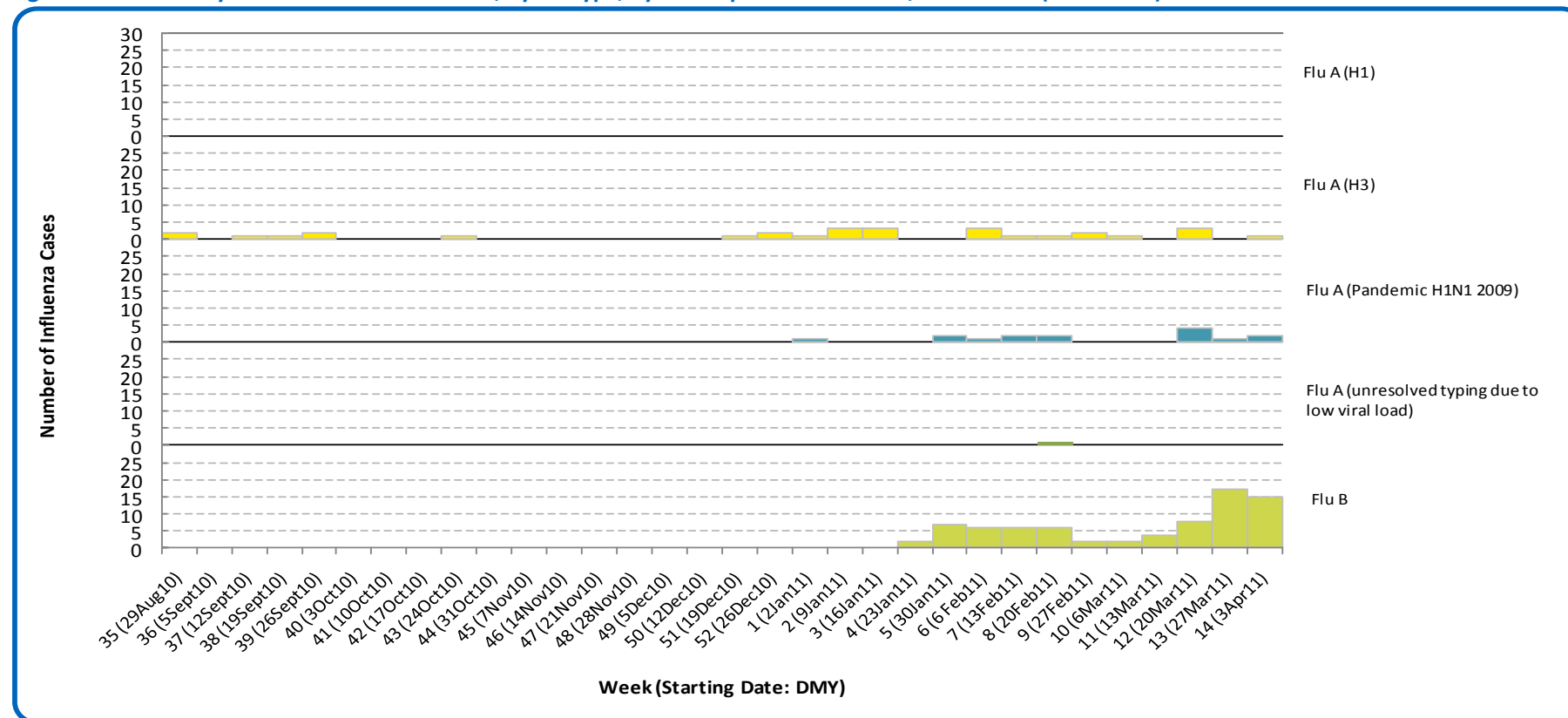
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Figure 2C: Laboratory confirmed influenza cases, by subtype, by week specimen received, South Zone (2010-2011)



Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011).

*Note: Two specimens were positive for influenza A or B and one other virus type. One specimen was positive for both influenza A & B.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

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Table 2A: New influenza cases (and age specific rates), by subtype, by age group, South Zone (Week 14: Apr 3-9, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	1	1.2	0	0.0	0	0.0	0	0.0	1	1.2
2 to <5 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.8	1	0.8
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	3	2.1	3	2.1
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	5	1.5	5	1.5
18 to <65 years	0	0.0	0	0.0	2	0.1	0	0.0	6	0.3	8	0.5
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
75+ years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total	0	0.0	1	<0.1	2	0.1	0	0.0	15	0.5	18	0.6

Table 2B: Cumulative influenza cases (and age specific rates), by subtype, by age group, South Zone (Aug 29, 2010–Apr 9, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	4	4.8	0	0.0	0	0.0	5	6.0	9	10.8
2 to <5 years	0	0.0	5	4.2	2	1.7	0	0.0	10	8.3	17	14.2
5 to <9 years	0	0.0	1	0.7	0	0.0	0	0.0	8	5.5	9	6.2
9 to <18 years	0	0.0	0	0.0	1	0.3	0	0.0	21	6.2	22	6.5
18 to <65 years	0	0.0	18	1.0	10	0.6	1	0.1	28	1.6	57	3.3
65 to <75 years	0	0.0	0	0.0	2	1.0	0	0.0	2	1.0	4	2.1
75+ years	0	0.0	1	0.5	0	0.0	0	0.0	1	0.5	2	1.1
Total	0	0.0	29	1.0	15	0.5	1	<0.1	75	2.7	120	4.3

Source for Tables 2A & 2B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011).

Population data values used to calculate rates are for June 30, 2009 and are estimated using actual population values from the Alberta Health Care Insurance Plan (AHCIP) Registration File as of March 31, 2009.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

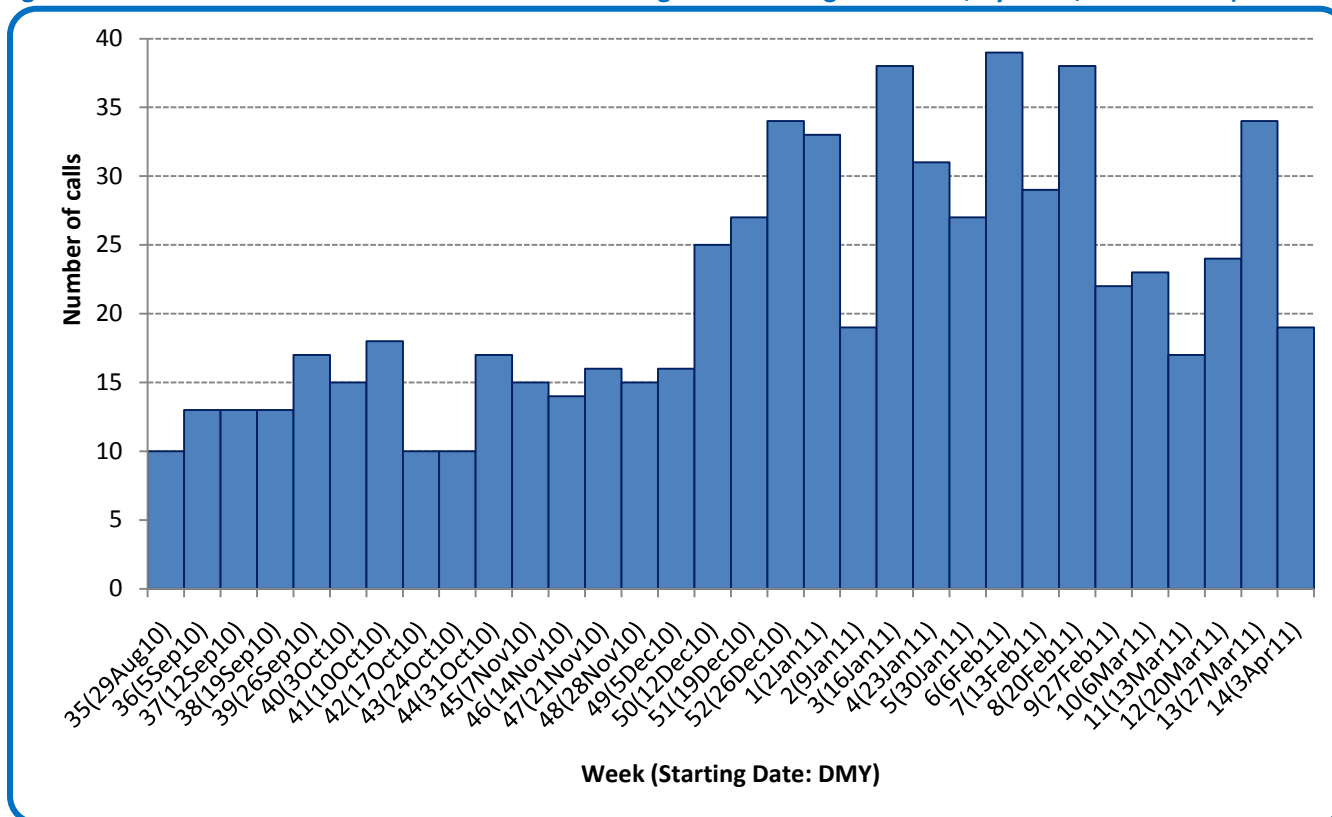
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 2D: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, South Zone (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 9, 2011.
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

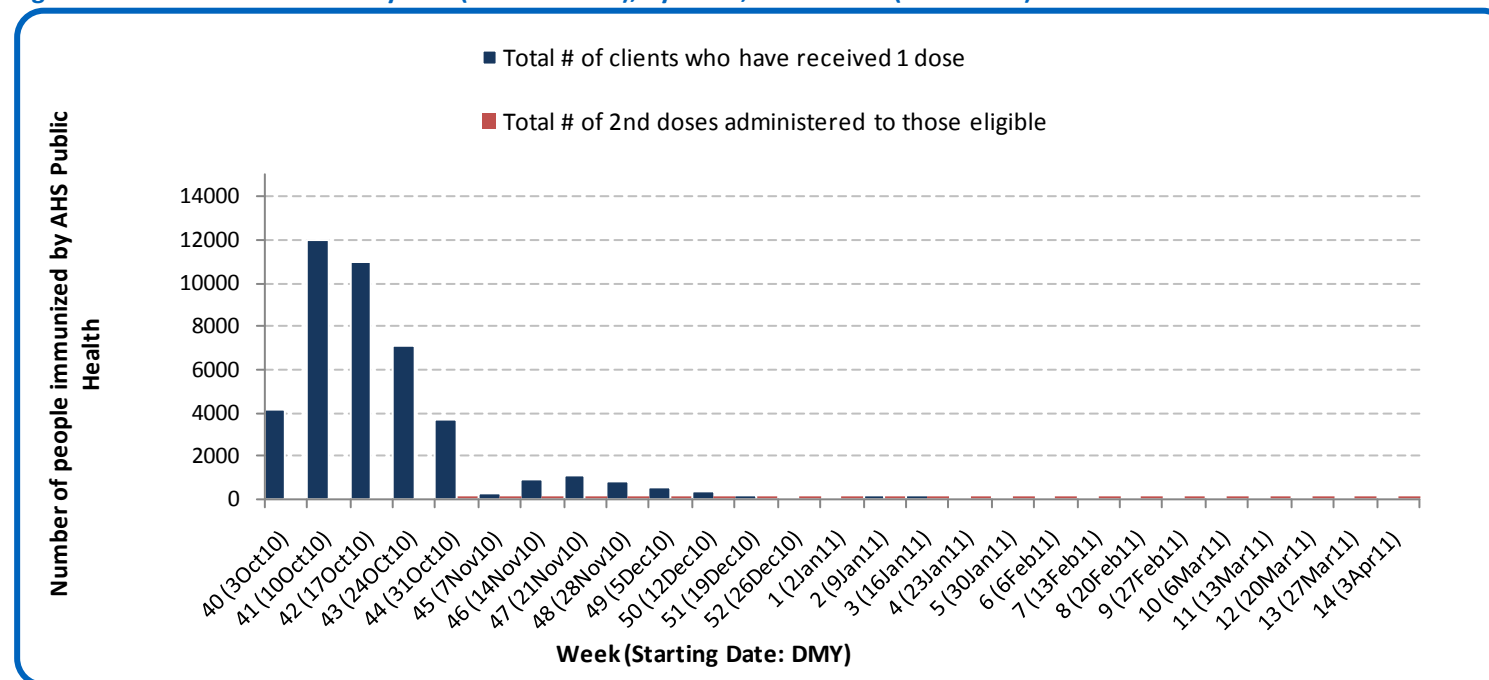
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 2E: Number immunized by AHS (Public Health), by week, South Zone (2010-2011)



Source: AHS Zones (doses do not include those delivered by external providers)

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Table 2C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, South Zone (2010-2011)

Priority Group		# Immunized (Week 14 – Apr 3-Apr 9, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		1	618
Health care workers		3	1,573
Pregnant women		0	302
Residents of long term care		0	730
65 years of age and over		1	15,604
All children 6 months up to and including 23 months*	Dose #1	18	1,639
	Dose #2	11	679
All children 24 months up to and including 59 months*	Dose #1	8	2,005
	Dose #2	3	138
High risk: 5 years up to and including 8 years*	Dose #1	1	507
	Dose #2	0	22
High risk: 9 years up to and including 64 years		20	4,130
Healthy: 5 years up to and including 8 years*	Dose #1	4	1,517
	Dose #2	1	67
Healthy: 9 years up to and including 64 years		8	14,742
Total number of clients who have received 1 dose		64	43,367
Total number of 2nd doses administered to those eligible*		15	906

Source: AHS Zones (doses do not include those delivered by external providers)

*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Table 2D: Influenza immunizations delivered by external partners, by priority group, South Zone (Oct 3-Dec 31, 2010)

Priority Group		# Immunized Oct 3-Dec 31, 2010
Long term care staff		558
Health care workers		3,288
Pregnant women		205
Residents of long term care		570
65 years of age and over		4,248
All children 6 months up to and including 23 months*	Dose #1	9
	Dose #2**	0
All children 24 months up to and including 59 months*	Dose #1	11
	Dose #2**	0
High risk: 5 years up to and including 8 years*	Dose #1	41
	Dose #2**	0
High risk: 9 years up to and including 64 years		2,188
Healthy: 5 years up to and including 8 years*	Dose #1	14
	Dose #2**	0
Healthy: 9 years up to and including 64 years		6,507
Total number of clients who have received 1 dose		17,639
Total number of 2nd doses administered to those eligible*		0

Source: AHS Zones (zones are required to report doses of seasonal influenza vaccine administered by community and other providers (e.g. physicians, pharmacists, LTC, WHS/OHS programs) twice during the influenza season. These numbers are from the first report (for doses delivered from Oct 3 to Dec 31, 2010). The remaining doses will be reported at a later date.

*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

** In some cases, it was not possible to separate dose 1's from dose 2's. Therefore, the dose 1 category may contain some 2nd doses.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

SECTION 3: ZONE 2 - CALGARY

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Summary

Despite an increase in the number of confirmed cases of influenza B in Week 14 (Apr 3-9, 2011) from the previous week, most other indicators show that respiratory virus activity in Calgary Zone generally appears to be declining.

Laboratory Data (see [Figure 3A](#), [Figure 3B](#), [Figure 3C](#), [Table 3A](#) & [Table 3B](#))

The number of confirmed cases of influenza B increased in Week 14 (Apr 3-9, 2011) from the previous week. This is the first increase seen in several weeks for this virus in Calgary Zone. Since the beginning of the season, a total of 366 cases of influenza have been confirmed in Calgary Zone (38.0% have been identified as influenza A (H3), 13.1% as influenza A (H1N1) 2009, 46.2% as influenza type B and 2.7% as influenza A with unresolved sub-typing). Compared to the age specific rates in other age groups, the rate for confirmed influenza is highest among infants less than 2 years of age at 11.4 per 10,000.

Outbreaks (see [Figure 3D](#))

There have been no new outbreaks confirmed or reported in Calgary Zone since the last update.

Health Link Alberta Calls (see [Figure 3E](#))

The number of calls to Health Link Alberta for cough or breathing difficulties in the Calgary Zone continues on decreasing trend which started at the end of February, 2011.

Emergency Department/Urgent Care Center Visits and Hospital Admissions (See [Figure 3F](#))

The number of emergency department visits and hospital admissions for influenza-like illness (ILI) at the six urban emergency departments/urgent care centers (ED's) in the City of Calgary decreased by 16% and 33%, respectively, in Week 14 (Apr 3-9, 2011) compared to the previous week. These indicators have been fluctuating in recent weeks, but appear to be decreasing overall.

The number of visits to emergency departments and the number of hospital admissions for patients with cough symptoms decreased by 17% and 27%, respectively, in Week 14 (Apr 3-9, 2011) compared to the previous week. While the number of hospital admissions has fluctuated in recent weeks, the number of visits to emergency departments for cough has been declining consistently.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

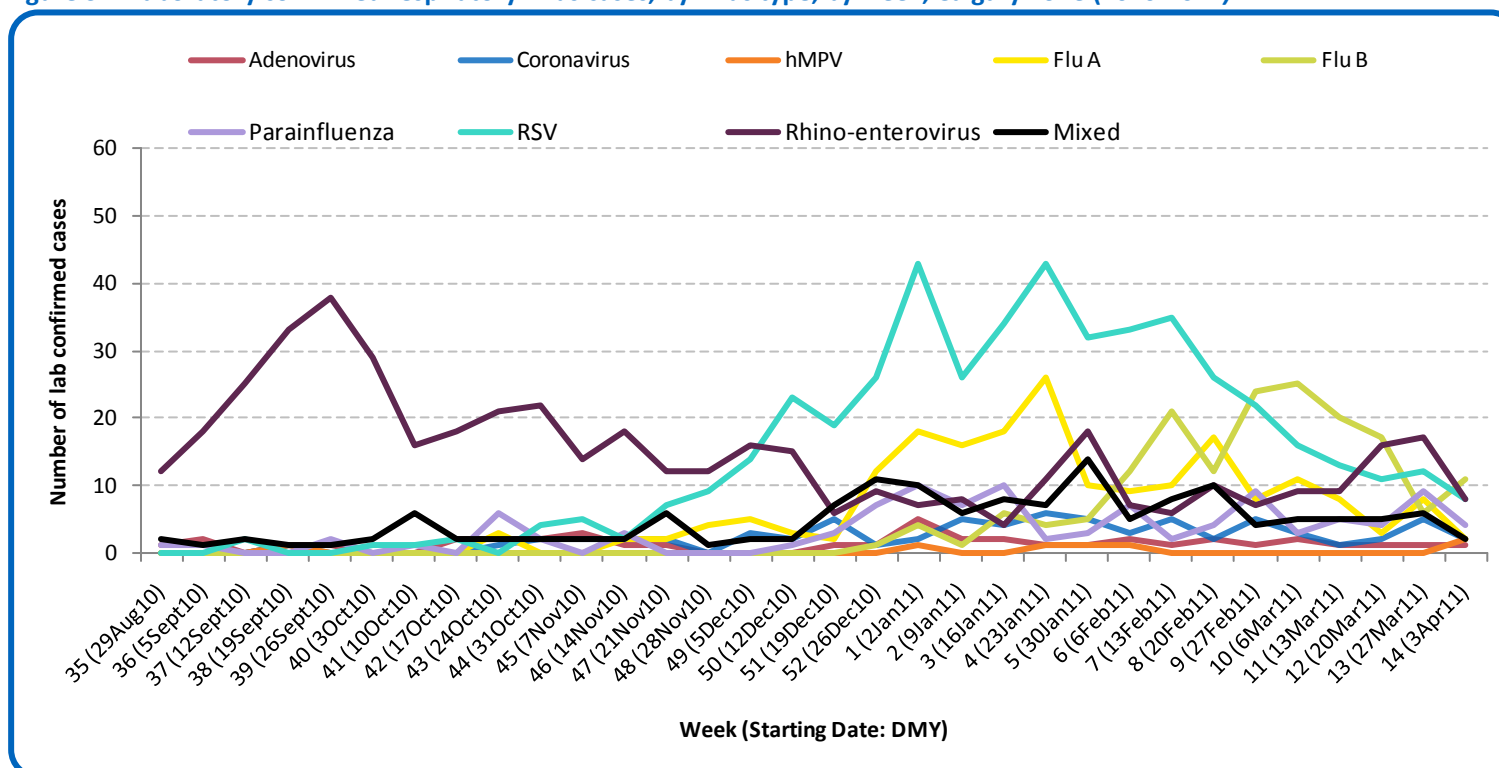
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 3A: Laboratory confirmed respiratory virus cases, by virus type, by week, Calgary Zone (2010-2011)



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

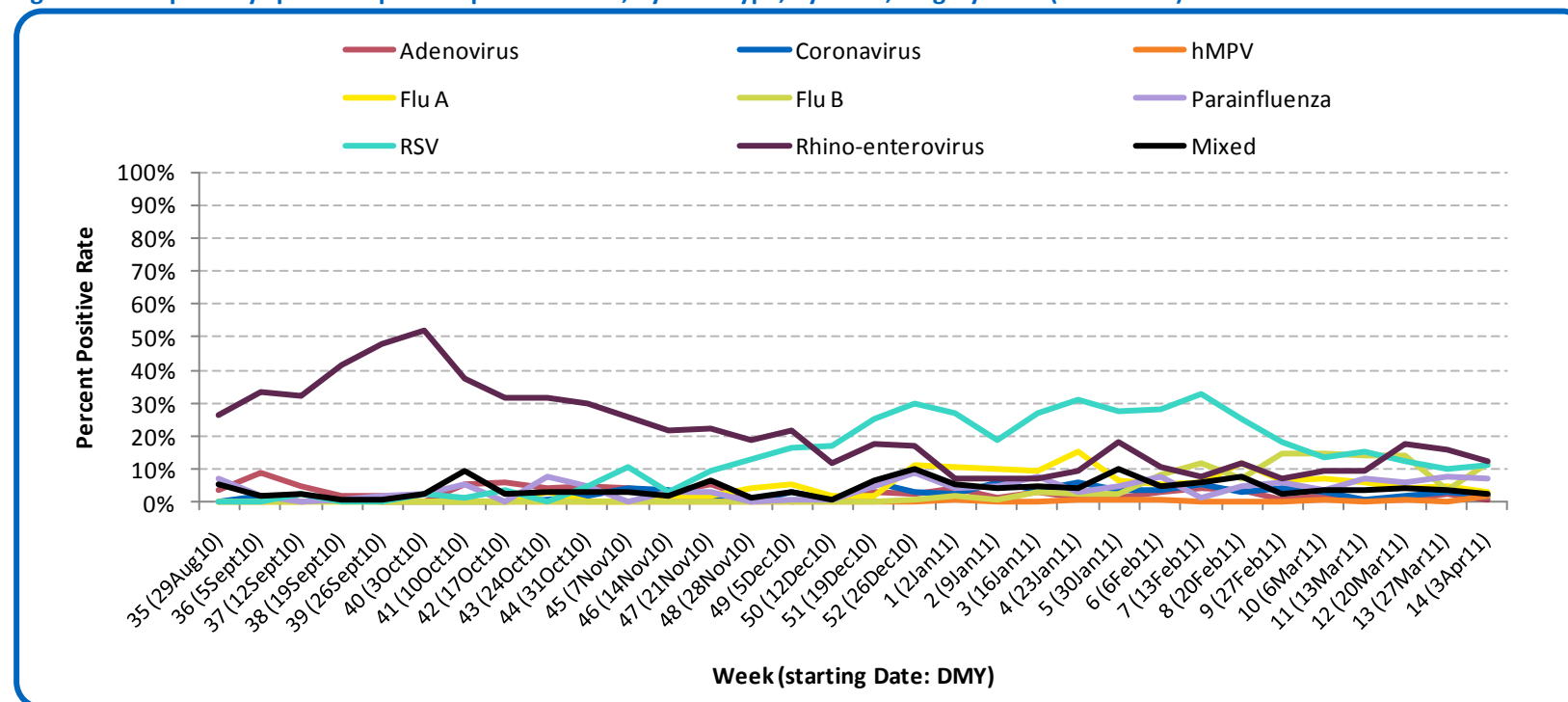
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 3B: Respiratory specimen percent positive rates, by virus type, by week, Calgary Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 9, 2011)

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

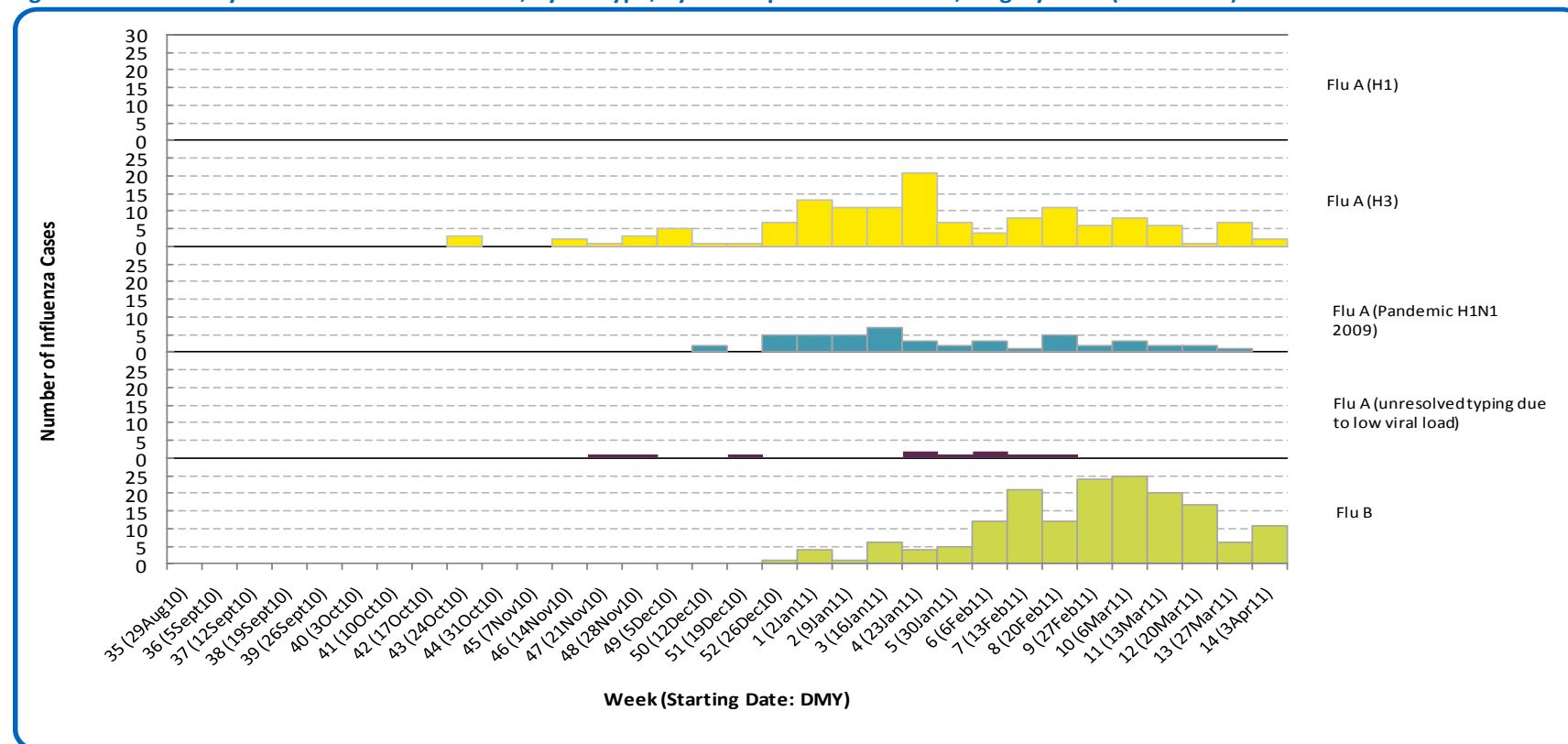
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 3C: Laboratory confirmed influenza cases, by subtype, by week specimen received, Calgary Zone (2010-2011)



*Note: Five specimens were positive for influenza A or B and one or more other virus type(s). One specimen was positive for both influenza A & B.

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011).

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Table 3A: New influenza cases (and age specific rates), by subtype, by age group, Calgary Zone (Week 14: Apr 3-9, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	0	0.0	0	0.0	0	0.0	4	1.1	4	1.1
2 to <5 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	1	0.2
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	1	0.2
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	5	0.3	5	0.3
18 to <65 years	0	0.0	1	<0.1	0	0.0	0	0.0	0	0.0	1	0.0
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
75+ years	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	1	0.2
Total	0	0.0	2	<0.1	0	0.0	0	0.0	11	0.1	13	0.1

Table 3B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Calgary Zone (Aug 29, 2010 – Apr 9, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	18	4.8	5	1.3	1	0.3	19	5.0	43	11.4
2 to <5 years	0	0.0	11	2.0	3	0.6	1	0.2	15	2.8	30	5.5
5 to <9 years	0	0.0	9	1.4	1	0.2	2	0.3	30	4.6	42	6.5
9 to <18 years	0	0.0	10	0.7	1	0.1	2	0.1	44	3.0	57	3.9
18 to <65 years	0	0.0	63	0.7	37	0.4	3	<0.1	58	0.6	161	1.7
65 to <75 years	0	0.0	8	1.1	1	0.1	0	0.0	2	0.3	11	1.5
75+ years	0	0.0	20	3.3	0	0.0	1	0.2	1	0.2	22	3.6
Total	0	0.0	139	1.0	48	0.4	10	0.1	169	1.2	366	2.7

Source for tables 3A & 3B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011).

Population data values used to calculate rates are for June 30, 2009 and are estimated using actual population values from the Alberta Health Care Insurance Plan (AHCIP) Registration File as of March 31, 2009.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

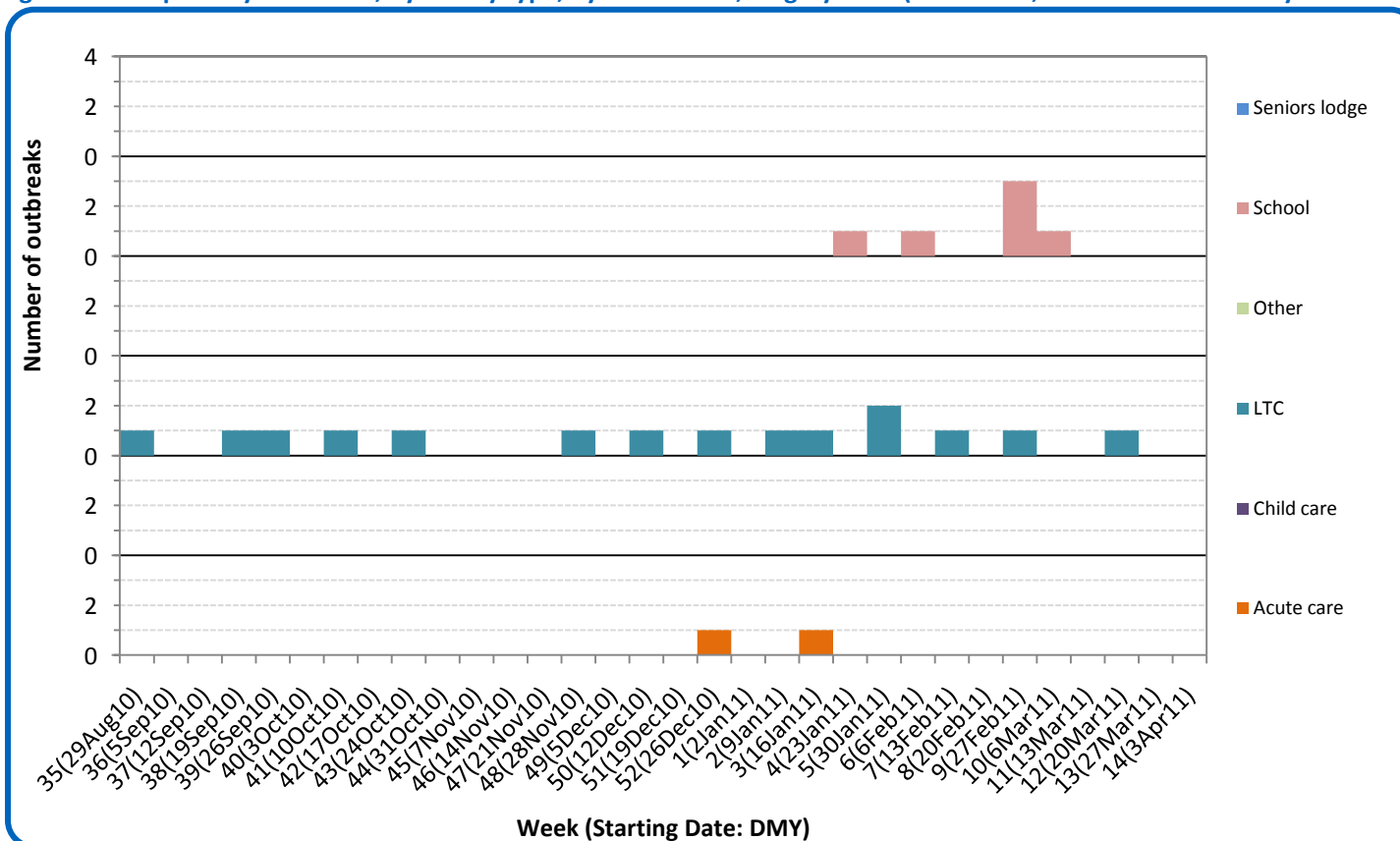
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 3D: Respiratory outbreaks, by facility type, by onset week, Calgary Zone (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 9, 2011. LTC stands for long term care facility.
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

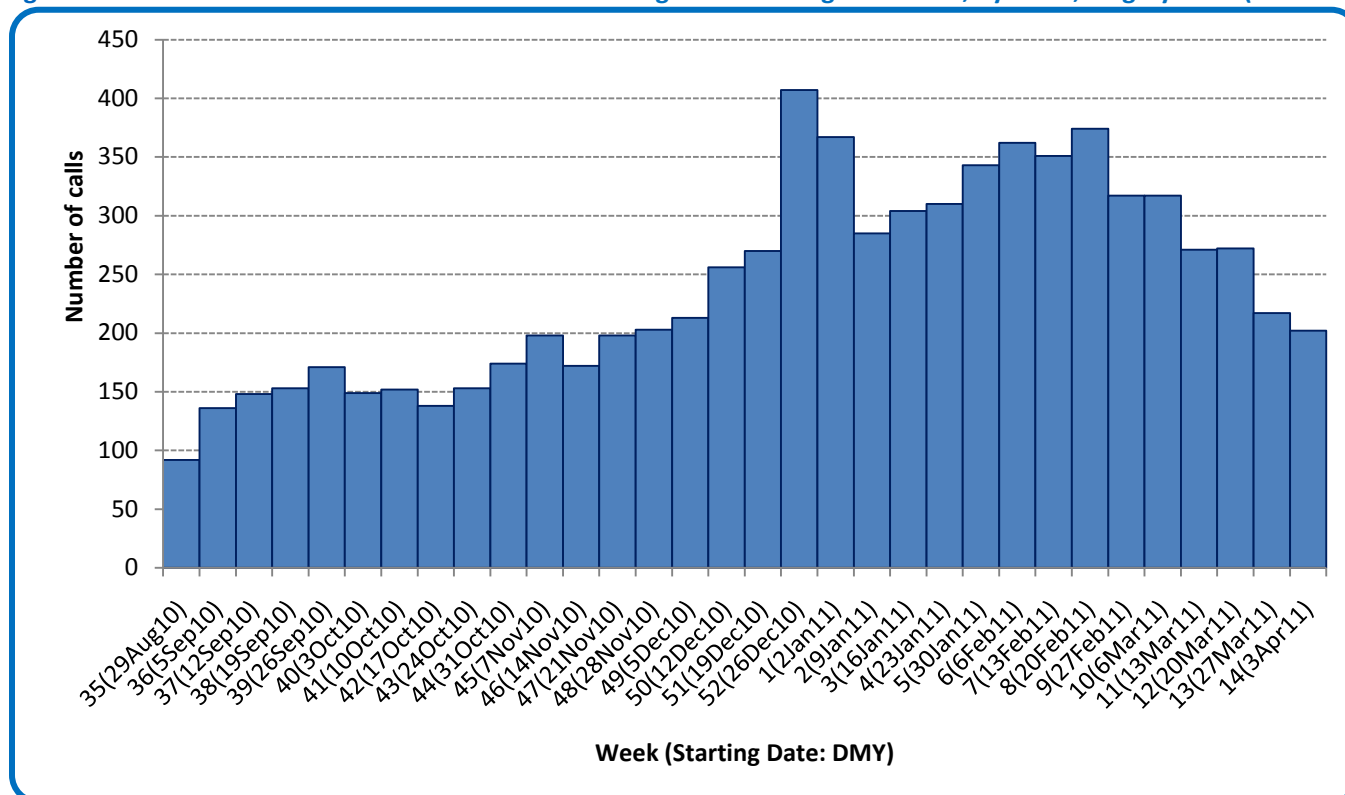
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 3E: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, Calgary Zone (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 9, 2011.
 For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

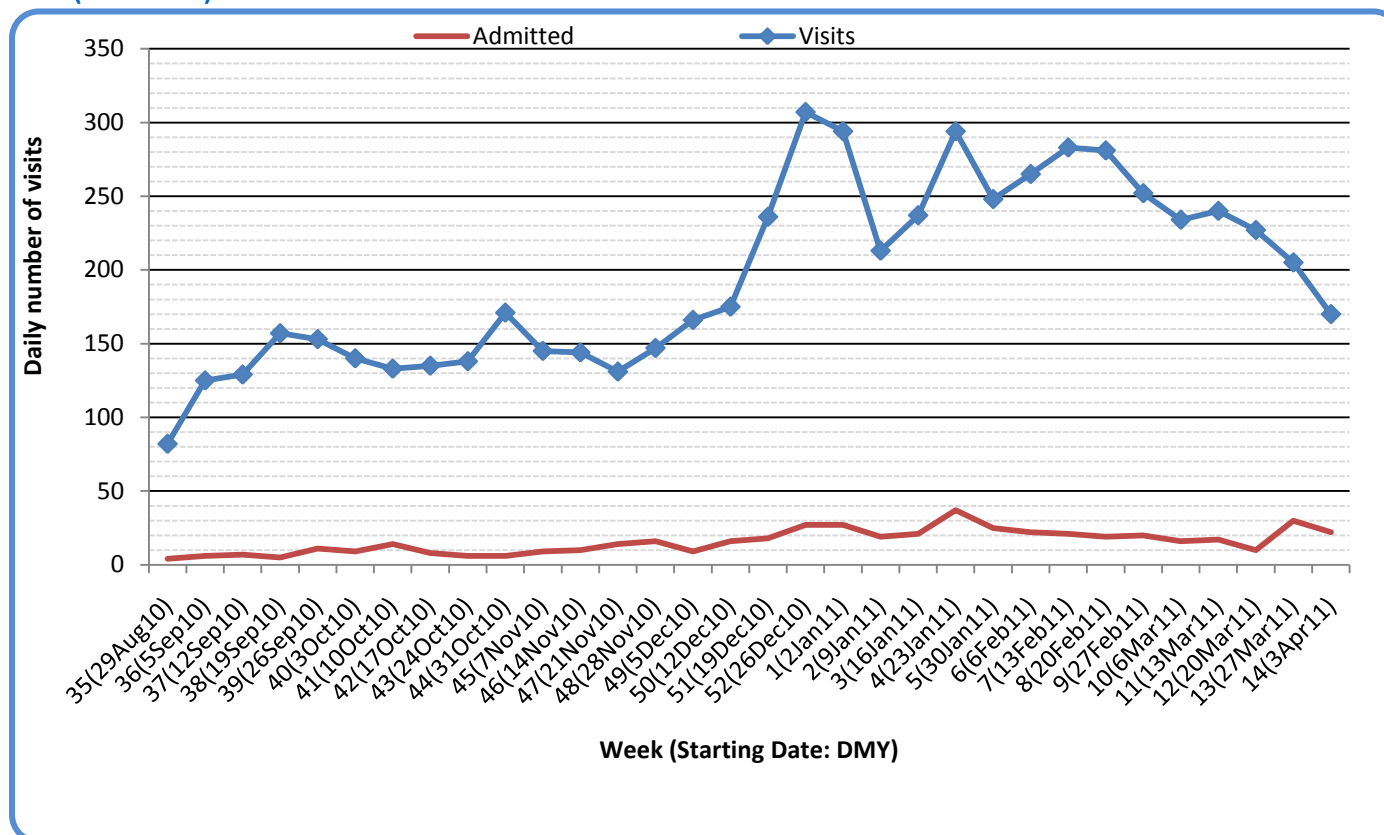
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 3F: Visits to urban emergency departments/urgent care centers in the City of Calgary with cough symptoms and admissions to hospitals, by visit week (2010-2011)



Source: Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 9, 2011.
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

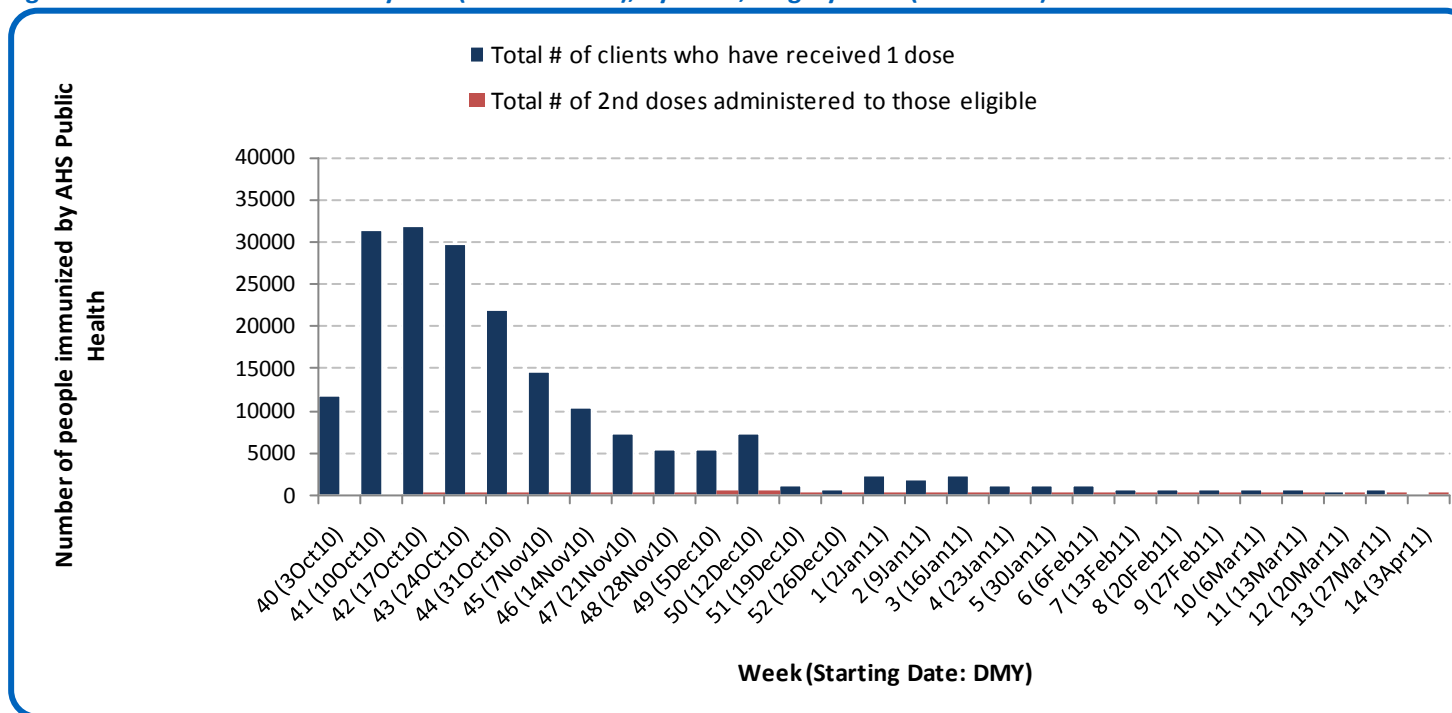
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 3G: Number immunized by AHS (Public Health), by week, Calgary Zone (2010-2011)



Source: AHS Zones (doses do not include those delivered by external providers)

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Table 3C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, Calgary Zone (2010-2011)

Priority Group		# Immunized (Week 14 – Apr 3-Apr 9, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		0	453
Health care workers		2	5,353
Pregnant women		3	2,003
Residents of long term care		0	706
65 years of age and over		2	44,717
All children 6 months up to and including 23 months*	Dose #1	146	14,491
	Dose #2	129	4,346
All children 24 months up to and including 59 months*	Dose #1	28	11,524
	Dose #2	5	665
High risk: 5 years up to and including 8 years*	Dose #1	2	2,389
	Dose #2	1	60
High risk: 9 years up to and including 64 years		7	20,029
Healthy: 5 years up to and including 8 years*	Dose #1	15	7,504
	Dose #2	2	260
Healthy: 9 years up to and including 64 years		94	84,563
Total number of clients who have received 1 dose		299	193,732
Total number of 2nd doses administered to those eligible*		137	5,331

Source: AHS Zones (doses do not include those delivered by external providers)

*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Table 3D: Influenza immunizations delivered by external partners, by priority group, Calgary Zone (Oct 3-Dec 31, 2010)

Priority Group		# Immunized Oct 3-Dec 31, 2010
Long term care staff		3,348
Health care workers		13,764
Pregnant women		1,257
Residents of long term care		3,539
65 years of age and over		27,582
All children 6 months up to and including 23 months*	Dose #1	660
	Dose #2**	0
All children 24 months up to and including 59 months*	Dose #1	523
	Dose #2**	0
High risk: 5 years up to and including 8 years*	Dose #1	788
	Dose #2**	0
High risk: 9 years up to and including 64 years		14,231
Healthy: 5 years up to and including 8 years*	Dose #1	1,280
	Dose #2**	0
Healthy: 9 years up to and including 64 years		53,436
Total number of clients who have received 1 dose		120,408
Total number of 2nd doses administered to those eligible*		0

Source: AHS Zones (zones are required to report doses of seasonal influenza vaccine administered by community and other providers (e.g. physicians, pharmacists, LTC, WHS/OHS programs) twice during the influenza season. These numbers are from the first report (for doses delivered from Oct 3 to Dec 31, 2010). The remaining doses will be reported at a later date.

*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

**In some cases, it was not possible to separate dose 1's from dose 2's. Therefore, dose 1 category may contain some 2nd doses.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

SECTION 4: ZONE 3 - CENTRAL

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Summary

After a period of decline, respiratory virus activity in Central Zone appears to have increased in Week 14 (Apr 3-9, 2011).

Laboratory Data (see [Figure 4A](#), [Figure 4B](#), [Figure 4C](#), [Table 4A](#) & [Table 4B](#))

Influenza B and influenza A activity increased in Week 14 (Apr 3-9, 2011) from the previous week, as did rhino-enterovirus activity. Of the cases of influenza confirmed in this part of the province in Week 14, the majority were identified as influenza type B followed by influenza A (H3). This season, the total number of influenza cases confirmed in Central Zone is 168. At this point in the season, the age-specific rate for confirmed cases of influenza (all types) is highest for infants under the age of 2 years (at 17.0 per 10,000) and adults aged 75 years and over (at 12.0 per 10,000).

Outbreaks (see [Figure 4D](#))

Since the last update provided, one of the reported outbreaks has been confirmed in a Central Zone long term care facility. The onset of symptoms occurred in Week 10 (Mar 6-12, 2011) and the laboratory results identified influenza A (H3) as the attributing virus. The attack rate for this outbreak was 40%.

In addition, two other respiratory outbreaks were reported for Central Zone, including one in a seniors' lodge (13% preliminary attack rate) and one in a long term care facility (unknown preliminary attack rate). The onset of symptoms for these occurred in Week 13 (Mar 27-Apr 2, 2011) and Week 14 (Apr 3-9, 2011), respectively.

Health Link Alberta Calls (see [Figure 4E](#))

The number of calls to Health Link Alberta in the Central Zone for cough or breathing difficulties remained virtually unchanged in Week 14 (Apr 3-9, 2011) from the previous week. Generally, this indicator has been on a decreasing trend that started in early March, 2011.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

There are no data available from this zone.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

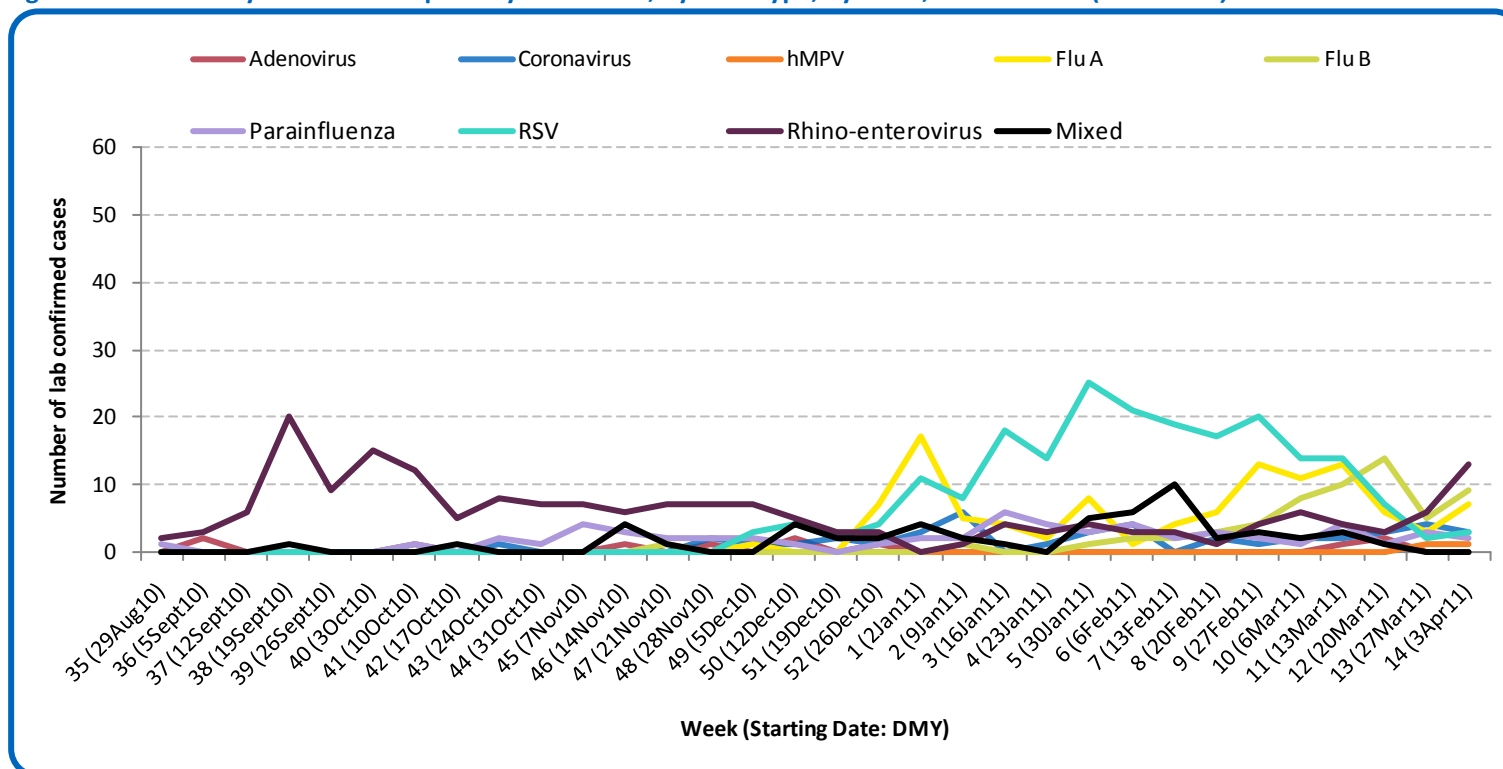
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 4A: Laboratory confirmed respiratory virus cases, by virus type, by week, Central Zone (2010-2011)



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

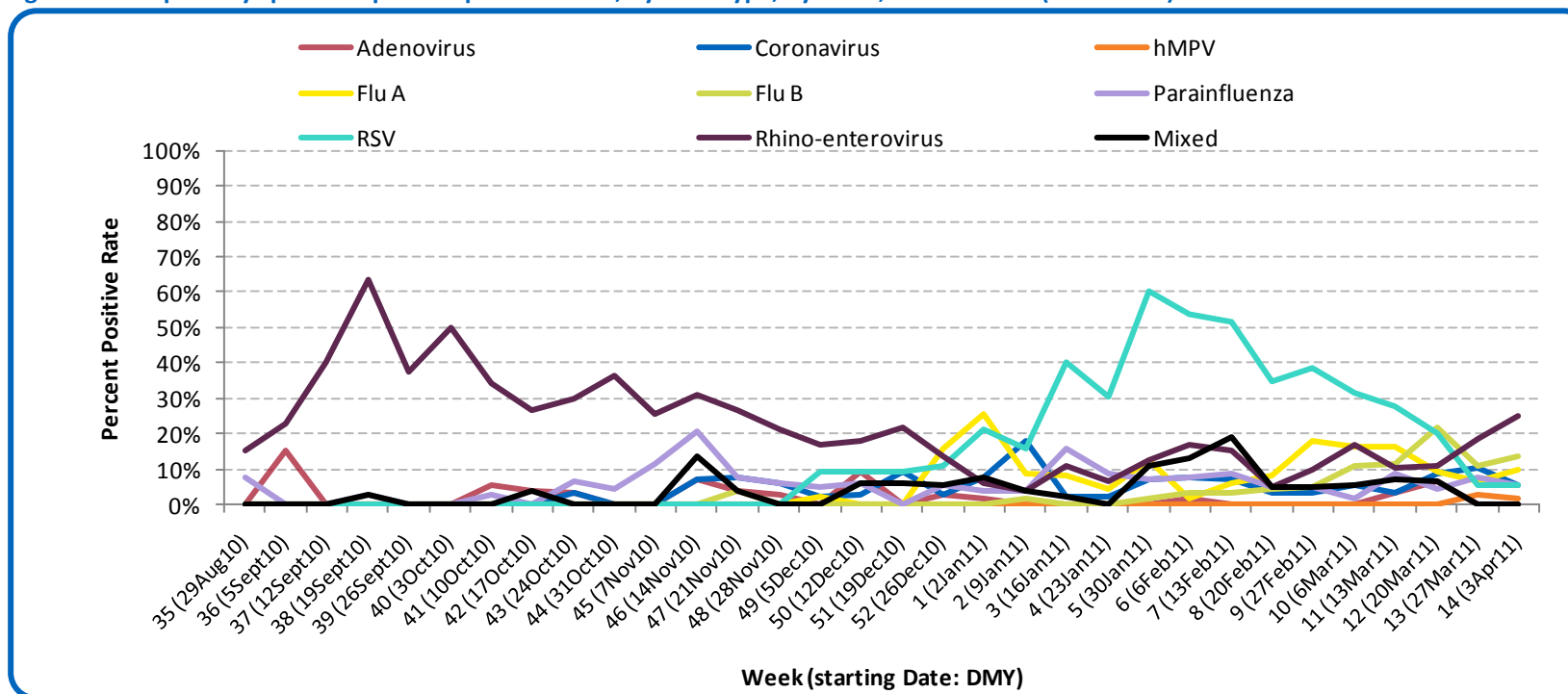
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 4B: Respiratory specimen percent positive rates, by virus type, by week, Central Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 9, 2011)
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

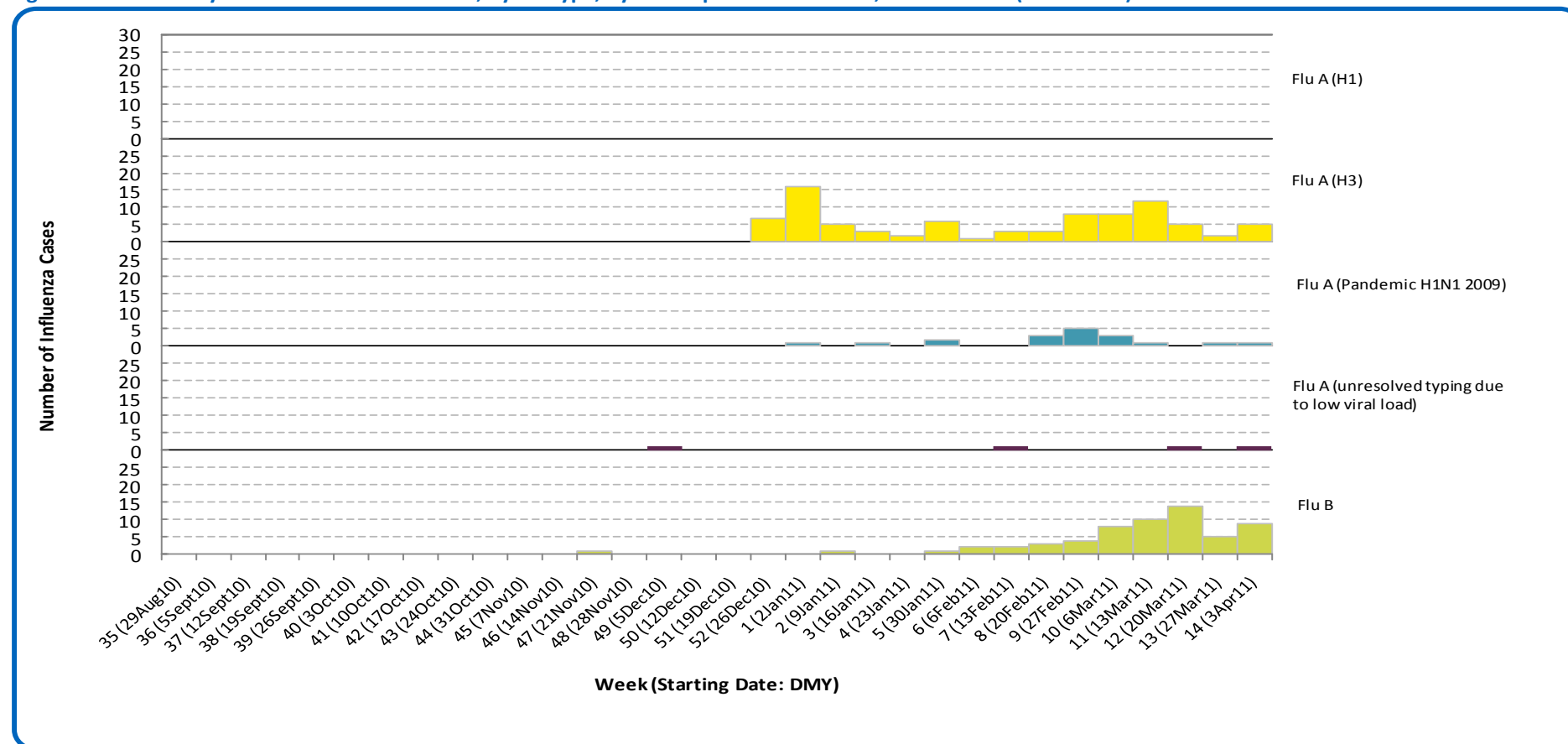
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 4C: Laboratory confirmed influenza cases, by subtype, by week specimen received, Central Zone (2010-2011)



*Note: Seven specimens were positive for influenza A or B and one or more other virus type(s).

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011).

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Table 4A: New influenza cases (and age specific rates), by subtype, by age group, Central Zone (Week 14: Apr 3-9, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	0	0.0	0	0.0	0	0.0	3	2.4	3	2.4
2 to <5 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6	1	0.6
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	1	0.4
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
18 to <65 years	0	0.0	1	<0.1	1	<0.1	1	<0.1	4	0.1	7	0.2
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
75+ years	0	0.0	4	1.5	0	0.0	0	0.0	0	0.0	4	1.5
Total	0	0.0	5	0.1	1	<0.1	1	<0.1	9	0.2	16	0.4

Table 4B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Central Zone (Aug 29, 2010 – Apr 9, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	9	7.3	0	0.0	0	0.0	12	9.7	21	17.0
2 to <5 years	0	0.0	2	1.1	2	1.1	0	0.0	7	3.9	11	6.1
5 to <9 years	0	0.0	4	1.8	0	0.0	0	0.0	9	4.0	13	5.8
9 to <18 years	0	0.0	3	0.6	2	0.4	0	0.0	6	1.1	11	2.1
18 to <65 years	0	0.0	36	1.3	14	0.5	3	0.1	22	0.8	75	2.7
65 to <75 years	0	0.0	2	0.6	0	0.0	0	0.0	2	0.6	4	1.3
75+ years	0	0.0	30	10.9	0	0.0	1	0.4	2	0.7	33	12.0
Total	0	0.0	86	1.9	18	0.4	4	0.1	60	1.3	168	3.8

Source for Tables 4A & 4B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011).

Population data values used to calculate rates are for June 30, 2009 and are estimated using actual population values from the Alberta Health Care Insurance Plan (AHCIP) Registration File as of March 31, 2009.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

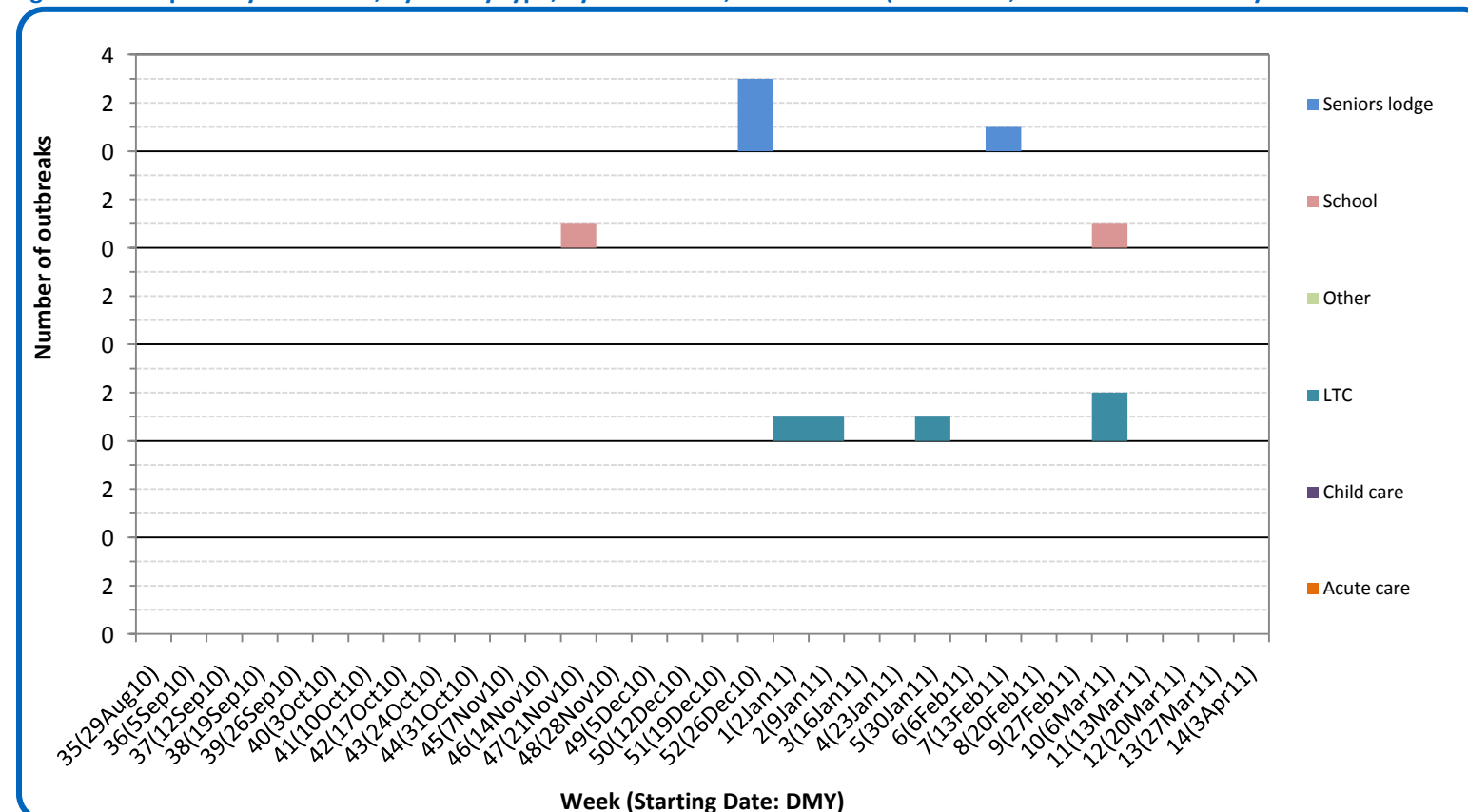
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 4D: Respiratory outbreaks, by facility type, by onset week, Central Zone (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 9, 2011.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#). LTC stands for long term care facility.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

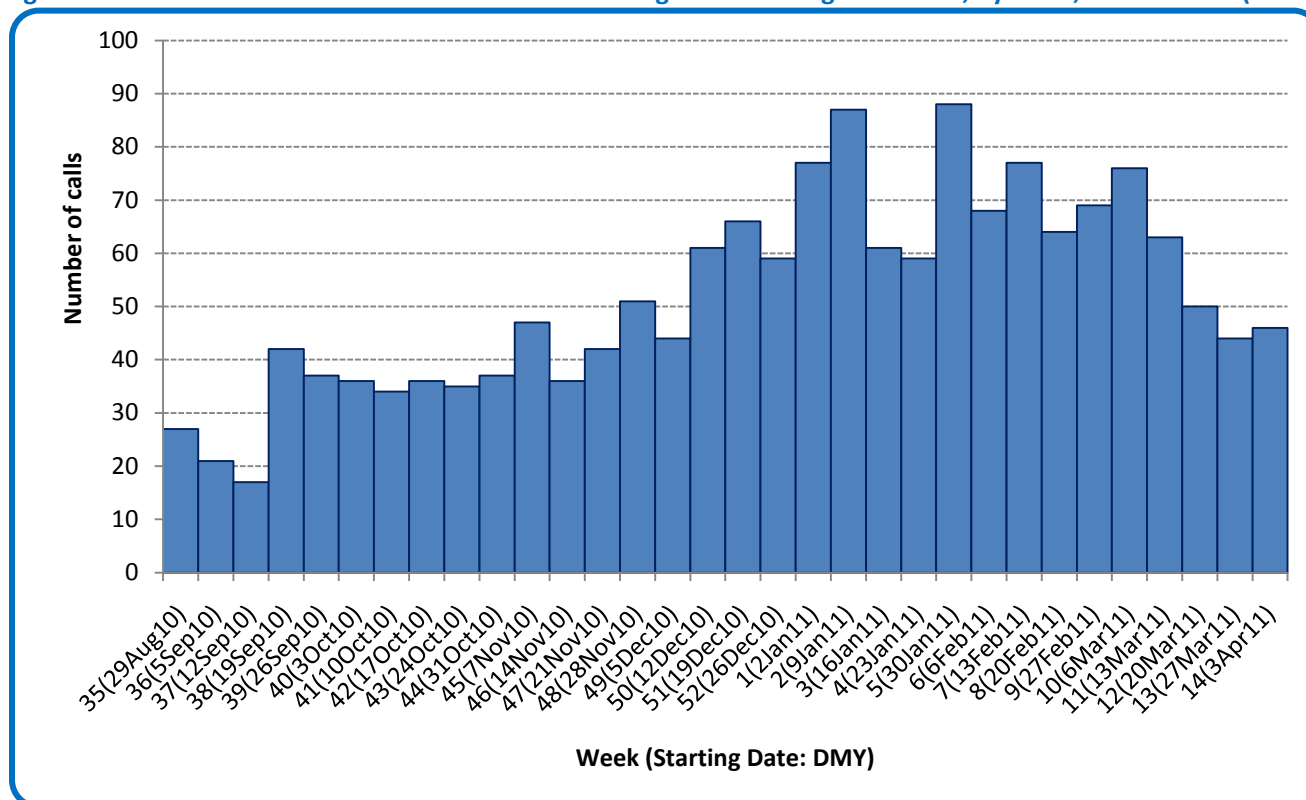
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 4E: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, Central Zone (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 9, 2011.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

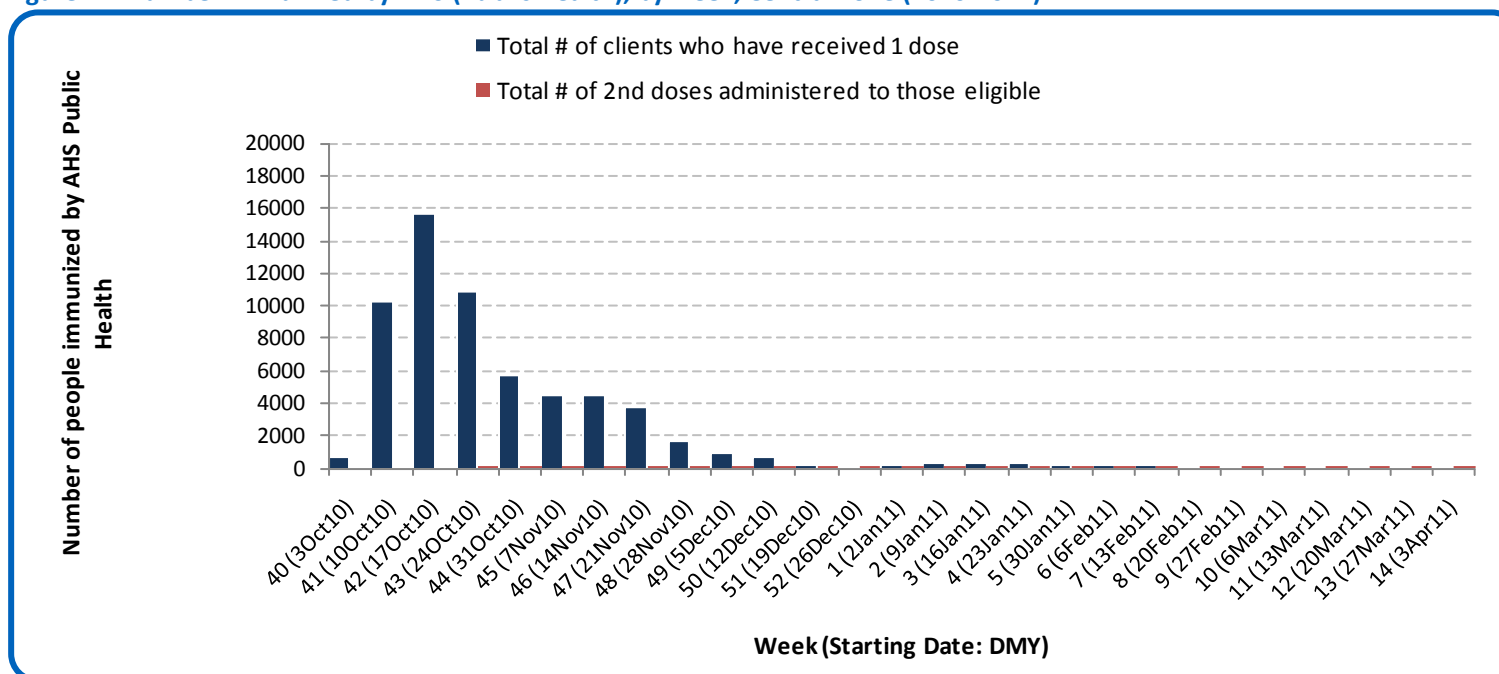
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 4F: Number immunized by AHS (Public Health), by week, Central Zone (2010-2011)



Source: AHS Zones (doses do not include those delivered by external providers)

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Table 4C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, Central Zone (2010-2011)

Priority Group		# Immunized (Week 14 – Apr 3-Apr 9, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		0	427
Health care workers		1	2,624
Pregnant women		0	429
Residents of long term care		0	1,106
65 years of age and over		1	22,162
All children 6 months up to and including 23 months*	Dose #1	21	2,485
	Dose #2	11	1,134
All children 24 months up to and including 59 months*	Dose #1	1	2,320
	Dose #2	4	198
High risk: 5 years up to and including 8 years*	Dose #1	1	652
	Dose #2	0	24
High risk: 9 years up to and including 64 years		0	6,888
Healthy: 5 years up to and including 8 years*	Dose #1	3	1,991
	Dose #2	0	88
Healthy: 9 years up to and including 64 years		10	20,840
Total number of clients who have received 1 dose		38	61,924
Total number of 2nd doses administered to those eligible*		15	1,444

Source: AHS Zones (doses do not include those delivered by external providers)

*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Table 4D: Influenza immunizations delivered by external partners, by priority group, Central Zone (Oct 3-Dec 31, 2010)

Priority Group		# Immunized Oct 3-Dec 31, 2010
Long term care staff		827
Health care workers		5,744
Pregnant women		8
Residents of long term care		1,748
65 years of age and over		4,063
All children 6 months up to and including 23 months*	Dose #1	1
	Dose #2**	0
All children 24 months up to and including 59 months*	Dose #1	4
	Dose #2**	0
High risk: 5 years up to and including 8 years*	Dose #1	8
	Dose #2**	0
High risk: 9 years up to and including 64 years		1,609
Healthy: 5 years up to and including 8 years*	Dose #1	15
	Dose #2**	0
Healthy: 9 years up to and including 64 years		3,762
Total number of clients who have received 1 dose		17,789
Total number of 2nd doses administered to those eligible*		0

Source: AHS Zones (zones are required to report doses of seasonal influenza vaccine administered by community and other providers (e.g. physicians, pharmacists, LTC, WHS/OHS programs) twice during the influenza season. These numbers are from the first report (for doses delivered from Oct 3 to Dec 31, 2010). The remaining doses will be reported at a later date.

*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

**In some cases, it was not possible to separate dose 1's from dose 2's. Therefore, dose 1 category may contain some 2nd doses.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

SECTION 5: ZONE 4 – EDMONTON

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Summary

With levels of several indicators fluctuating in recent weeks, it appears that respiratory virus activity has remained steady in the Edmonton Zone.

Laboratory Data (see [Figure 5A](#), [Figure 5B](#), [Figure 5C](#), [Table 5A](#) & [Table 5B](#))

The number of confirmed influenza A cases has been fluctuating over the last several weeks but generally appears to be on a declining trend. The number of influenza B cases confirmed in Week 14 (Apr 3-9, 2011) decreased from the previous week as well. This marks the second consecutive decrease in recent weeks. As of the end of last week (Apr 9, 2011), the total number of influenza cases confirmed in this part of the province this season is 437. The age-specific rate for confirmed influenza (all types) for infants less than 2 years of age is higher compared to other age groups, at 22.6 per 10,000 (compared to 8.7 per 10,000 or lower for other age groups).

Outbreaks (see [Figure 5D](#))

Since the last update, there have been no respiratory outbreaks confirmed or reported in Edmonton Zone.

Health Link Alberta Calls (see [Figure 5E](#))

Aside from a few fluctuations, the number of calls to Health Link Alberta in the Edmonton Zone for cough or breathing difficulties has been gradually declining since the middle of February, 2011.

Emergency Department/Urgent Care Center Visits and Hospital Admissions (See [Figure 5F](#))

The number of visits to nine emergency departments/urgent care centers for ILI symptoms remained unchanged in Week 14 (Apr 3-9, 2011) from the previous week, while the number of hospital admissions increased by 15%.

Despite some fluctuations, the number of visits for symptoms of cough/congestion has generally been decreasing since the end of February, 2011. The number of hospital admissions for cough/congestions increased by 120% from the previous week

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

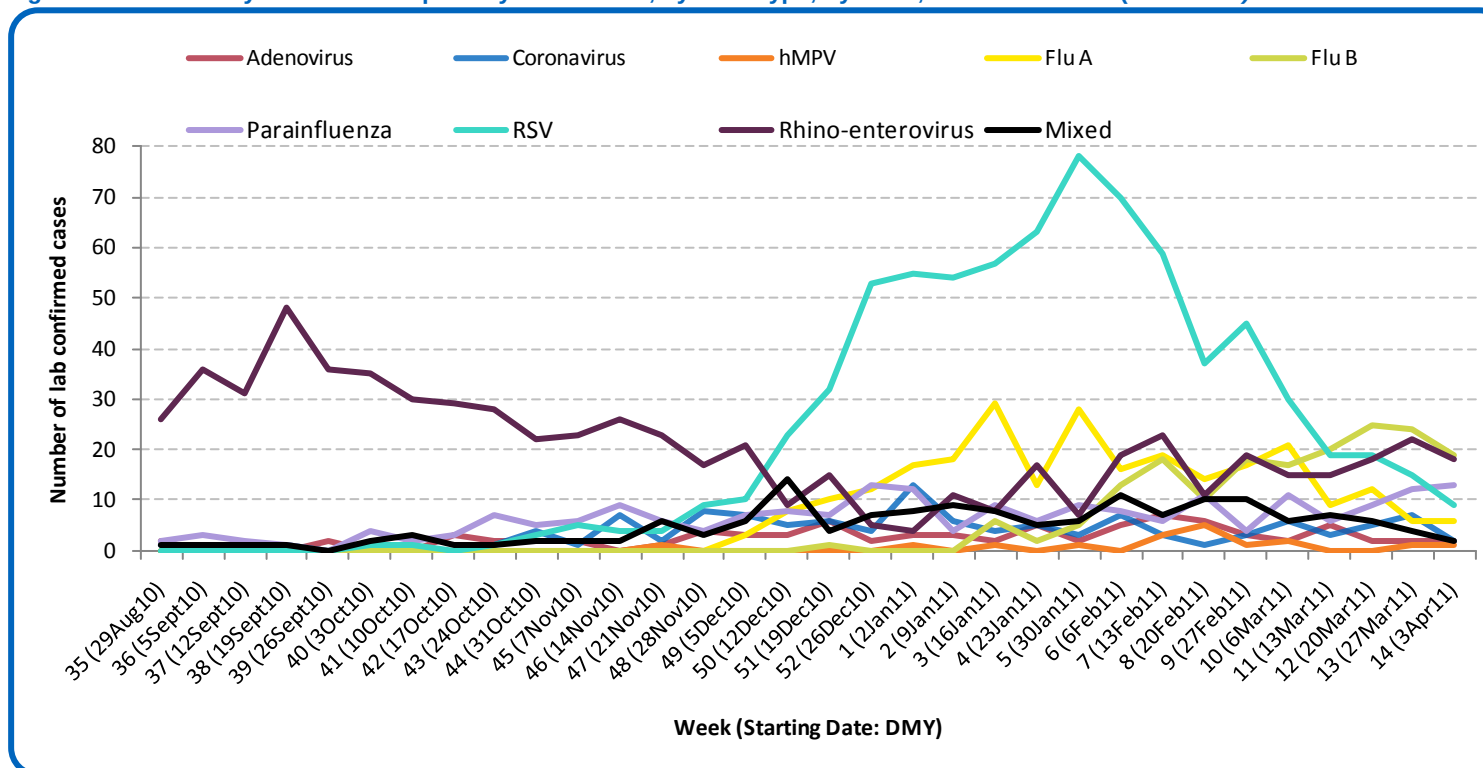
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 5A: Laboratory confirmed respiratory virus cases, by virus type, by week, Edmonton Zone (2010-2011)



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

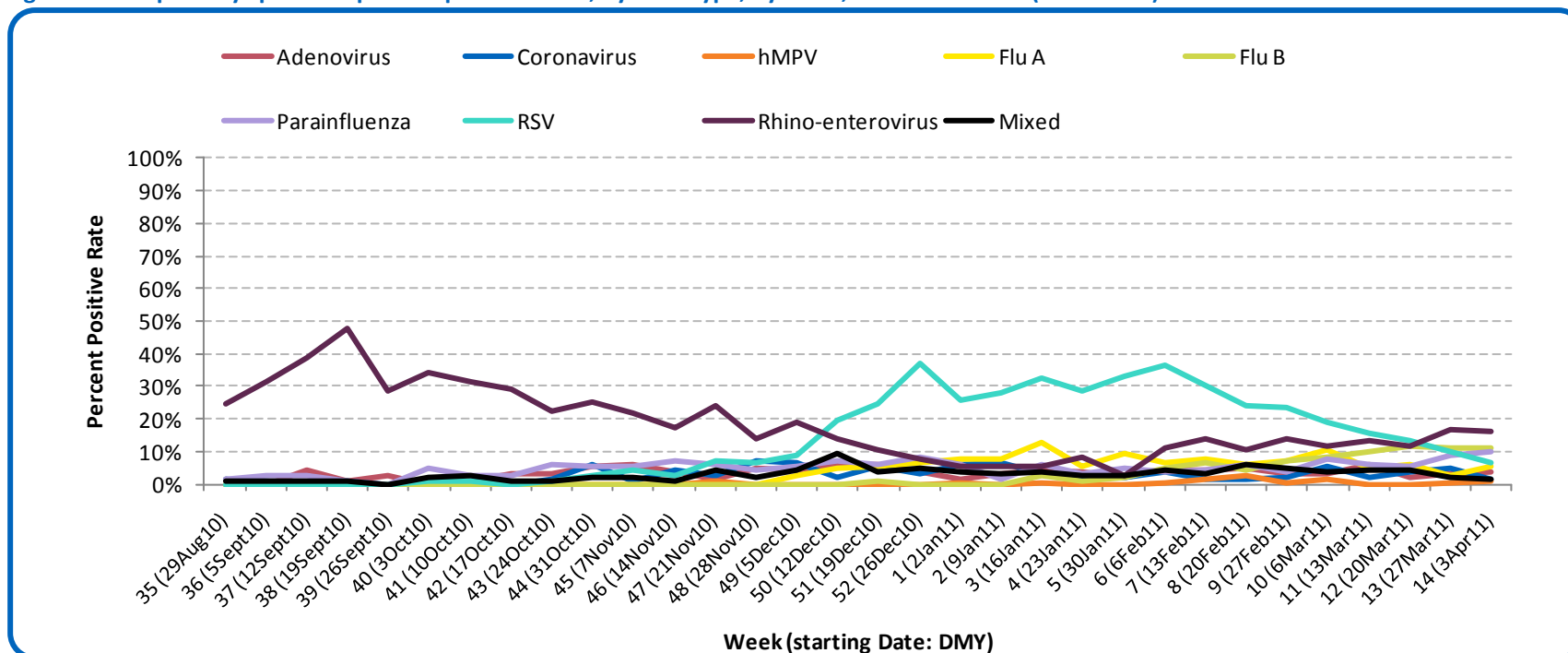
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 5B: Respiratory specimen percent positive rates, by virus type, by week, Edmonton Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 9, 2011)
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

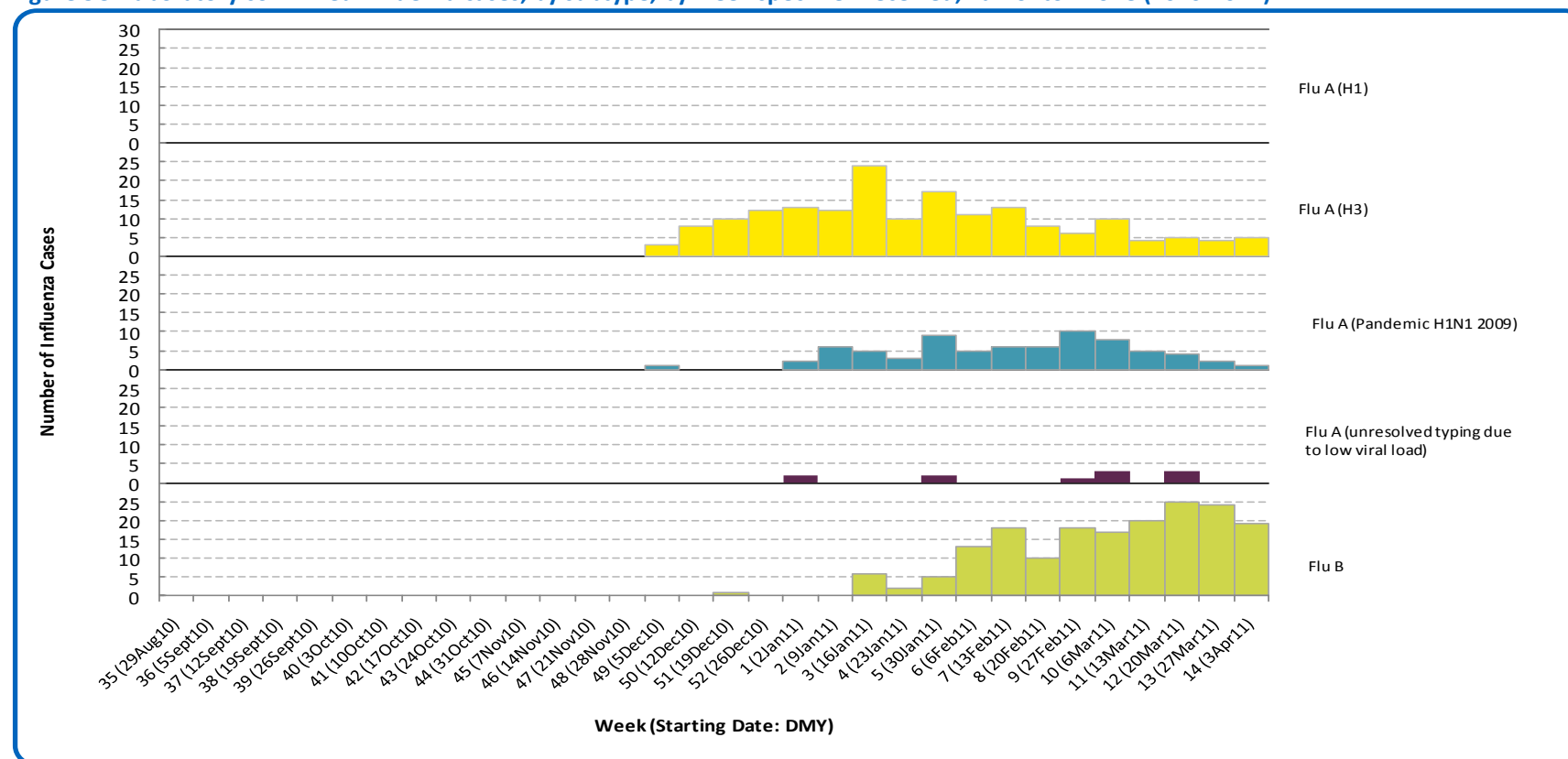
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 5C: Laboratory confirmed influenza cases, by subtype, by week specimen received, Edmonton Zone (2010-2011)



*Note: Six specimens were positive for influenza A or B and one or more other virus type(s). Two specimens were positive for both influenza A & B.

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011).

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Table 5A: New influenza cases (and age specific rates), by subtype, by age group, Edmonton Zone (Week 14: Apr 3-9, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	0	0.0	0	0.0	0	0.0	2	0.7	2	0.7
2 to <5 years	0	0.0	1	0.2	0	0.0	0	0.0	4	0.9	5	1.1
5 to <9 years	0	0.0	1	0.2	0	0.0	0	0.0	2	0.4	3	0.6
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	1	0.1
18 to <65 years	0	0.0	2	<0.1	1	<0.1	0	0.0	9	<0.1	12	0.2
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
75+ years	0	0.0	1	0.2	0	0.0	0	0.0	1	0.2	2	0.3
Total	0	0.0	5	<0.1	1	<0.1	0	0.0	19	0.2	25	0.2

Table 5B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Edmonton Zone (Aug 29, 2010 – Apr 9, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	29	9.5	8	2.6	3	1.0	29	9.5	69	22.6
2 to <5 years	0	0.0	15	3.4	4	0.9	1	0.2	18	4.1	38	8.7
5 to <9 years	0	0.0	11	2.1	4	0.8	0	0.0	27	5.1	42	7.9
9 to <18 years	0	0.0	9	0.7	3	0.2	1	0.1	42	3.4	55	4.4
18 to <65 years	0	0.0	66	0.9	54	0.7	5	<0.1	44	0.6	169	2.2
65 to <75 years	0	0.0	9	1.3	0	0.0	0	0.0	6	0.9	15	2.1
75+ years	0	0.0	36	5.9	0	0.0	1	0.2	12	2.0	49	8.1
Total	0	0.0	175	1.5	73	0.6	11	0.1	178	1.5	437	3.8

Source for tables 5A & 5B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011).

Population data values used to calculate rates are for June 30, 2009 and are estimated using actual population values from the Alberta Health Care Insurance Plan (AHCIP) Registration File as of March 31, 2009.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

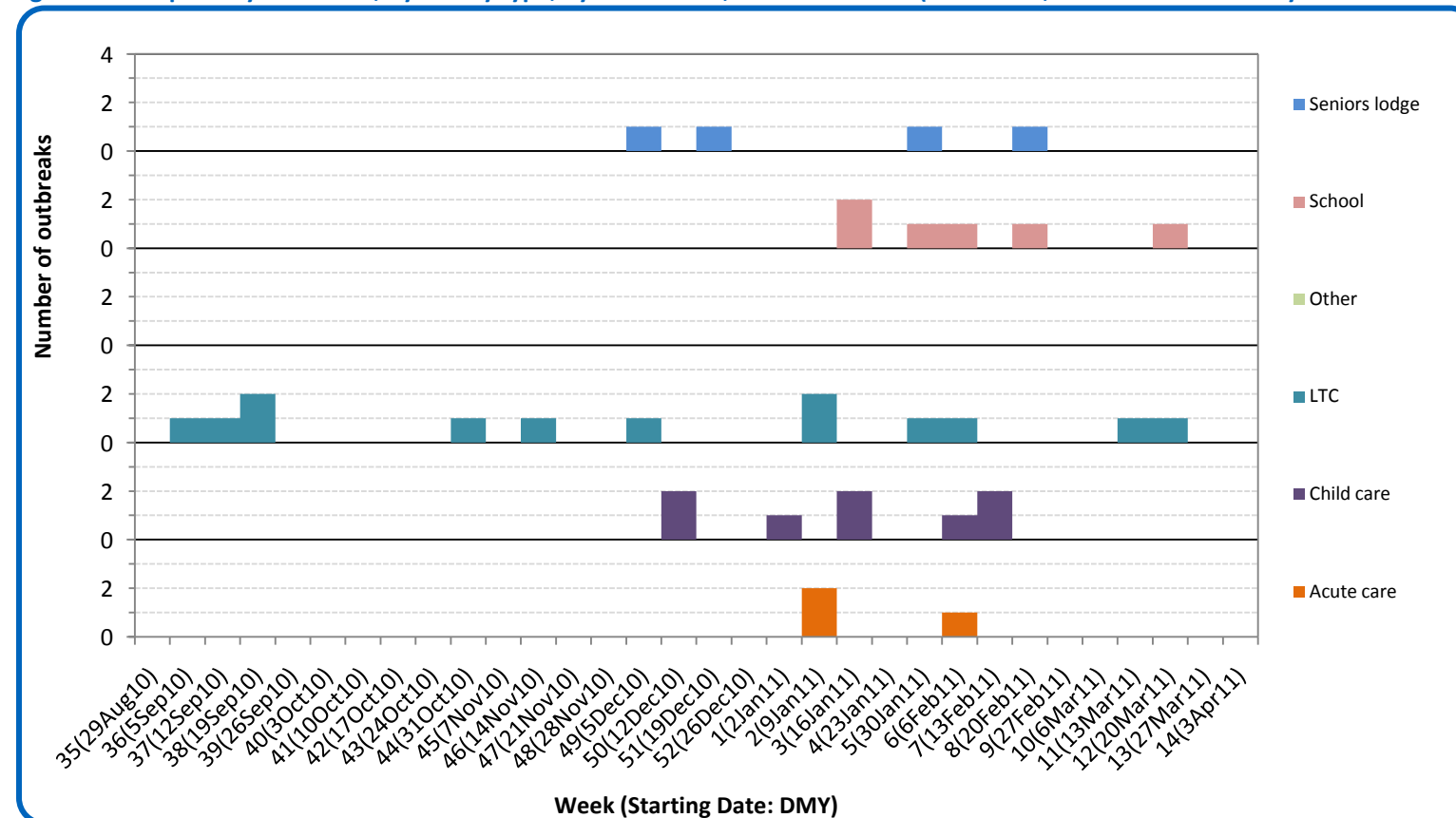
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 5D: Respiratory outbreaks, by facility type, by onset week, Edmonton Zone (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 9, 2011. LTC stands for long term care facility.
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

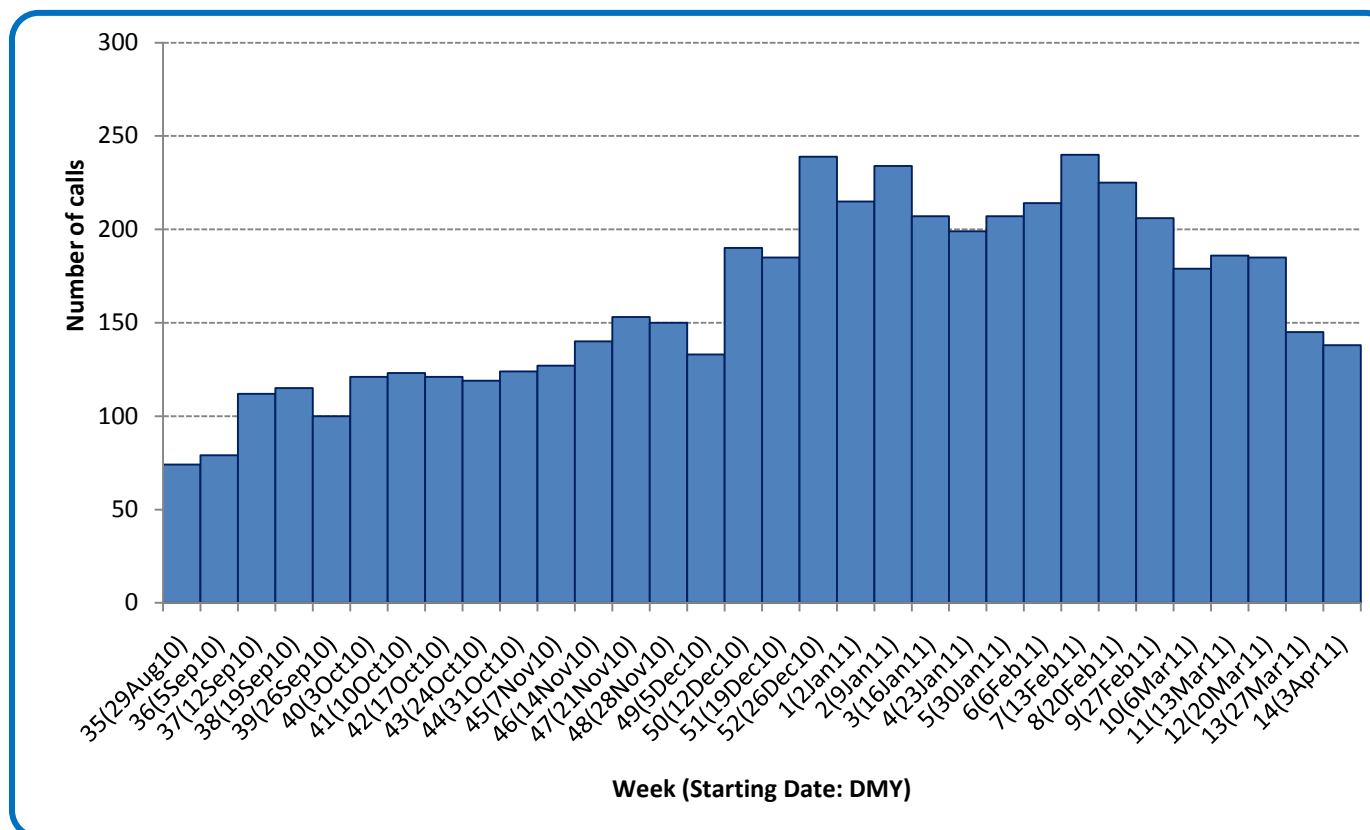
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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5E: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, Edmonton Zone (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 9, 2011.
 For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

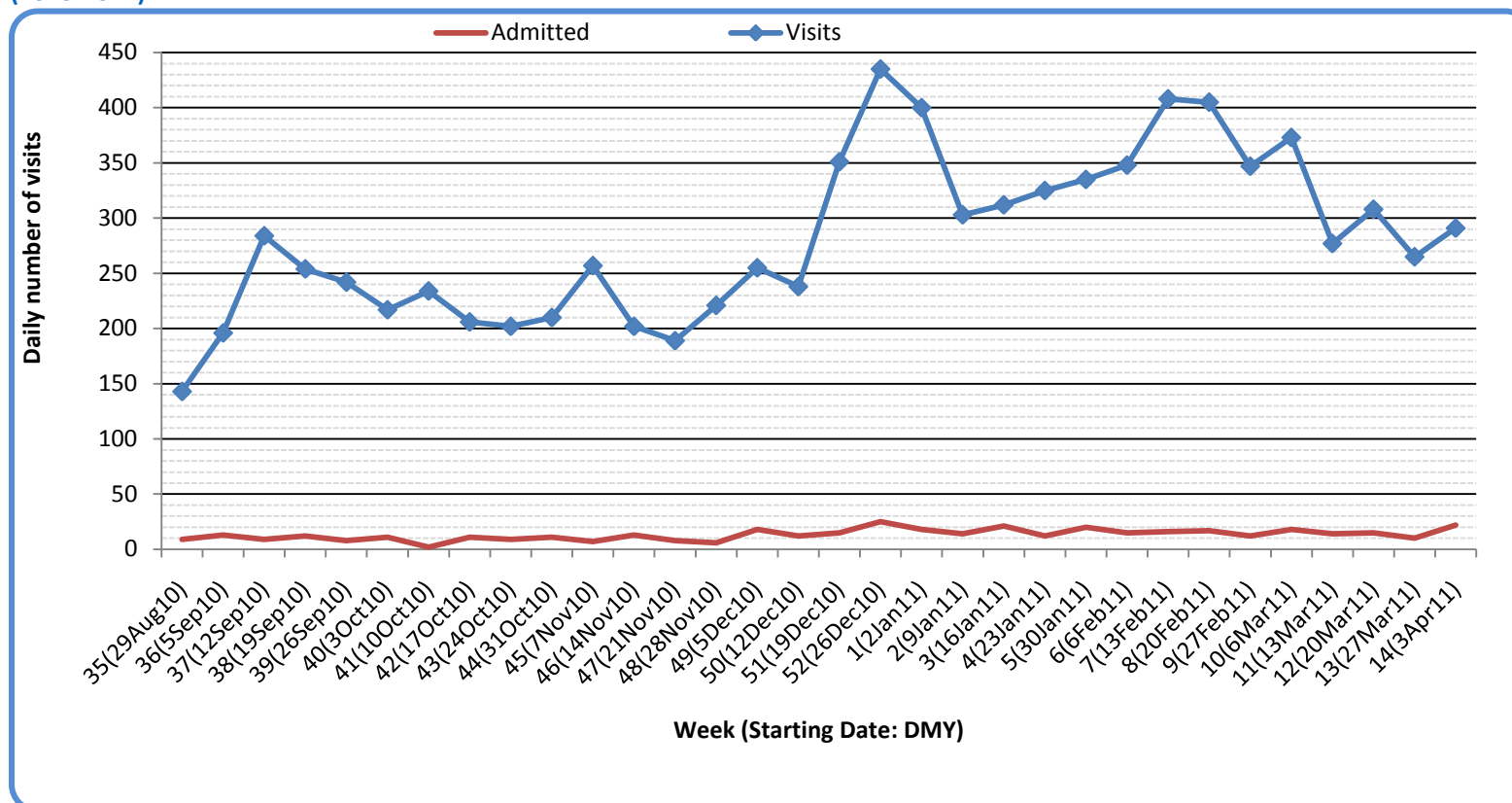
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 5F: Visits to emergency departments/urgent care centers for cough/congestion and admissions to hospitals, Edmonton Zone, by visit week (2010-2011)



Source: Alberta Real Time Syndromic Surveillance (ARTSSN) as of 23:59 on Apr 9, 2011.
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

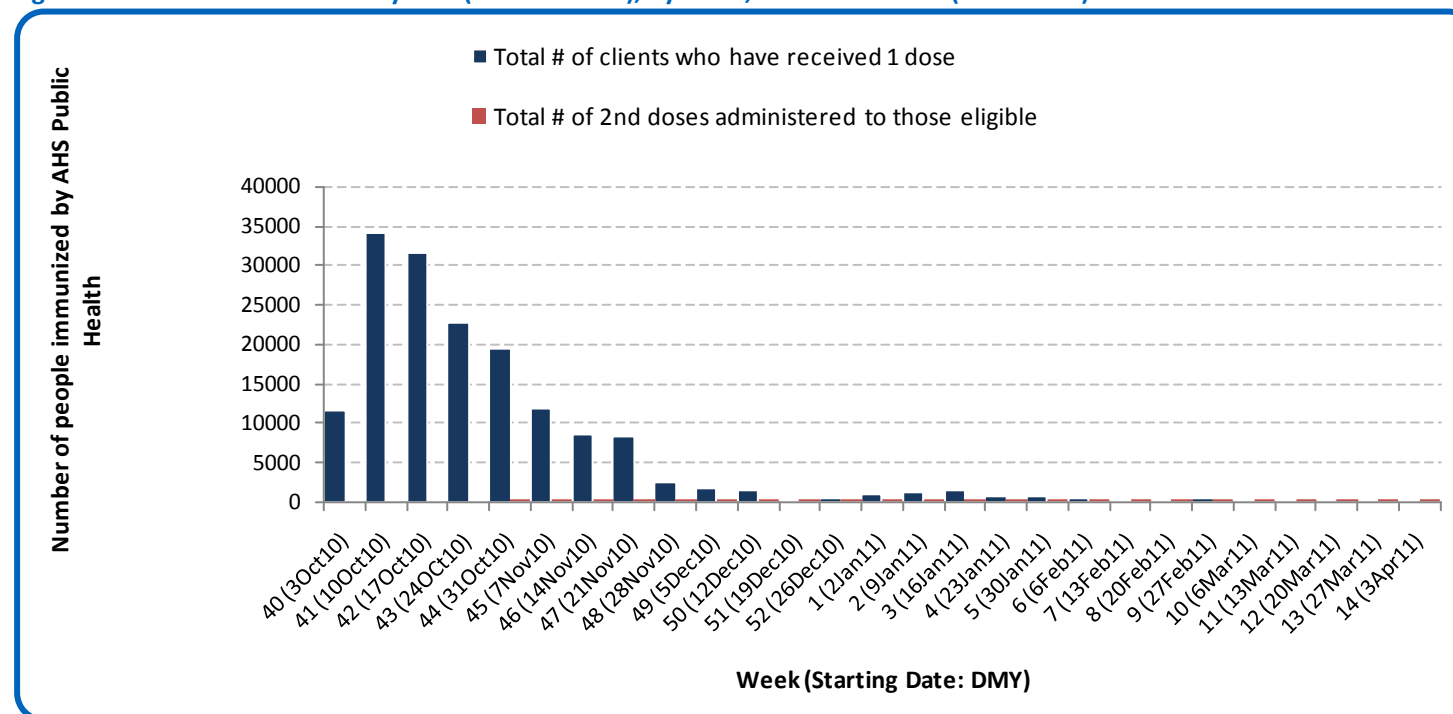
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 5G: Number immunized by AHS (Public Health), by week, Edmonton Zone (2010-2011)



Source: AHS Zones (doses do not include those delivered by external providers)

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Table 5C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, Edmonton Zone (2010-2011)

Priority Group		# Immunized (Week 14 – Apr 3-Apr 9, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		0	329
Health care workers		1	4,820
Pregnant women		1	1,452
Residents of long term care		0	1,051
65 years of age and over		1	48,512
All children 6 months up to and including 23 months*	Dose #1	24	6,795
	Dose #2	12	2,331
All children 24 months up to and including 59 months*	Dose #1	3	7,204
	Dose #2	0	409
High risk: 5 years up to and including 8 years*	Dose #1	1	1,357
	Dose #2	0	39
High risk: 9 years up to and including 64 years		3	17,177
Healthy: 5 years up to and including 8 years*	Dose #1	1	5,497
	Dose #2	0	180
Healthy: 9 years up to and including 64 years		35	68,076
Total number of clients who have received 1 dose		70	162,270
Total number of 2nd doses administered to those eligible*		12	2,959

Source: AHS Zones (doses do not include those delivered by external providers)

*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Table 5D: Influenza immunizations delivered by external partners, by priority group, Edmonton Zone (Oct 3-Dec 31, 2010)

Priority Group		# Immunized Oct 3-Dec 31, 2010
Long term care staff		926
Health care workers		8,917
Pregnant women		166
Residents of long term care		1,094
65 years of age and over		15,950
All children 6 months up to and including 23 months*	Dose #1	295
	Dose #2**	48
All children 24 months up to and including 59 months*	Dose #1	504
	Dose #2**	27
High risk: 5 years up to and including 8 years*	Dose #1	848
	Dose #2**	2
High risk: 9 years up to and including 64 years		10,373
Healthy: 5 years up to and including 8 years*	Dose #1	915
	Dose #2**	5
Healthy: 9 years up to and including 64 years		22,493
Total number of clients who have received 1 dose		62,481
Total number of 2nd doses administered to those eligible*		82

Source: AHS Zones (zones are required to report doses of seasonal influenza vaccine administered by community and other providers (e.g. physicians, pharmacists, LTC, WHS/OHS programs) twice during the influenza season. These numbers are from the first report (for doses delivered from Oct 3 to Dec 31, 2010). The remaining doses will be reported at a later date.

*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

**In some cases, it was not possible to separate dose 1's from dose 2's. Therefore, dose 1 category may contain some 2nd doses.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

SECTION 6: ZONE 5 – NORTH

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Summary

Transmission of several respiratory viruses, including influenza and rhino-enterovirus, continues in North Zone, however the general trends over the last several weeks are showing decreasing activity.

Laboratory Data (see [Figure 6A](#), [Figure 6B](#), [Figure 6C](#), [Table 6A](#) & [Table 6B](#))

Influenza, RSV and rhino-enterovirus are still the predominant viruses circulating in North Zone. The number of confirmed influenza B cases decreased in Week 14 (Apr 3-9, 2011) from the previous week. This is the second consecutive decrease seen in several weeks. Influenza A (H3) and A (H1N1) 2009 activity have also been decreasing. So far this season, 254 cases of influenza have been confirmed in North Zone. At this point in time, the age specific rate for confirmed influenza (all types) among infants under the age of 2 years is much higher than the rate for any other age group (33.7 per 10,000 compared to 13.8 per 10,000 or lower).

Outbreaks (see [Figure 6D](#))

Since the last report, there have been no respiratory outbreaks confirmed or reported in North Zone.

Health Link Alberta Calls (see [Figure 6E](#))

The number of calls to Health Link Alberta by residents of North Zone for cough or breathing difficulties decreased in Week 14 (Apr 3-9, 2011) from the previous week. Overall, this indicator has been fluctuating in recent weeks although this is the second consecutive decrease observed.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

There are no data available for the North Zone.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

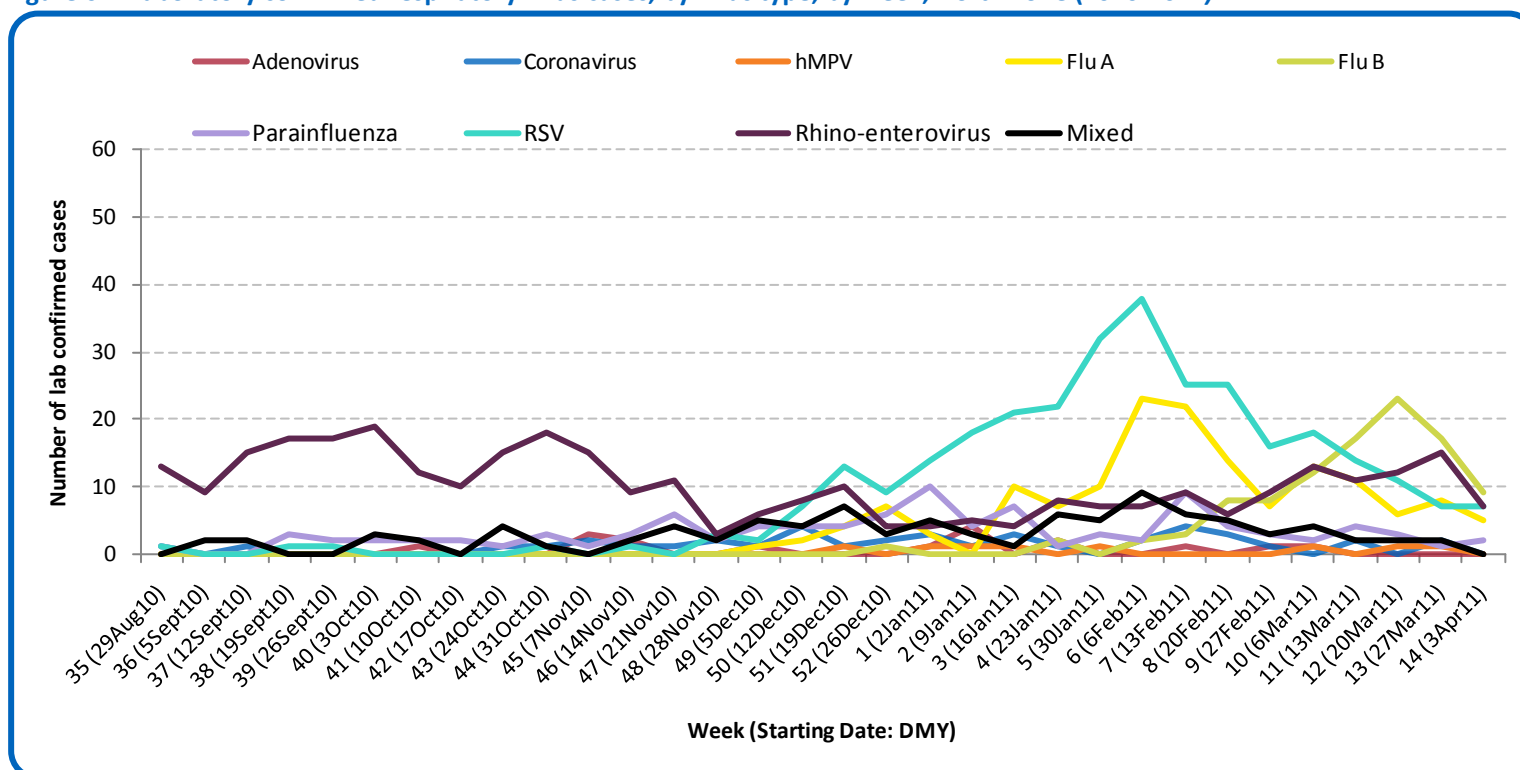
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 6A: Laboratory confirmed respiratory virus cases, by virus type, by week, North Zone (2010-2011)



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

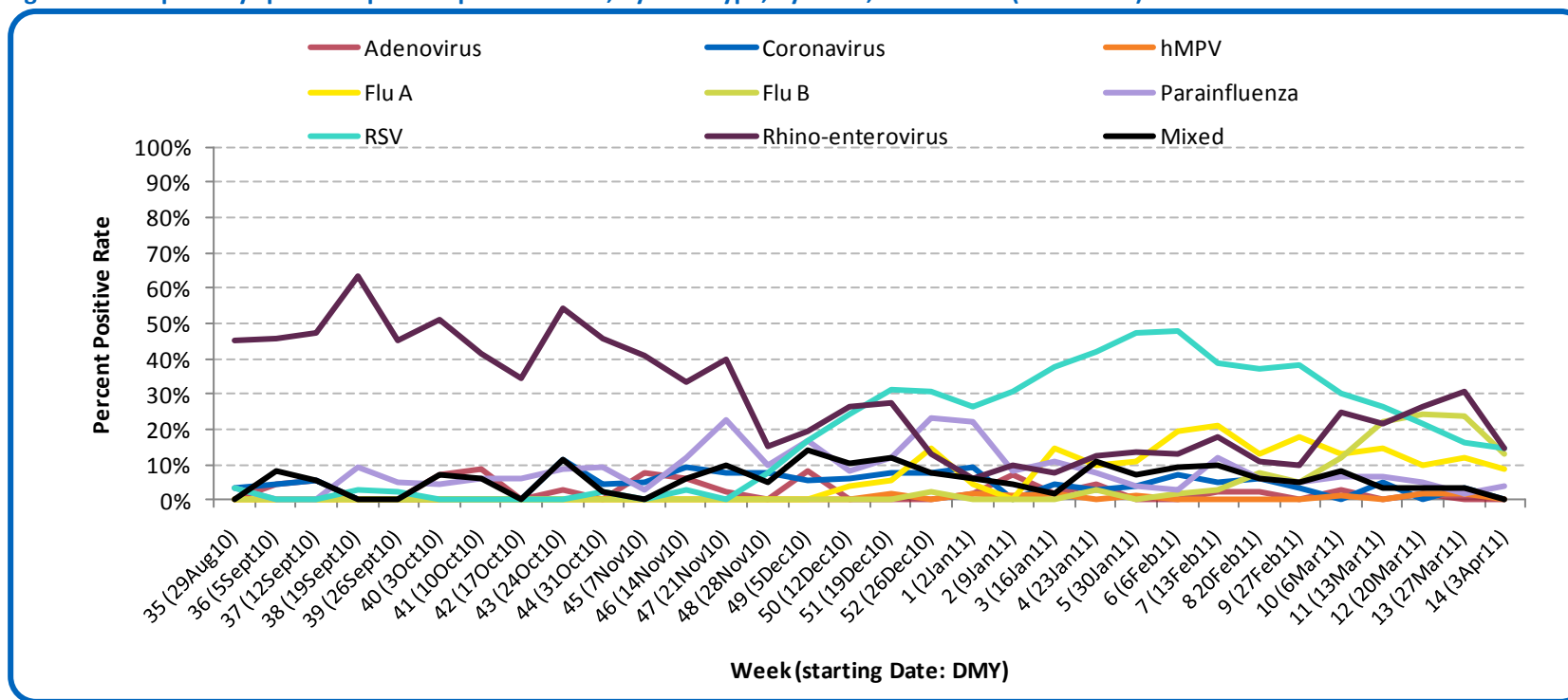
Public Health Surveillance

Report Date: April 12, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 6B: Respiratory specimen percent positive rates, by virus type, by week, North Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 9, 2011)
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

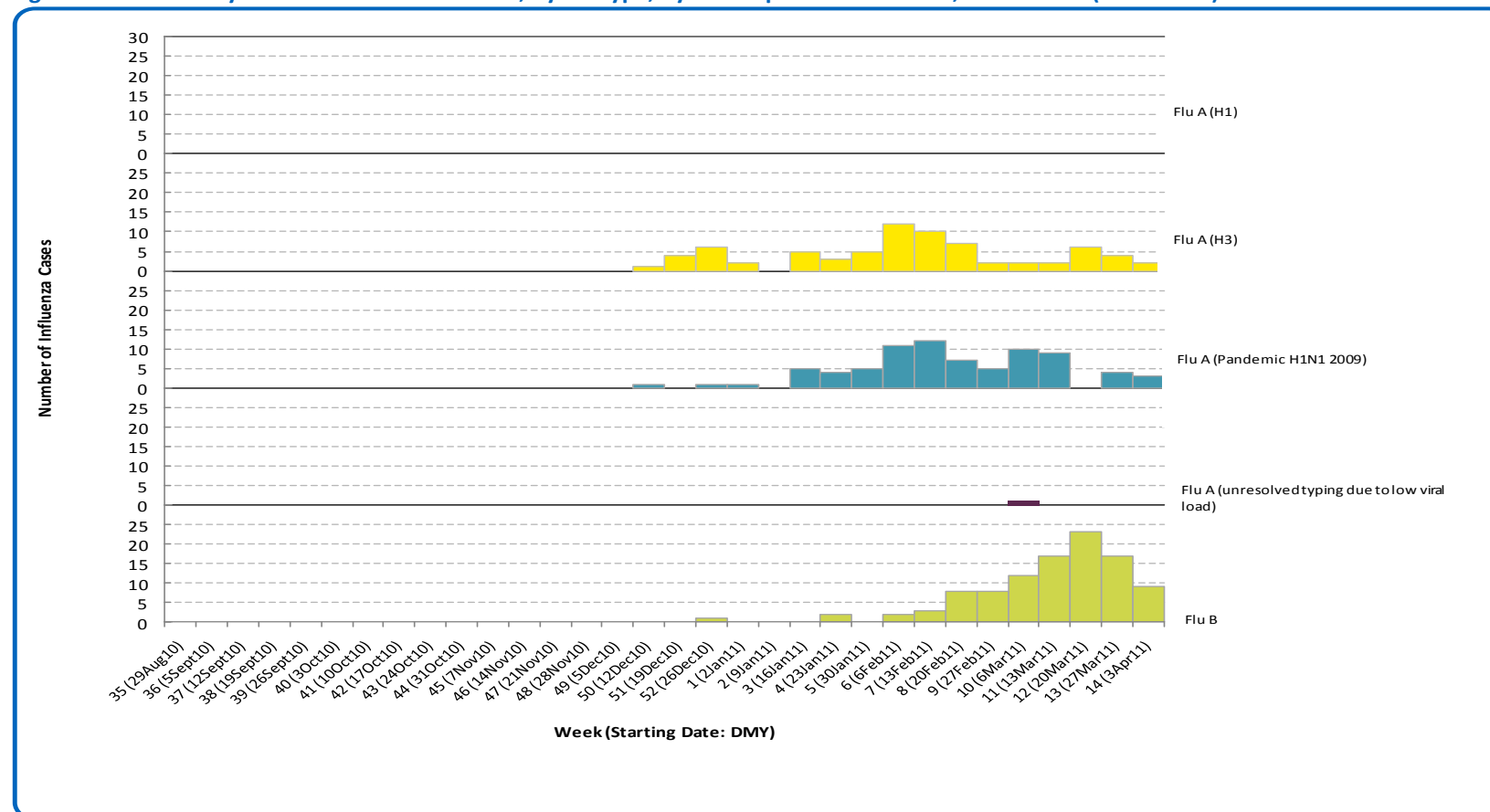
Public Health Surveillance

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Figure 6C: Laboratory confirmed influenza cases, by subtype, by week specimen received, North Zone (2010-2011)



*Note: Seven specimens were positive for influenza A and one or more other virus type(s).

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011).

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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Table 6A: New influenza cases (and age specific rates), by subtype, by age group, North Zone (Week 14: Apr 3-9, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	1	0.7
2 to <5 years	0	0.0	0	0.0	0	0.0	0	0.0	2	1.0	2	1.0
5 to <9 years	0	0.0	1	0.4	0	0.0	0	0.0	1	0.4	2	0.8
9 to <18 years	0	0.0	0	0.0	1	0.2	0	0.0	1	0.2	2	0.4
18 to <65 years	0	0.0	1	<0.1	2	0.1	0	0.0	4	0.1	7	0.2
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
75+ years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total	0	0.0	2	<0.1	3	0.1	0	0.0	9	0.2	14	0.3

Table 6B: Cumulative influenza cases (and age specific rates), by subtype, by age group, North Zone (Aug 29, 2010-Apr 9, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	14	9.8	17	11.9	1	0.7	16	11.2	48	33.7
2 to <5 years	0	0.0	7	3.4	4	2.0	0	0.0	17	8.4	28	13.8
5 to <9 years	0	0.0	11	4.5	5	2.1	0	0.0	13	5.3	29	11.9
9 to <18 years	0	0.0	9	1.6	11	2.0	0	<0.1	17	3.0	37	6.6
18 to <65 years	0	0.0	25	0.9	41	1.5	0	0.0	35	1.2	101	3.6
65 to <75 years	0	0.0	2	0.9	0	0.0	0	0.0	4	1.8	6	2.7
75+ years	0	0.0	5	3.1	0	0.0	0	0.0	0	0.0	5	3.1
Total	0	0.0	73	1.7	78	1.8	1	<0.1	102	2.3	254	5.8

Source for Tables 6A & 6B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 9, 2011).

Population data values used to calculate rates are for June 30, 2009 and are estimated using actual population values from the Alberta Health Care Insurance Plan (AHCIP) Registration File as of March 31, 2009.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

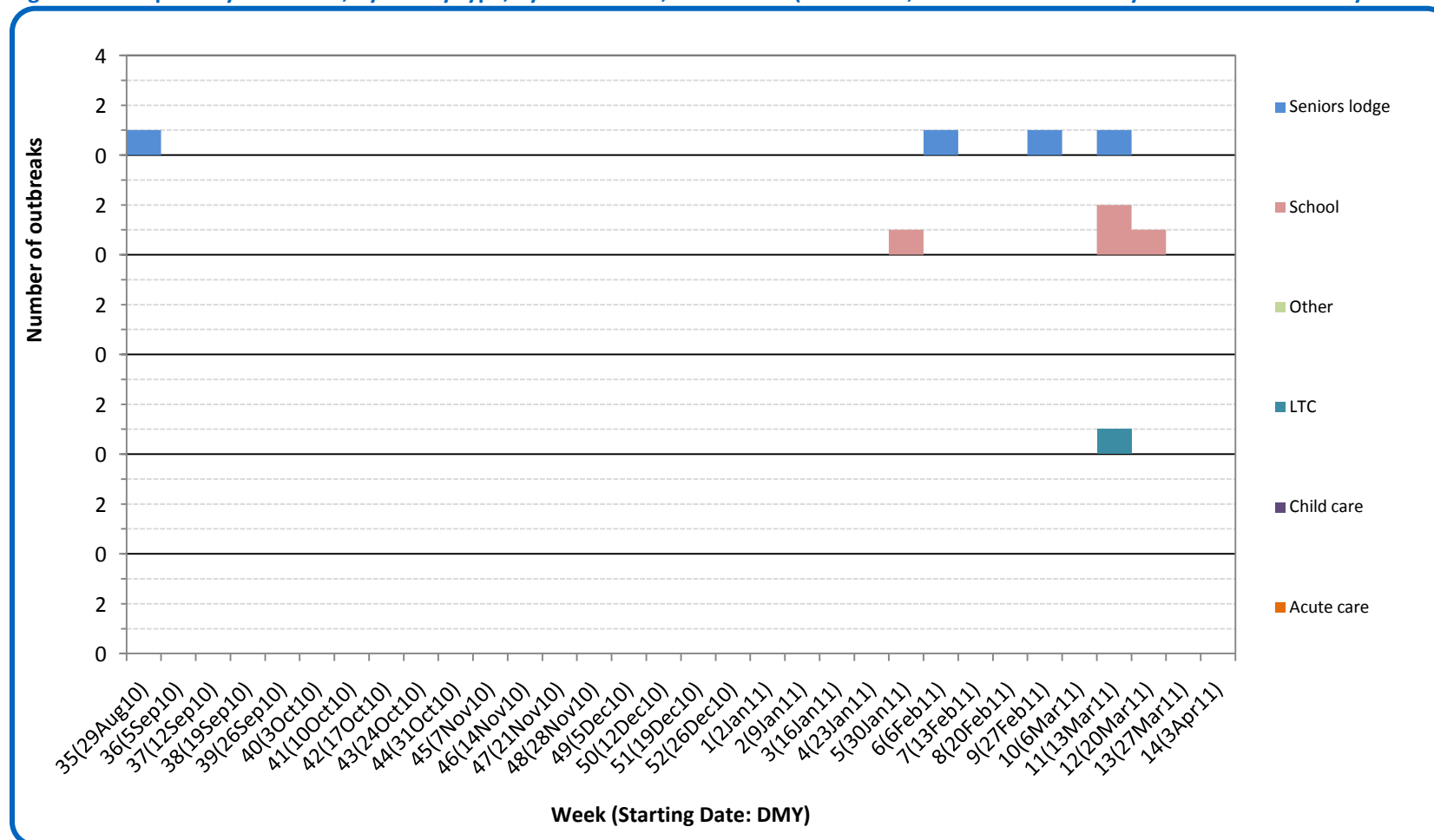
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Figure 6D: Respiratory outbreaks, by facility type, by onset week, North Zone (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 9, 2011. LTC stands for long term care facility. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

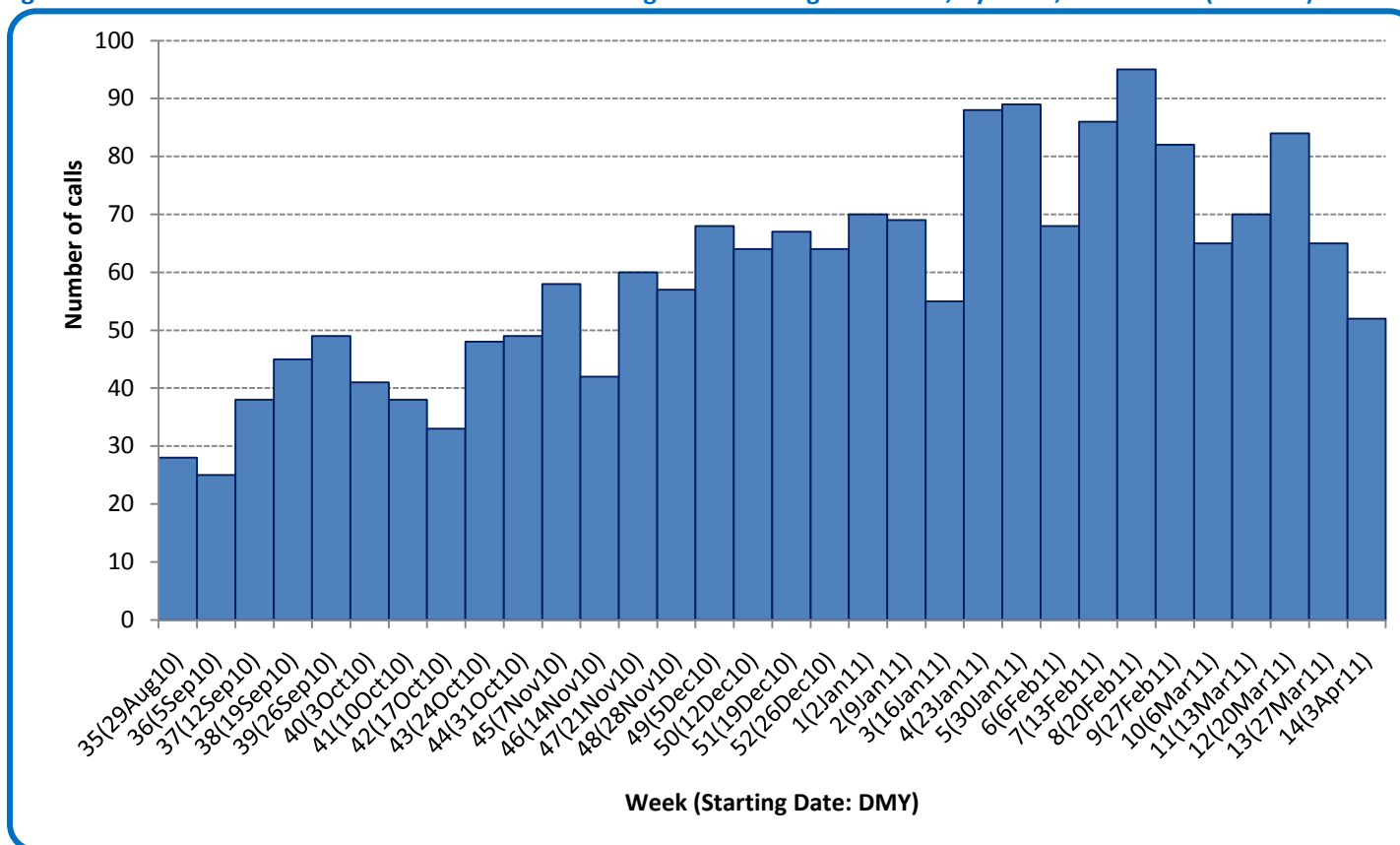
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Figure 6E: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, North Zone (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 9, 2011.
 For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

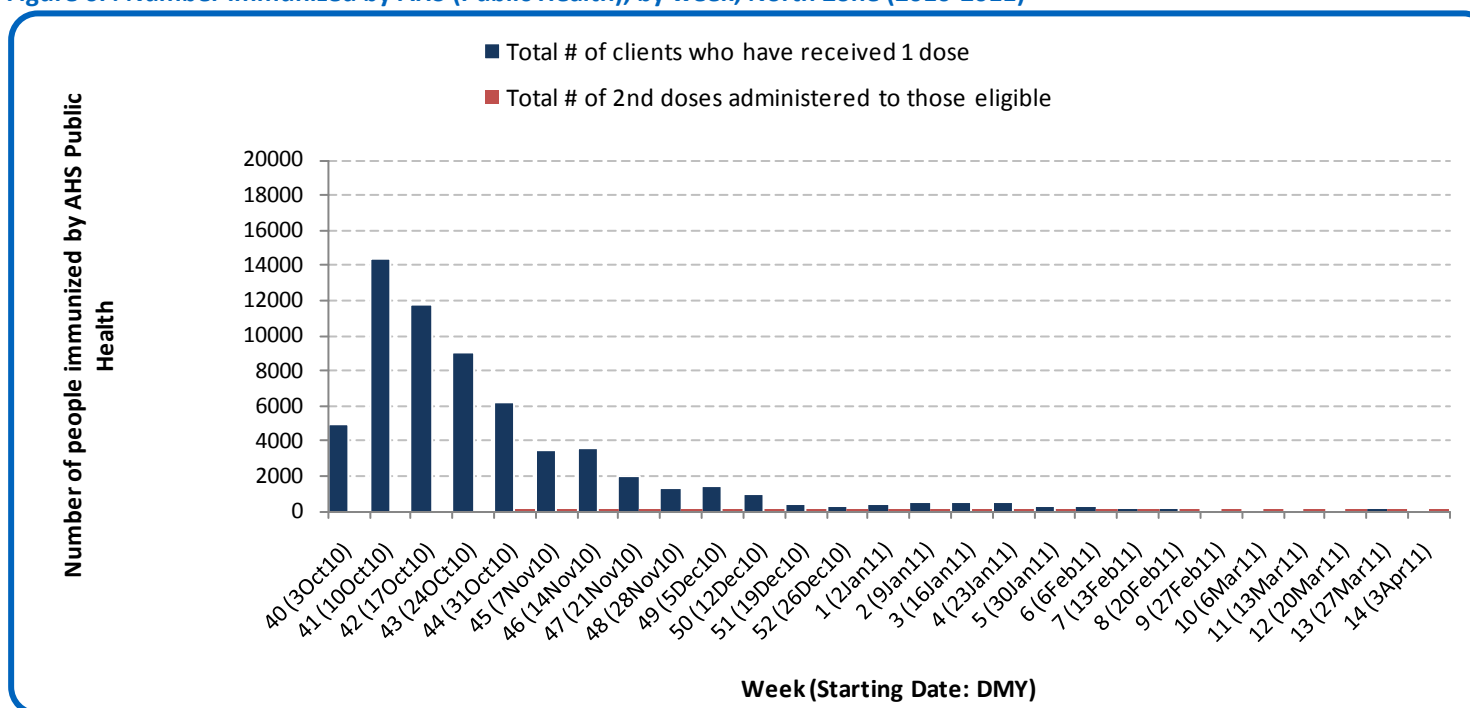
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Report Date: April 12, 2011

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Figure 6F: Number immunized by AHS (Public Health), by week, North Zone (2010-2011)



Source: AHS Zones (doses do not include those delivered by external providers)

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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Table 6C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, North Zone (2010-2011)

Priority Group		# Immunized (Week 14 – Apr 3-Apr 9, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		3	820
Health care workers		4	4,713
Pregnant women		0	572
Residents of long term care		0	1,249
65 years of age and over		7	15,811
All children 6 months up to and including 23 months*	Dose #1	5	2,444
	Dose #2	9	929
All children 24 months up to and including 59 months*	Dose #1	3	2,566
	Dose #2	1	141
High risk: 5 years up to and including 8 years*	Dose #1	5	964
	Dose #2	0	12
High risk: 9 years up to and including 64 years		4	7,872
Healthy: 5 years up to and including 8 years*	Dose #1	10	2,482
	Dose #2	0	63
Healthy: 9 years up to and including 64 years		17	23,624
Total number of clients who have received 1 dose		58	63,117
Total number of 2nd doses administered to those eligible*		10	1,145

Source: AHS Zones (doses do not include those delivered by external providers)

*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Table 6D: Influenza immunizations delivered by external partners, by priority group, North Zone (Oct 3-Dec 31, 2010)

Priority Group		# Immunized Oct 3-Dec 31, 2010
Long term care staff		9
Health care workers		153
Pregnant women		4
Residents of long term care		0
65 years of age and over		333
All children 6 months up to and including 23 months*	Dose #1	0
	Dose #2**	0
All children 24 months up to and including 59 months*	Dose #1	1
	Dose #2**	0
High risk: 5 years up to and including 8 years*	Dose #1	0
	Dose #2**	0
High risk: 9 years up to and including 64 years		633
Healthy: 5 years up to and including 8 years*	Dose #1	2
	Dose #2**	0
Healthy: 9 years up to and including 64 years		3,940
Total number of clients who have received 1 dose		5,075
Total number of 2nd doses administered to those eligible*		0

Source: AHS Zones (zones are required to report doses of seasonal influenza vaccine administered by community and other providers (e.g. physicians, pharmacists, LTC, WHS/OHS programs) twice during the influenza season. These numbers are from the first report (for doses delivered from Oct 3 to Dec 31, 2010). The remaining doses will be reported at a later date.

*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

**In some cases, it was not possible to separate dose 1's from dose 2's. Therefore, dose 1 category may contain some 2nd doses.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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ANNEX: DATA NOTES

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LABORATORY

Information on laboratory confirmed respiratory virus activity in Alberta is based on data from 2 sources:

- 1) Non-influenza viruses: The Alberta Provincial Public Health Laboratory DIAL system (Data Integration for Alberta Laboratories) – a specimen based system. Cases are determined by rationalizing samples from the same patient with the same virus identified within a 30-day period. The information (i.e. received date) from the first sample identifying the identical virus is used in this report.
- 2) Influenza viruses: The Alberta influenza Case Management System – an influenza case based system.

Both data sources are web-based applications supported by the Canadian Network for Public Health Intelligence.

The data in this report are based on specimens obtained from residents of Alberta; according to the date the specimen was received by the laboratory.

Definition for “mixed” – a single sample where multiple viral organisms were isolated.

INFLUENZA-LIKE ILLNESS

Four data sources are used to provide information on utilization of primary and acute care services by people with Influenza-Like Illness (ILI). *Caution: Each source uses potentially different definitions of ILI.*

1. Primary care summaries are obtained from the TARRANT system. Patients seen by TARRANT physicians may not be representative of the general population. Reported ILI cases represent people seen by TARRANT physicians, according to the date seen by the physician. The percentage of ILI represents the proportion of patients with ILI of all patients seen by the physician.
2. In addition to reporting visits of patients with ILI, TARRANT physicians also report visits with lower respiratory tract infections (LRTI). Each visit is recorded only once, even if a patient has symptoms consistent with ILI and LRTI. The combined ILI- and LRTI-related visits are therefore suggestive of overall respiratory infections in the patient population.
3. Information on visits for ILI in Emergency Departments (ED) and urgent care centers are provided by the Alberta Real Time Syndromic Surveillance Net (ARTSSN) data repository. ILI designation is based on patients being screened in emergency departments with an ILI screening tool. The primary purpose of the ILI screening tool is to implement appropriate infection control measures. The original data sources fed to the ARTSSN data repository are EDIS (Emergency Department Information System) for the Edmonton Zone and REDIS for the Calgary Zone.
4. Health Link Alberta is a 24 hour a day, 7 day a week nurse telephone advice and health information service that provides the public with advice and information about health symptoms and concerns. The original data source for the daily calls to Health Link Alberta for ILI, cough, and breathing difficulties is the Health Link database called Sharp Focus.

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OUTBREAKS

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Upon notification of an outbreak, the *Alberta Health & Wellness/Alberta Health Services* Outbreak Reporting Form (Fillable PDF) is completed by Zone Public Health investigators and sent to *Alberta Health & Wellness and AHS Public Health Surveillance*. The form includes information about the type and location of the outbreak, type of facility, and the causative organism (confirmed or suspected). There may be a delay between the reporting of an outbreak and the identification of the organism. This report includes only those outbreaks that are laboratory confirmed and caused by influenza-like illness viruses; outbreaks that are caused by bacteria (i.e. pertussis, invasive pneumococcal disease) and other types of viruses (i.e. measles, rubella (German measles), chickenpox) are excluded. Also excluded are those outbreaks that have no causative agent identified by the Provincial Laboratory for Public Health or where specimens are not tested or an outbreak with only one infected (confirmed or probable) case during a 7 day period. This follows the same approach of PHAC FluWatch for defining ILI/influenza outbreak. The naming convention of outbreak facilities by FluWatch - "Hospital and residential institutions" - is also adopted. Outbreaks in schools are officially counted in tables or graphs whether there is or not a laboratory confirmation; outbreaks in hospital and residential institutions that are pending for laboratory confirmation are described for information only but not officially presented in graphs or tables in this report.

INFLUENZA IMMUNIZATIONS

Influenza immunization data are reported by AHS zones. Numbers are available to the Public Health Surveillance team at the beginning of the week for the doses administered the previous week (Sunday to Saturday). It includes those doses administered by AHS (Public Health) only. Clients can only exist in one priority group. Immunization coverage rates will be reported at the end of March, 2011.

POPULATION NUMBERS

Population data values used to calculate rates are for June 30, 2009 and are estimated using actual population values from the Alberta Health Care Insurance Plan (AHCIP) Registration File as of March 31, 2009. The following registrants are included: residents of Alberta; 'residents' of Alberta temporarily living elsewhere, such as extended visits or vacations or students attending an educational institute outside of Alberta, or Albertans temporarily (up to four years) working outside Alberta; persons during the first three months after they move from Alberta to another Canadian province; dependants of members of the RCMP and Armed Forces; persons from another country who are working or studying in Alberta on valid visas; and Natives/Aboriginals whose premiums are paid by Health Canada, First Nations and Inuit Health Branch. Not included are: members of the Armed Forces and RCMP; inmates at federal penitentiaries; persons from other provinces during their first three months in Alberta; and persons who have not registered for eligibility, or have opted out.

Slight differences between values provided at this level of aggregation and data provided at other levels of aggregation may occur because of round-off error. Population values are subject to change without notice when new source data is received.

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