

Weekly Report

April 5th, 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?

- Recent reports out of Europe indicate that countries in that part of the world are experiencing unchanging or decreasing influenza activity. Influenza B is either dominant or co-dominant with influenza A (H1N1) 2009. A small proportion of influenza B of the Yamagata lineage have been detected, which is not a component of the 2010-2011 influenza vaccine. RSV activity in Europe is declining.
- According to the most recent information, ongoing transmission of influenza A (H1N1) 2009 and influenza type B continues in parts of Northern Africa and the Middle East. Activity in Asia remains relatively low where influenza A (H1N1) 2009, influenza A (H3N2) and influenza B are co-circulating.
- In the US, influenza activity is decreasing, although the proportion of deaths attributed to pneumonia and influenza has been at or above the epidemic threshold for several weeks. The pediatric deaths reported have been associated with each of the influenza viruses circulating - influenza B, influenza A (H1N1) 2009 and influenza A (H3N2).
- Influenza B continues to increase steadily in most areas of Canada, with the exception of the Atlantic provinces. Generally, influenza activity has declined in Ontario, Quebec, the Atlantic provinces, and most of western Canada, but persists in parts of Alberta. National reports of hospitalizations associated with influenza have been decreasing as well.
- Despite continuing reports of respiratory outbreak activity, respiratory virus activity seems to be declining in most areas of the province. One exception to this is in South Zone, where there appears to be increased activity, possibly due to increased influenza B transmission. As of the end of last week (Apr 2, 2011), the total number of influenza cases confirmed in the province this season is 1251, of which 38.7% have been identified as influenza A (H3), 17.7% as influenza A (H1N1) 2009, 41.6% as influenza type B, and 2.1% influenza A with unresolved sub-typing.
- Since the last update, four respiratory outbreaks have been confirmed in Alberta; all in long term care facilities. One, attributed to coronavirus, was in Calgary Zone with symptom onset in Week 12 (Mar 20-26, 2011). Another, attributed to influenza A (H3), occurred in Central Zone with symptom onset in Week 10 (Mar 6-12, 2011). The remaining two outbreaks were attributed to RSV and occurred in North Zone (onset in Week 11 - Mar 13-19, 2011) and Edmonton Zone (onset in Week 12). In addition to the outbreaks confirmed, three new respiratory outbreaks were reported last week including one in a Calgary Zone long term care facility (9% preliminary attack rate). The other two occurred in Central Zone - one in a seniors' lodge and the other in a long term care facility. The preliminary attack rates for these were 25% and 9%, respectively. Laboratory confirmation is pending for these three outbreaks. Of note, all specimens tested negative for the two outbreaks in Edmonton Zone long term care facilities mentioned in last week's report.

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					Alberta
			Week 35 (starting Aug 29/10) to Week 13 (starting Mar 27/11)					
			South	Calgary	Central	Edmonton	North	
Laboratory Confirmed Cases	Number of cases with a positive respiratory specimen ¹	Adenovirus	6	41	11	78	17	153
		Coronavirus	12	69	39	110	40	270
		Human metapneumovirus (hMPV)	9	5	1	15	8	38
		Influenza A	42	194	100	251	144	731
		Influenza B	60	158	51	158	93	520
		Parainfluenza	30	100	57	192	101	480
		Respiratory syncytial virus (RSV)	118	459	203	745	304	1829
		Rhino enterovirus	106	462	172	643	319	1702
		Mixed	37	146	55	155	91	484
		Total	420	1634	689	2347	1117	6207
Outbreaks	# laboratory confirmed respiratory outbreaks ²		0	23	10	34	7	74
Influenza Immunizations	Total number of clients who have received 1 dose administered by AHS Public Health ³ (cumulative since Oct 3, 2010)		43,303	193,433	61,886	162,200	63,059	523,881
	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 2, 2011).

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

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

⁴ In 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 5, 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 mixed in Alberta. Although respiratory outbreaks continue to be reported, it appears that activity is declining in most areas of the province. The exception to this is in South Zone where there appears to be a recent increase in activity, possibly due to influenza B transmission.

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

Influenza A activity continues to decline. For the first time in several weeks, influenza B activity declined slightly in Week 13 (Mar 27-Apr 2, 2011) from the previous week. Despite this, the majority of the influenza cases confirmed in Week 13 were identified as influenza B. As of the end of last week (Apr 2, 2011), the total number of confirmed cases of influenza in the province this season is 1251 (38.7% influenza A (H3), 17.7% influenza A (H1N1) 2009, 41.6% influenza type B, and 2.1% 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 17.5 per 10,000 compared to 7.4 per 10,000 or lower for all other age groups.

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

Since last weeks' report, four respiratory outbreaks have been confirmed in Alberta; all in long term care facilities. One occurred in Calgary Zone, with symptom onset in Week 12 (Mar 20-26, 2011), and was attributed to coronavirus. Another occurred in Central Zone, with symptom onset in Week 10 (Mar 6-12, 2011), and was attributed to influenza A (H3). The remaining two outbreaks were both attributed to RSV and occurred in North Zone (onset during Week 11 – Mar 13-19, 2011) and Edmonton Zone (onset during Week 12). Of note, the two outbreaks in Edmonton Zone long term care facilities mentioned in last week's report had all specimens test negative.

In addition to the above, three respiratory outbreaks were reported since last week's report. One occurred in a Calgary Zone long term care facility and had a preliminary attack rate of 9%. The other two occurred in Central Zone – one in a seniors' lodge and the other in a long term care facility. The preliminary attack rates for these were 25% and 9%, respectively. Laboratory confirmation is pending for these three outbreaks.

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 by Albertans 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 by 12% and 17%, respectively, in Week 13 (Mar 27-Apr 2, 2011) from the previous week. Generally, these indicators have been fluctuating in recent weeks.

The number of emergency department visits for cough decreased by 12% in Week 13 (Mar 27-Apr 2, 2011) from the previous week, while the number of hospital admissions for this reason increased by 60%. 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 decreased in Week 12 (Mar 20-26, 2011) compared to the previous week. Generally, this indicator appears to be declining.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

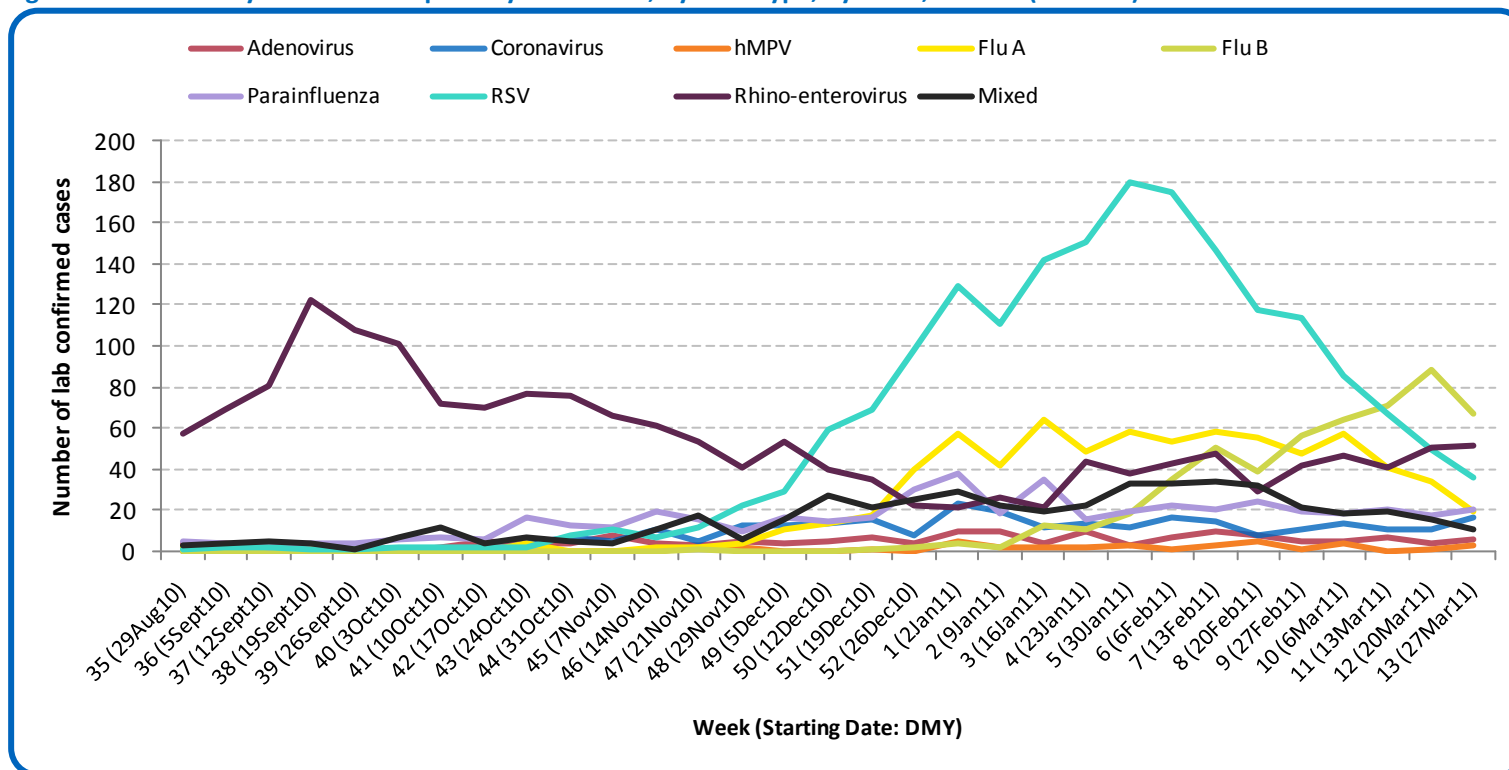
Public Health Surveillance

Report Date: April 5, 2011

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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 2, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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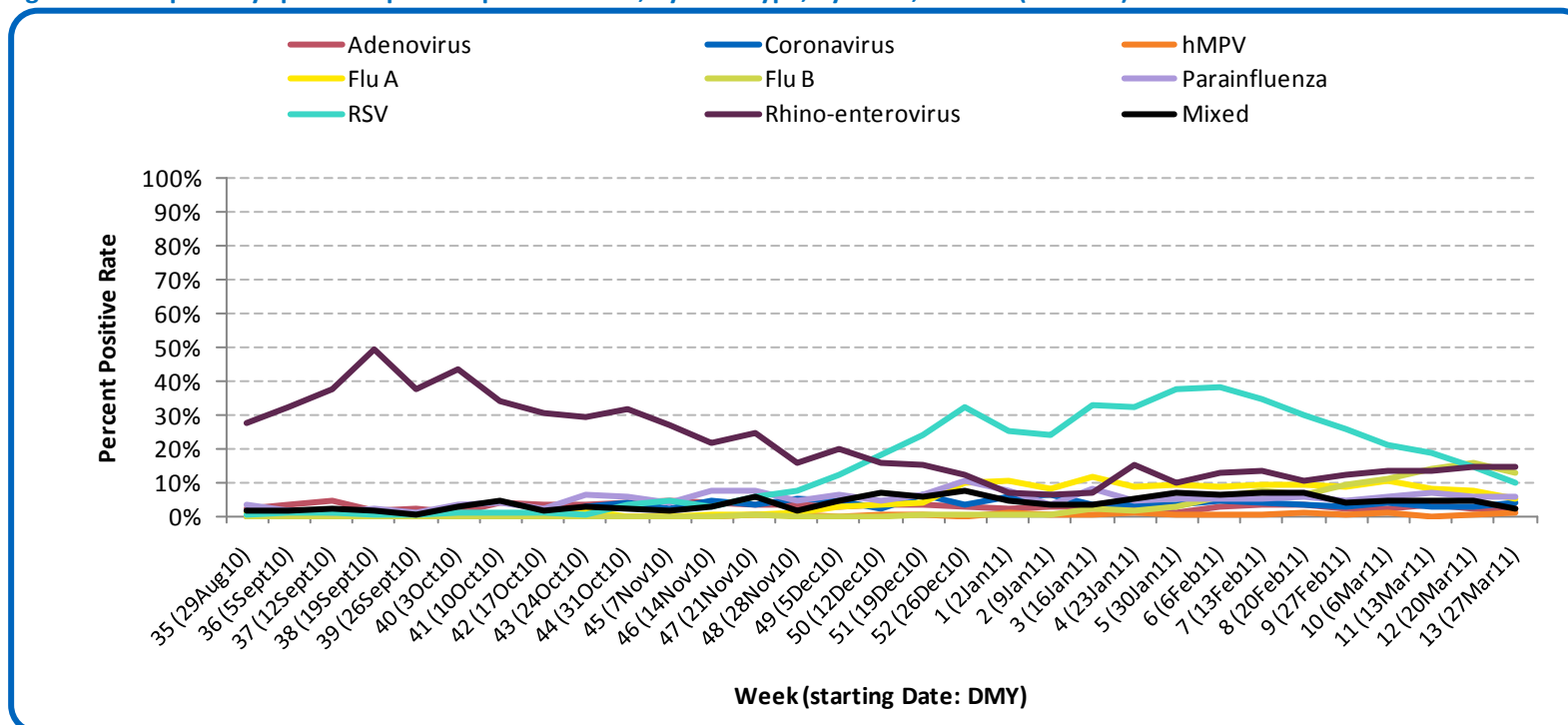
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Figure 1B: Respiratory specimen percent positive rates, by virus type, by week, Alberta (2010-11)



Sources: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 2, 2011).

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

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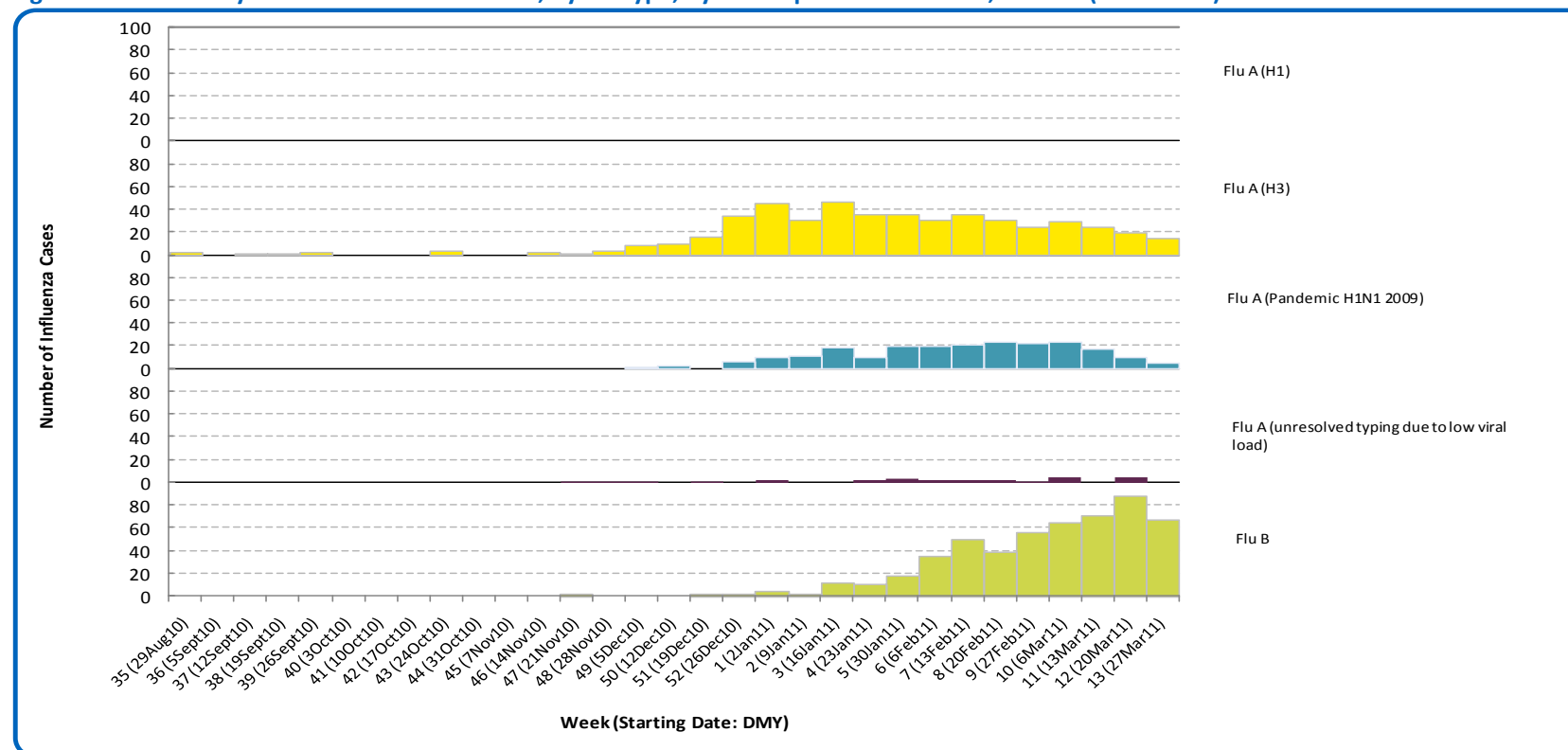
Public Health Surveillance

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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 2, 2011).

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SURVEILLANCE AND HEALTH STATUS ASSESSMENT

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Table 1A: New influenza cases (and age specific rates), by subtype, by age group, Alberta (Week 13: Mar 27-Apr 2, 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	3	0.3	1	0.1	0	0.0	10	1.0	14	1.4
2 to <5 years	0	0.0	3	0.2	0	0.0	0	0.0	7	0.5	10	0.7
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	12	0.7	12	0.7
9 to <18 years	0	0.0	1	<0.1	0	0.0	0	0.0	7	0.2	8	0.2
18 to <65 years	0	0.0	5	<0.1	4	<0.1	0	0.0	26	0.1	35	0.1
65 to <75 years	0	0.0	1	<0.1	0	0.0	0	0.0	4	0.2	5	0.2
75+ years	0	0.0	1	0.1	0	0.0	0	0.0	1	0.1	2	0.1
Total	0	0.0	14	<0.1	5	<0.1	0	0.0	67	0.2	86	0.2

Table 1B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Alberta (Aug 29, 2010 – Apr 2, 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	73	7.1	28	2.7	5	0.5	75	7.3	181	17.5
2 to <5 years	0	0.0	39	2.6	15	1.0	2	0.1	54	3.6	110	7.4
5 to <9 years	0	0.0	33	1.8	10	0.6	2	0.1	79	4.4	124	6.9
9 to <18 years	0	0.0	30	0.7	17	0.4	3	0.1	122	2.9	172	4.1
18 to <65 years	0	0.0	202	0.8	148	0.6	11	<0.1	159	0.7	520	2.1
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	86	4.7	0	0.0	3	0.2	15	0.8	104	5.6
Total	0	0.0	484	1.3	221	0.6	26	0.1	520	1.4	1251	3.4

Source for Table 1A & 1B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 2, 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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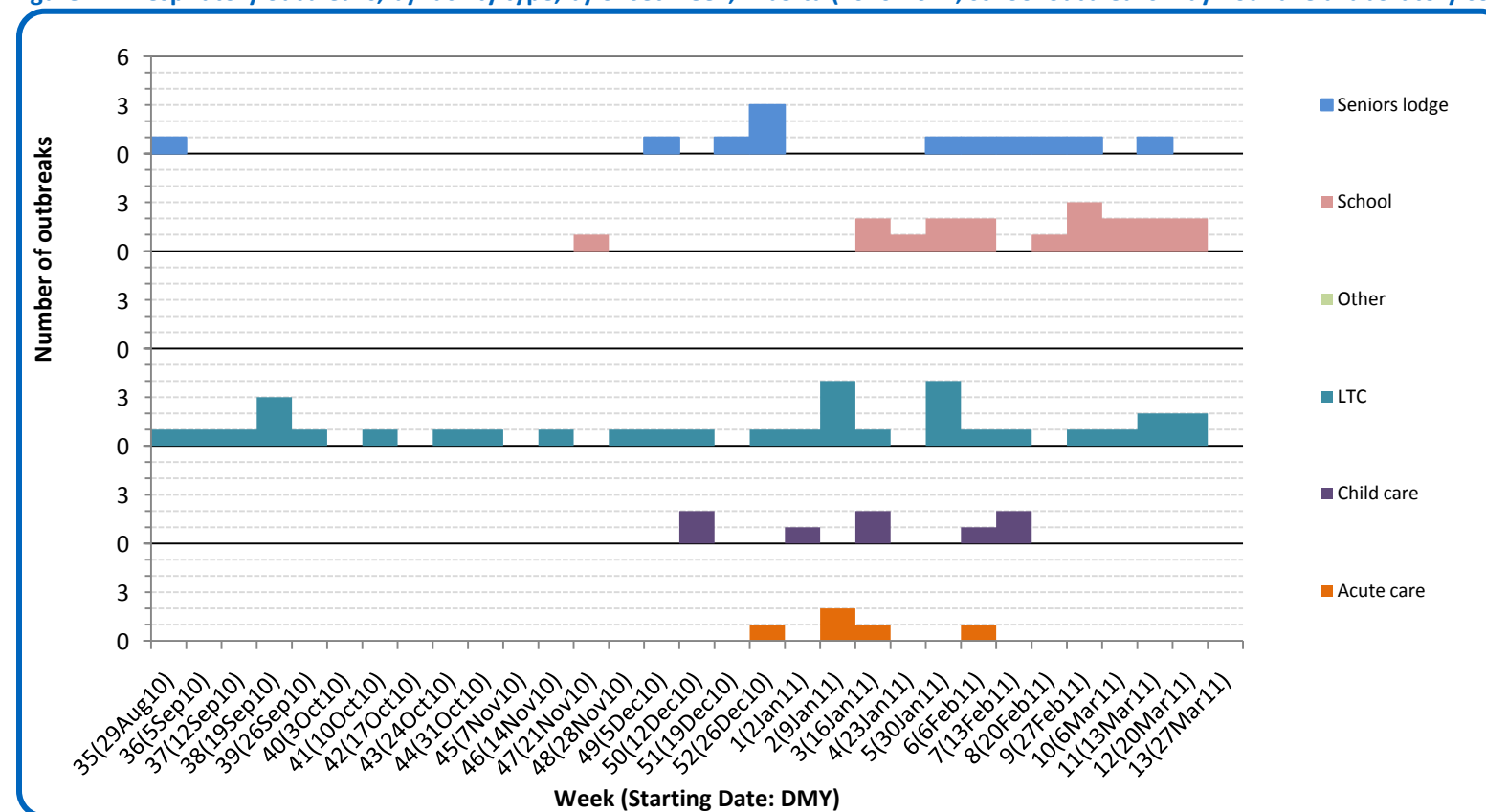
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Figure 1D: Respiratory outbreaks, by facility type, by onset week, Alberta (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 2, 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](#)

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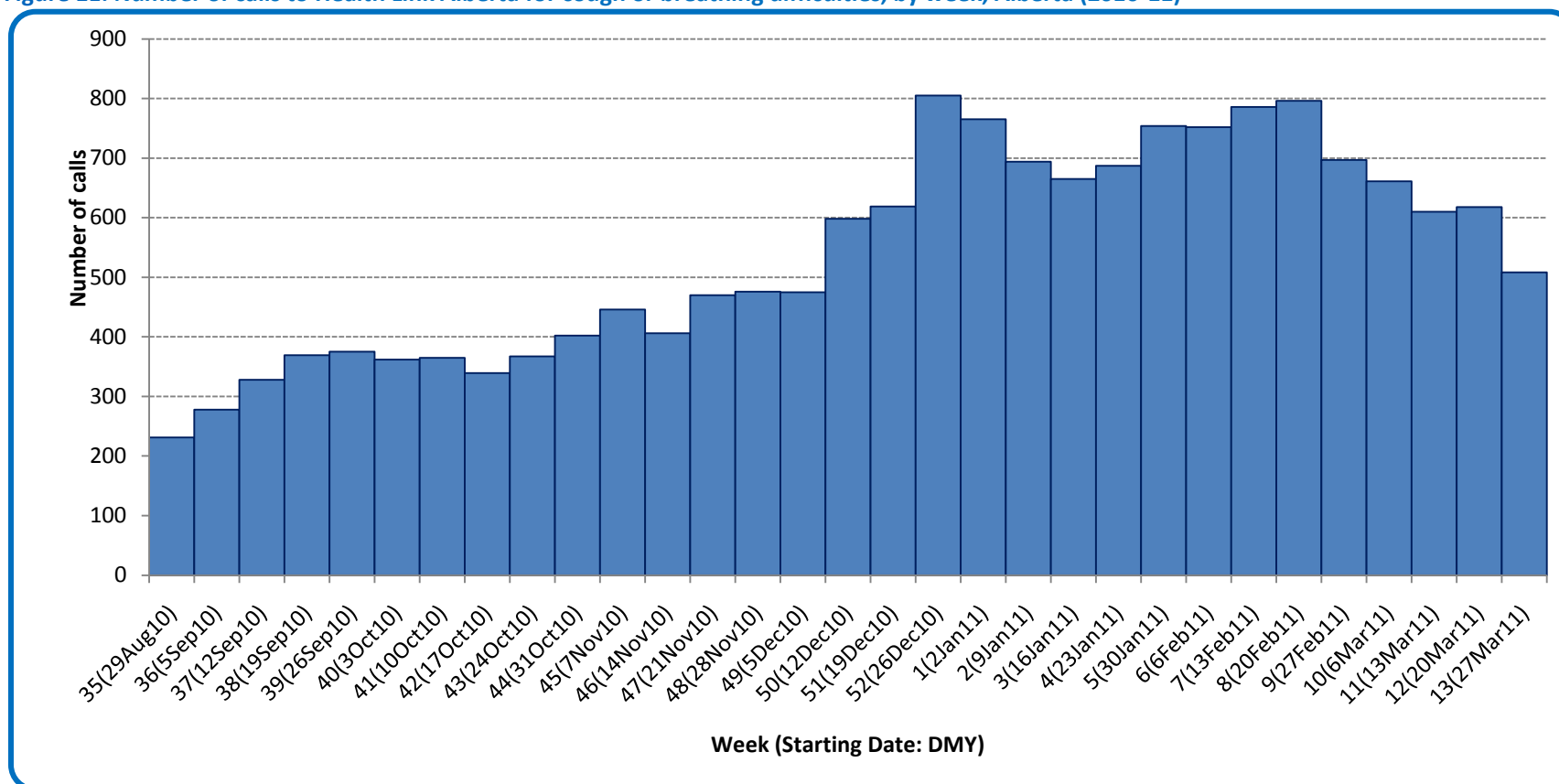
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Report Date: April 5, 2011

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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 2, 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

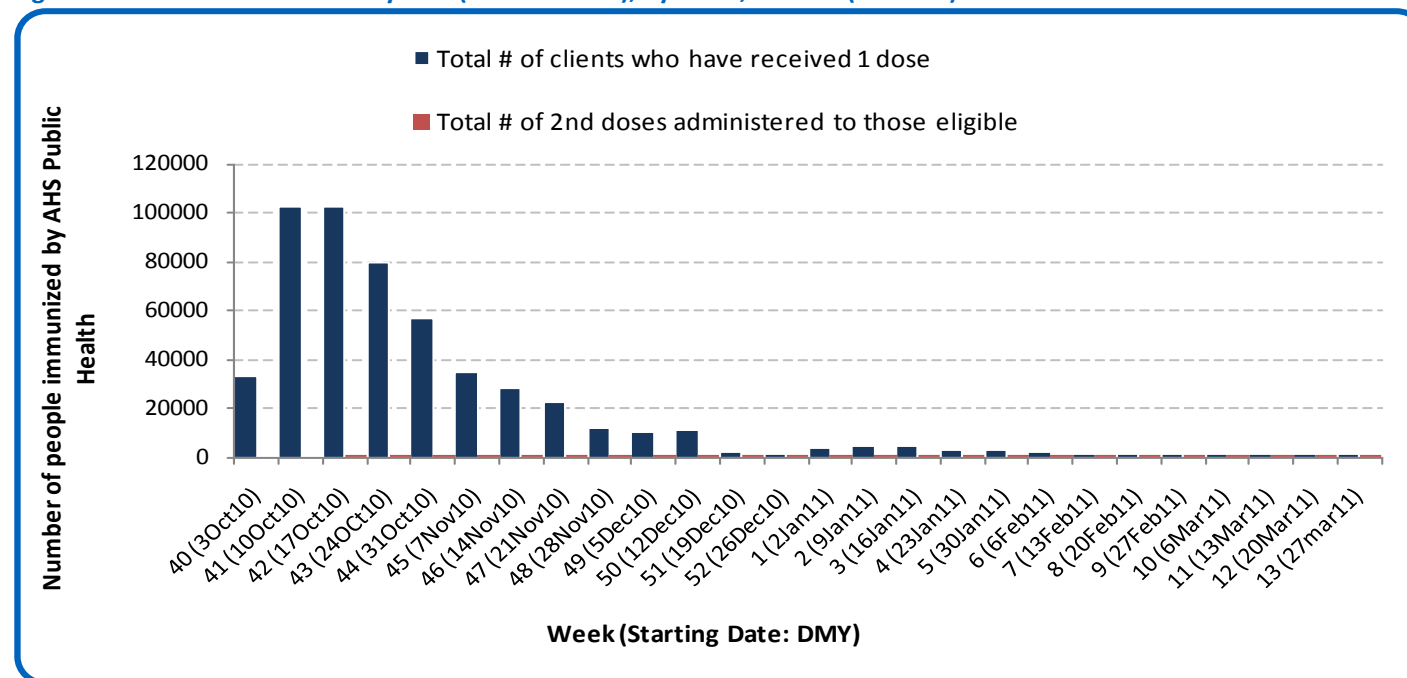
Public Health Surveillance

Report Date: April 5, 2011

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

Priority Group		# Immunized (Week 13 – Mar27-Apr2, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		2	2,643
Health care workers		31	19,072
Pregnant women		15	4,754
Residents of long term care		2	4,842
65 years of age and over		17	146,794
All children 6 months up to and including 23 months*	Dose #1	401	27,640
	Dose #2	302	9,247
All children 24 months up to and including 59 months*	Dose #1	75	25,576
	Dose #2	28	1,538
High risk: 5 years up to and including 8 years*	Dose #1	22	5,859
	Dose #2	2	156
High risk: 9 years up to and including 64 years		48	56,062
Healthy: 5 years up to and including 8 years*	Dose #1	57	18,958
	Dose #2	18	655
Healthy: 9 years up to and including 64 years		395	211,681
Total number of clients who have received 1 dose		1,065	523,881
Total number of 2nd doses administered to those eligible*		350	11,596

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 5, 2011

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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

Despite that there has been no outbreak activity reported in South Zone, laboratory data and calls to Health Link Alberta indicate an increasing trend in respiratory virus activity, possibly related to an increase in influenza B transmission.

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

Influenza B activity increased in Week 13 (Mar 27-Apr 2, 2011) compared to the previous week. This increasing trend has been occurring for several weeks now. As of the end of last week (Apr 2, 2011), the total number of laboratory confirmed cases of influenza in this part of the province this season is 102. 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 9.6 per 10,000 and 13.3 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 by residents of South Zone increased from Week 12 (Mar 20-26, 2011) to Week 13 (Mar 27-Apr 2, 2011). This is the second increase in a row after a period of decline.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

This information is not available for South Zone.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

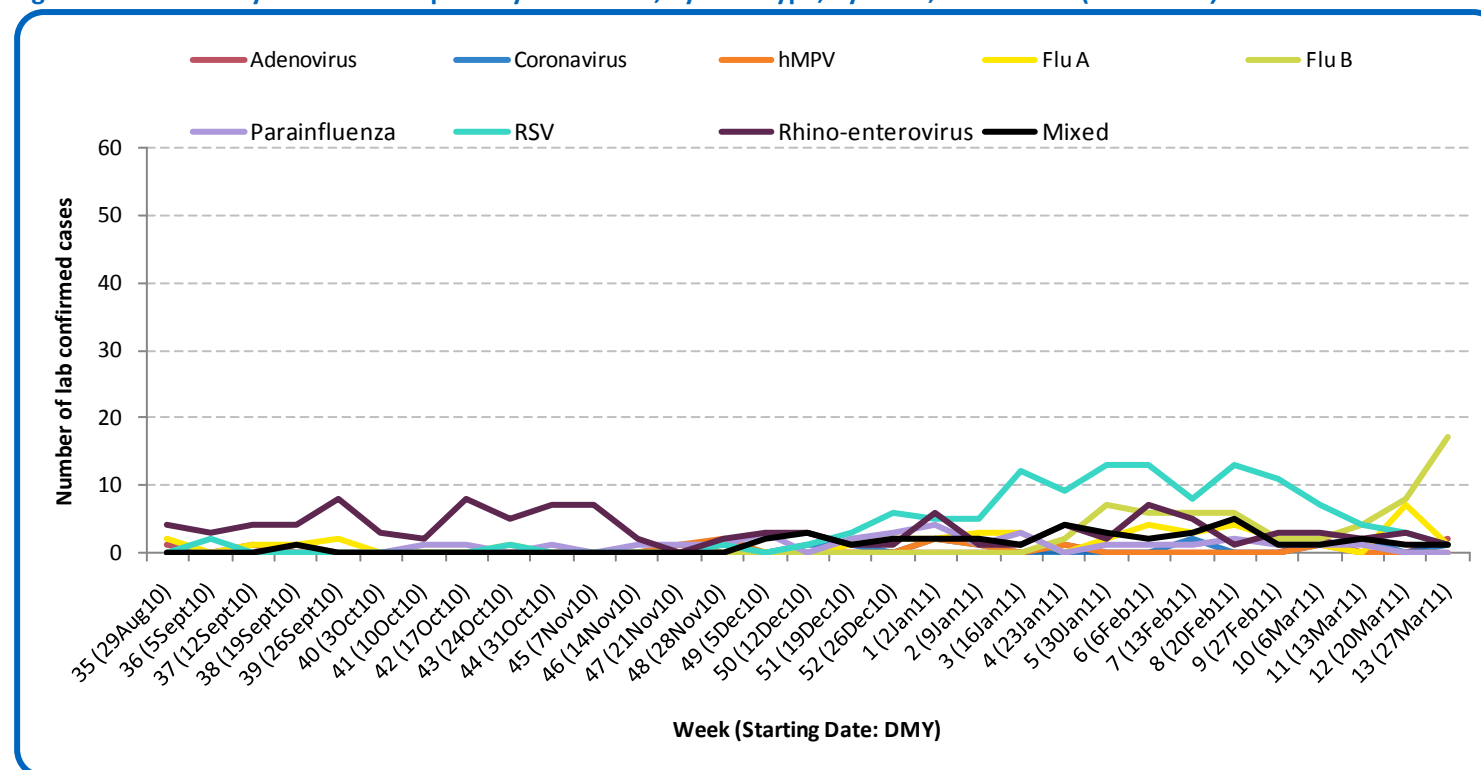
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Figure 2A: Laboratory confirmed respiratory virus cases, by virus type, by week, South Zone (2010-2011)



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 2, 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

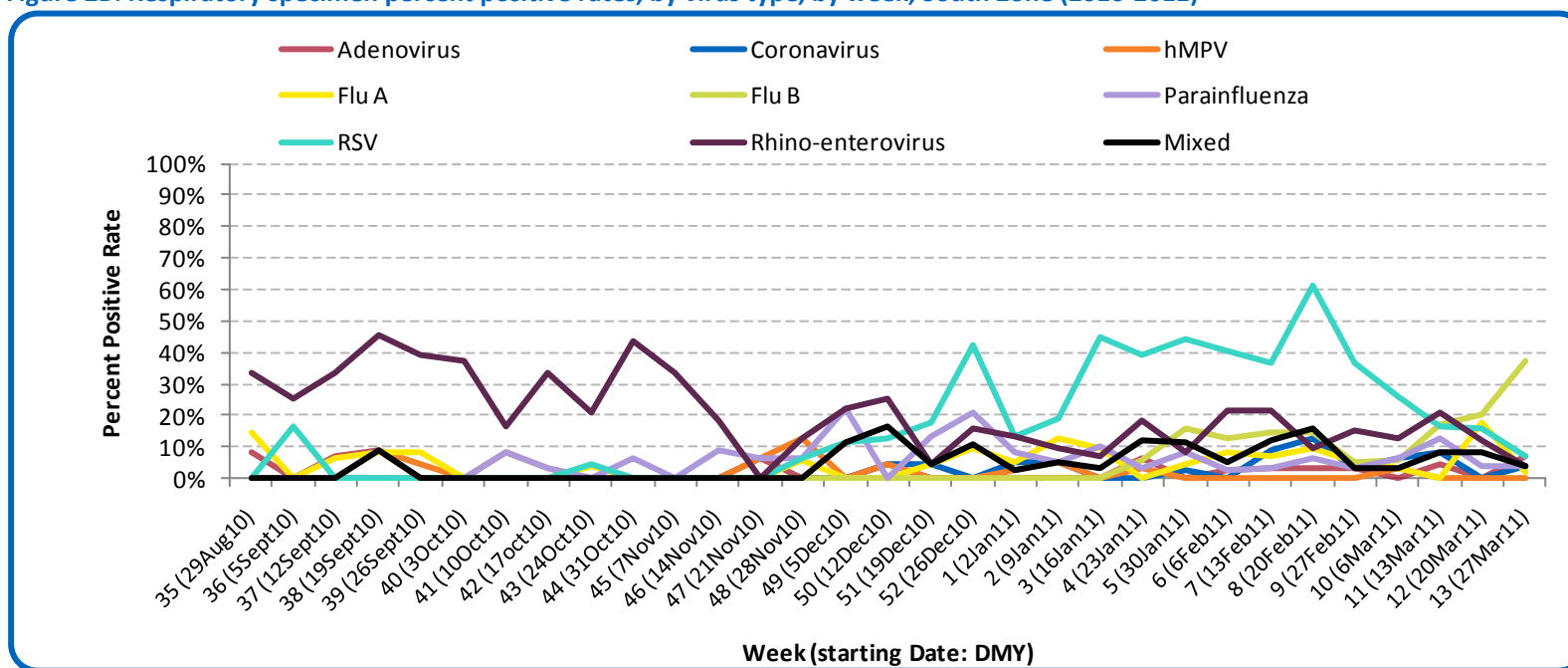
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Figure 2B: Respiratory specimen percent positive rates, by virus type, by week, South Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 2, 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

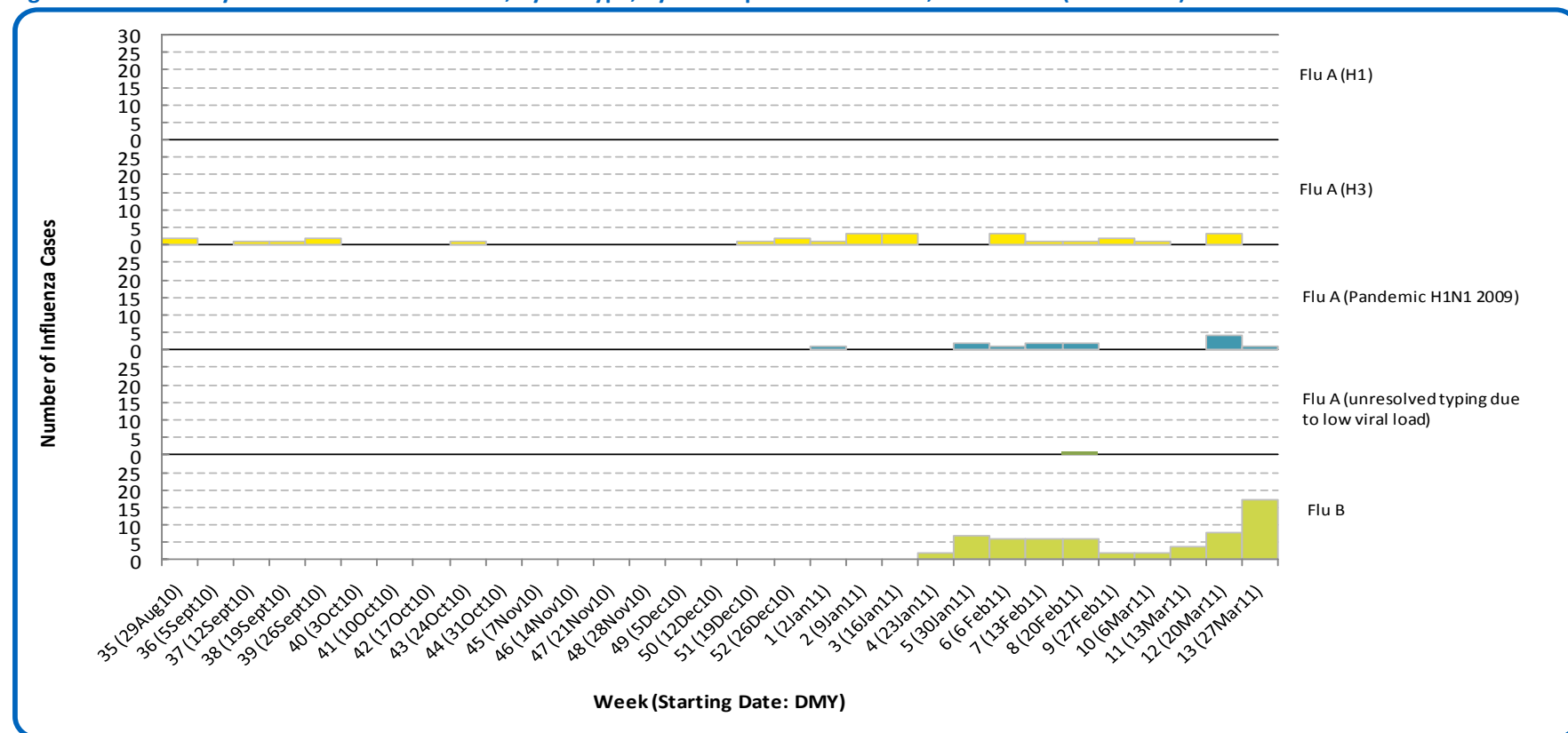
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Figure 2C: Laboratory confirmed influenza cases, by subtype, by week specimen received, South Zone (2010-2011)



Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 2, 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

Public Health Surveillance

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Table 2A: New influenza cases (and age specific rates), by subtype, by age group, South Zone (Week 13: Mar 27-Apr 2, 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	1.2	1	1.2
2 to <5 years	0	0.0	0	0.0	0	0.0	0	0.0	3	2.5	3	2.5
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	1	0.7
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	2	0.6	2	0.6
18 to <65 years	0	0.0	0	0.0	1	0.1	0	0.0	9	0.5	10	0.6
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.5	1	0.5
75+ years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total	0	0.0	0	0.0	1	<0.1	0	0.0	17	0.6	18	0.6

Table 2B: Cumulative influenza cases (and age specific rates), by subtype, by age group, South Zone (Aug 29, 2010–Apr 2, 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	3	3.6	0	0.0	0	0.0	5	6.0	8	9.6
2 to <5 years	0	0.0	5	4.2	2	1.7	0	0.0	9	7.5	16	13.3
5 to <9 years	0	0.0	1	0.7	0	0.0	0	0.0	5	3.4	6	4.1
9 to <18 years	0	0.0	0	0.0	1	0.3	0	0.0	16	4.7	17	5.0
18 to <65 years	0	0.0	18	1.0	8	0.5	1	0.1	22	1.3	49	2.8
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	28	1.0	13	0.5	1	<0.1	60	2.1	102	3.6

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

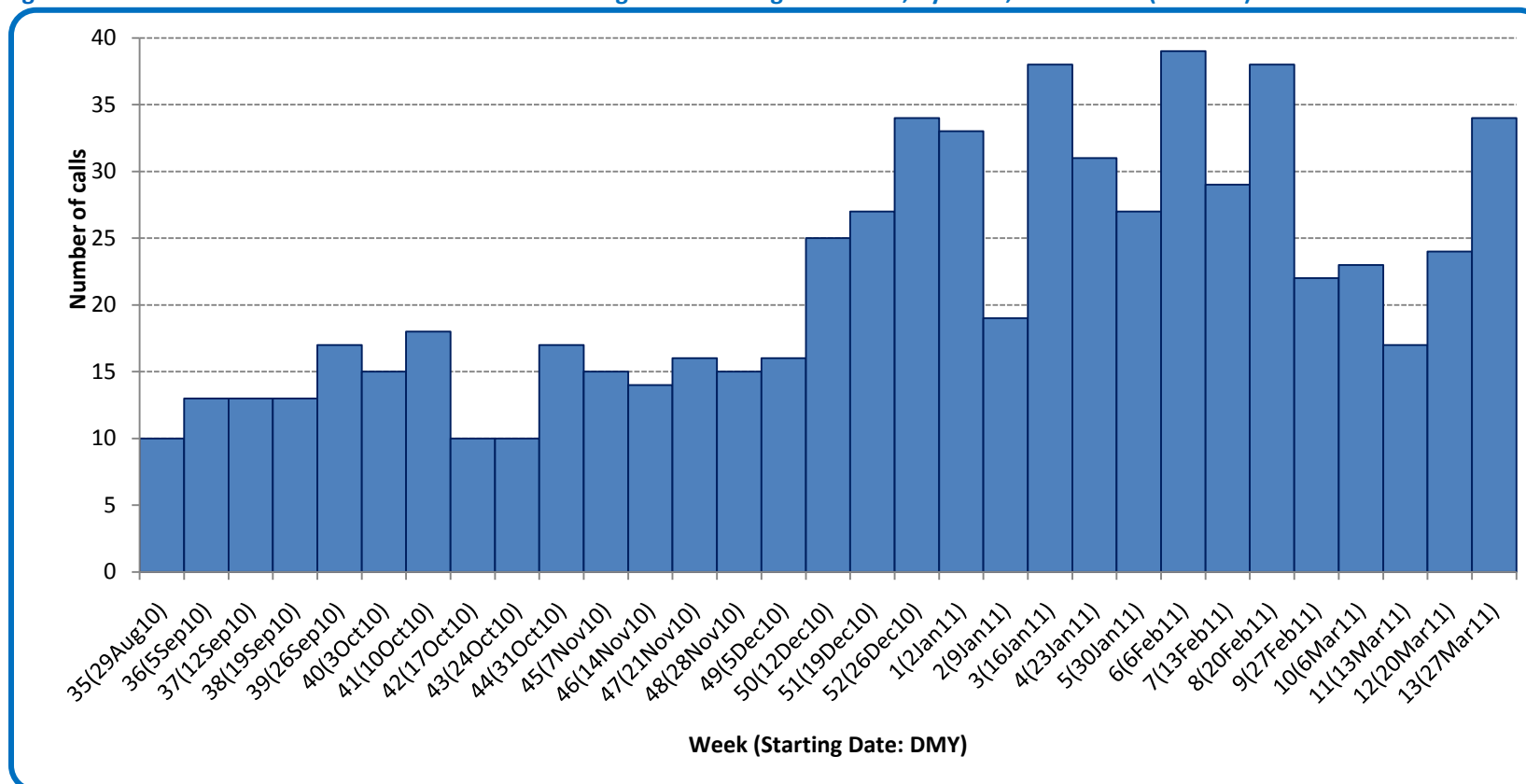
Public Health Surveillance

Report Date: April 5, 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 2, 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

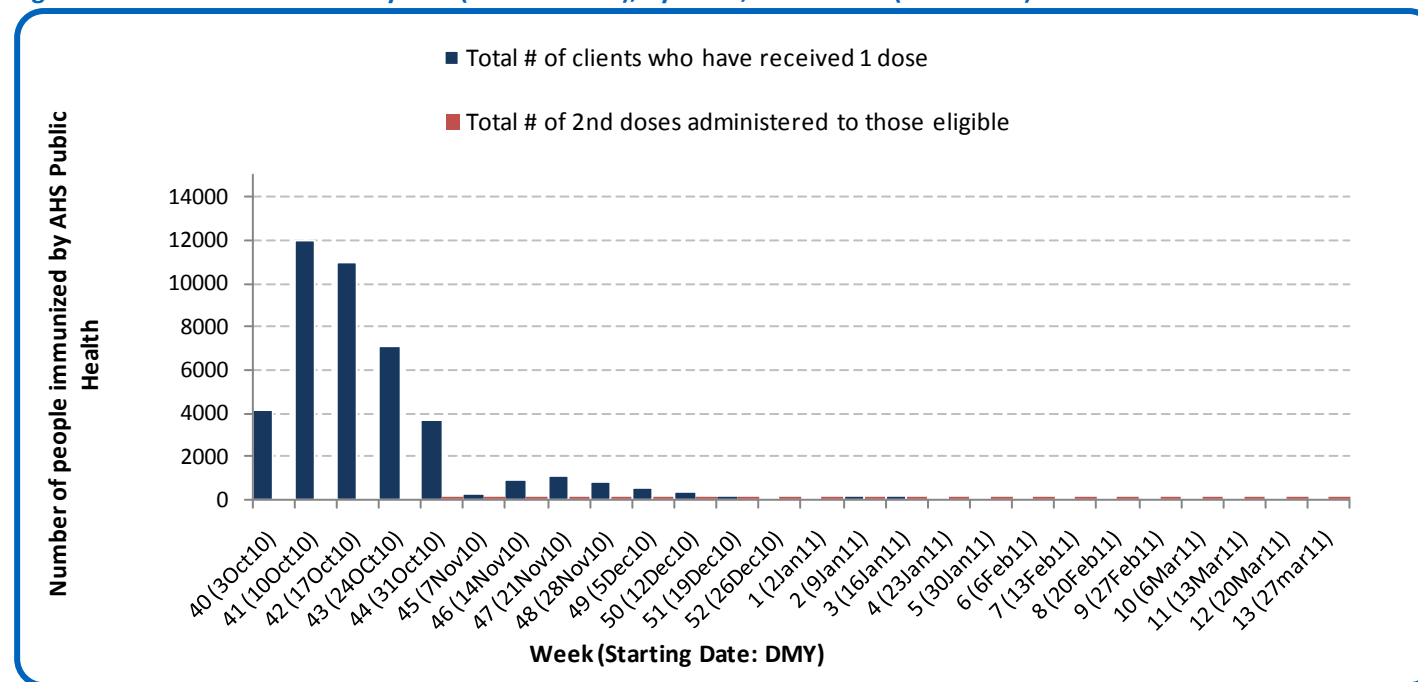
Public Health Surveillance

Report Date: April 5, 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 5, 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 13 – Mar27-Apr2, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		0	617
Health care workers		1	1,570
Pregnant women		0	302
Residents of long term care		0	730
65 years of age and over		0	15,603
All children 6 months up to and including 23 months*	Dose #1	19	1,621
	Dose #2	16	668
All children 24 months up to and including 59 months*	Dose #1	3	1,997
	Dose #2	3	135
High risk: 5 years up to and including 8 years*	Dose #1	0	506
	Dose #2	0	22
High risk: 9 years up to and including 64 years		1	4,110
Healthy: 5 years up to and including 8 years*	Dose #1	1	1,513
	Dose #2	2	66
Healthy: 9 years up to and including 64 years		3	14,734
Total number of clients who have received 1 dose		28	43,303
Total number of 2nd doses administered to those eligible*		21	891

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 5, 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 5, 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 continuing reports of outbreak activity, respiratory virus activity in Calgary Zone appears to be declining.

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

Rhino-enterovirus is once again the predominant virus being confirmed in Calgary Zone. Influenza B activity has been in decline over the last several weeks. Since the beginning of the season, a total of 352 cases of influenza have been confirmed in Calgary Zone (38.6% have been identified as influenza A (H3), 13.6% as influenza A (H1N1) 2009, 44.9% as influenza type B and 2.8% 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](#))

Since the last report, one outbreak has been confirmed in a Calgary Zone long term care facility. The onset of symptoms occurred during Week 12 (Mar 20-26, 2011) and the attack rate was 14%. Coronavirus was determined to be the agent responsible.

In addition, there was also one new respiratory outbreak reported for another Calgary Zone long term care facility. The onset of symptoms occurred in Week 13 (Mar 27-Apr 2, 2011) and the preliminary attack rate is 9%. Laboratory confirmation is currently pending.

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

The number of calls to Health Link Alberta for cough or breathing difficulties by residents of Calgary Zone continues on a decreasing trend that 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 18% and 56%, respectively, in Week 13 (Mar 27-Apr 2, 2011) compared to the previous week. These indicators have fluctuated in the last several 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 continues to decrease.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

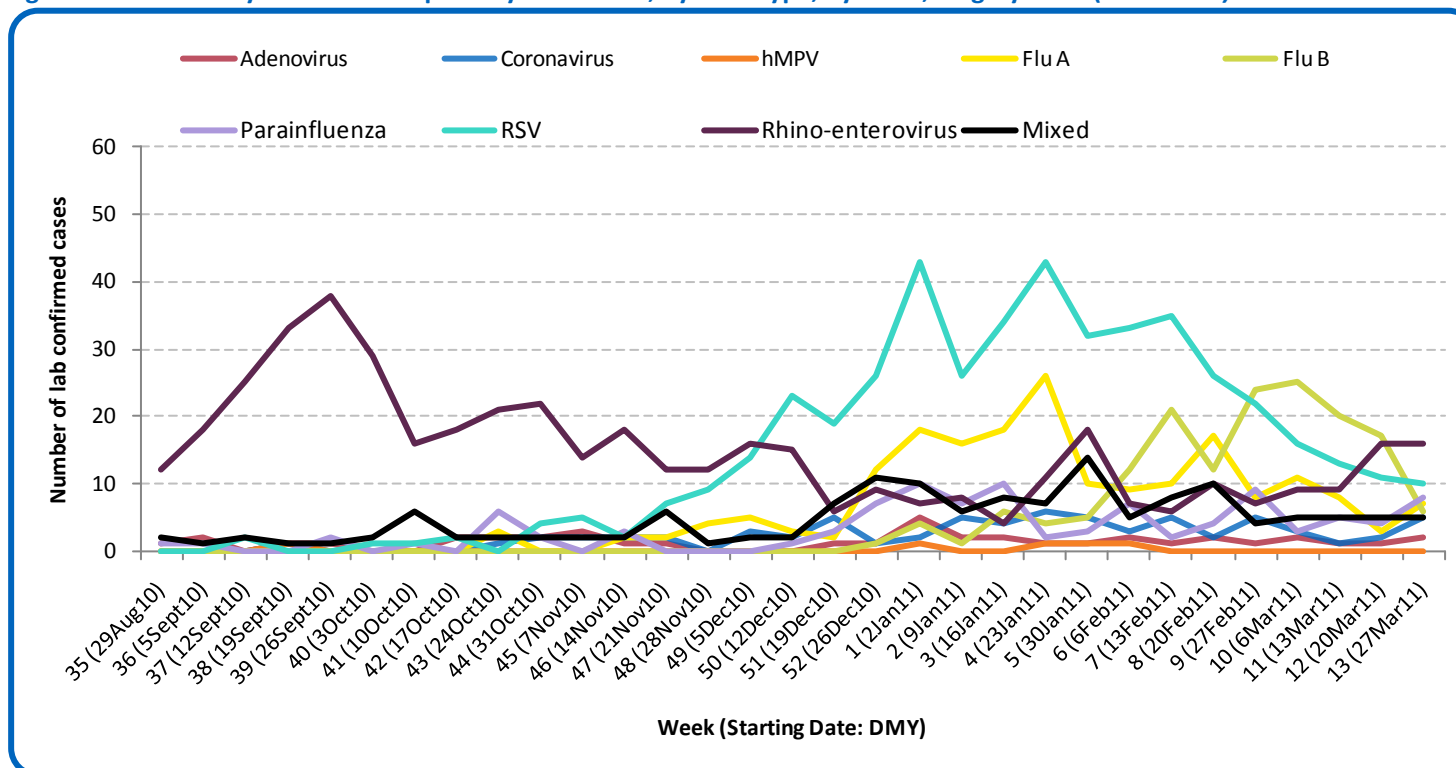
Public Health Surveillance

Report Date: April 5, 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 2, 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

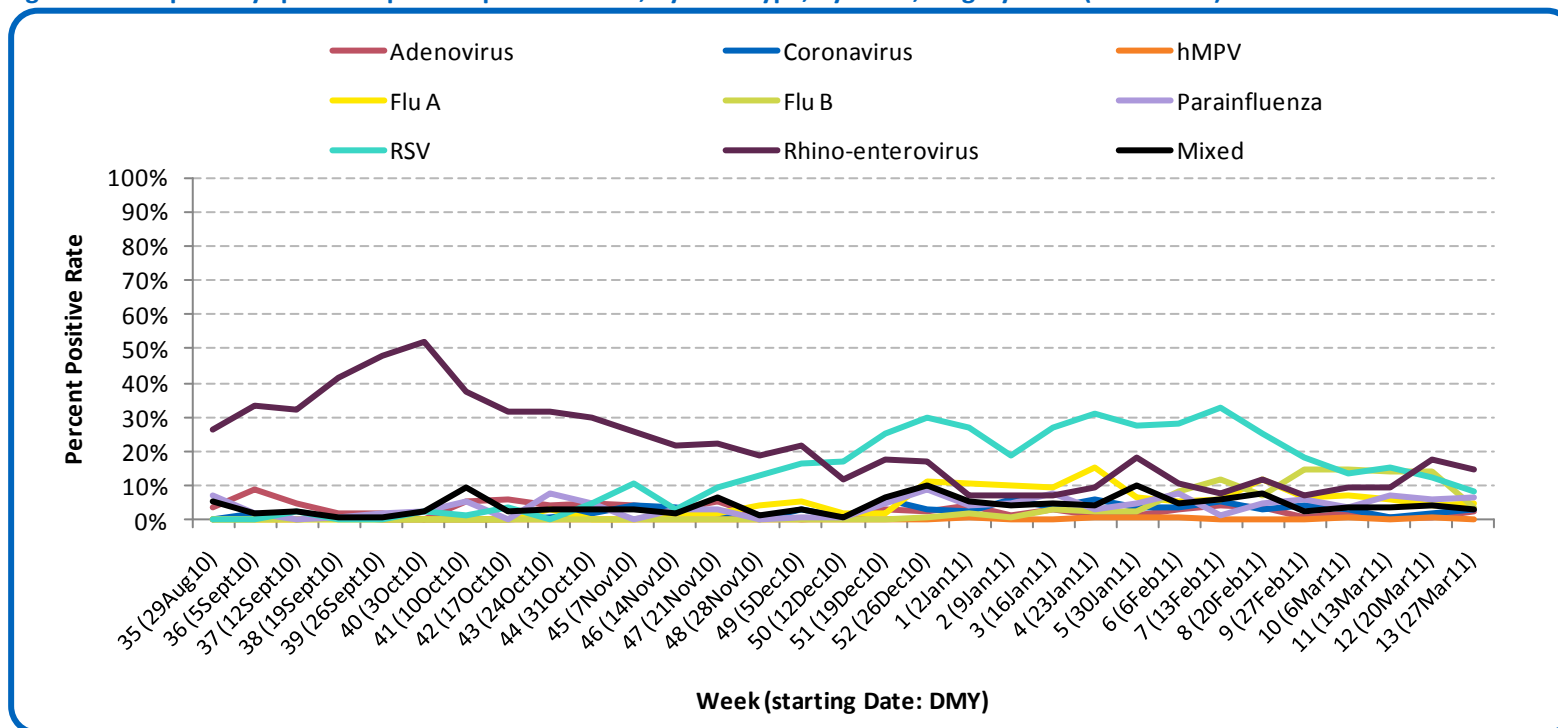
Public Health Surveillance

Report Date: April 5, 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 2, 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

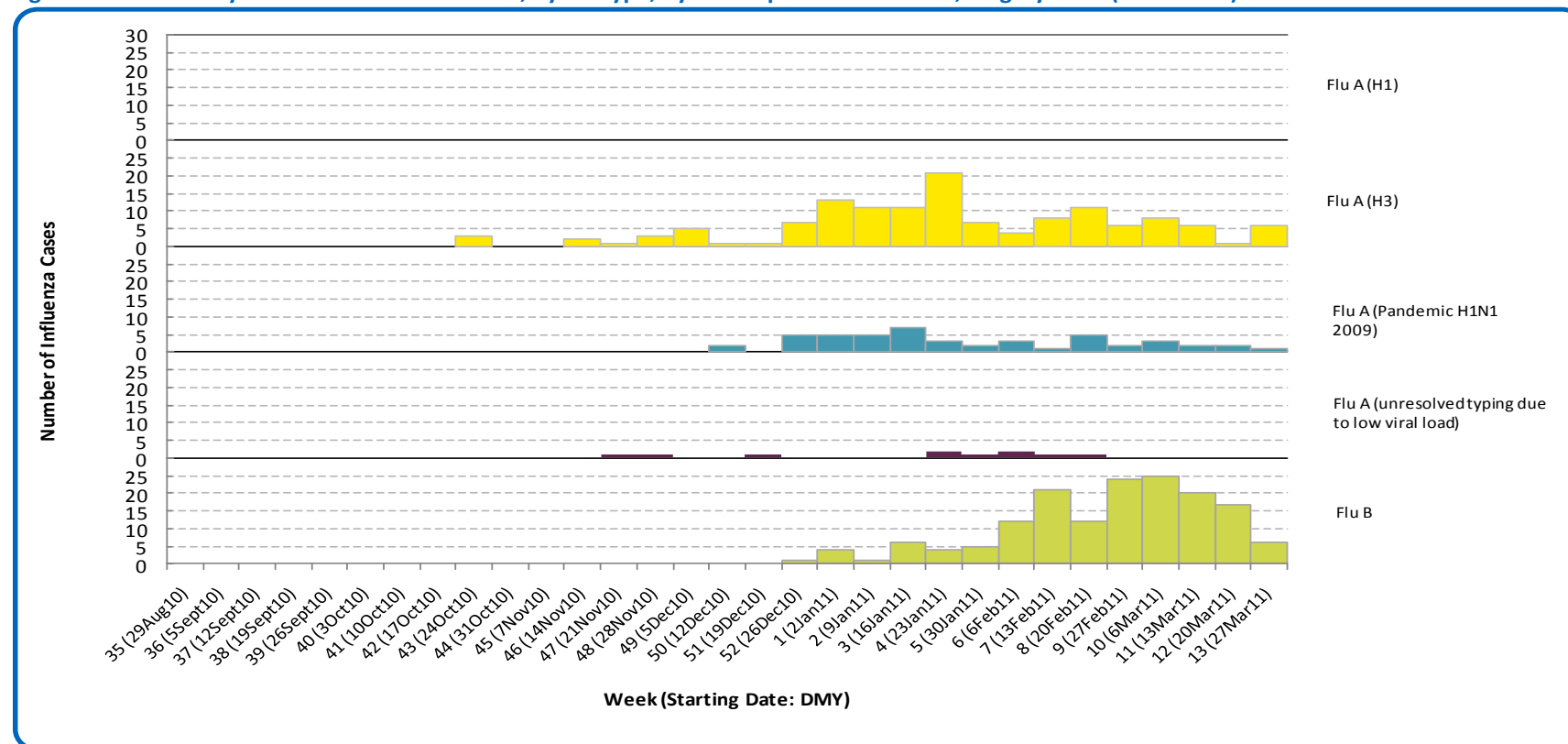
Public Health Surveillance

Report Date: April 5, 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 2, 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 5, 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 13: Mar 27-Apr 2, 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	0.3	1	0.3	0	0.0	1	0.3	3	0.8
2 to <5 years	0	0.0	2	0.4	0	0.0	0	0.0	1	0.2	3	0.6
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	2	0.3	2	0.3
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	2	<0.1	0	0.0	0	0.0	2	<0.1	4	0.0
65 to <75 years	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	1	0.1
75+ years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total	0	0.0	6	<0.1	1	<0.1	0	0.0	6	<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 2, 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	11	2.0	26	4.8
5 to <9 years	0	0.0	8	1.2	1	0.2	2	0.3	29	4.5	40	6.1
9 to <18 years	0	0.0	10	0.7	1	0.1	2	0.1	43	2.9	56	3.8
18 to <65 years	0	0.0	62	0.7	37	0.4	3	<0.1	53	0.6	155	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	19	3.1	0	0.0	1	0.2	1	0.2	21	3.4
Total	0	0.0	136	1.0	48	0.4	10	0.1	158	1.2	352	2.6

Source for tables 3A & 3B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 2, 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

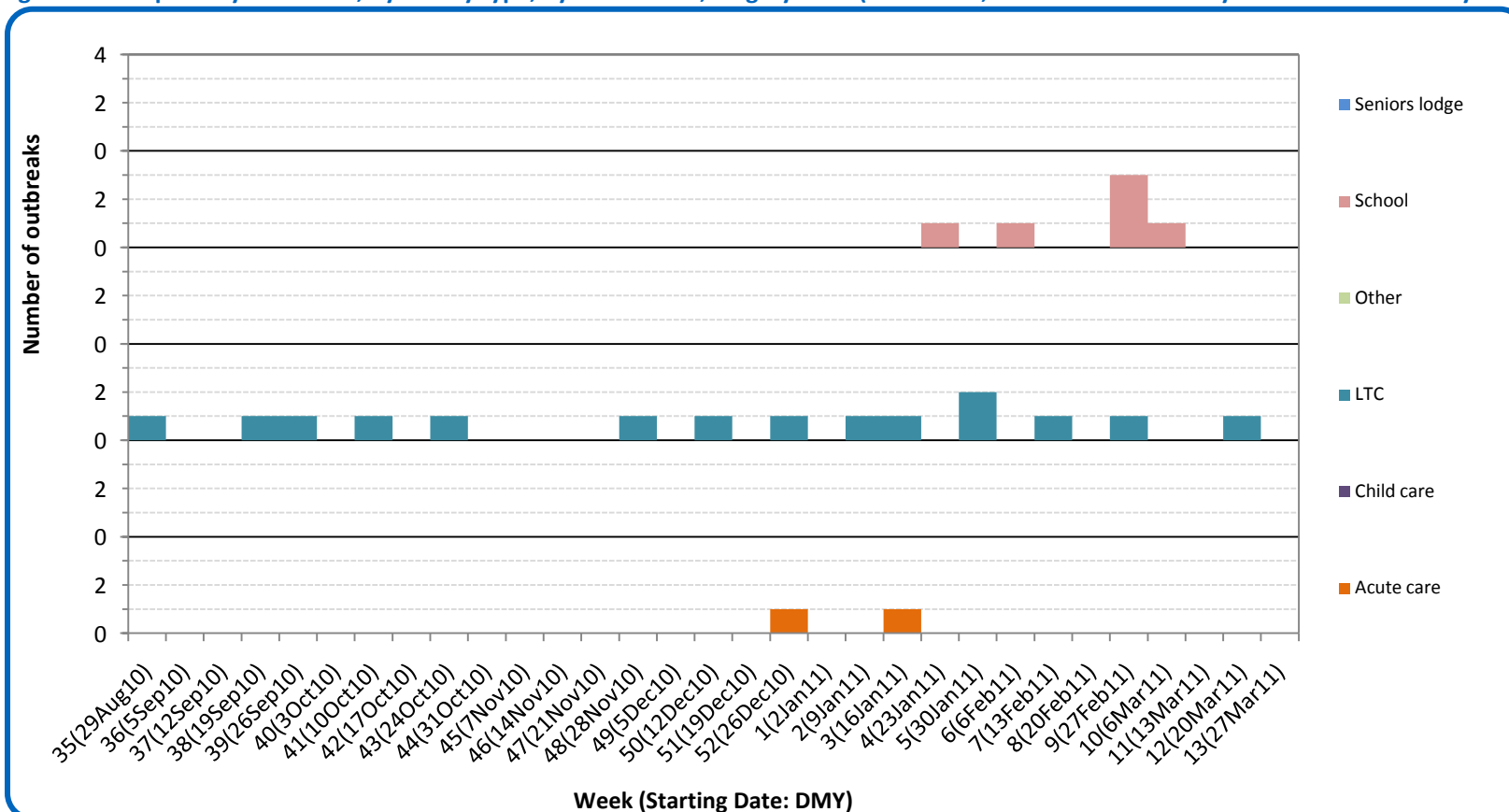
Public Health Surveillance

Report Date: April 5, 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 2, 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

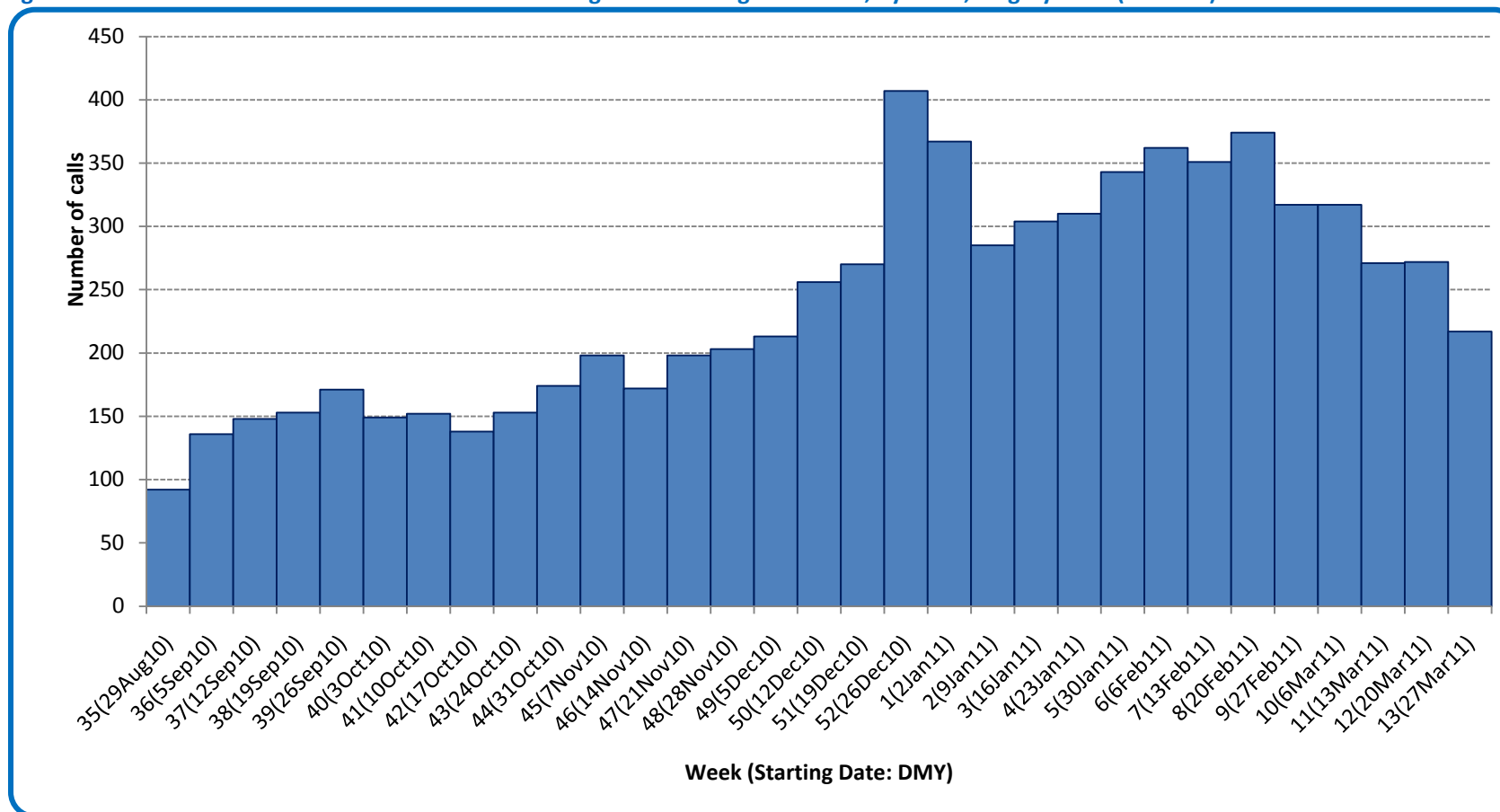
Public Health Surveillance

Report Date: April 5, 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 2, 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

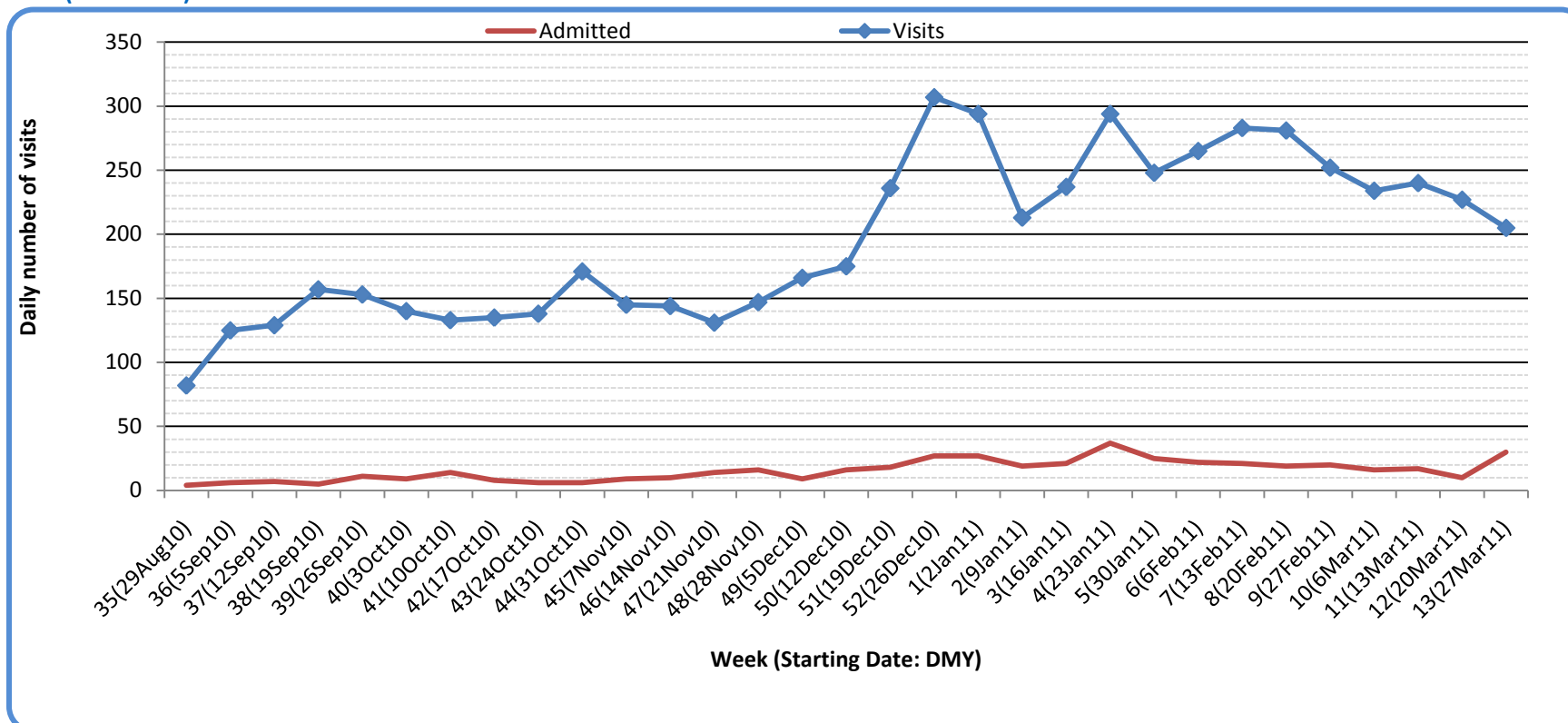
Public Health Surveillance

Report Date: April 5, 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 2, 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

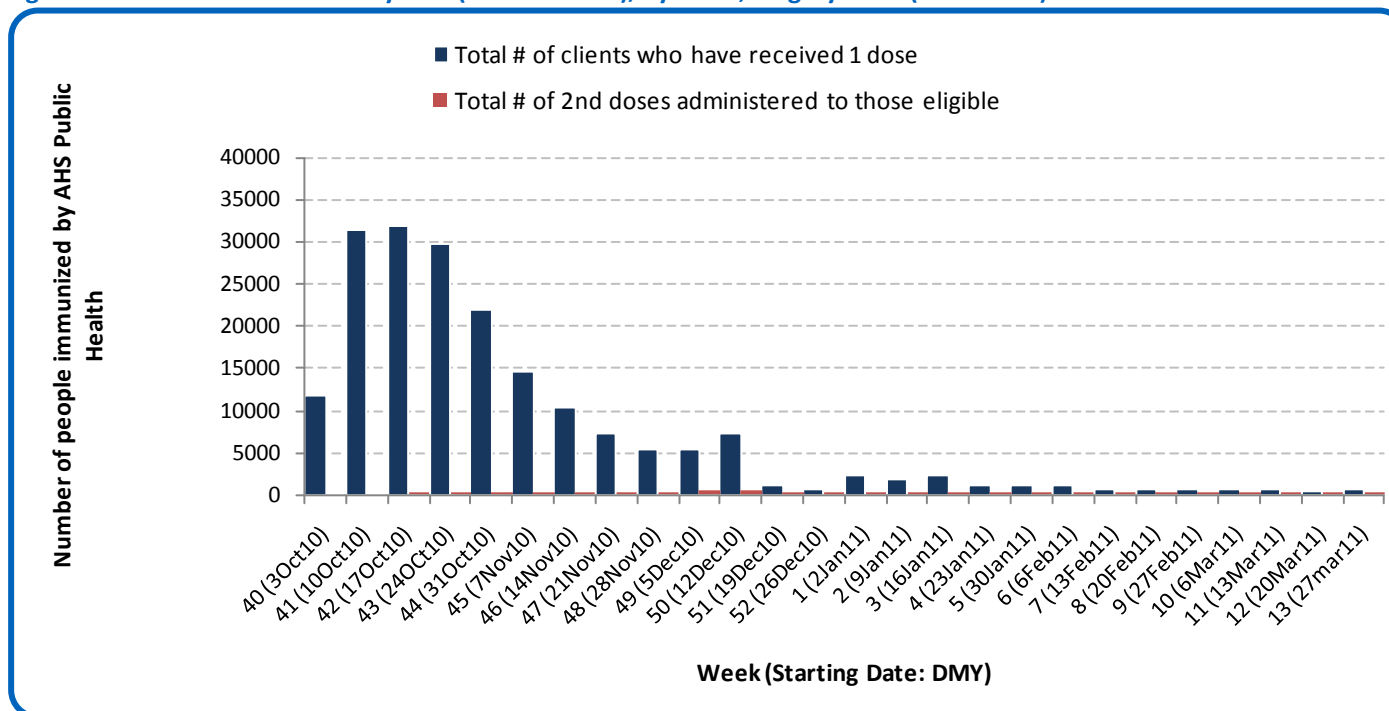
Public Health Surveillance

Report Date: April 5, 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 5, 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 13 – Mar27-Apr2, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		1	453
Health care workers		7	5,351
Pregnant women		9	2,000
Residents of long term care		0	706
65 years of age and over		5	44,715
All children 6 months up to and including 23 months*	Dose #1	284	14,345
	Dose #2	172	4,217
All children 24 months up to and including 59 months*	Dose #1	53	11,496
	Dose #2	17	660
High risk: 5 years up to and including 8 years*	Dose #1	15	2,387
	Dose #2	2	59
High risk: 9 years up to and including 64 years		18	20,022
Healthy: 5 years up to and including 8 years*	Dose #1	50	7,489
	Dose #2	12	258
Healthy: 9 years up to and including 64 years		205	84,469
Total number of clients who have received 1 dose		647	193,433
Total number of 2nd doses administered to those eligible*		203	5,194

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 5, 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 5, 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

Despite continuing reports of outbreak activity, respiratory virus activity appears to be declining in Central Zone.

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

Influenza B activity decreased in Week 13 (Mar 27-Apr 2, 2011) from the previous week. This is the first decrease to occur in several weeks. As of the end of Week 13, the total number of influenza cases confirmed this season is 151. 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 14.5 per 10,000) and adults aged 75 years and over (at 10.5 per 10,000).

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

Since the last update provided, one outbreak 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 indicated influenza A (H3) as the attributing virus. The attack rate for this outbreak was 36%.

In addition, two other respiratory outbreaks were reported for Central Zone, including one in a seniors' lodge (9% preliminary attack rate) and one in a long term care facility (25% preliminary attack rate). The onset of symptoms for these occurred in Week 11 (Mar 13-19, 2011) and Week 12 (Mar 20-26, 2011), respectively.

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

The number of calls to Health Link Alberta by residents of Central Zone for cough or breathing difficulties continues 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

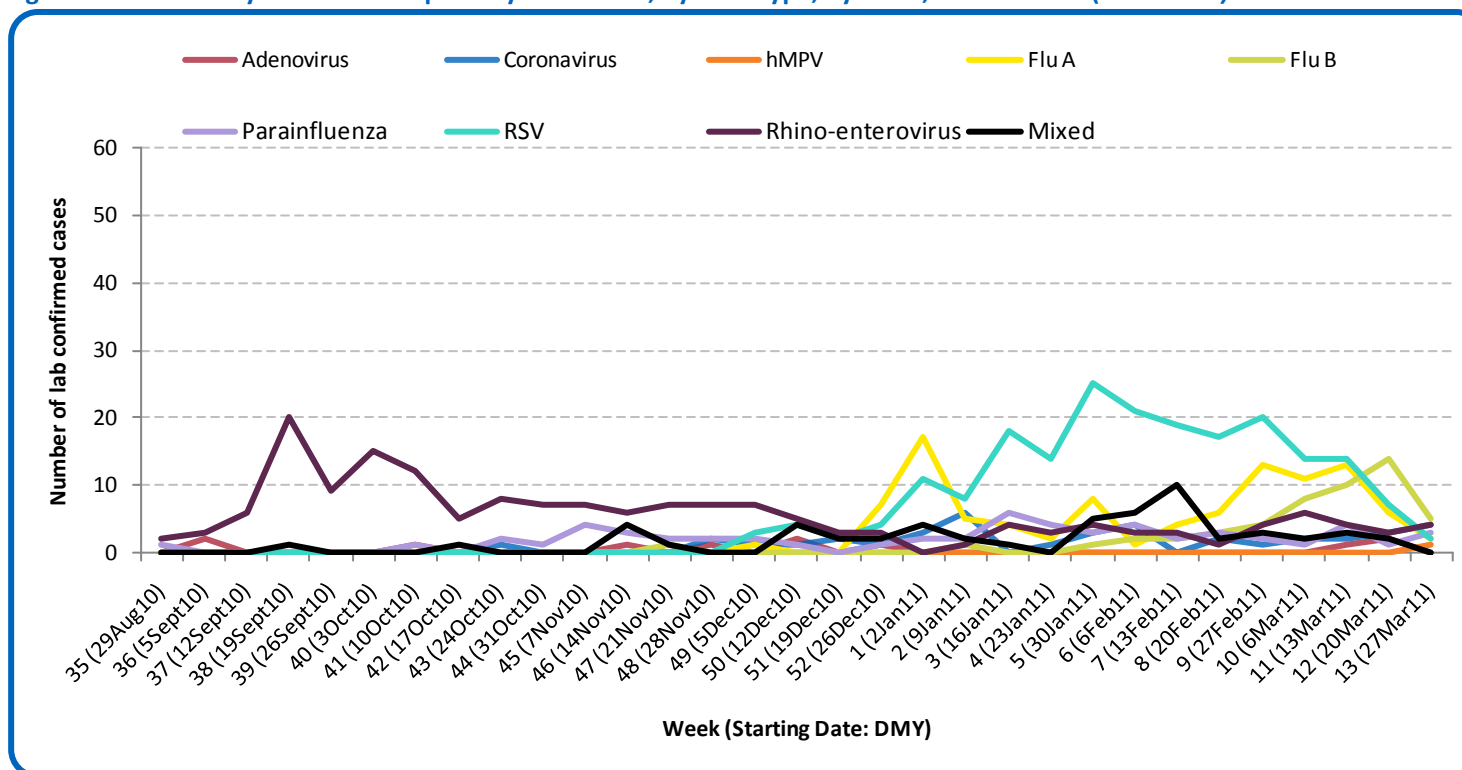
Public Health Surveillance

Report Date: April 5, 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 2, 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

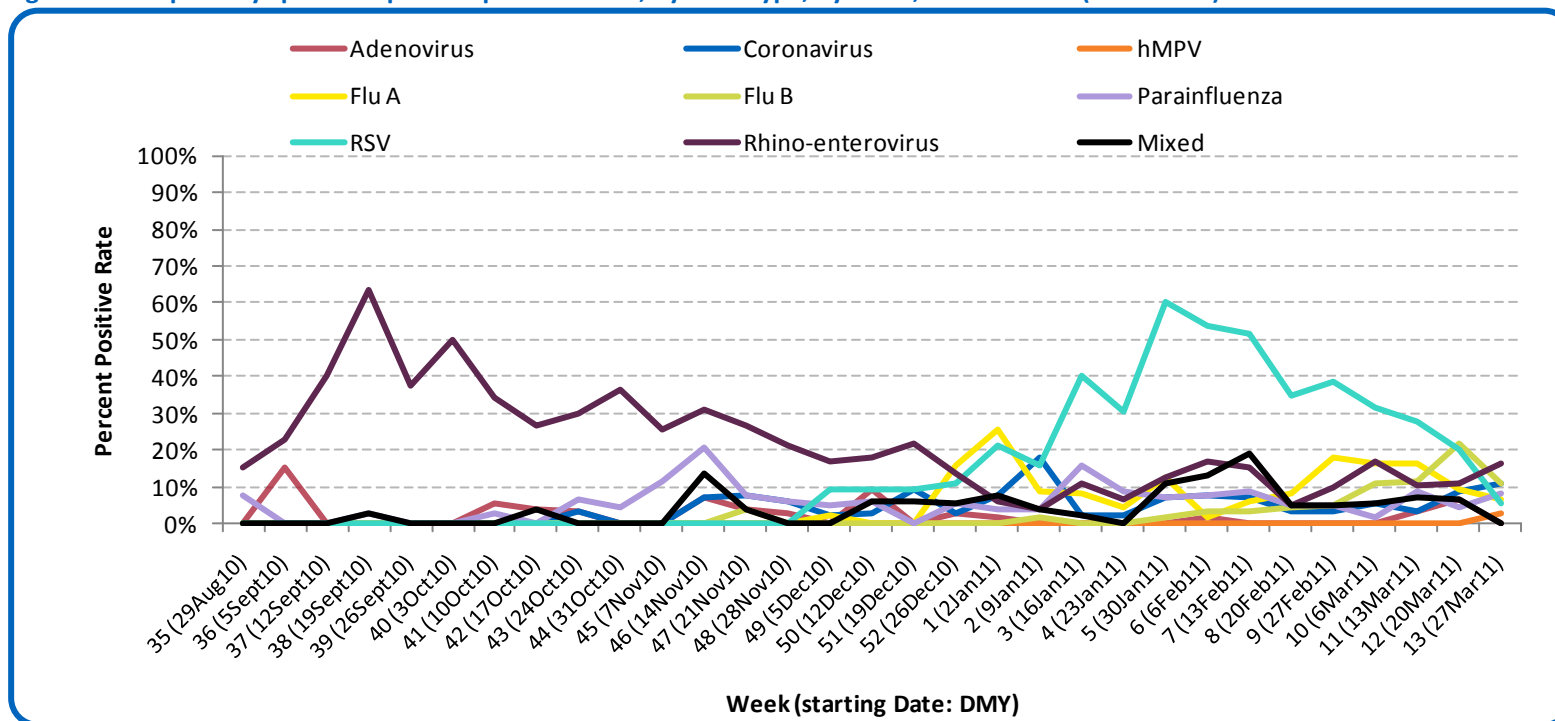
Public Health Surveillance

Report Date: April 5, 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 2, 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

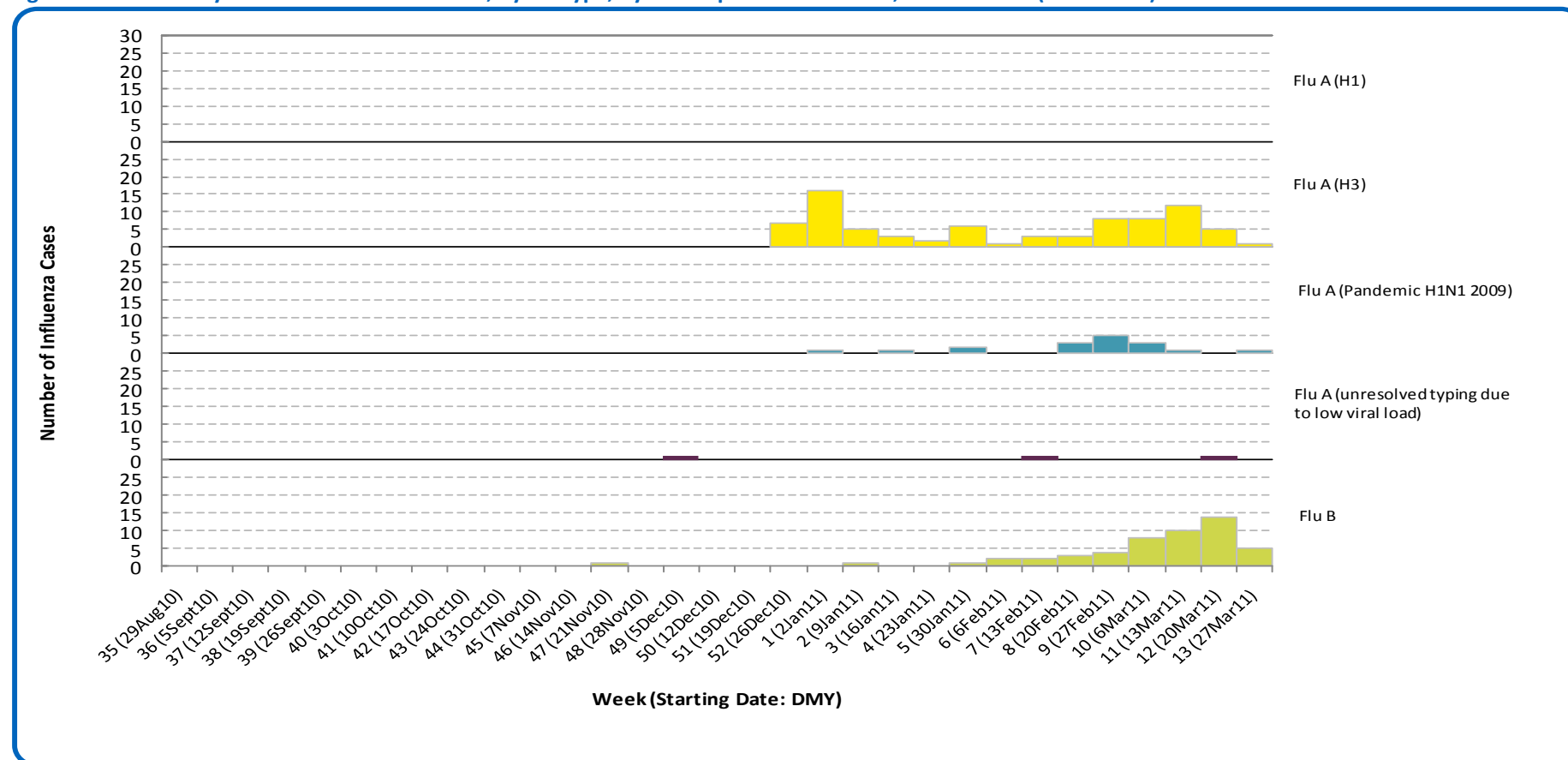
Public Health Surveillance

Report Date: April 5, 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 2, 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 5, 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 13: Mar 27-Apr 2, 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	0.8	1	0.8
2 to <5 years	0	0.0	0	0.0	0	0.0	0	0.0	2	1.1	2	1.1
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
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	0	0.0	2	0.1	4	0.1
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	1	<0.1	0	0.0	5	0.1	7	0.2

Table 4B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Central Zone (Aug 29, 2010 – Apr 2, 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	9	7.3	18	14.5
2 to <5 years	0	0.0	2	1.1	2	1.1	0	0.0	6	3.3	10	5.5
5 to <9 years	0	0.0	4	1.8	0	0.0	0	0.0	8	3.5	12	5.3
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	34	1.2	13	0.5	2	0.1	18	0.6	67	2.4
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	26	9.5	0	0.0	1	0.4	2	0.7	29	10.5
Total	0	0.0	80	1.8	17	0.4	3	0.1	51	1.1	151	3.4

Source for Tables 4A & 4B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 2, 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

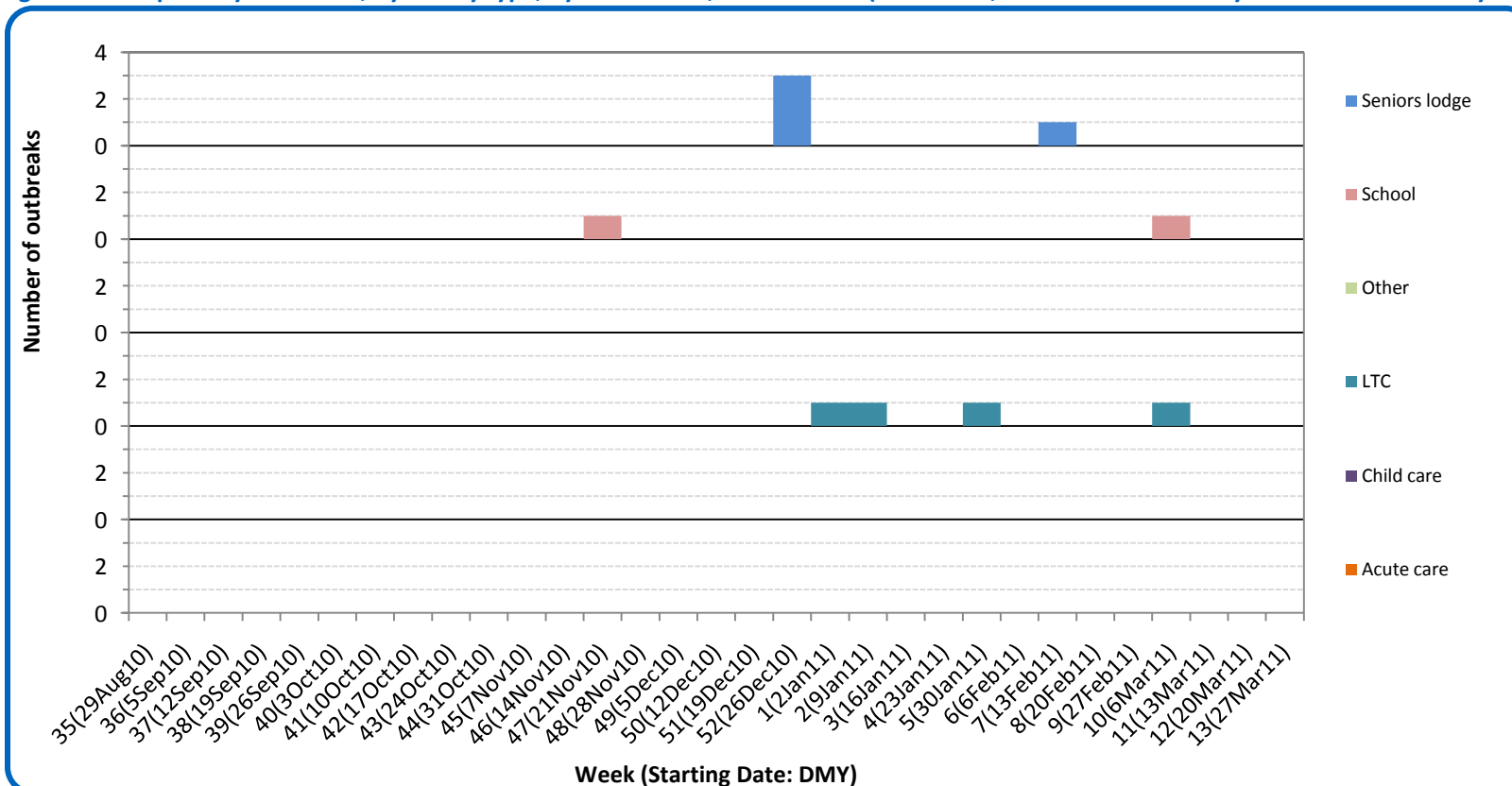
Public Health Surveillance

Report Date: April 5, 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 2, 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

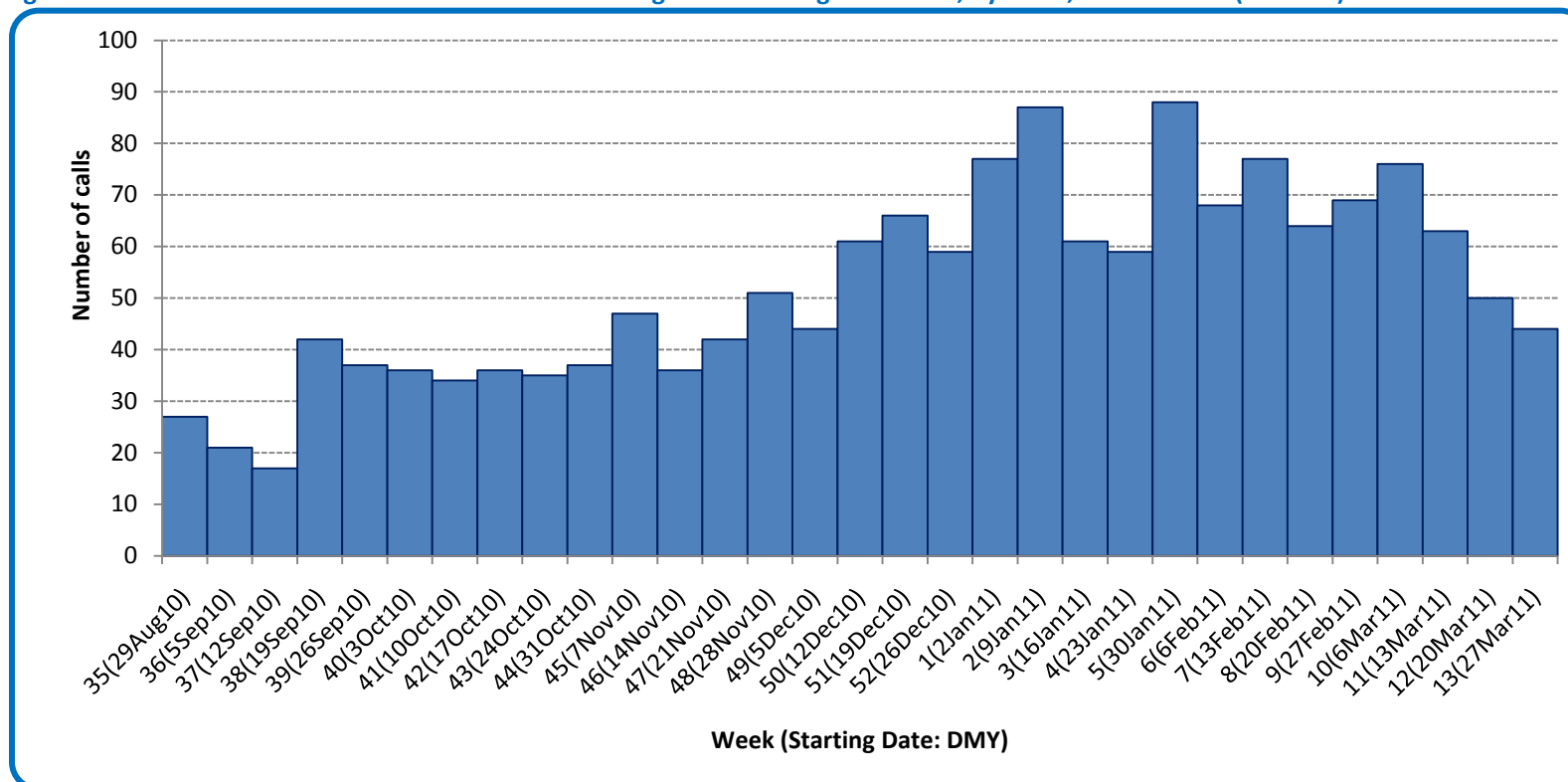
Public Health Surveillance

Report Date: April 5, 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 2, 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

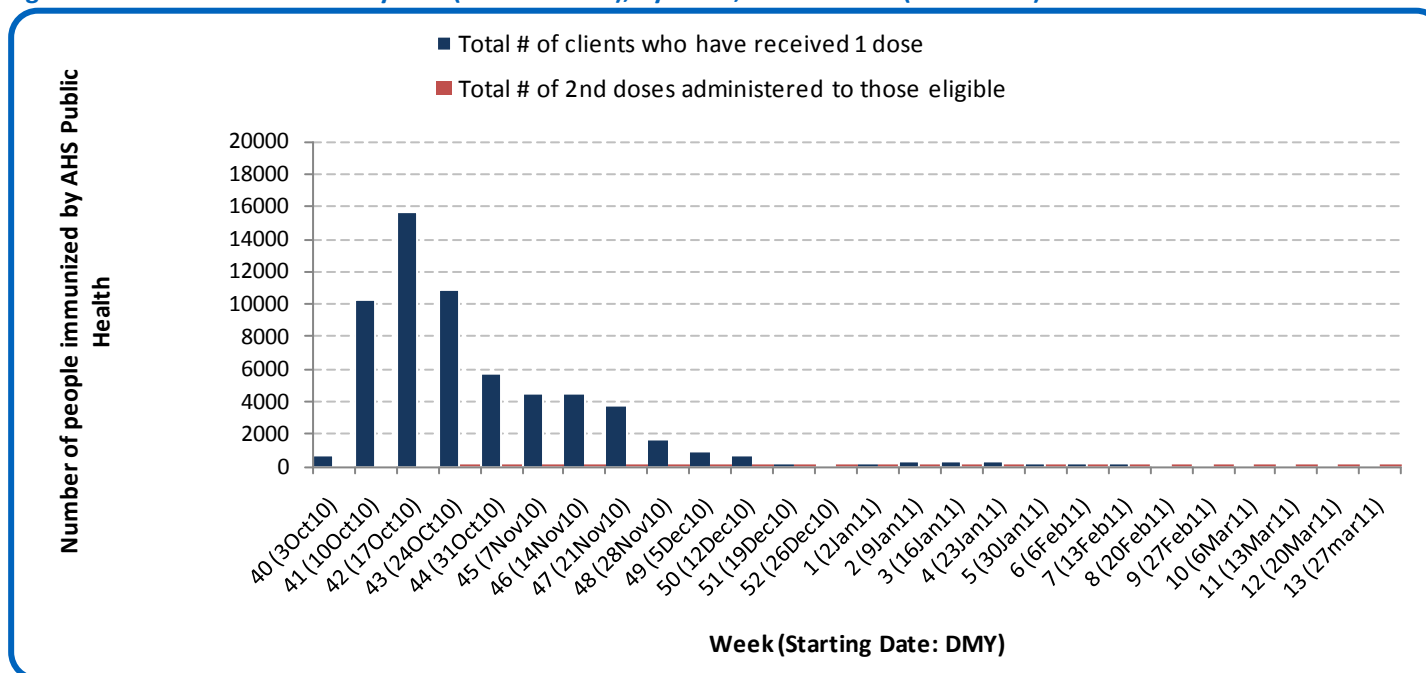
Public Health Surveillance

Report Date: April 5, 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 5, 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 13 – Mar27-Apr2, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		0	427
Health care workers		6	2,623
Pregnant women		1	429
Residents of long term care		1	1,106
65 years of age and over		1	22,161
All children 6 months up to and including 23 months*	Dose #1	24	2,464
	Dose #2	19	1,123
All children 24 months up to and including 59 months*	Dose #1	6	2,319
	Dose #2	0	194
High risk: 5 years up to and including 8 years*	Dose #1	1	651
	Dose #2	0	24
High risk: 9 years up to and including 64 years		4	6,888
Healthy: 5 years up to and including 8 years*	Dose #1	0	1,988
	Dose #2	1	88
Healthy: 9 years up to and including 64 years		10	20,830
Total number of clients who have received 1 dose		54	61,886
Total number of 2nd doses administered to those eligible*		20	1,429

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 5, 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 5, 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

Although influenza B transmission continues in Edmonton Zone, laboratory data shows that the level of activity decreased in Week 13 (Mar 27-Apr 2, 2011) from the previous week. Overall, respiratory virus activity appears to be decreasing.

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

Influenza A activity continues on a decreasing trend. Influenza B activity, which has been increasing consistently over the last several weeks, decreased slightly in Week 13 (Mar 27-Apr 2, 2011) from the previous week. As of the end of last week (Apr 2, 2011), the total number of influenza cases confirmed in this part of the province this season is 409. 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 21.9 per 10,000 (compared to 7.7 per 10,000 or lower for other age groups).

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

Since the last update, there has been one respiratory outbreak confirmed in an Edmonton Zone long term care facility. The onset of symptoms occurred in Week 12 (Mar 20-26, 2011) and the attack rate was 4%. The outbreak was attributed to RSV.

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

Aside from a few fluctuations, the number of calls to Health Link Alberta by residents of 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 decreased slightly (5%) in Week 13 (Mar 27-Apr 2, 2011) from the previous week. The number of hospital admissions decreased as well, by 24%. Generally, the trend over the last several weeks has been decreasing.

Despite some fluctuations, the number of visits for symptoms of cough/congestion has generally been decreasing since the end of February, 2011.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

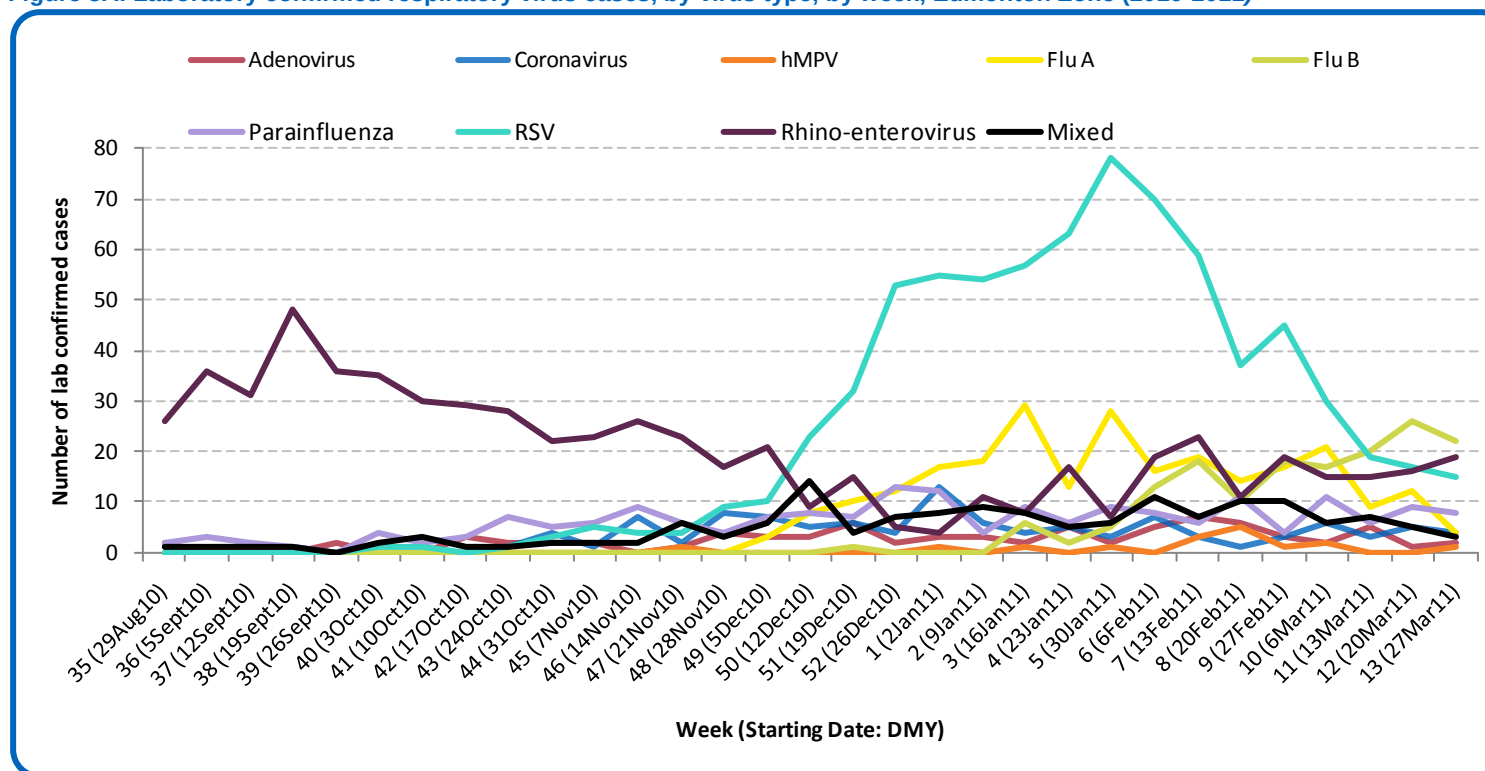
Public Health Surveillance

Report Date: April 5, 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 2, 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

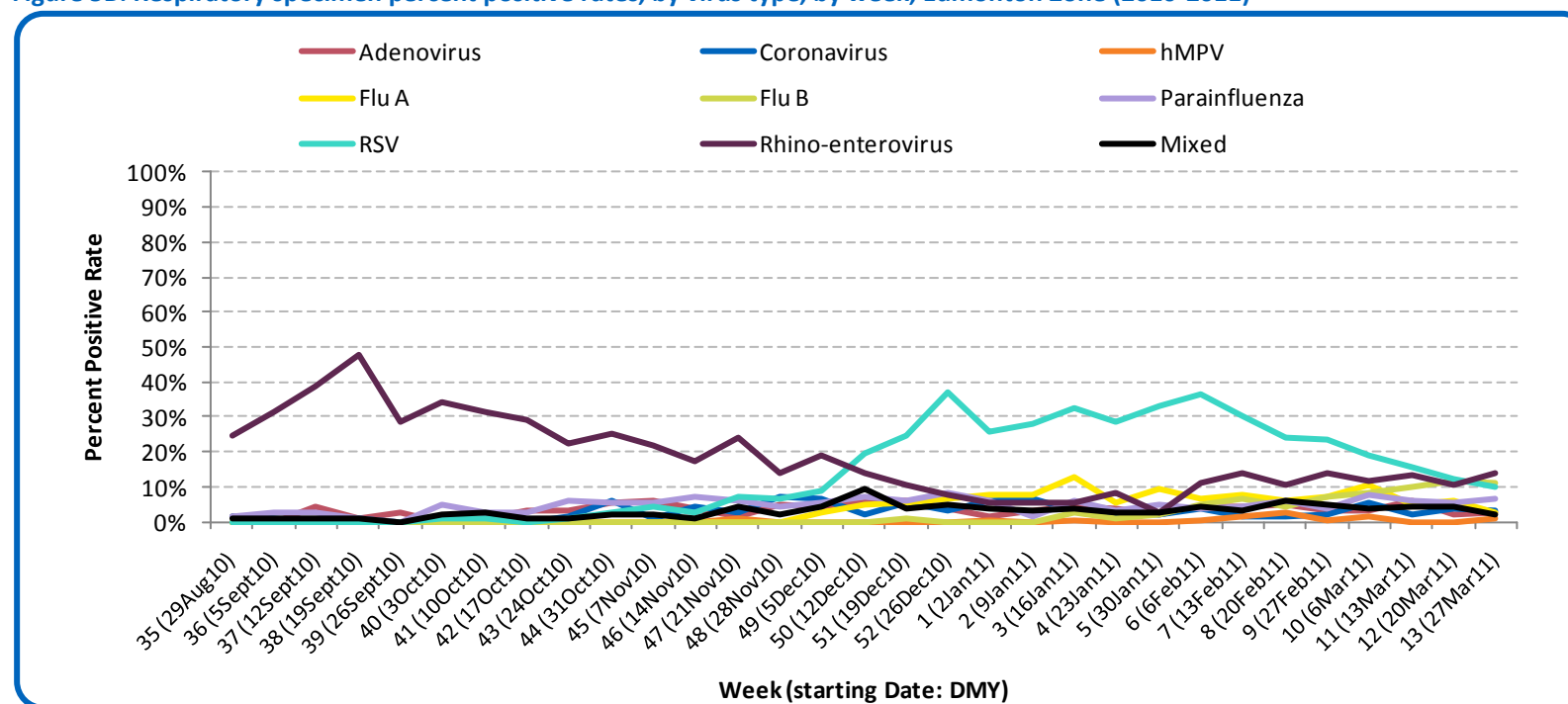
Public Health Surveillance

Report Date: April 5, 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 2, 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

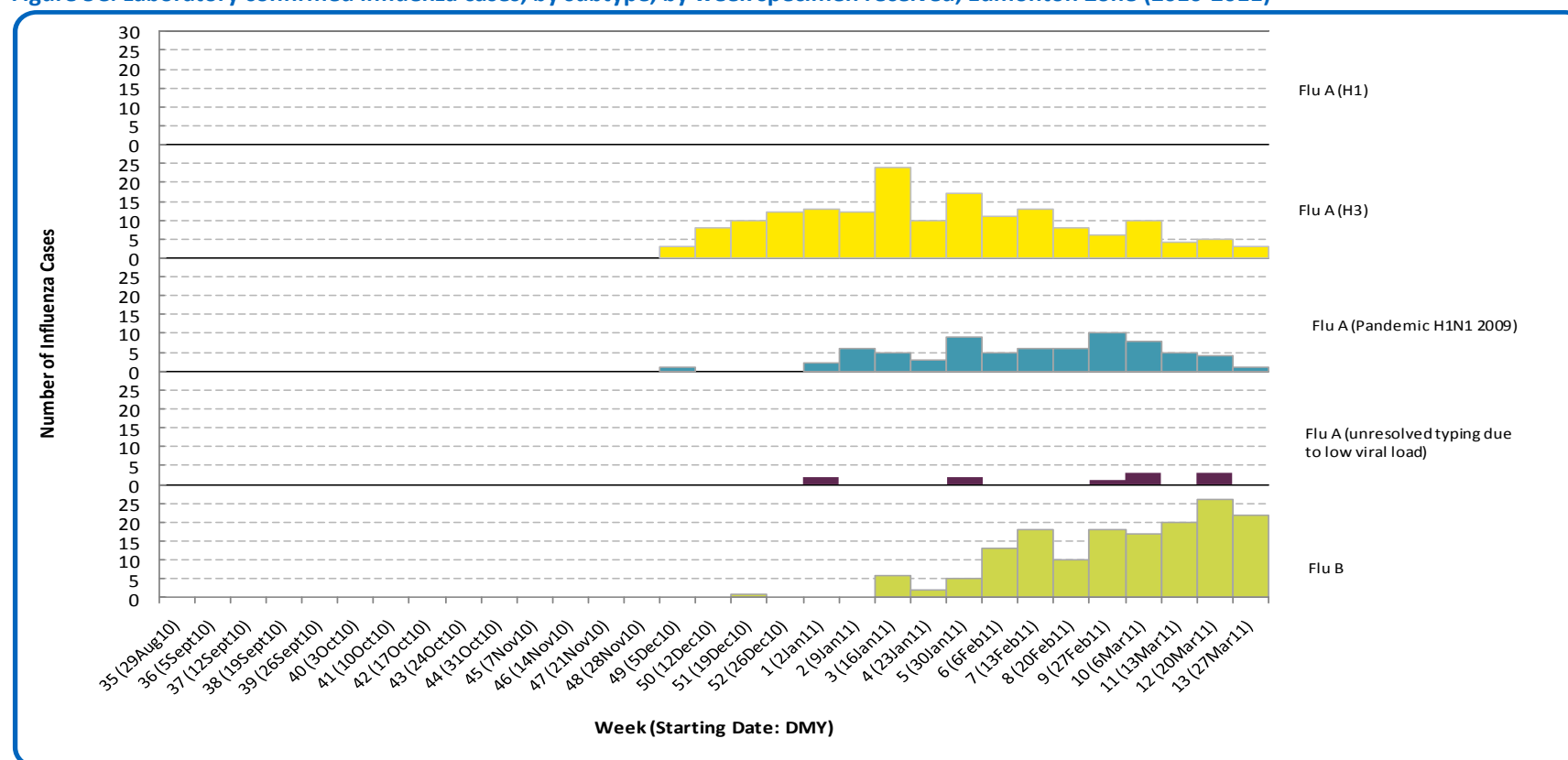
Public Health Surveillance

Report Date: April 5, 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 2, 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 5, 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 13: Mar 27-Apr 2, 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	6	2.0	6	2.0
2 to <5 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	5	0.9	5	0.9
9 to <18 years	0	0.0	1	0.1	0	0.0	0	0.0	3	0.2	4	0.3
18 to <65 years	0	0.0	2	<0.1	1	<0.1	0	0.0	6	0.0	9	0.1
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	1	0.1
75+ years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	1	0.2
Total	0	0.0	3	<0.1	1	<0.1	0	0.0	22	0.2	26	0.2

Table 5B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Edmonton Zone (Aug 29, 2010 – Apr 2, 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	27	8.8	67	21.9
2 to <5 years	0	0.0	14	3.2	4	0.9	1	0.2	13	3.0	32	7.3
5 to <9 years	0	0.0	10	1.9	4	0.8	0	0.0	25	4.7	39	7.3
9 to <18 years	0	0.0	8	0.6	3	0.2	1	0.1	41	3.3	53	4.3
18 to <65 years	0	0.0	64	0.8	52	0.7	5	0.0	35	0.5	156	2.0
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	35	5.8	0	0.0	1	0.2	11	1.8	47	7.7
Total	0	0.0	169	1.5	71	0.6	11	0.1	158	1.4	409	3.5

Source for tables 5A & 5B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 2, 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

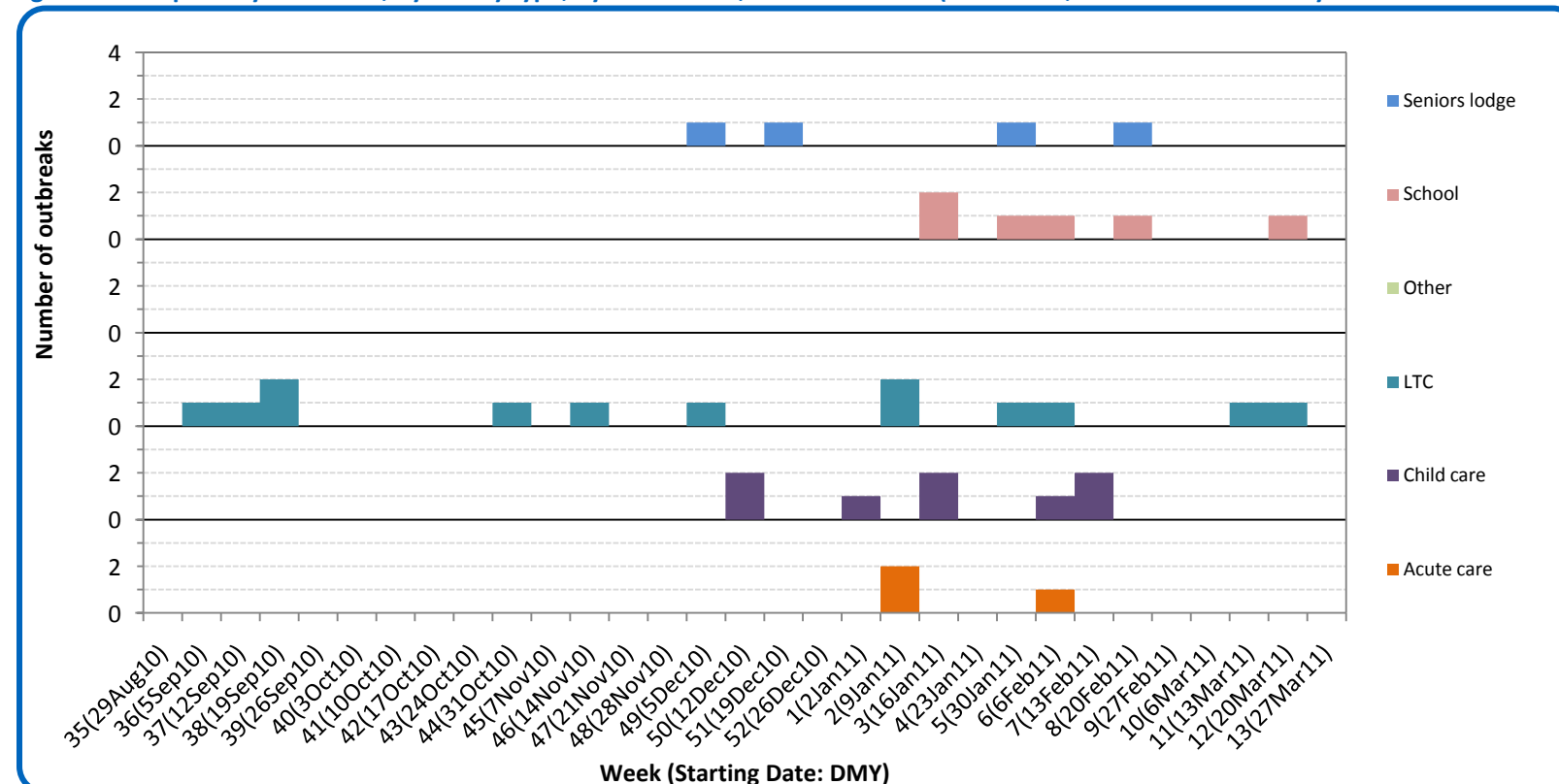
Public Health Surveillance

Report Date: April 5, 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 2, 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

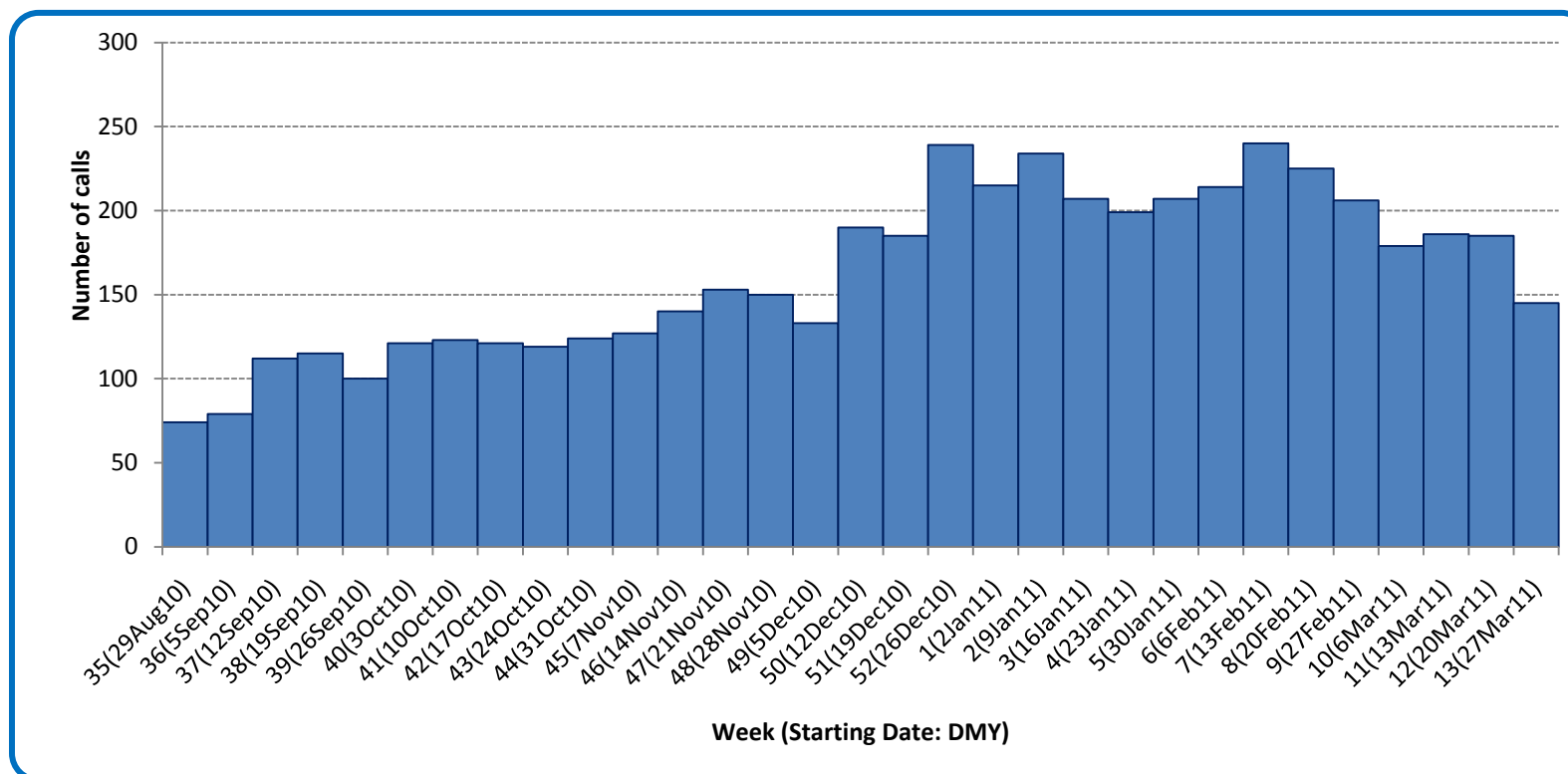
Public Health Surveillance

Report Date: April 5, 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 2, 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

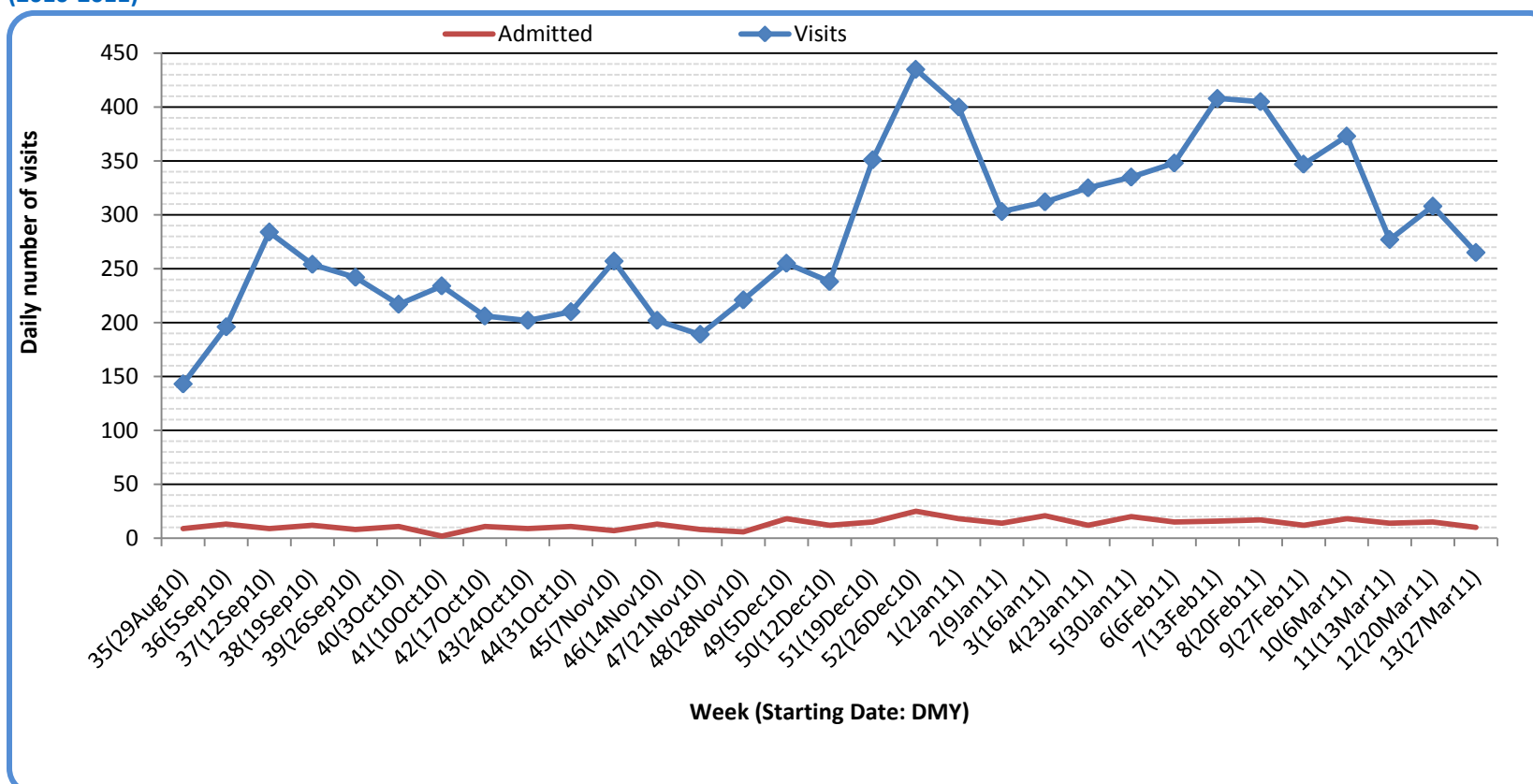
Public Health Surveillance

Report Date: April 5, 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 2, 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

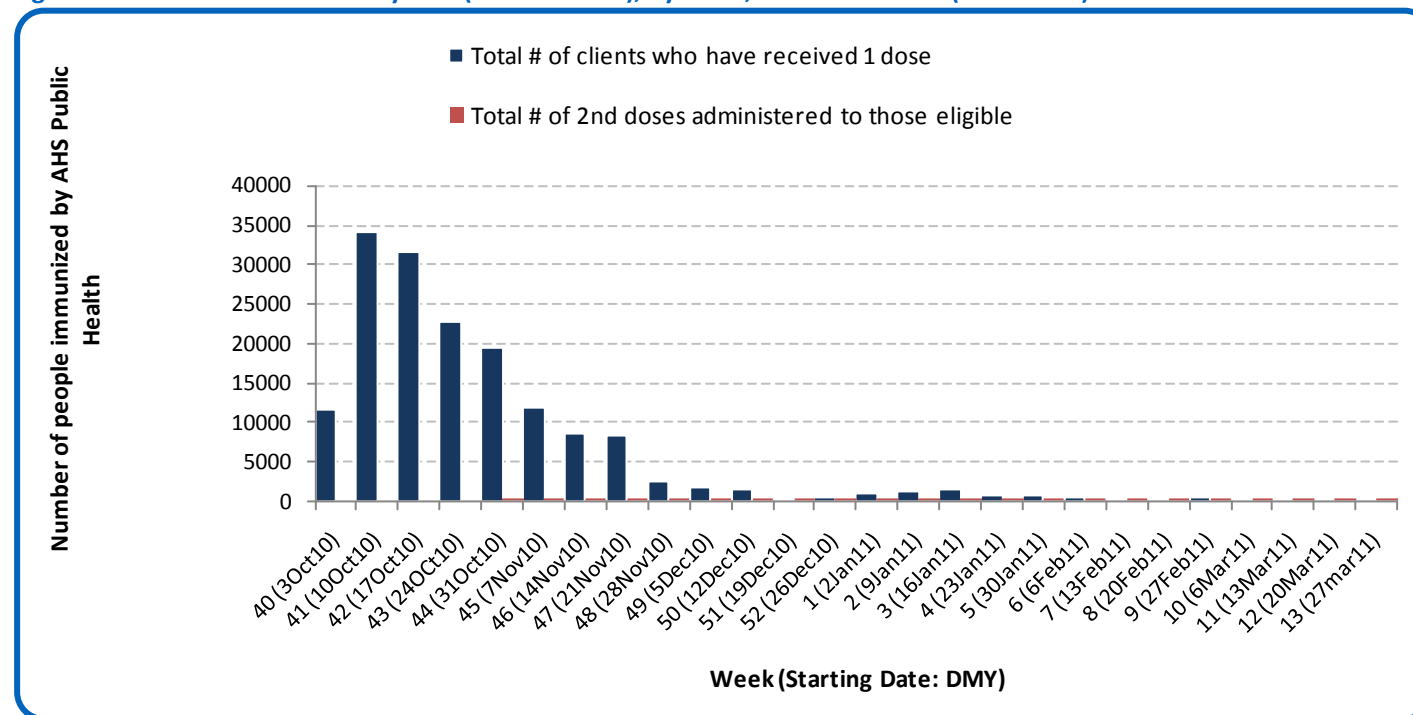
Public Health Surveillance

Report Date: April 5, 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 5, 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 13 – Mar27-Apr2, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		1	329
Health care workers		12	4,819
Pregnant women		4	1,451
Residents of long term care		0	1,051
65 years of age and over		5	48,511
All children 6 months up to and including 23 months*	Dose #1	49	6,771
	Dose #2	79	2,319
All children 24 months up to and including 59 months*	Dose #1	11	7,201
	Dose #2	8	409
High risk: 5 years up to and including 8 years*	Dose #1	5	1,356
	Dose #2	0	39
High risk: 9 years up to and including 64 years		12	17,174
Healthy: 5 years up to and including 8 years*	Dose #1	2	5,496
	Dose #2	3	180
Healthy: 9 years up to and including 64 years		118	68,041
Total number of clients who have received 1 dose		219	162,200
Total number of 2nd doses administered to those eligible*		90	2,947

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 5, 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 5, 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.

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

Influenza, RSV and rhino-enterovirus are the predominant viruses circulating in North Zone. Influenza B activity, which has been increasing for several weeks now, decreased in Week 13 (Mar 27-Apr 2, 2011) from the previous week. So far this season, 237 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 (31.6 per 10,000 compared to 12.8 per 10,000 or lower).

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

Since the last report, there has been one respiratory outbreak confirmed in a North Zone long term care facility. The onset of symptoms occurred in Week 11 (Mar 13-19, 2011). The outbreak was attributed to RSV and the preliminary attack rate was 17%.

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 13 (Mar 27-Apr 2, 2011) from the previous week. Overall, this indicator has been fluctuating in recent weeks.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

There are no data available for the North Zone.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

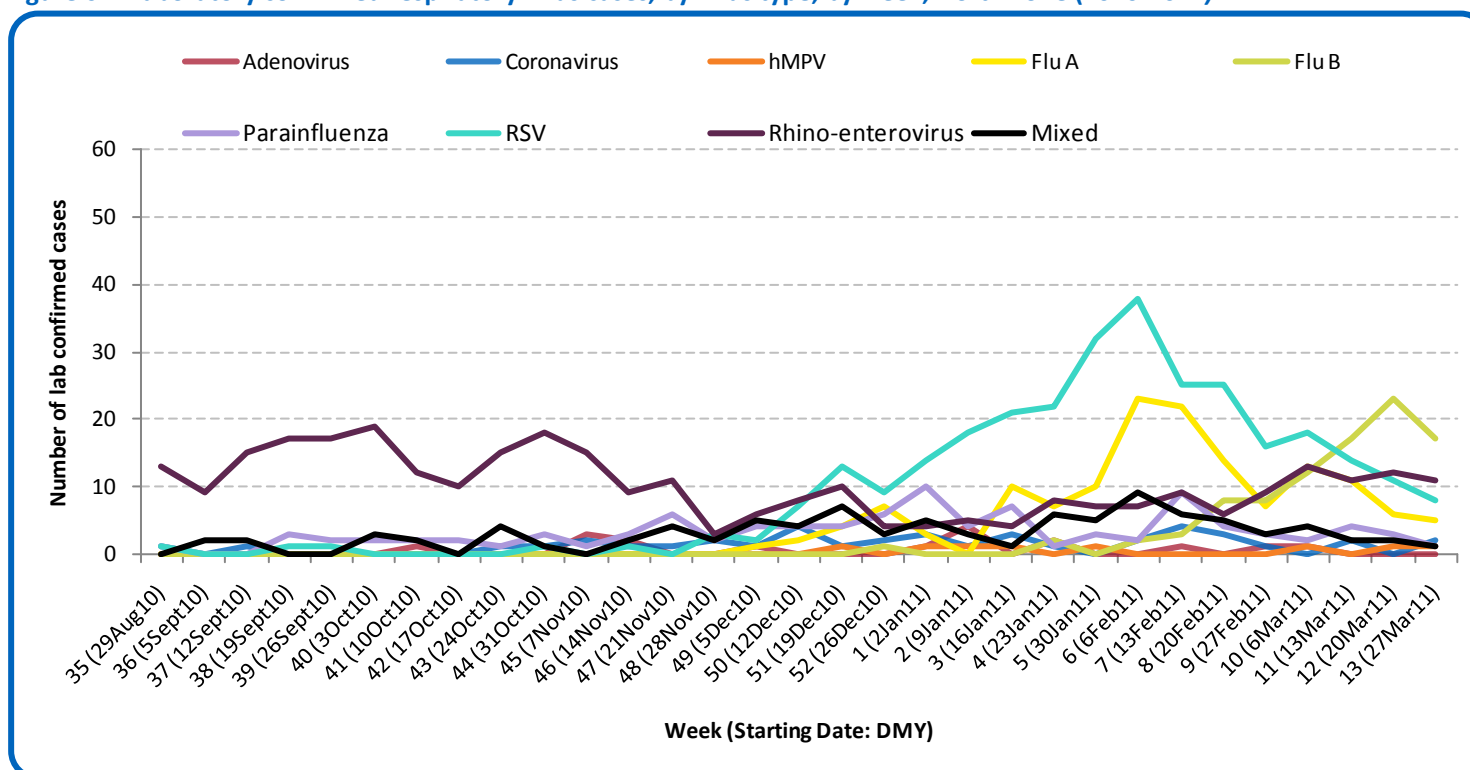
Public Health Surveillance

Report Date: April 5, 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 2, 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

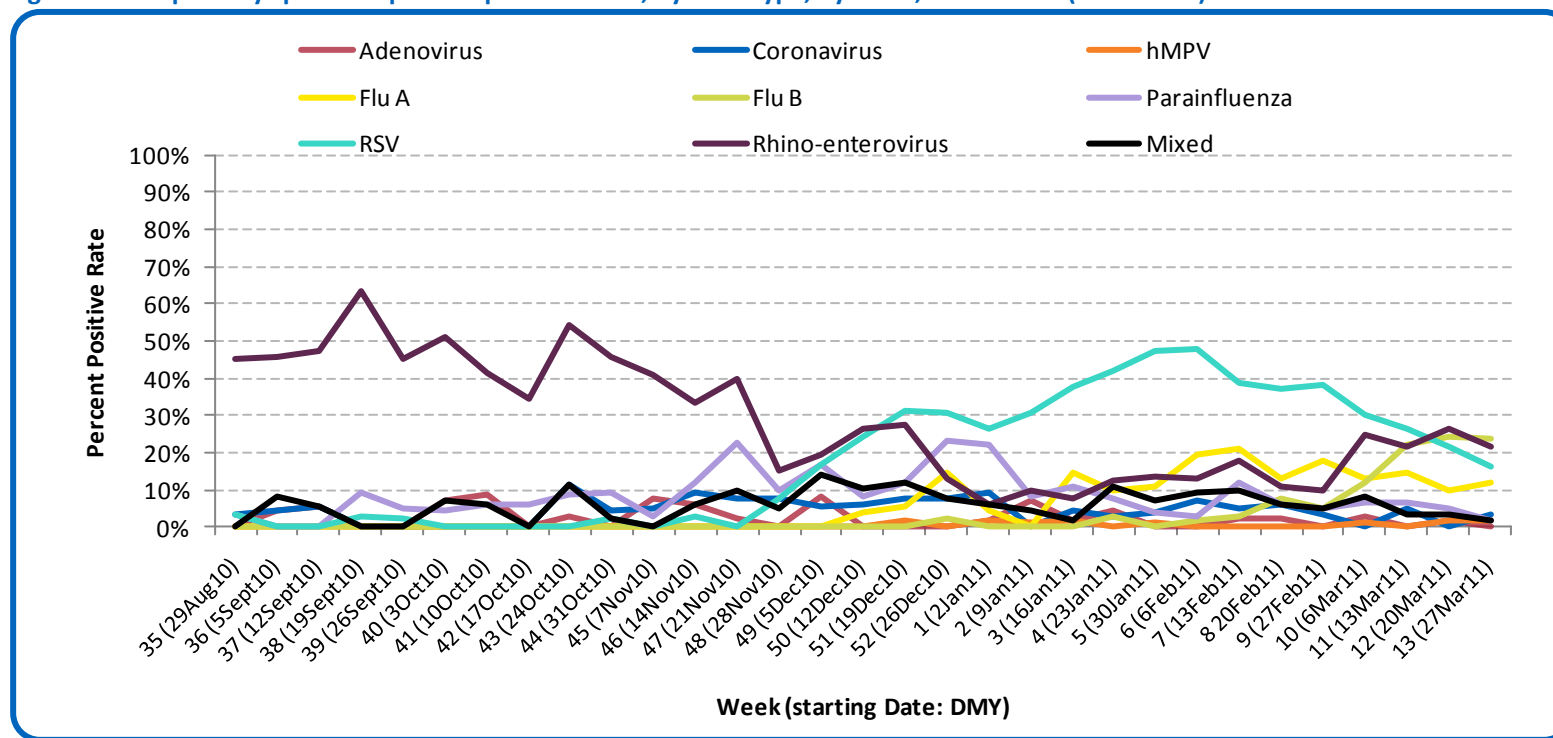
Public Health Surveillance

Report Date: April 5, 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 2, 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

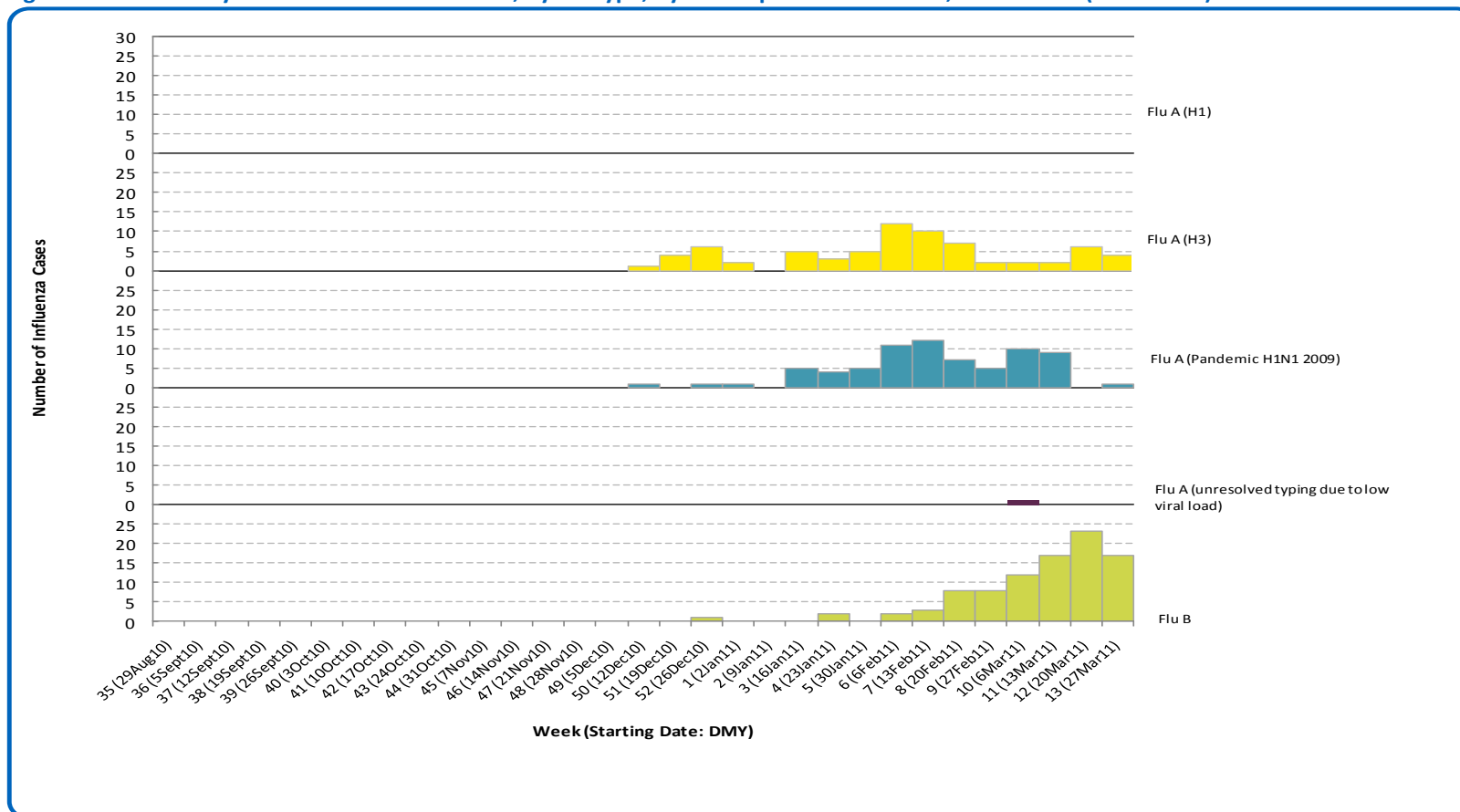
Public Health Surveillance

Report Date: April 5, 2011

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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 2, 2011).

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 6A: New influenza cases (and age specific rates), by subtype, by age group, North Zone (Week 13: Mar 27-Apr 2, 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	2	1.4	0	0.0	0	0.0	2	1.4	4	2.8
2 to <5 years	0	0.0	1	0.5	0	0.0	0	0.0	2	1.0	3	1.5
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	2	0.8	2	0.8
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	2	0.4	2	0.4
18 to <65 years	0	0.0	0	0.0	1	<0.1	0	0.0	7	0.2	8	0.3
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	2	0.9	2	0.9
75+ years	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0	1	0.6
Total	0	0.0	4	0.1	1	<0.1	0	0.0	17	0.4	22	0.5

Table 6B: Cumulative influenza cases (and age specific rates), by subtype, by age group, North Zone (Aug 29, 2010-Apr 2, 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	15	10.5	1	0.7	15	10.5	45	31.6
2 to <5 years	0	0.0	7	3.4	4	2.0	0	0.0	15	7.4	26	12.8
5 to <9 years	0	0.0	10	4.1	5	2.1	0	0.0	12	4.9	27	11.1
9 to <18 years	0	0.0	9	1.6	10	1.8	0	0.0	16	2.9	35	6.2
18 to <65 years	0	0.0	24	0.9	38	1.3	0	0.0	31	1.1	93	3.3
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	71	1.6	72	1.7	1	<0.1	93	2.1	237	5.4

Source for Tables 6A & 6B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 2, 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

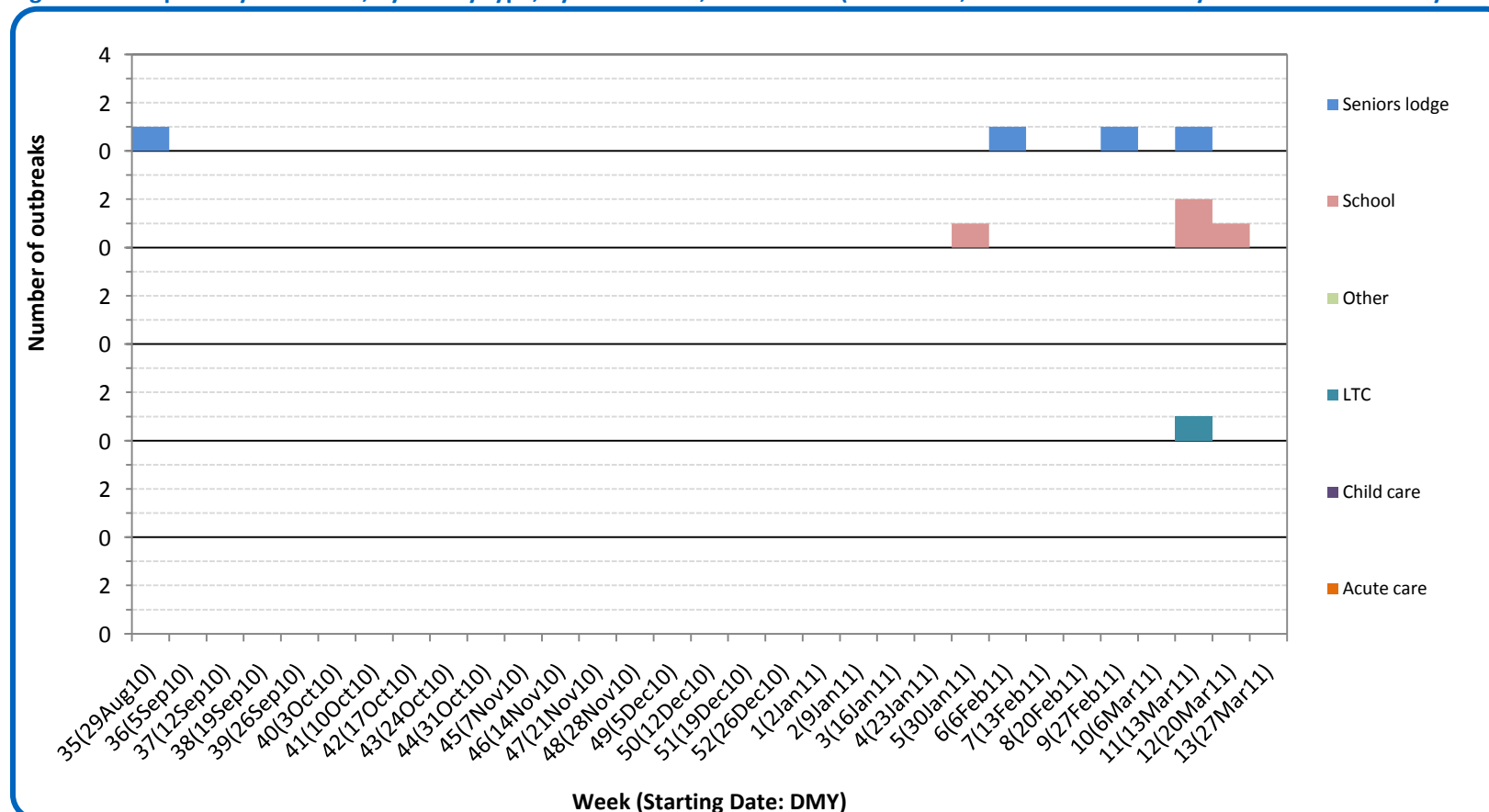
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Figure 6D: Respiratory outbreaks, by facility type, by onset week, North Zone (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 2, 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

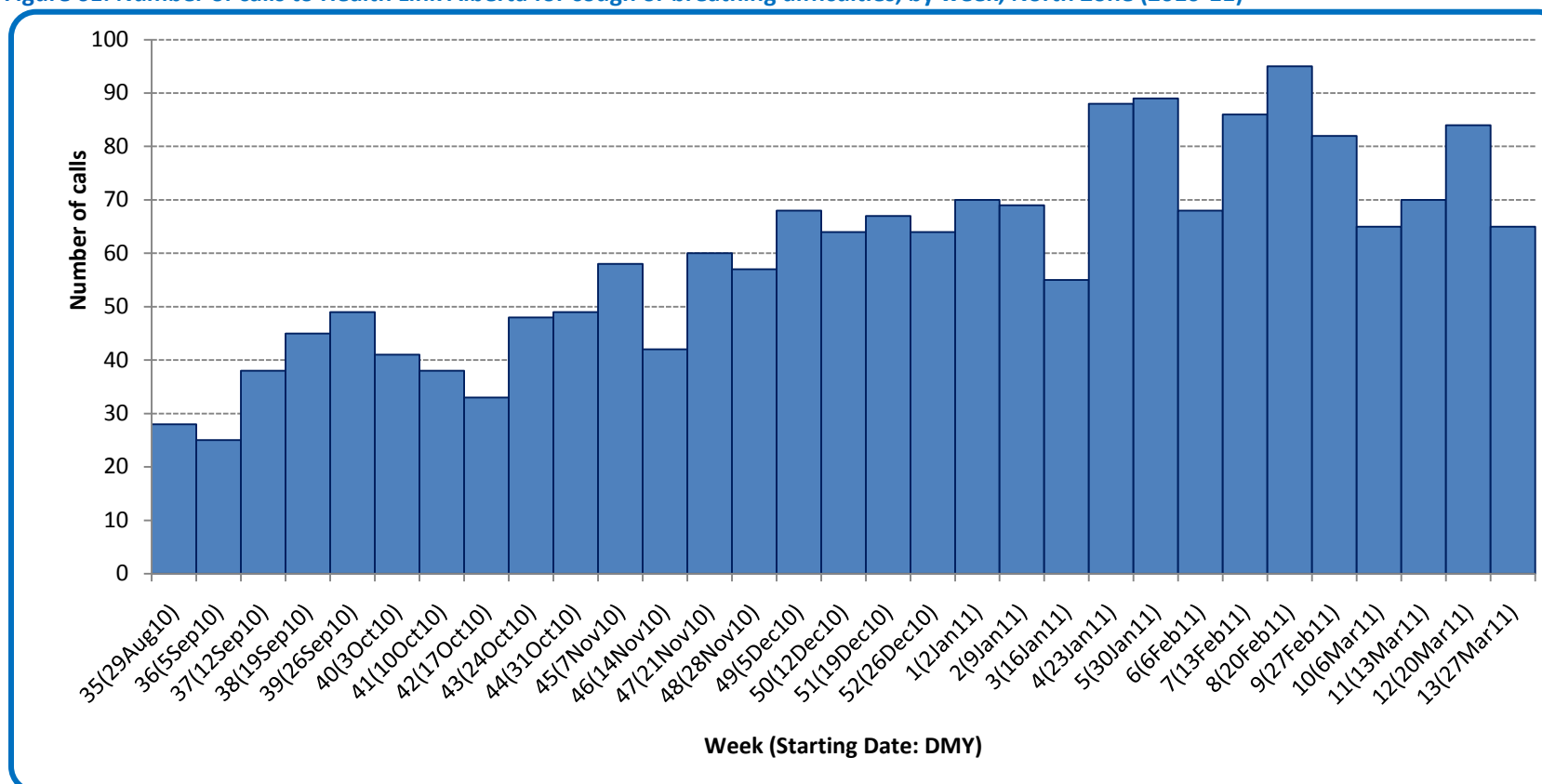
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An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 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 2, 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

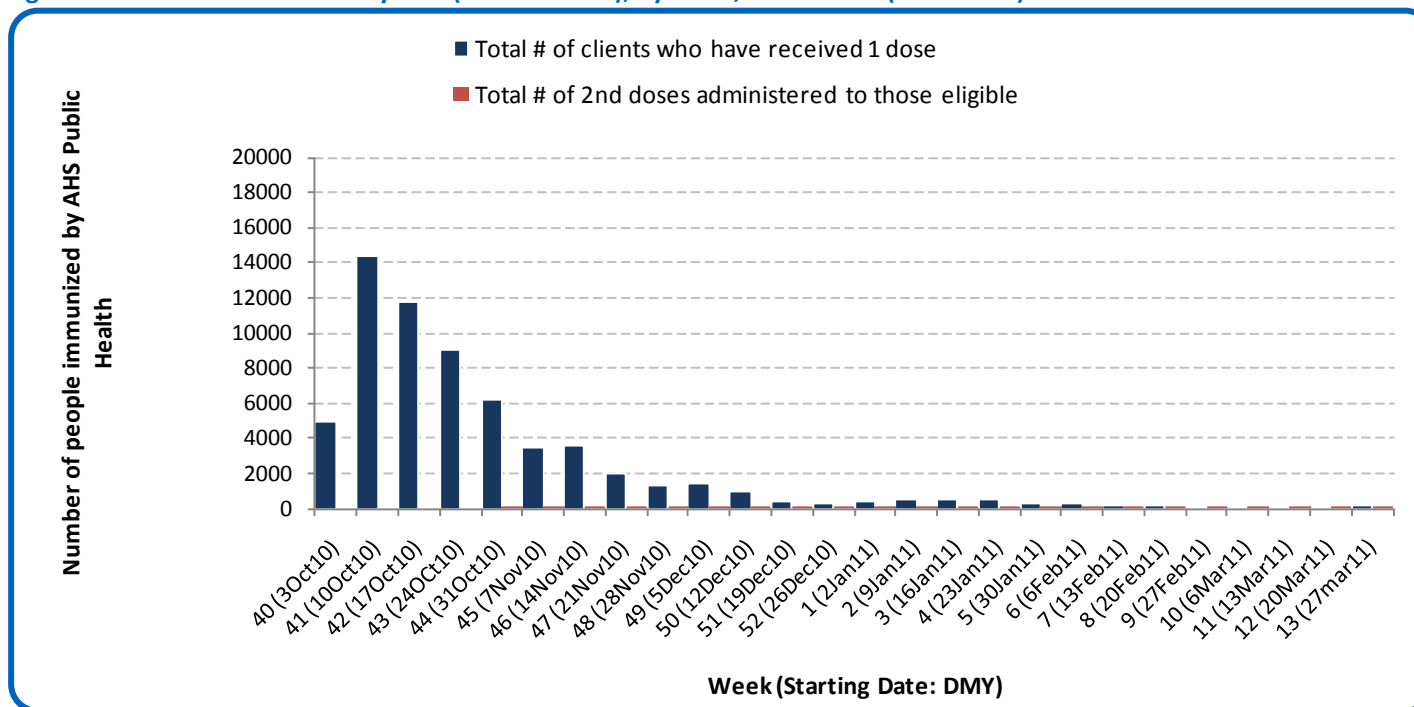
Public Health Surveillance

Report Date: April 5, 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 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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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 6C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, North Zone (2010-2011)

Priority Group		# Immunized (Week 13 – Mar27-Apr2, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		0	817
Health care workers		5	4,709
Pregnant women		1	572
Residents of long term care		1	1,249
65 years of age and over		6	15,804
All children 6 months up to and including 23 months*	Dose #1	25	2,439
	Dose #2	16	920
All children 24 months up to and including 59 months*	Dose #1	2	2,563
	Dose #2	0	140
High risk: 5 years up to and including 8 years*	Dose #1	1	959
	Dose #2	0	12
High risk: 9 years up to and including 64 years		13	7,868
Healthy: 5 years up to and including 8 years*	Dose #1	4	2,472
	Dose #2	0	63
Healthy: 9 years up to and including 64 years		59	23,607
Total number of clients who have received 1 dose		117	63,059
Total number of 2nd doses administered to those eligible*		16	1,135

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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