

Weekly Report

February 15, 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?

- The Central, Eastern and Southern parts of Europe continue to see increasing influenza activity, while countries in the northern part of the continent are starting to show decreasing trends. Influenza A (H1N1) 2009 continues to be the predominant strain in this area of the world. The western part of Europe is reporting a declining number of hospital admissions due to influenza, while the eastern part is reporting an increase. A high proportion of the severely ill are in the age group 15-64 years. In the western countries, the majority of severe cases have been due to influenza A (H1N1) 2009 virus infection. A similar pattern was noted earlier in the season in the UK. Nearly all of the viruses characterized in Europe are antigenically related to those in the current seasonal influenza vaccine, however a small number of influenza B viruses of the Yamagata lineage continue to be detected.
- In the tropics, several countries in southern Asia have reported a recent increase in influenza activity; mostly due to influenza A (H1N1) 2009 virus. Other areas in the tropics are reporting very little influenza transmission. Influenza activity in northern Africa and the Middle East has peaked and is declining. Some parts of northern Asia, including Mongolia and northern China are reporting an increase in influenza A (H1N1) 2009 detections however these areas have not shown significant increases in the influenza-like-illness (ILI) indicator. In contrast, Japan has recently reported a sharp increase of ILI activity, but has not reported as many positive detections of influenza viruses compared to previous weeks.
- Influenza activity in North America has been mixed, with increasing trends reported in the US and decreasing trends reported in Mexico and Canada (with the exception of Atlantic Canada where influenza detections have recently increased). Influenza A (H3N2) is still the predominant strain in the US and Canada, however the proportion of (H1N1) 2009 has increased in recent weeks. A small number of the influenza type B viruses not contained in this season's influenza vaccine continue to be identified.
- In Alberta, RSV continues to be the predominant virus circulating. The number of influenza cases confirmed last week was consistent with the number in previous weeks, however the proportion of influenza type B cases detected among all confirmed cases has been steadily rising (from 5% in early January to over 60% last week). Nearly half of the influenza type B cases confirmed last week were among children under the age of 9 years. In addition, one particular trend worth noting pertains to infants in the North Zone. Unlike other areas of the province where most of the influenza cases confirmed this season in infants aged 0 to less than 2 years have been caused by influenza A (H3), half of the cases in this age group in the North Zone have been caused by influenza A (H1N1) 2009.
- Since last week's update, seven previously reported respiratory outbreaks have now been confirmed. The causative agents for these vary and include two outbreaks caused by influenza A (H3), two caused by coronavirus, and one each caused by influenza type B, RSV and parainfluenza. In addition, two new outbreaks have been reported in Alberta. The new outbreaks occurred in schools. One occurred in Edmonton Zone and was attributed to influenza type B and the other occurred in North Zone and is currently pending laboratory confirmation.

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 6 (starting Feb 6/11)					
			South	Calgary	Central	Edmonton	North	
Laboratory Confirmed Cases	Number of cases with a positive respiratory specimen ¹	Adenovirus	4	31	8	52	14	109
		Coronavirus	5	46	24	83	28	186
		Human metapneumovirus (hMPV)	8	5	0	4	5	22
		Influenza A	22	128	45	151	60	406
		Influenza B	15	32	4	24	5	80
		Parainfluenza	24	66	41	136	75	342
		Respiratory syncytial virus (RSV)	71	323	109	522	185	1,210
		Rhino enterovirus	88	389	146	526	246	1,395
		Mixed	23	104	33	104	70	334
		Total	260	1124	410	1602	688	4,084
Outbreaks	# laboratory confirmed respiratory outbreaks ²	0	15	7	22	2	46	
Influenza Immunizations	Total number of clients who have received 1 dose administered by AHS Public Health ³ (cumulative since Oct 3, 2010)	42,869	188,834	61,219	160,549	62,177	515,648	
	The reported number of people who have received 1 dose administered by external providers (Oct 3-Dec 31, 2010) ⁴	17,619	120,408	17,789	62,481	5,075	223,372	

-- Information not available

*Note: 14 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. One specimen was 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 Feb 12, 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: February 15, 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

Overall, measures of respiratory virus activity in Alberta remain steady. RSV is the predominant virus being confirmed. The proportion of influenza type B (of all influenza viruses) cases continues to increase.

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

In Alberta, RSV continues to be the predominant virus circulating. The overall number of influenza cases confirmed last week was consistent with the number confirmed in previous weeks, however the proportion of influenza B cases has gone from 5% to over 60% in the past 5 weeks. The total number of influenza type B cases among all those confirmed in the province this season is 80 (43.8% of which have been under the age of 9 years). As of the end of last week (Feb 12, 2011), the total number of confirmed cases of influenza in the province this season is 486 (61.9% influenza A (H3), 18.9% influenza A (H1N1) 2009, 16.5% influenza type B, and 2.7% 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 7.2 per 10,000.

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

Since the last report, seven previously reported respiratory outbreaks have now been confirmed. Three of them were in Central Zone and included one in a seniors' lodge caused by influenza A (H3) (with an attack rate of 12%), one in a long term care facility caused by coronavirus (with an attack rate of 40%), and the other, also in a long term care facility caused by influenza A (H3) (with an attack rate of 5%). Three of the outbreaks confirmed occurred in Calgary Zone, including one in a school caused by influenza B (with an attack rate of 10%), and two others in long term care facilities caused by RSV and coronavirus (with attack rates of 10% and 60%, respectively). The last outbreak previously reported now confirmed occurred in an Edmonton Zone seniors' lodge and was attributed to parainfluenza. The attack rate for this outbreak was 7%. The onset of symptoms for these outbreaks ranged from the end of December, 2010 to the beginning of February, 2011.

Two new respiratory outbreaks have also been reported since last weeks' update. One occurred in an Edmonton Zone school and has been attributed to influenza type B (attack rate of 28%). The other occurred in a North Zone school and had an attack rate of 18%. The agent has not yet been confirmed.

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

The number of calls to Health Link Alberta for cough or breathing difficulties by Albertans in Week 6 (Feb 6-12, 2011) did not change substantially from the previous week.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

The combined number of visits to the emergency departments/urgent care centers (ED's) for influenza-like illness (ILI) in the City of Calgary and the Edmonton Zone did not change substantially in Week 6 (Feb 6-12, 2011) from the previous week. It remains at 6% of all screened visits. The number of admissions to hospitals also stayed the same as in the previous two weeks.

The number of visits for cough increased by 5% in Week 6 (Feb 6-12, 2011) compared to the previous week; while the number of admissions to hospital declined by 18%.

Sentinel Physician Office Visits

The combined percentage of ILI- and LRTI-related visits was 4% lower in Week 5 (Jan 30 – Feb 5, 11) compared to Week 4, becoming the second highest it has been this season. The percentage of ILI-related visits has decreased more than the percentage of increased LRTI-related visits.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

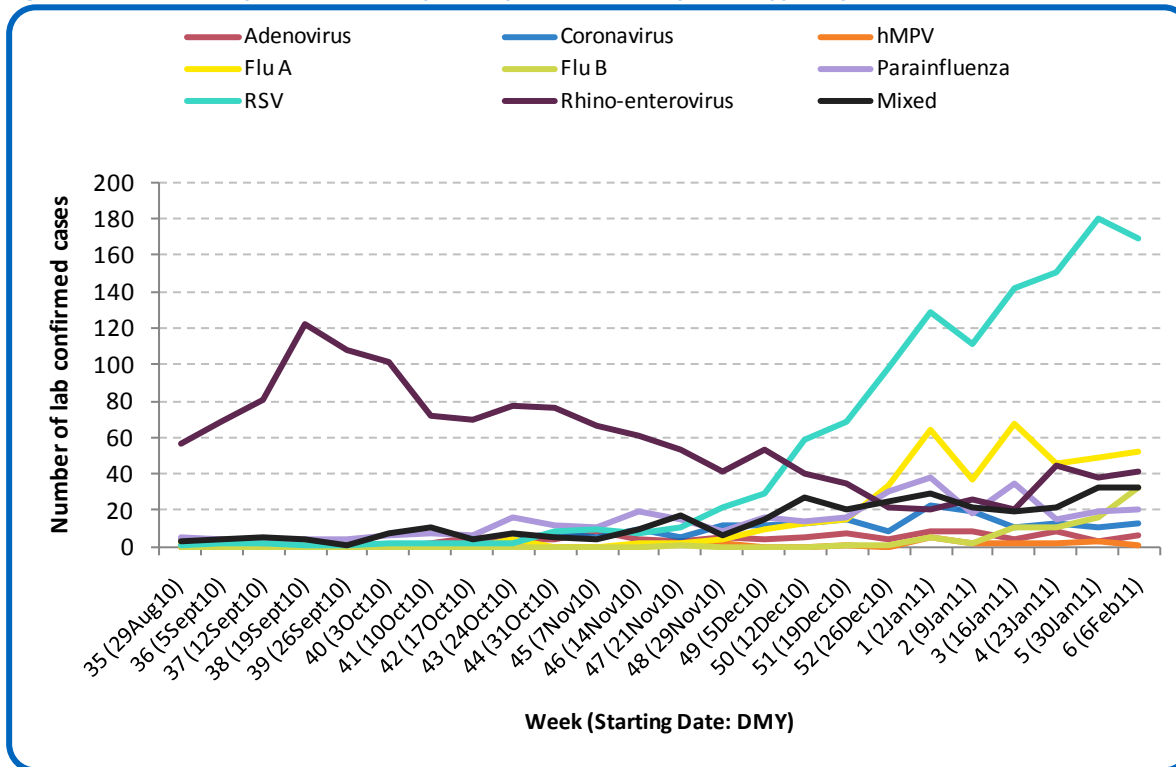
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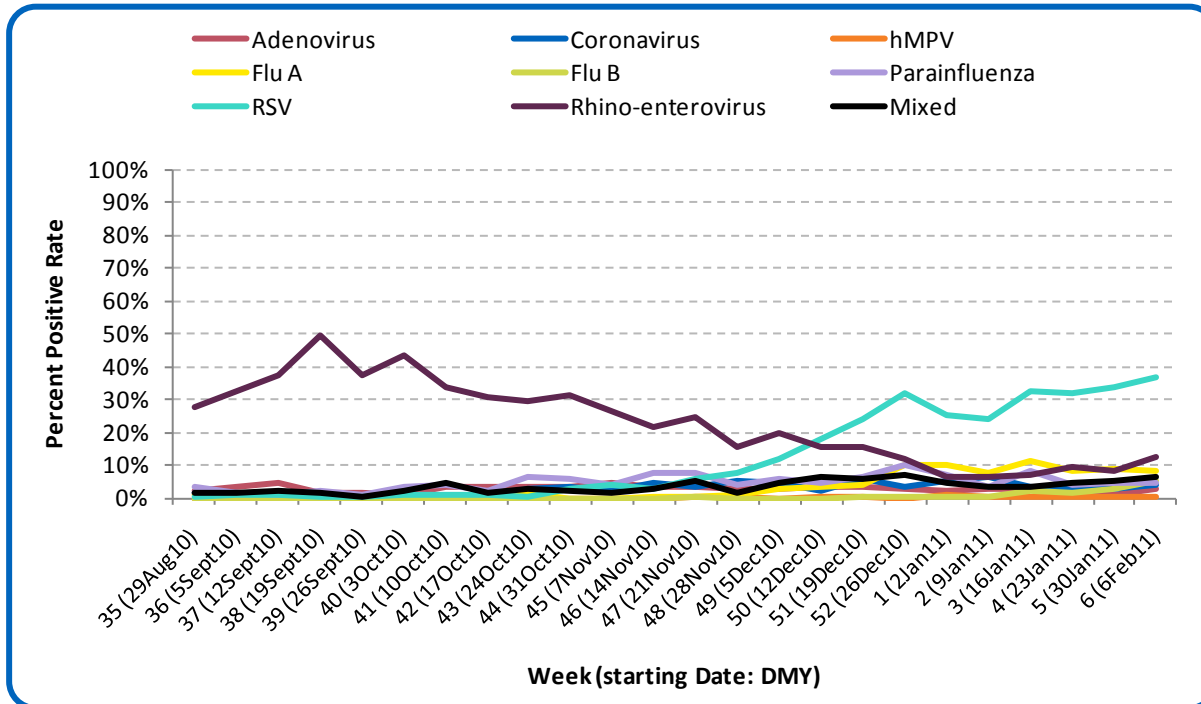
Figure 1A: Laboratory confirmed respiratory virus cases, by virus type, by week, Alberta (2010-11)



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Feb 12, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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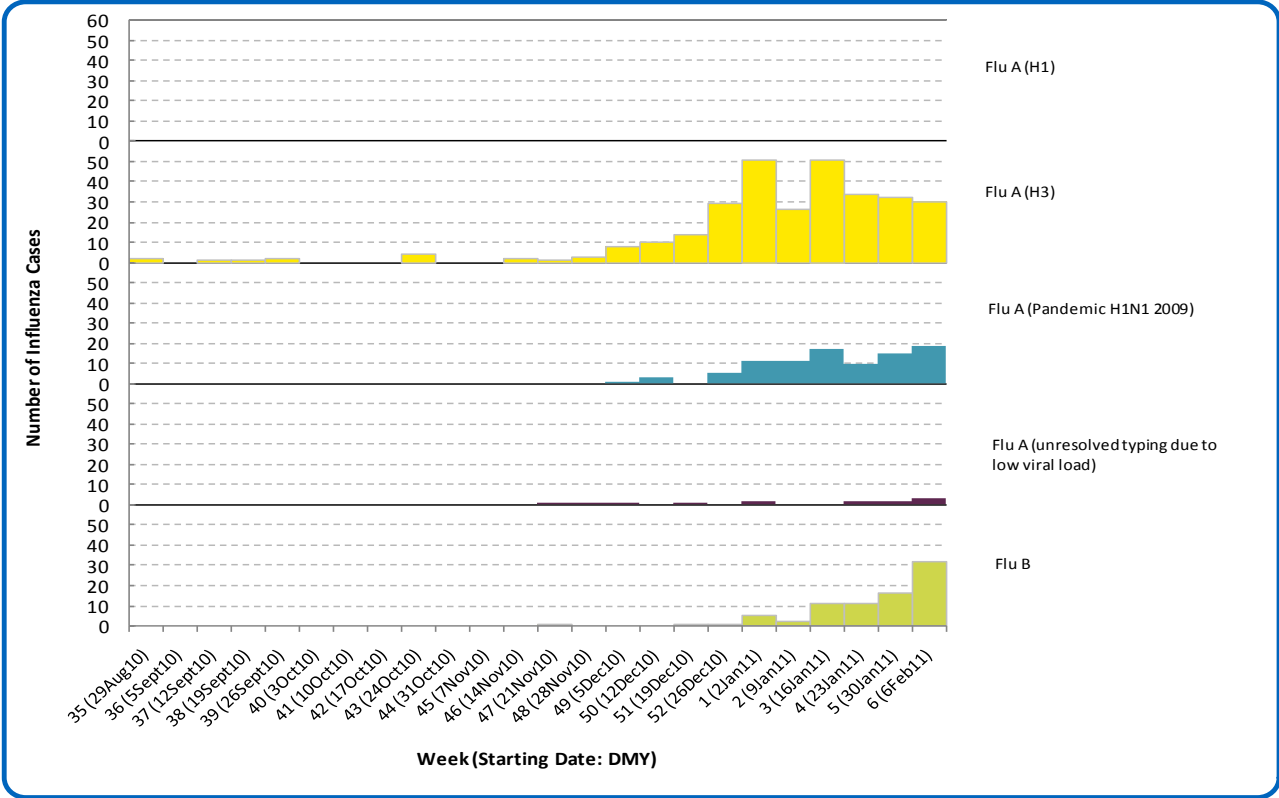
Figure 1B: Respiratory specimen percent positive rates, by virus type, by week, Alberta (2010-11)



Sources: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Feb 12, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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



*Note: 14 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. One specimen was positive for both influenza A & B.

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Feb 12, 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 1A: New influenza cases (and age specific rates), by subtype, by age group, Alberta (Week 6: Feb 6-12, 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	0.4	5	0.5	1	0.1	3	0.3	13	1.3
2 to <5 years	0	0.0	4	0.3	1	0.1	0	0.0	4	0.3	9	0.6
5 to <9 years	0	0.0	5	0.3	1	0.1	0	0.0	7	0.4	13	0.7
9 to <18 years	0	0.0	5	0.1	2	<0.1	1	<0.1	9	0.2	17	0.4
18 to <65 years	0	0.0	9	<0.1	9	<0.1	1	<0.1	6	<0.1	25	0.1
65 to <75 years	0	0.0	2	0.1	1	<0.1	0	0.0	2	0.1	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	30	0.1	19	0.1	3	0.0	32	0.1	84	0.2

Table 1B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Alberta (Aug 29, 2010 – Feb 12, 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	44	4.3	17	1.7	2	0.2	10	1.0	73	7.2
2 to <5 years	0	0.0	24	1.7	3	0.2	2	0.1	11	0.8	40	2.9
5 to <9 years	0	0.0	13	0.7	7	0.4	1	0.1	14	0.8	35	2.0
9 to <18 years	0	0.0	18	0.4	6	0.1	2	<0.1	19	0.5	45	1.1
18 to <65 years	0	0.0	122	0.5	58	0.2	4	<0.1	21	0.1	205	0.9
65 to <75 years	0	0.0	14	0.7	1	<0.1	0	0.0	2	0.1	17	0.8
75+ years	0	0.0	66	3.7	0	0.0	2	0.1	3	0.2	71	4.0
Total	0	0.0	301	0.8	92	0.3	13	0.0	80	0.2	486	1.3

Source for Table 1A & 1B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Feb 12, 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

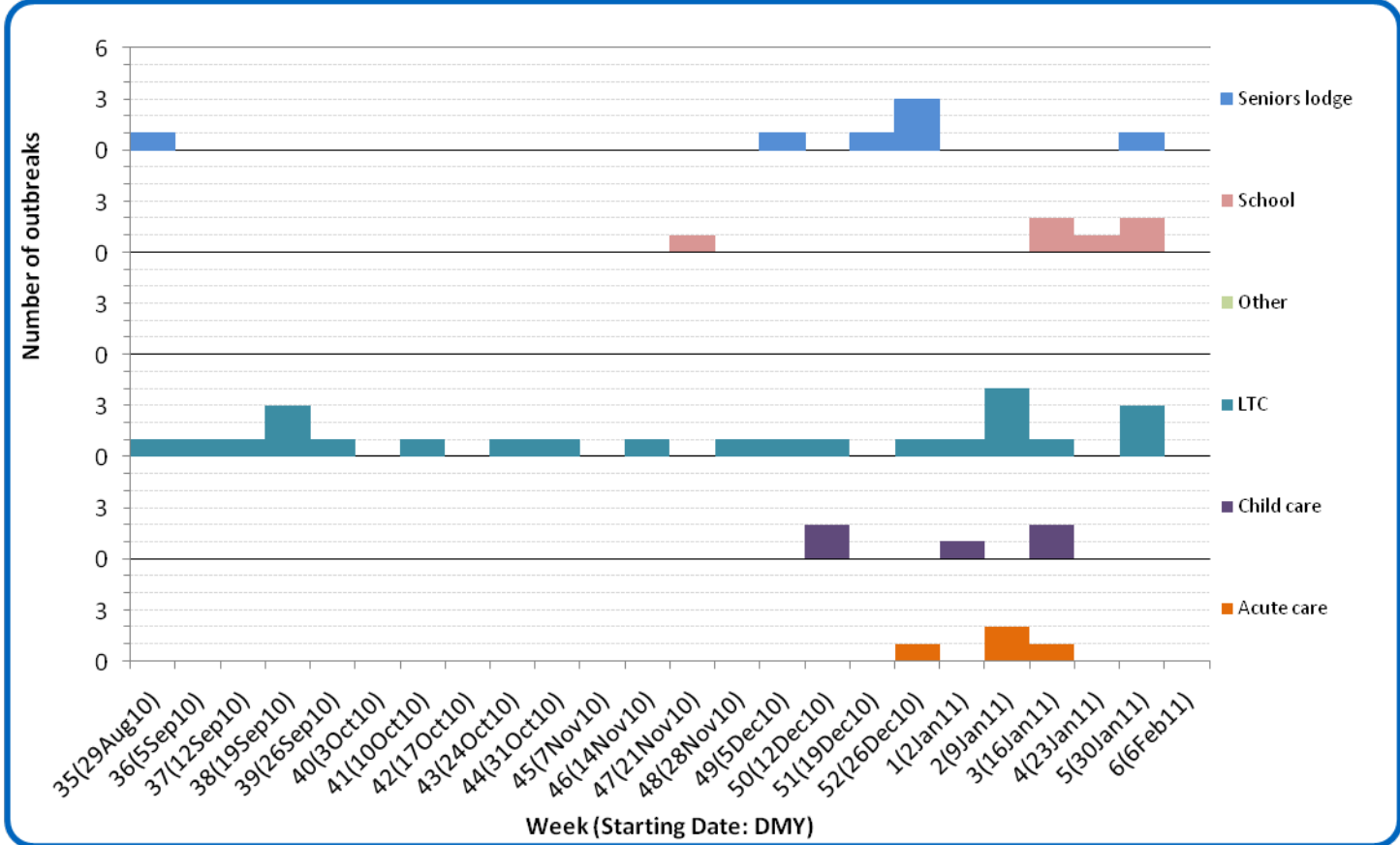
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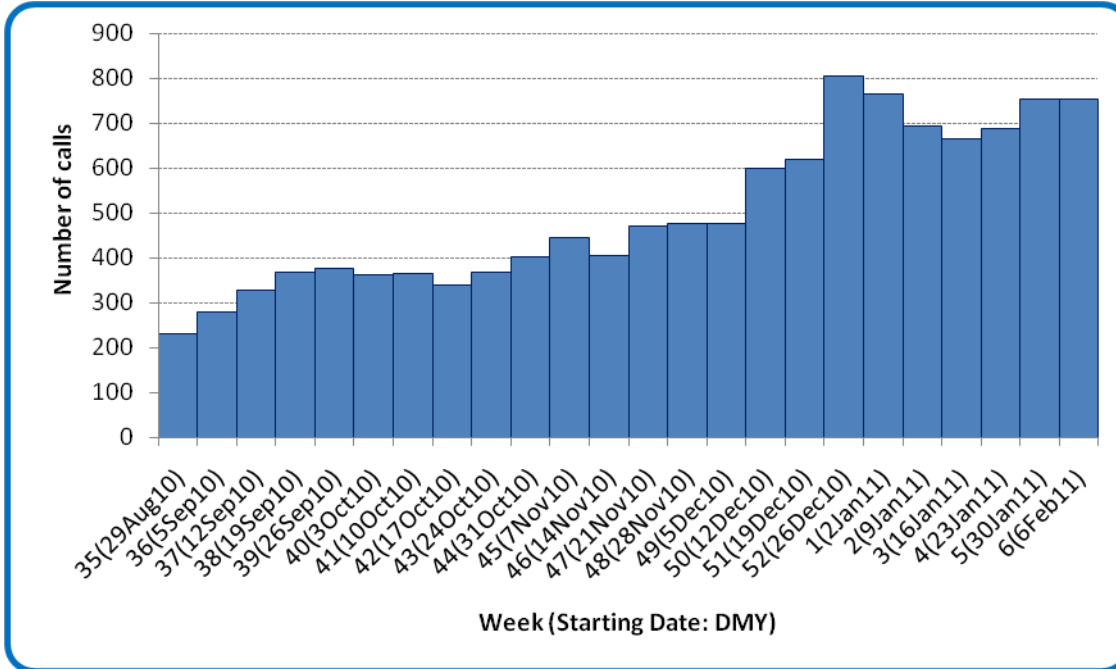
Figure 1D: Respiratory outbreaks, by facility type, by onset week, Alberta (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Feb 12, 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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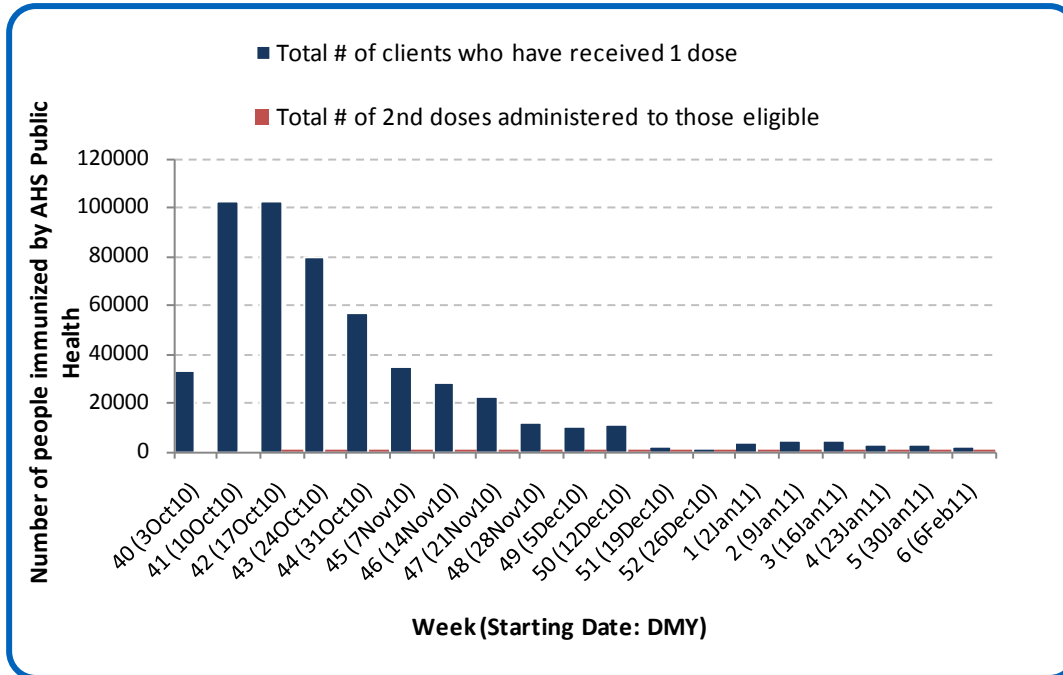
Figure 1E: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, Alberta (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Feb 12, 2011. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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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](#)

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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 6 – Feb 6-12, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff	12	2,609
Health care workers	43	18,918
Pregnant women	33	4,648
Residents of long term care	0	4,835
65 years of age and over	99	146,615
All children 6 months up to and including 23 months*	Dose #1	627
	Dose #2	341
All children 24 months up to and including 59 months*	Dose #1	175
	Dose #2	38
High risk: 5 years up to and including 8 years*	Dose #1	34
	Dose #2	11
High risk: 9 years up to and including 64 years	126	55,651
Healthy: 5 years up to and including 8 years*	Dose #1	116
	Dose #2	13
Healthy: 9 years up to and including 64 years	718	208,917
Total number of clients who have received 1 dose	1,983	515,648
Total number of 2nd doses administered to those eligible*	403	9,014

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	52,156	
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	223,372	
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

Laboratory data for several types of respiratory viruses (including RSV and influenza B) as well as a recent increase in Health Link Alberta calls for cough or breathing difficulties indicate an increase in respiratory activity in South Zone over the last week.

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

RSV is currently the predominant virus being confirmed in South Zone. So far this season, there have been a total of 37 confirmed cases of influenza in this part of the province (40.5% of those have been influenza B cases confirmed in the last 3 weeks). At this point in the season, the age specific rate for confirmed influenza cases (all types) 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 3.6 per 10,000 and 5.2 per 10,000, respectively. Two thirds of the cases in these age group have been caused by influenza A (H3), while the remaining 1/3 have been caused by influenza type B.

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 was 44% higher in Week 6 (Feb 6-12, 2011) compared to Week 5. This is the highest it has been this season.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

This information is not available for South Zone.

Sentinel Physician Office Visits

The combined percentage of ILI- and LRTI-related visits to sentinel physician offices by residents South Zone was 45% lower in Week 5 (Jan 30-Feb 5, 2011) compared to the previous week. This was due to a decreasing percentage of ILI-related visits as there were no LRTI-related visits.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

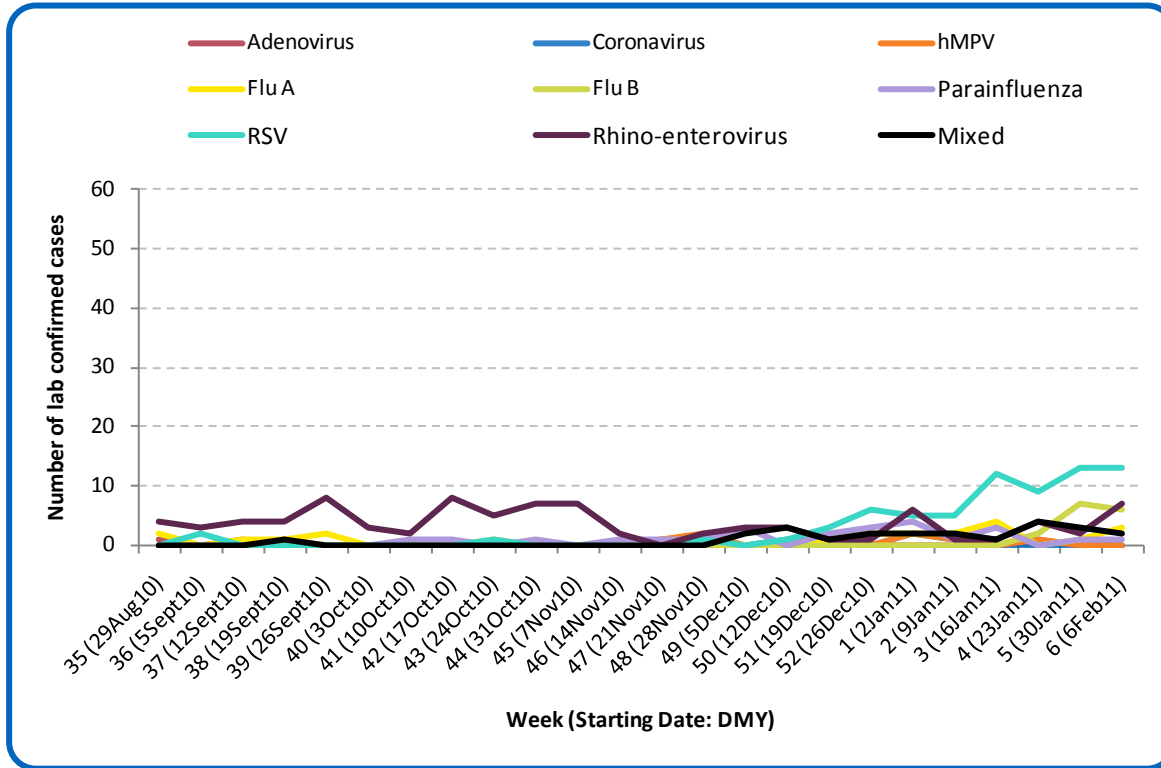
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Figure 2A: Laboratory confirmed respiratory virus cases, by virus type, by week, South Zone (2010-2011)



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Feb 12, 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

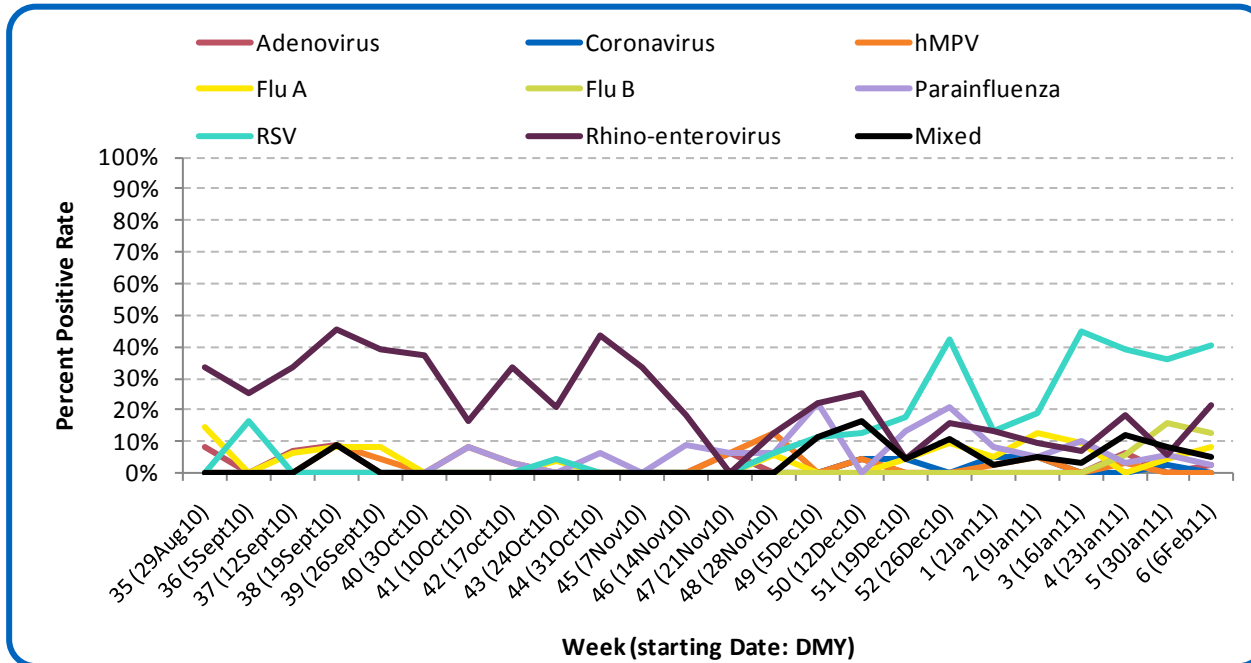
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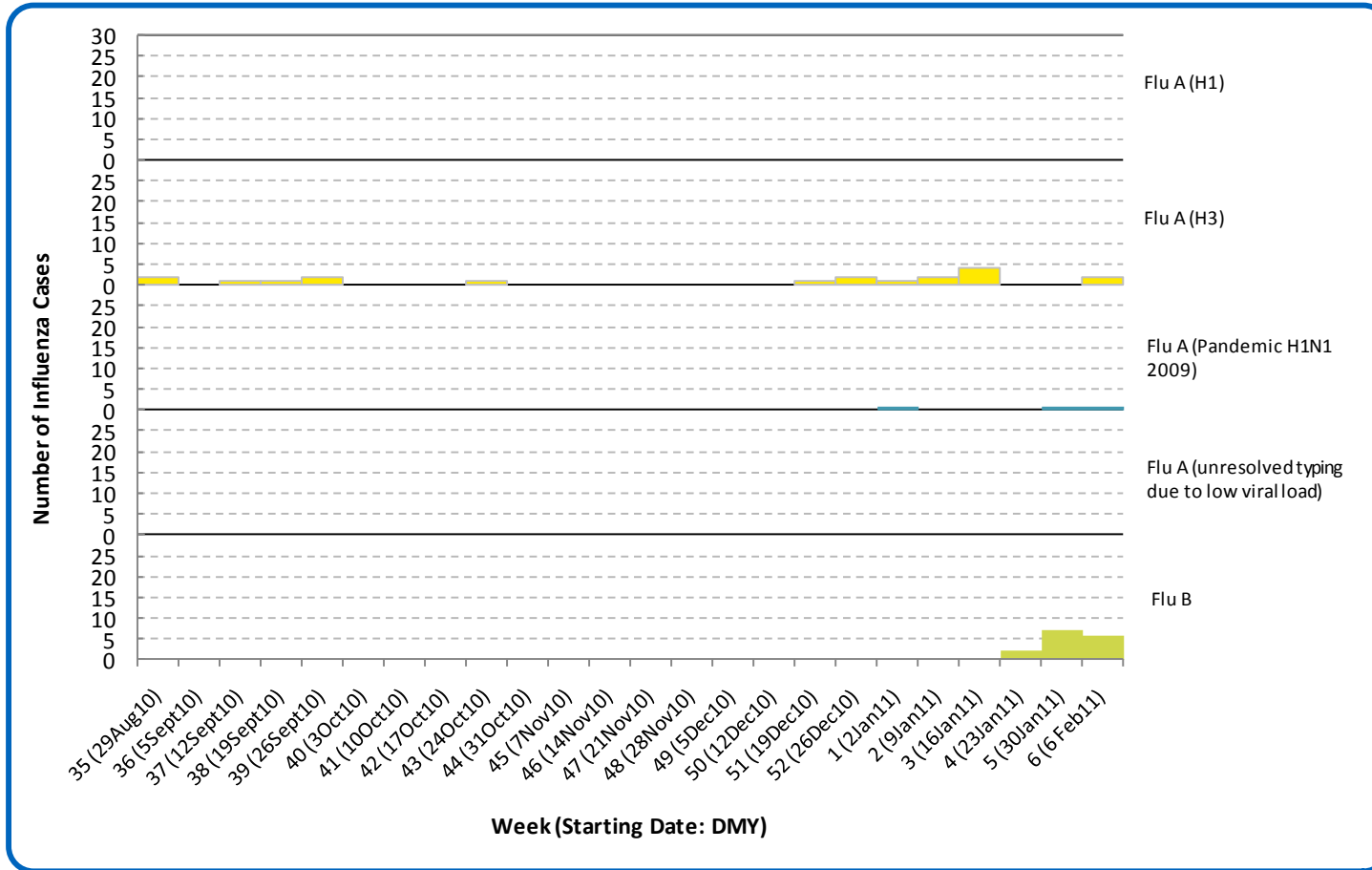
Figure 2B: Respiratory specimen percent positive rates, by virus type, by week, South Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Feb 12, 2011)
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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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 Feb 12, 2011).

*Note: 1 specimen was positive for influenza B and one other virus type. This case has been included in the influenza B count, as well as the other respective specimen type. It has not been included in the 'Mixed' category.

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

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Table 2A: New influenza cases (and age specific rates), by subtype, by age group, South Zone (Week 6: Feb 6-12, 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	1	1.2	2	2.4
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	0	0.0	0	0.0
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	4	1.2	4	1.2
18 to <65 years	0	0.0	1	0.1	0	0.0	0	0.0	1	0.1	2	0.1
65 to <75 years	0	0.0	0	0.0	1	0.5	0	0.0	0	0.0	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	2	0.1	1	<0.1	0	0.0	6	0.2	9	0.3

Table 2B: Cumulative influenza cases (and age specific rates), by subtype, by age group, South Zone (Aug 29, 2010–Feb 12, 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	2.4	0	0.0	0	0.0	1	1.2	3	3.6
2 to <5 years	0	0.0	4	3.5	0	0.0	0	0.0	2	1.7	6	5.2
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	6	1.8	6	1.8
18 to <65 years	0	0.0	12	0.7	2	0.1	0	0.0	6	0.3	20	1.2
65 to <75 years	0	0.0	0	0.0	1	0.5	0	0.0	0	0.0	1	0.5
75+ years	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	1	0.5
Total	0	0.0	19	0.7	3	0.1	0	0.0	15	0.5	37	1.3

Source for Tables 2A & 2B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Feb 12, 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

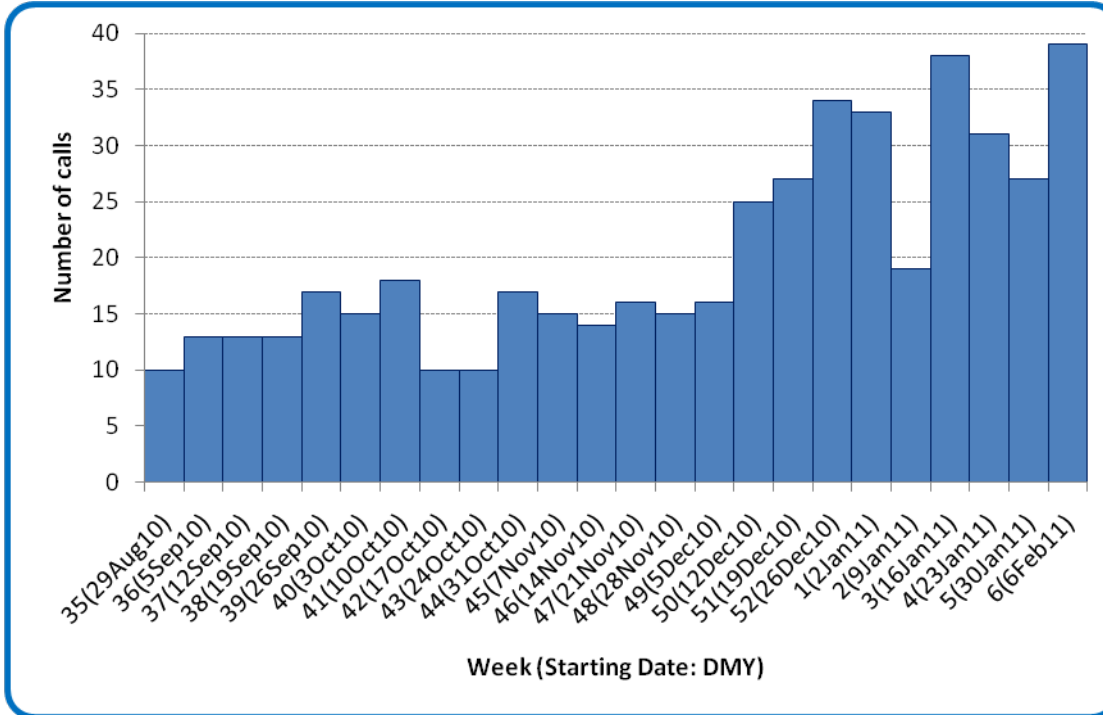
Public Health Surveillance

Report Date: February 15, 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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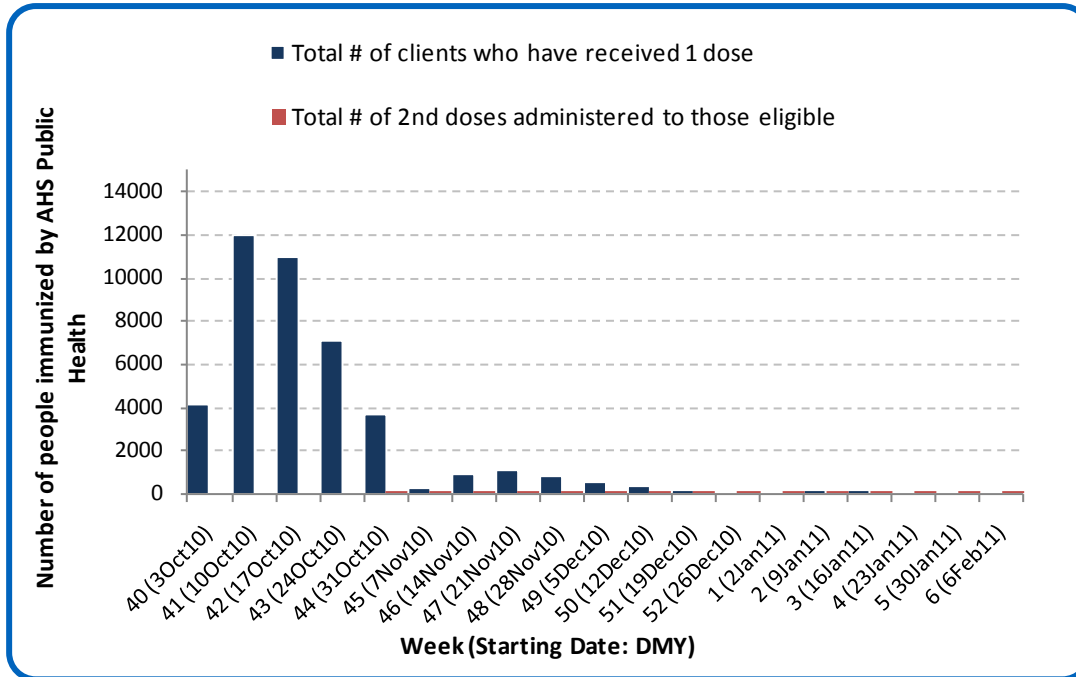
Figure 2D: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, Alberta (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSN) as of 23:59 on Feb 12, 2011. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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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](#)

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

Priority Group	Number Immunized (Week 6 – Feb 6-12, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff	0	615
Health care workers	2	1,564
Pregnant women	0	299
Residents of long term care	0	730
65 years of age and over	12	15,593
All children 6 months up to and including 23 months*	Dose #1	16
	Dose #2	13
All children 24 months up to and including 59 months*	Dose #1	5
	Dose #2	0
High risk: 5 years up to and including 8 years*	Dose #1	2
	Dose #2	0
High risk: 9 years up to and including 64 years	9	4,096
Healthy: 5 years up to and including 8 years*	Dose #1	9
	Dose #2	2
Healthy: 9 years up to and including 64 years	20	14,593
Total number of clients who have received 1 dose	75	42,869
Total number of 2nd doses administered to those eligible*	15	695

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: February 15, 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	4,228	
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	17,619	
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: February 15, 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

The trends in several indicators in recent weeks show steadily increasing respiratory virus activity in Calgary Zone.

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

RSV is currently the predominant virus circulating in Calgary Zone. Since the beginning of the season, a total of 160 cases of influenza have been confirmed in Calgary Zone (55.6% influenza A (H3); 19.4% influenza A (H1N1) 2009; 5.0% influenza A with unresolved sub-typing and 20.0% influenza B). The proportion of influenza type B cases among all cases confirmed has gone from 15.4% to 61.1% in the past 3 weeks. At this point in the season, the age specific rate for confirmed influenza cases (all types) in Calgary Zone is highest for infants 0 to less than 2 years of age, at 4.6 per 10,000. Over half of the cases in this age group have been influenza A (H3).

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

Since the last report, three previously reported respiratory outbreaks have been confirmed in the Calgary Zone. One, caused by influenza type B, occurred in a school at the end of January and had an attack rate of 10%; the other two occurred in long term care facilities at the beginning of February, and were caused by RSV (with an attack rate of 10%) and coronavirus (with an attack rate of 60%).

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 was 6% higher in Week 6 (Feb 6-12, 2011) compared to the previous week. This continues the increasing trend seen in the previous 4 weeks.

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

The number of visits for influenza-like illness (ILI) at the six urban emergency departments/ urgent care centers (ED's) in the City of Calgary was 9% lower in Week 6 (Feb 6-12, 2011) compared to the previous week. This brought the percentage of ILI positive visits to approximately 6% of all screened visits. Hospital admissions for ILI-related visits in Week 6 did not change substantially from the previous week.

The number of visits for cough symptoms at the same ED's increased by 7% in Week 6 (Feb 6-12, 2011) compared to the previous week, however the number of hospital admissions for this reason decreased by 12%.

Sentinel Physician Office Visits

The combined percentage for ILI- and LRTI-related visits was 10% lower in Week 5 (Jan 30-Feb 5, 2011) compared to week 4.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

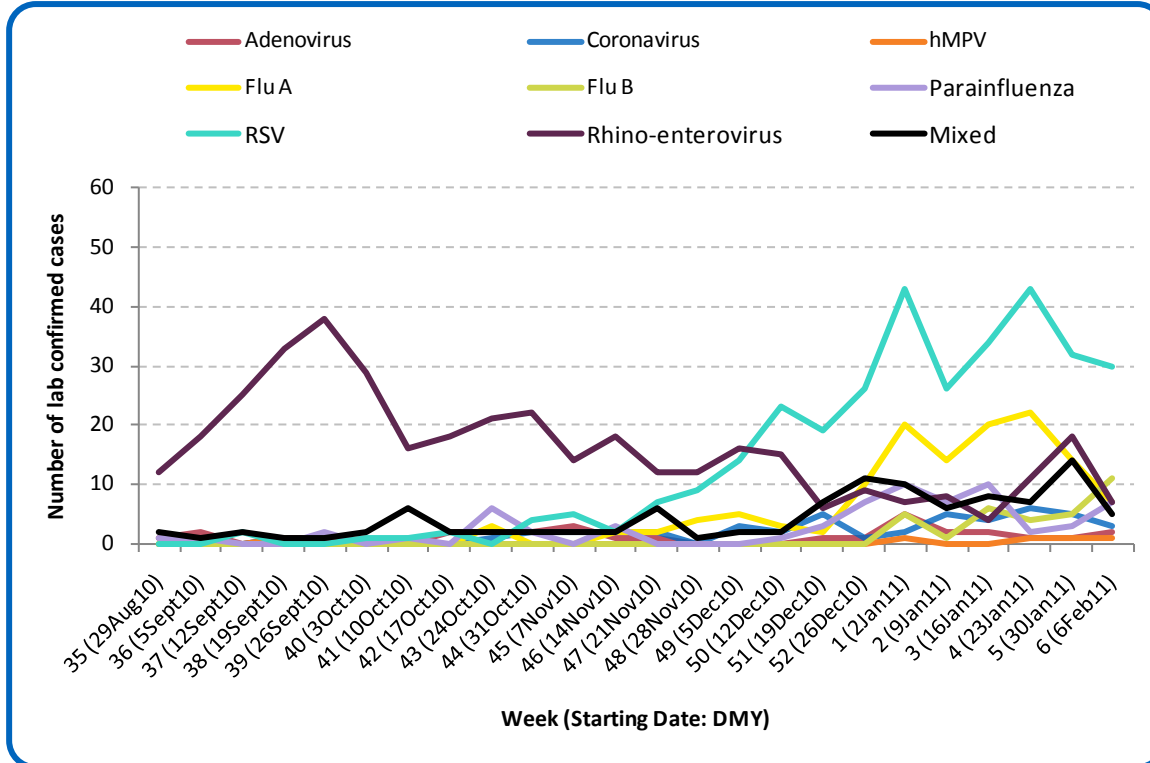
Public Health Surveillance

Report Date: February 15, 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 Feb 12, 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

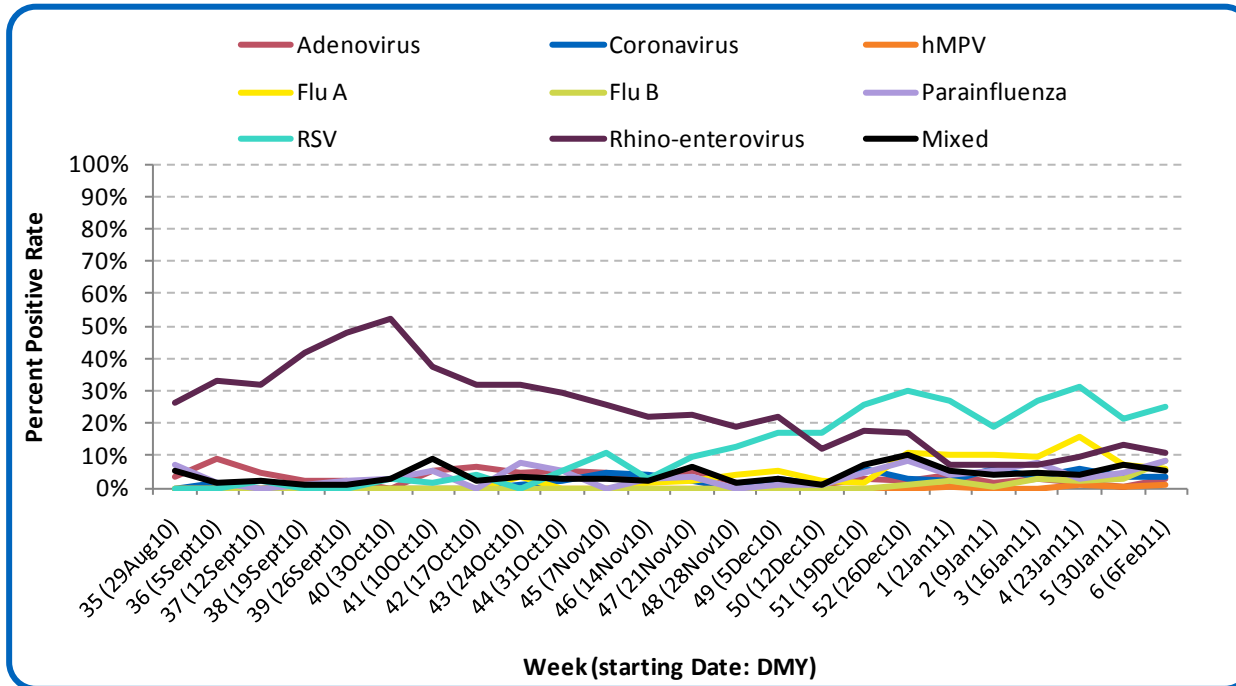
Public Health Surveillance

Report Date: February 15, 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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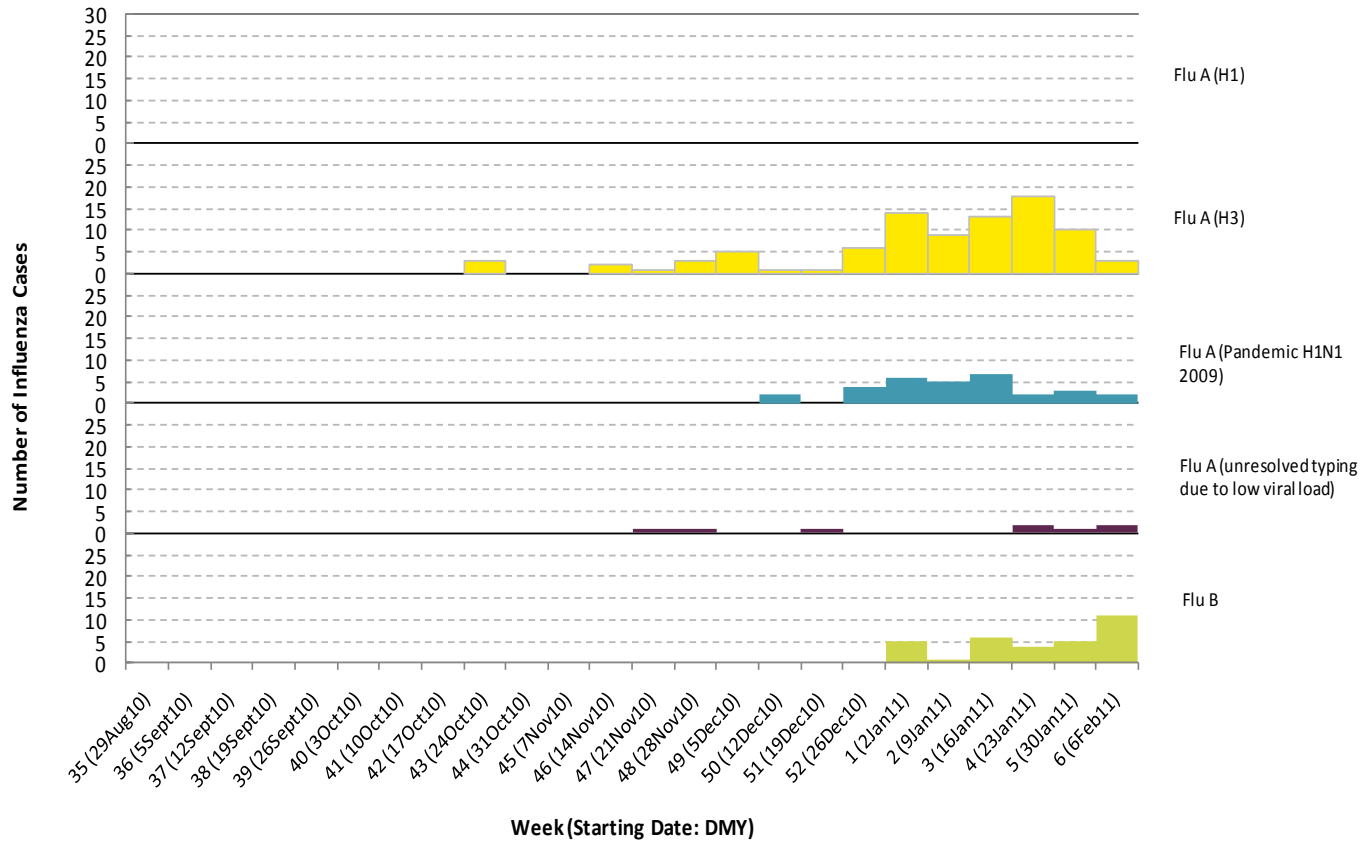
Figure 3B: Respiratory specimen percent positive rates, by virus type, by week, Calgary Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Feb 12, 2011)
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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



*Note: 3 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. One specimen was positive for both influenza A & B.
 Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Feb 12, 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 3A: New influenza cases (and age specific rates), by subtype, by age group, Calgary Zone (Week 6: Feb 6-12, 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	0	0.0	1	0.3	0	0.0	2	0.5
2 to <5 years	0	0.0	0	0.0	0	0.0	0	0.0	3	0.6	3	0.6
5 to <9 years	0	0.0	1	0.2	0	0.0	0	0.0	3	0.5	4	0.6
9 to <18 years	0	0.0	1	0.1	0	0.0	1	0.1	2	0.1	4	0.3
18 to <65 years	0	0.0	0	0.0	2	<0.1	0	0.0	2	<0.1	4	0.0
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	0	0.0	0	0.0
Total	0	0.0	3	<0.1	2	<0.1	2	<0.1	11	0.1	18	0.1

Table 3B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Calgary Zone (Aug 29, 2010 – Feb 12, 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	10	2.7	3	0.8	1	0.3	3	0.8	17	4.6
2 to <5 years	0	0.0	6	1.2	1	0.2	1	0.2	6	1.2	14	2.7
5 to <9 years	0	0.0	4	0.6	1	0.2	1	0.2	9	1.4	15	2.4
9 to <18 years	0	0.0	6	0.4	0	0.0	2	0.1	4	0.3	12	0.8
18 to <65 years	0	0.0	44	0.5	26	0.3	2	<0.1	8	0.1	80	0.9
65 to <75 years	0	0.0	4	0.6	0	0.0	0	0.0	1	0.1	5	0.7
75+ years	0	0.0	15	2.5	0	0.0	1	0.2	1	0.2	17	2.9
Total	0	0.0	89	0.7	31	0.2	8	0.1	32	0.2	160	1.2

Source for tables 3A & 3B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Feb 12, 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

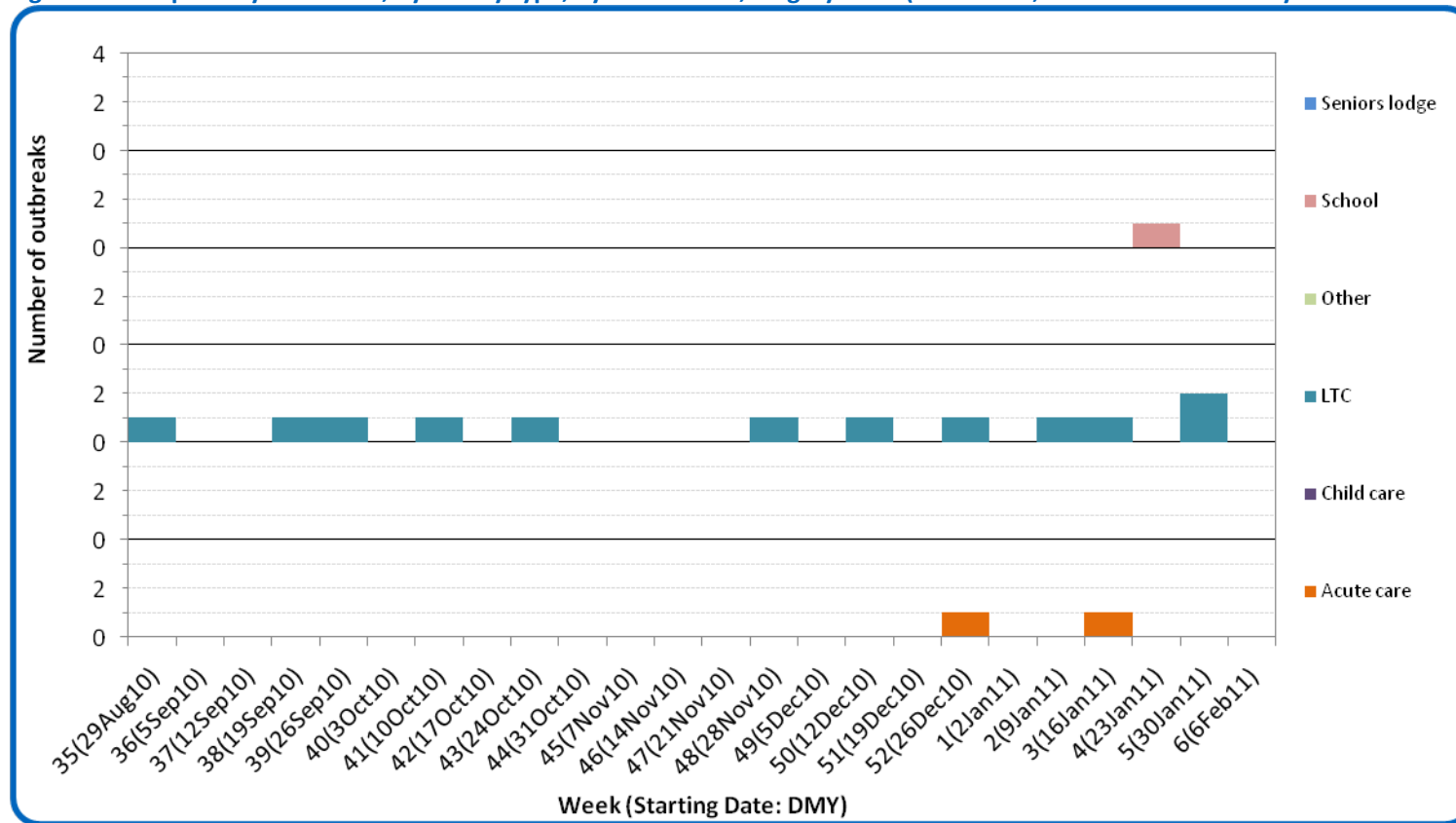
Public Health Surveillance

Report Date: February 15, 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 Feb 12, 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

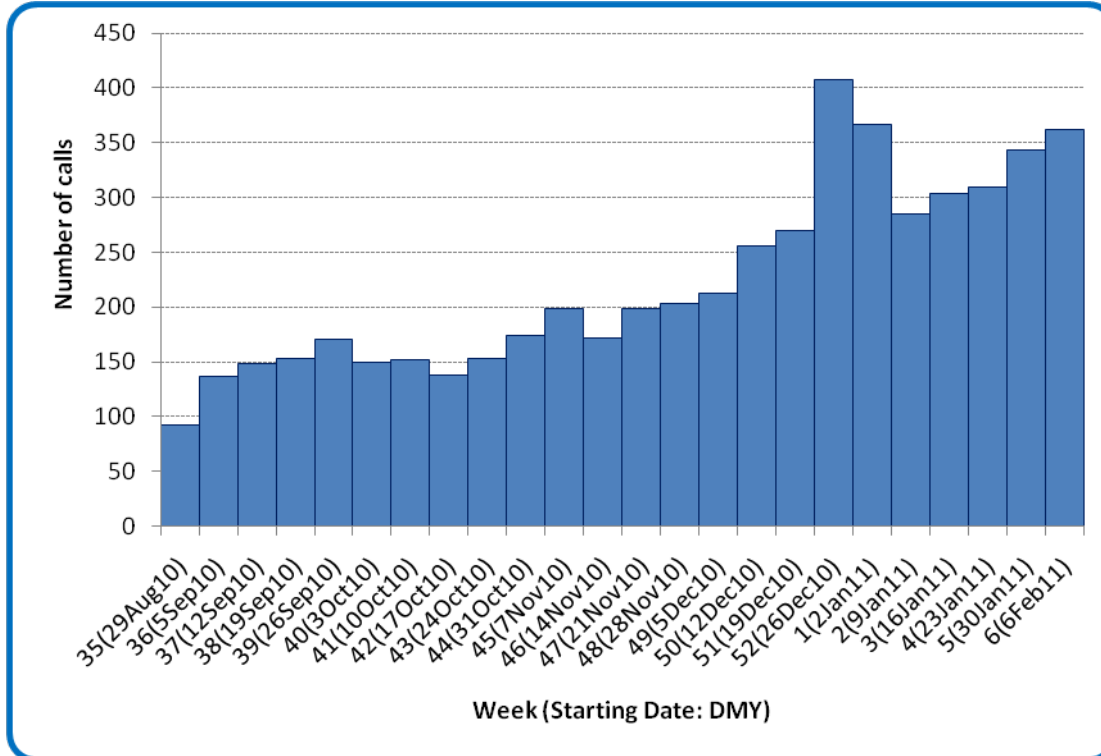
Public Health Surveillance

Report Date: February 15, 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 Feb 12, 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

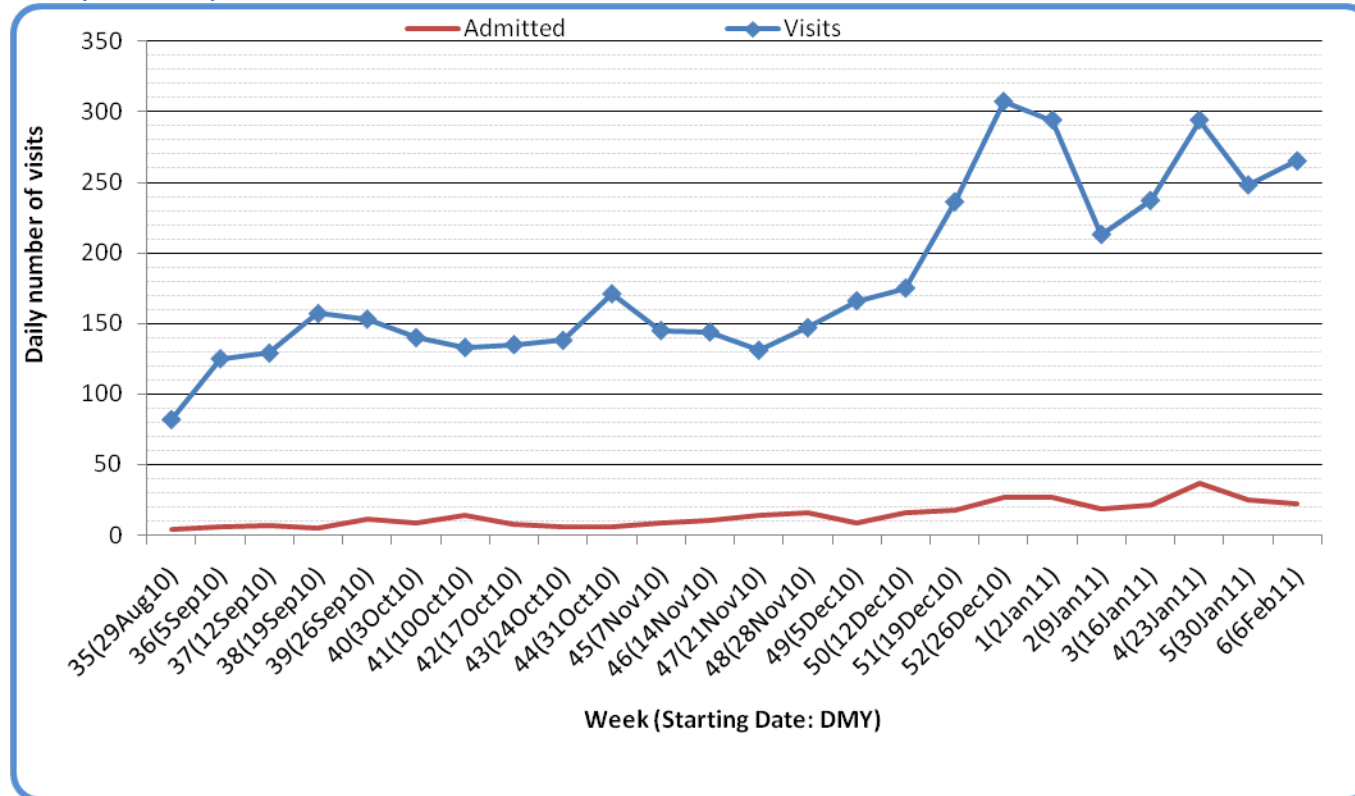
Public Health Surveillance

Report Date: February 15, 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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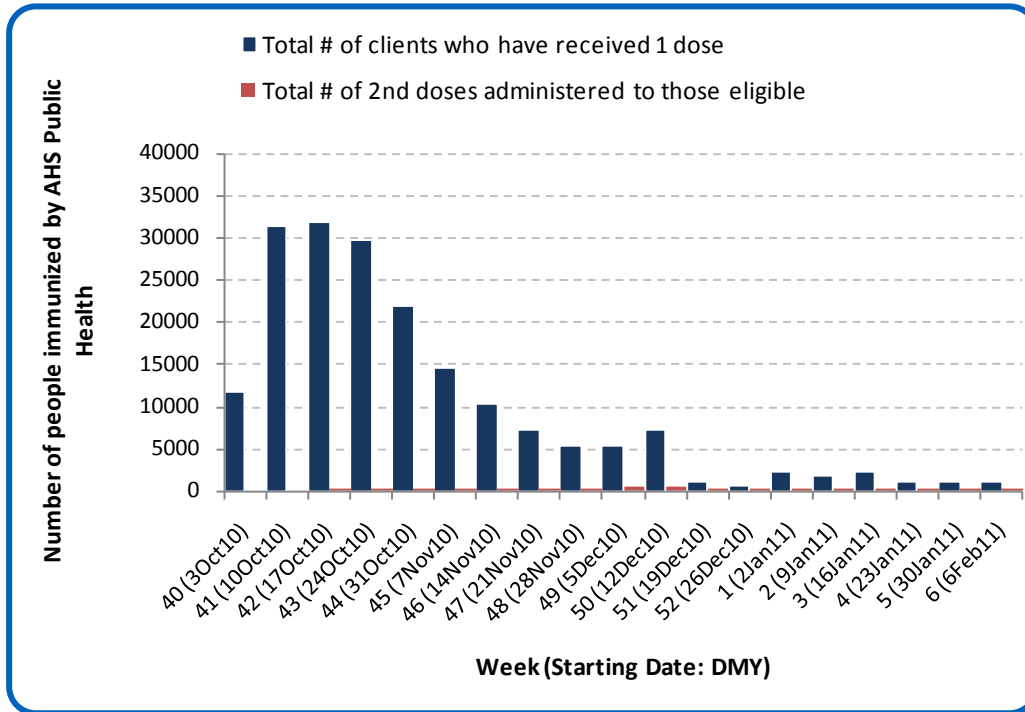
Figure 3F: Visits to urban emergency departments/urgent care centers in the City of Calgary with cough symptoms and admissions to hospitals, by visit week (2010-2011)



Source: Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Feb 12, 2011.
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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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: February 15, 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	Number Immunized (Week 6 – Feb 6-12, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff	3	450
Health care workers	13	5,313
Pregnant women	18	1,946
Residents of long term care	0	706
65 years of age and over	16	44,677
All children 6 months up to and including 23 months*	Dose #1	391
	Dose #2	173
All children 24 months up to and including 59 months*	Dose #1	112
	Dose #2	16
High risk: 5 years up to and including 8 years*	Dose #1	14
	Dose #2	8
High risk: 9 years up to and including 64 years	46	19,890
Healthy: 5 years up to and including 8 years*	Dose #1	66
	Dose #2	4
Healthy: 9 years up to and including 64 years	360	83,132
Total number of clients who have received 1 dose	1,039	188,834
Total number of 2nd doses administered to those eligible*	201	3,828

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: February 15, 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: February 15, 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

Generally, respiratory virus activity in Central Zone appears to be fairly steady in recent weeks, however RSV activity has been showing an upward trend since the end of December, 2010.

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

RSV is currently the predominant virus being confirmed in Central Zone. The total number of influenza cases confirmed in Central zone this season is 49. At this point in the season, the age-specific rate for confirmed cases of influenza in those 75 years and over is currently 6.6 per 10,000, while the age-specific rate for infants aged 0 to less than 2 years age is 4.9 per 10,000 for infants aged 0 to less than 2 years of age. For all other age groups, it is less than 1 per 10,000. All but one of the cases in these two age groups were caused by influenza A (H3).

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

Since last weeks' update, three previously reported respiratory outbreaks in the Central Zone have been confirmed. One occurred in a seniors' lodge at the end of December, 2010 and was caused by influenza A(H3) (attack rate of 12%). The other two occurred in long term care facilities, including one in Week 2 (Jan 9-15, 2011) caused by coronavirus (attack rate of 40%) and another in Week 5 (Jan 30-Feb 5, 2011) caused by influenza A (H3) (attack rate of 5%).

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

The number of calls to Health Link Alberta by residents of the Central Zone for cough or breathing difficulties was 23% lower In Week 6 (Feb 6-12, 2011) compared to the previous week.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

There are no data available from this zone.

Sentinel Physician Office Visits

No ILI- or LRTI-related patient visits to sentinel physicians' offices were reported in Week 5 (Jan 30-Feb 5, 2011).

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

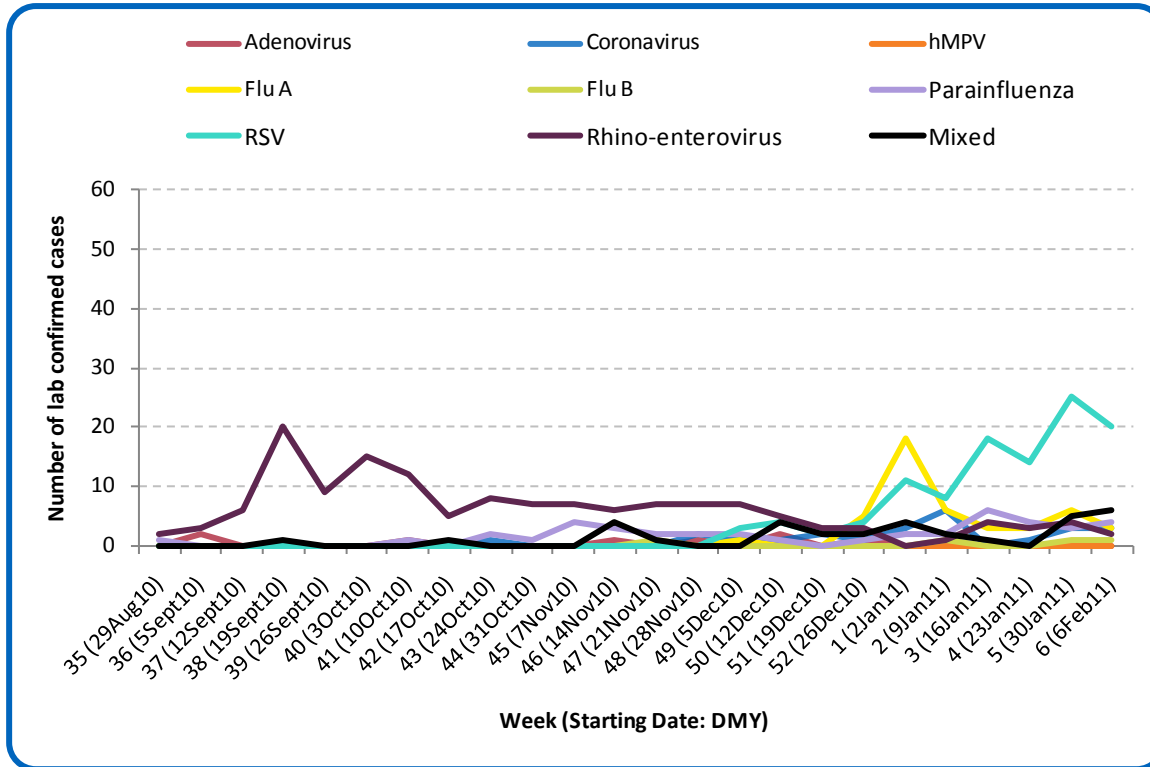
Public Health Surveillance

Report Date: February 15, 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 Feb 12, 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

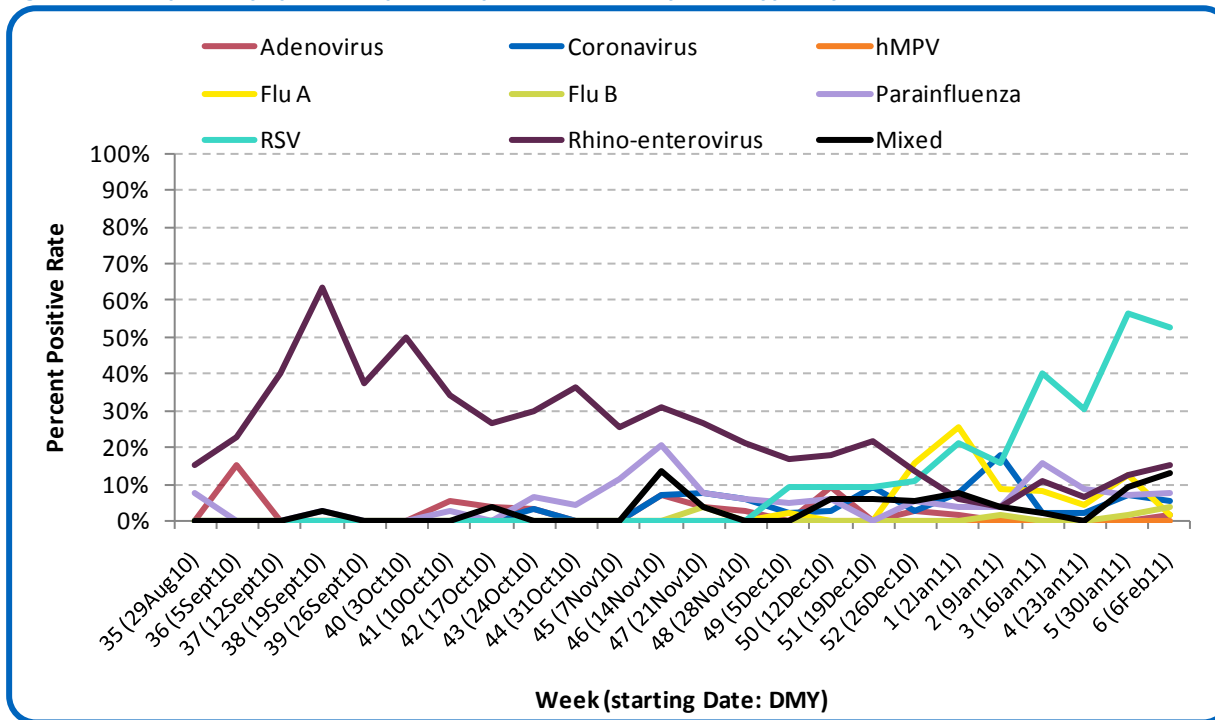
Public Health Surveillance

Report Date: February 15, 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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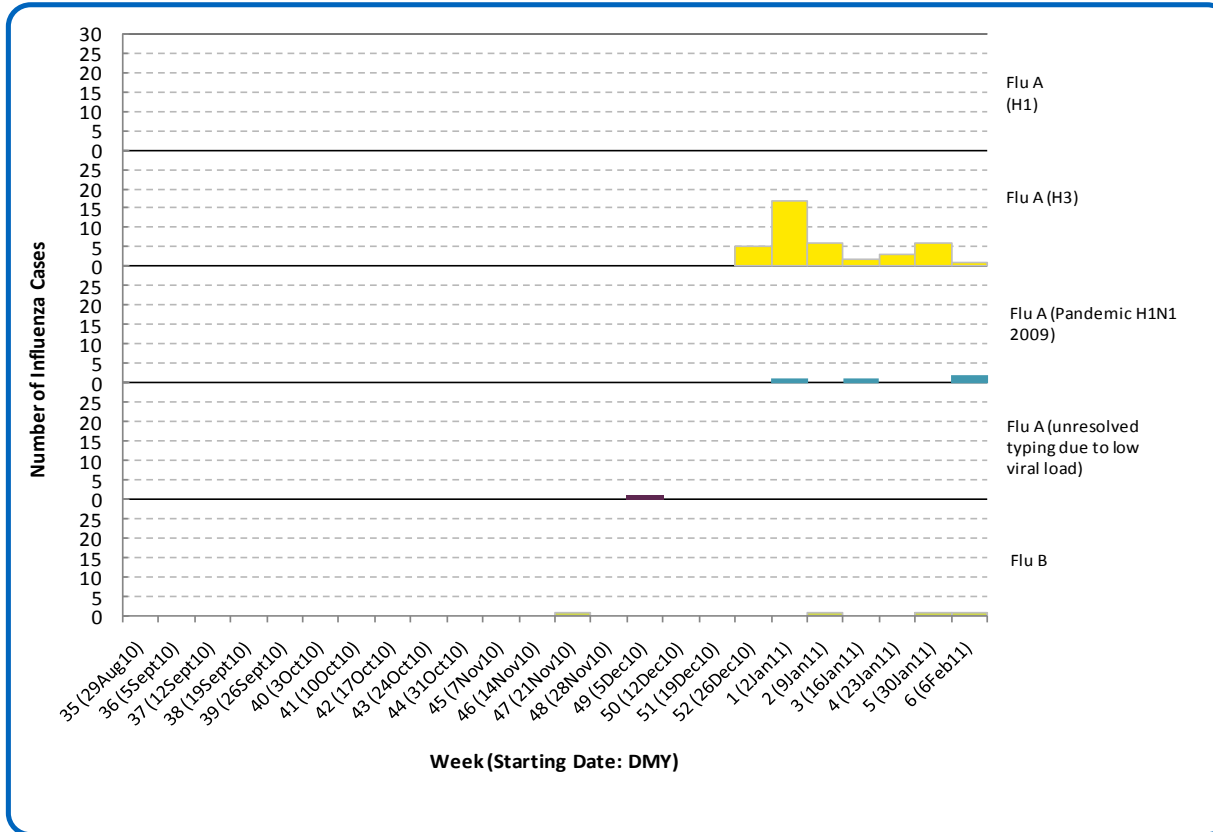
Figure 4B: Respiratory specimen percent positive rates, by virus type, by week, Central Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Feb 12, 2011)
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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



*Note: 3 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.

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Feb 12, 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 4A: New influenza cases (and age specific rates), by subtype, by age group, Central Zone (Week 6: Feb 6-12, 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	0	0.0	0	0.0
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	2	0.1	0	0.0	0	0.0	3	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	2	<0.1	0	0.0	1	0.0	4	0.1

Table 4B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Central Zone (Aug 29, 2010 – Feb 12, 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	5	4.1	0	0.0	0	0.0	1	0.8	6	4.9
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	1	0.5	0	0.0	0	0.0	0	0.0	1	0.5
9 to <18 years	0	0.0	2	0.4	0	0.0	0	0.0	0	0.0	2	0.4
18 to <65 years	0	0.0	12	0.4	4	0.1	1	<0.1	3	0.1	20	0.7
65 to <75 years	0	0.0	2	0.7	0	0.0	0	0.0	0	0.0	2	0.7
75+ years	0	0.0	18	6.6	0	0.0	0	0.0	0	0.0	18	6.6
Total	0	0.0	40	0.9	4	0.1	1	<0.1	4	0.1	49	1.1

Source for Tables 4A & 4B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Feb 12, 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

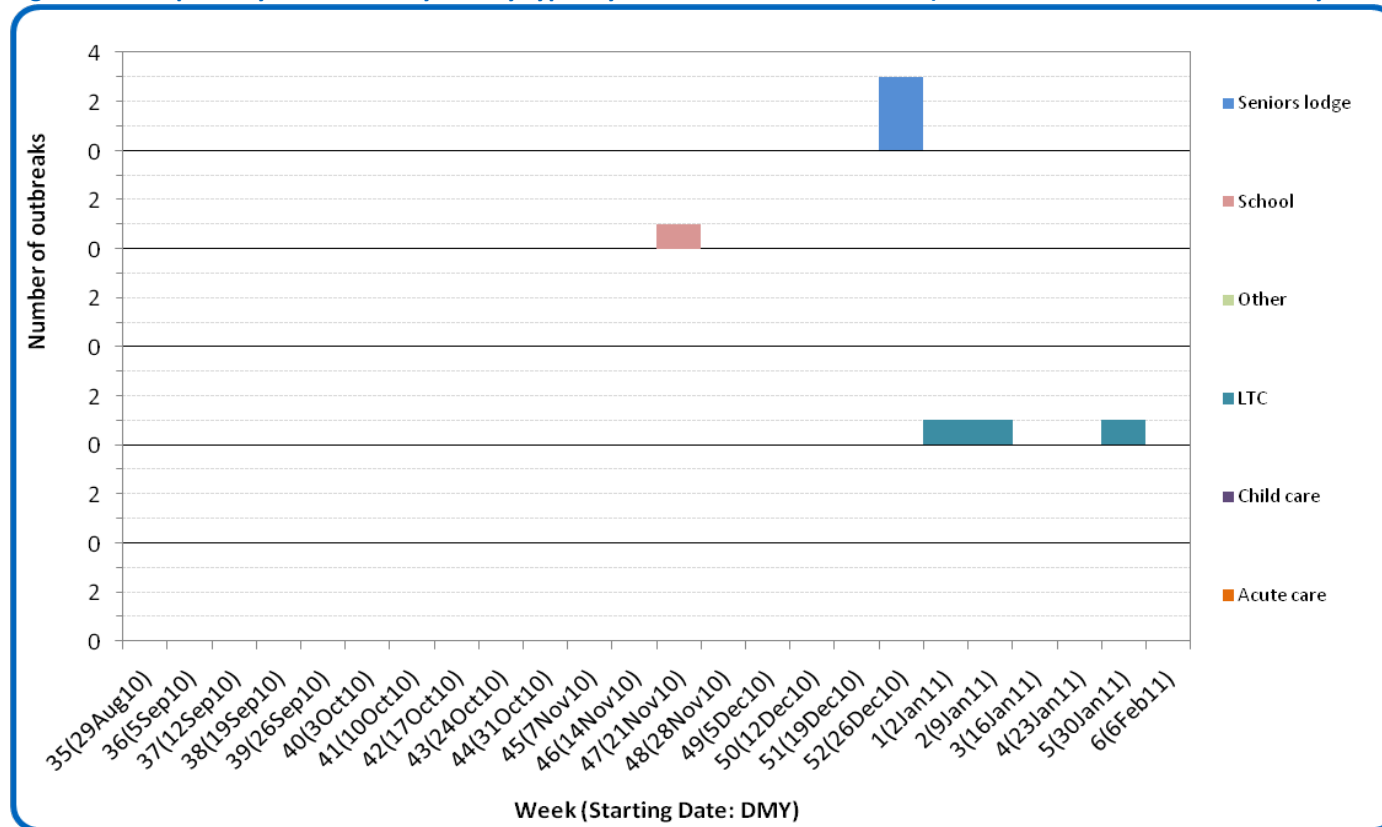
Public Health Surveillance

Report Date: February 15, 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 Feb 12, 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

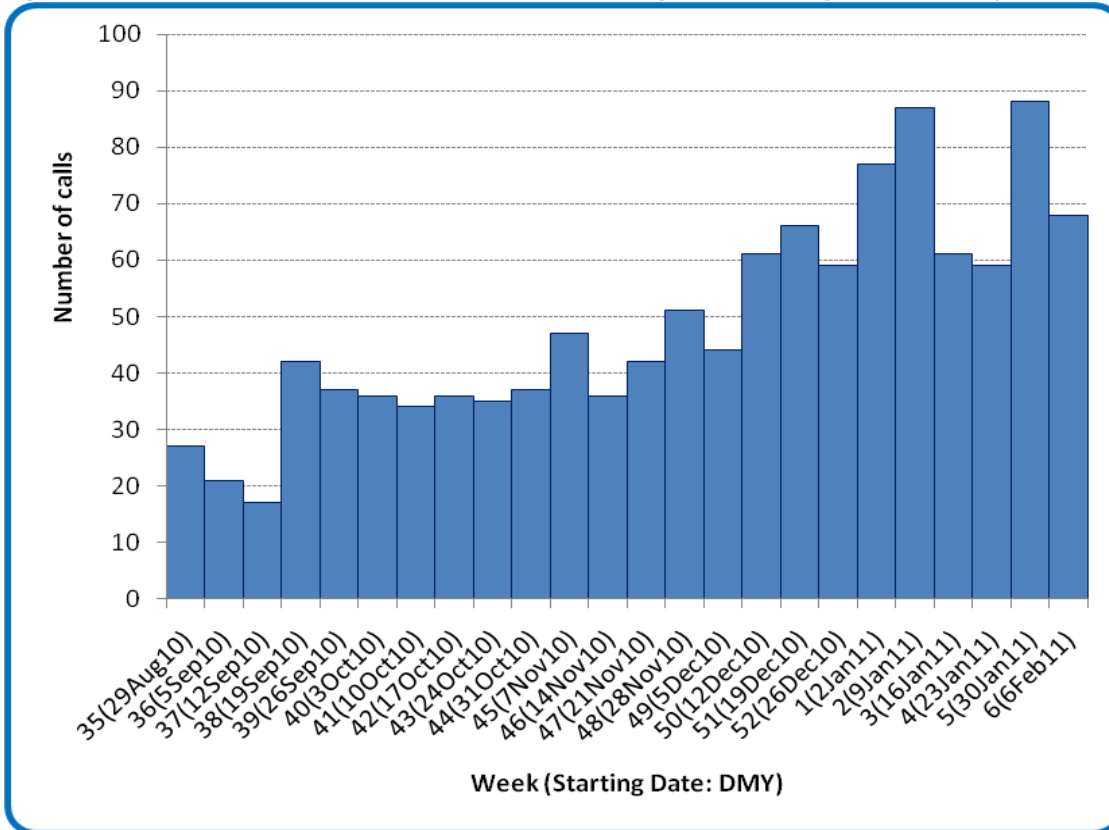
Public Health Surveillance

Report Date: February 15, 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 Feb 12, 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

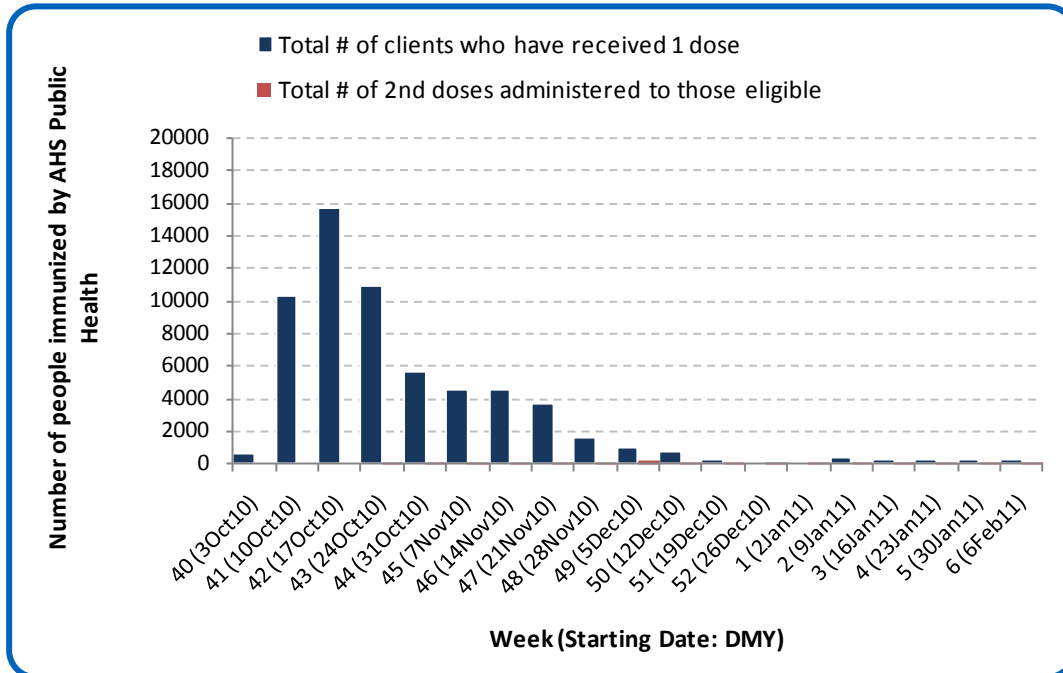
Public Health Surveillance

Report Date: February 15, 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](#)

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

Priority Group	Number Immunized (Week 6 – Feb 6-12, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff	8	411
Health care workers	15	2,585
Pregnant women	1	426
Residents of long term care	0	1,104
65 years of age and over	29	22,142
All children 6 months up to and including 23 months*	Dose #1	2,197
	Dose #2	825
All children 24 months up to and including 59 months*	Dose #1	2,259
	Dose #2	173
High risk: 5 years up to and including 8 years*	Dose #1	641
	Dose #2	23
High risk: 9 years up to and including 64 years	14	6,845
Healthy: 5 years up to and including 8 years*	Dose #1	1,944
	Dose #2	72
Healthy: 9 years up to and including 64 years	58	20,665
Total number of clients who have received 1 dose	224	61,219
Total number of 2nd doses administered to those eligible*	79	1,093

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: February 15, 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: February 15, 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

Respiratory virus activity appears to be steady in Edmonton Zone, although laboratory confirmed cases of influenza B have increased recently. RSV activity remains high.

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

RSV continues to be the predominant virus being confirmed in Edmonton Zone. This season, there have been a total of 175 influenza cases confirmed in this part of the province. The proportion of influenza type B cases among all confirmed cases last week was 38.7%, much higher than any week prior to that. Almost half (5 out of 12) of the influenza B cases confirmed last week were children under the age of 9 years. At this point in the season, the age-specific rates for infants 0 to less than 2 years of age and for adults aged 75 years and over are higher compared to other age groups, at 9.6 per 10,000 and 5.8 per 10,000, respectively.

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

Since last weeks' update, one previously reported respiratory outbreak has been confirmed and one new respiratory outbreak has been reported in Edmonton Zone. The previously reported outbreak occurred in a seniors' lodge and was attributed to parainfluenza (7% attack rate). The new outbreak occurred in a school in early February and was attributed to influenza type B (28% attack rate).

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

The trend for the number of calls to Health Link Alberta by residents of Edmonton Zone for cough or breathing difficulties has remained fairly steady in recent weeks.

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

The number of visits and hospital admissions of patients with ILI symptoms at the nine emergency departments/urgent care centers in Edmonton Zone increased slightly in Week 6 (Feb 6-12, 2011) compared to Week 5. The percentage of ILI-related visits was just over 6% of all visits screened for ILI symptoms.

The number of visits to emergency departments/urgent care centers for cough/congestion in Week 6 (Feb 6-12, 2011) increased by 4% compared to the previous week. The percentage of visits with cough/congestion symptoms remained at just above 4%. Hospital admissions for the same symptoms declined by 25% in Week 6 compared to the previous week.

Sentinel Physician Office Visits

The combined percentage of ILI- and LRTI-related visits to sentinel physician offices by residents of Edmonton Zone was 23% higher in Week 5 (Jan 30-Feb 5, 2011) compared to the previous week.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

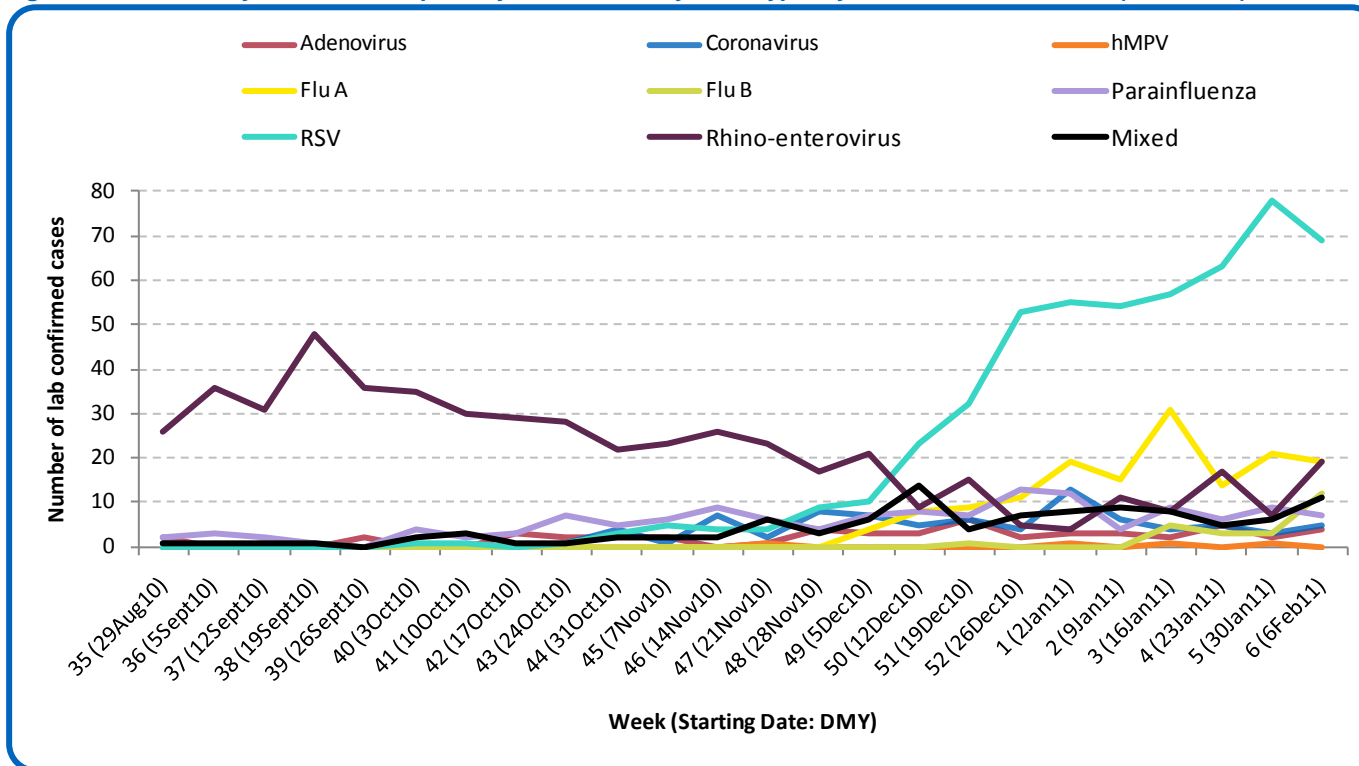
Public Health Surveillance

Report Date: February 15, 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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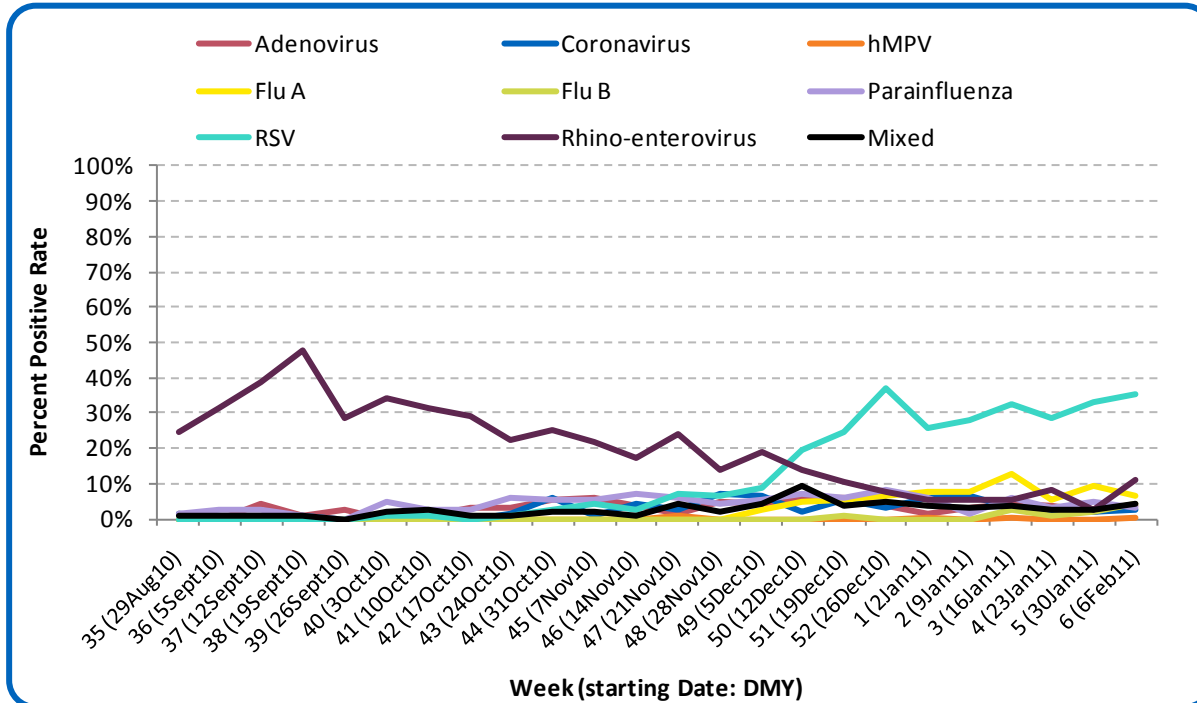
Figure 5A: Laboratory confirmed respiratory virus cases, by virus type, by week, Edmonton Zone (2010-2011)



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Feb 12, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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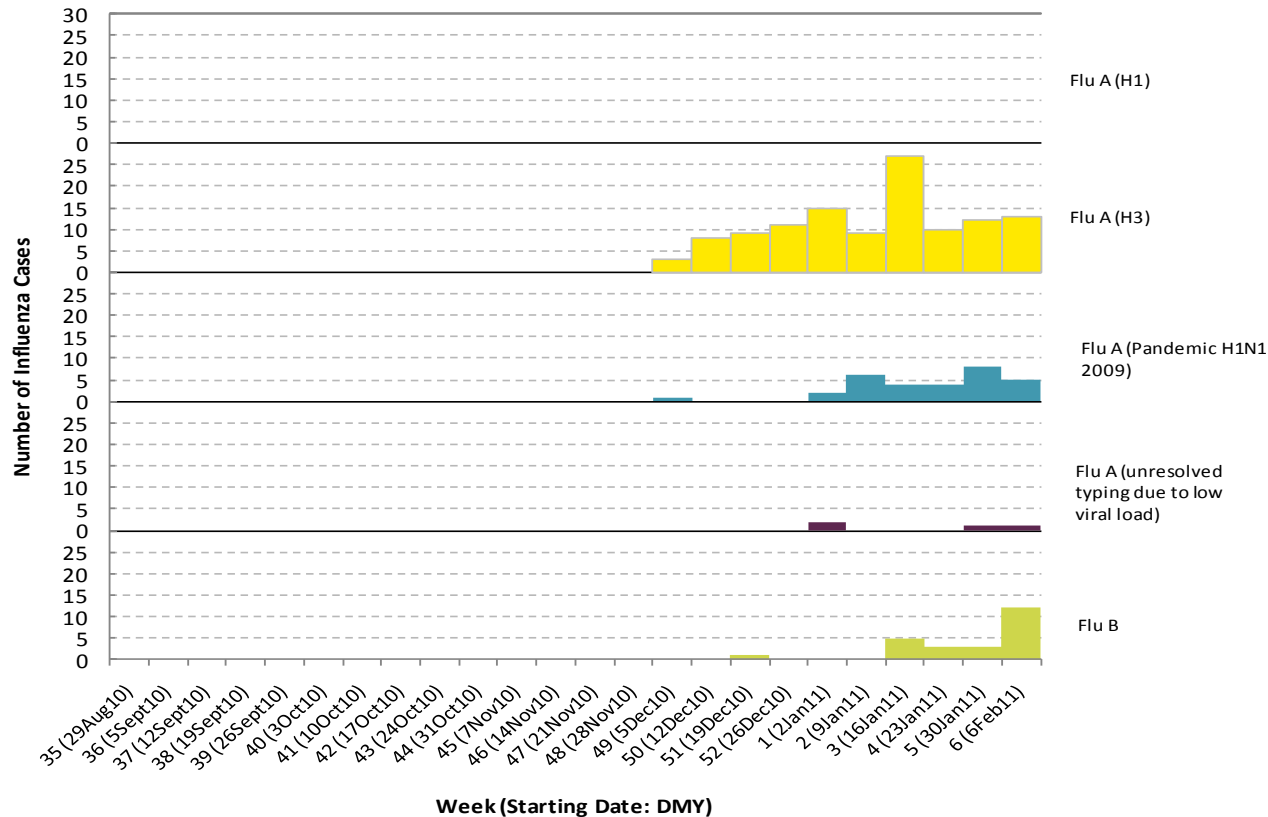
Figure 5B: Respiratory specimen percent positive rates, by virus type, by week, Edmonton Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Feb 12, 2011)
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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



*Note: 3 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.

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Feb 12, 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

Report Date: February 15, 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 6: Feb 6-12, 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	0.7	2	0.7	0	0.0	1	0.3	5	1.7
2 to <5 years	0	0.0	2	0.5	0	0.0	0	0.0	1	0.2	3	0.7
5 to <9 years	0	0.0	1	0.2	0	0.0	0	0.0	3	0.6	4	0.8
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	3	0.2	3	0.2
18 to <65 years	0	0.0	6	0.1	3	<0.1	1	<0.1	2	<0.1	12	0.2
65 to <75 years	0	0.0	1	0.1	0	0.0	0	0.0	1	0.1	2	0.3
75+ years	0	0.0	1	0.2	0	0.0	0	0.0	1	0.2	2	0.3
Total	0	0.0	13	0.1	5	<0.1	1	<0.1	12	0.1	31	0.3

Table 5B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Edmonton Zone (Aug 29, 2010 – Feb 12, 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	19	6.3	5	1.7	1	0.3	4	1.3	29	9.6
2 to <5 years	0	0.0	10	2.4	1	0.2	1	0.2	2	0.5	14	3.4
5 to <9 years	0	0.0	3	0.6	3	0.6	0	0.0	4	0.8	10	1.9
9 to <18 years	0	0.0	3	0.2	1	0.1	0	0.0	9	0.7	13	1.0
18 to <65 years	0	0.0	44	0.6	20	0.3	1	<0.1	2	<0.1	67	0.9
65 to <75 years	0	0.0	7	1.0	0	0.0	0	0.0	1	0.1	8	1.2
75+ years	0	0.0	31	5.2	0	0.0	1	0.2	2	0.3	34	5.8
Total	0	0.0	117	1.0	30	0.3	4	<0.1	24	0.2	175	1.5

Source for tables 5A & 5B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Feb 12, 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

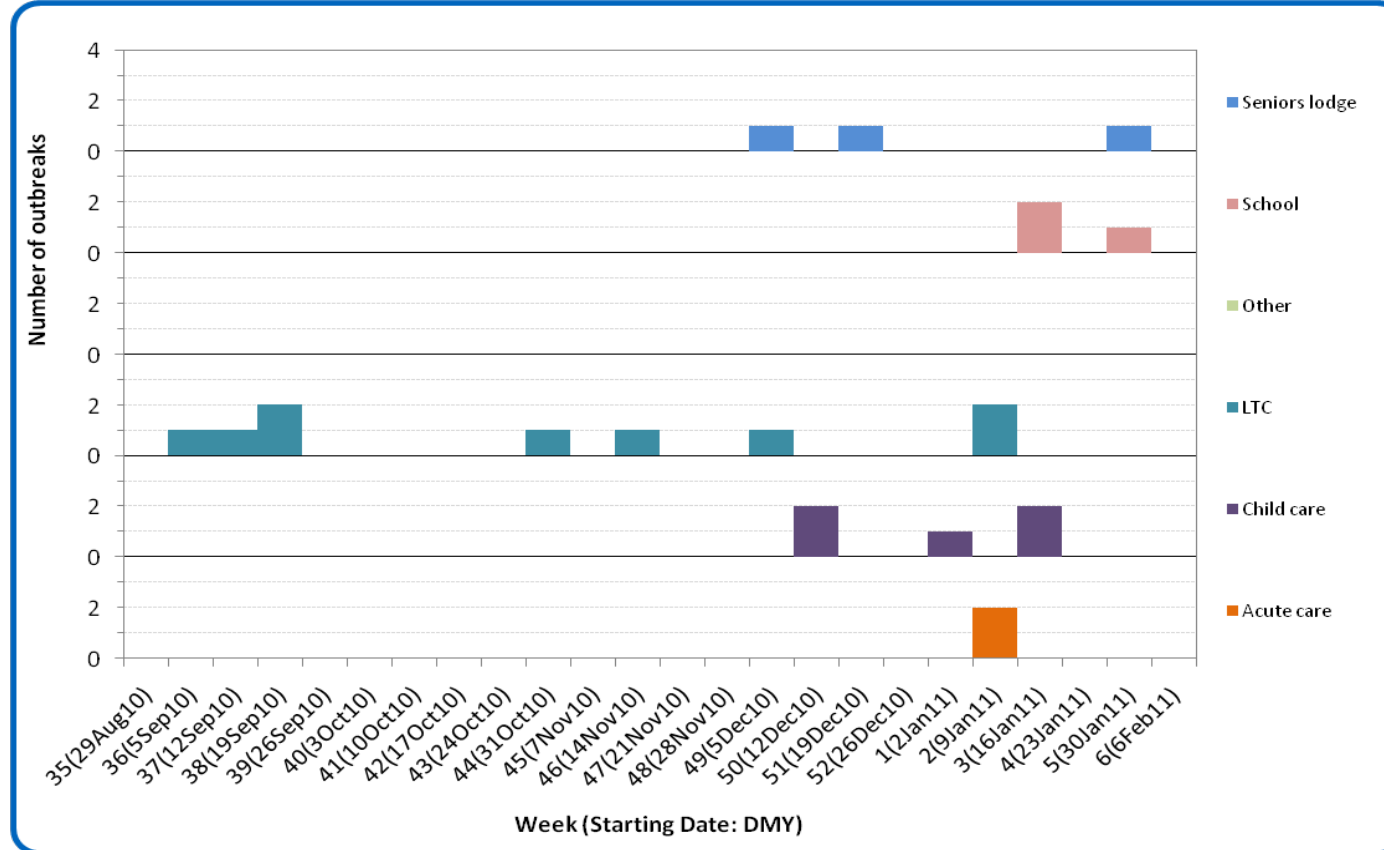
Public Health Surveillance

Report Date: February 15, 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 Feb 12, 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

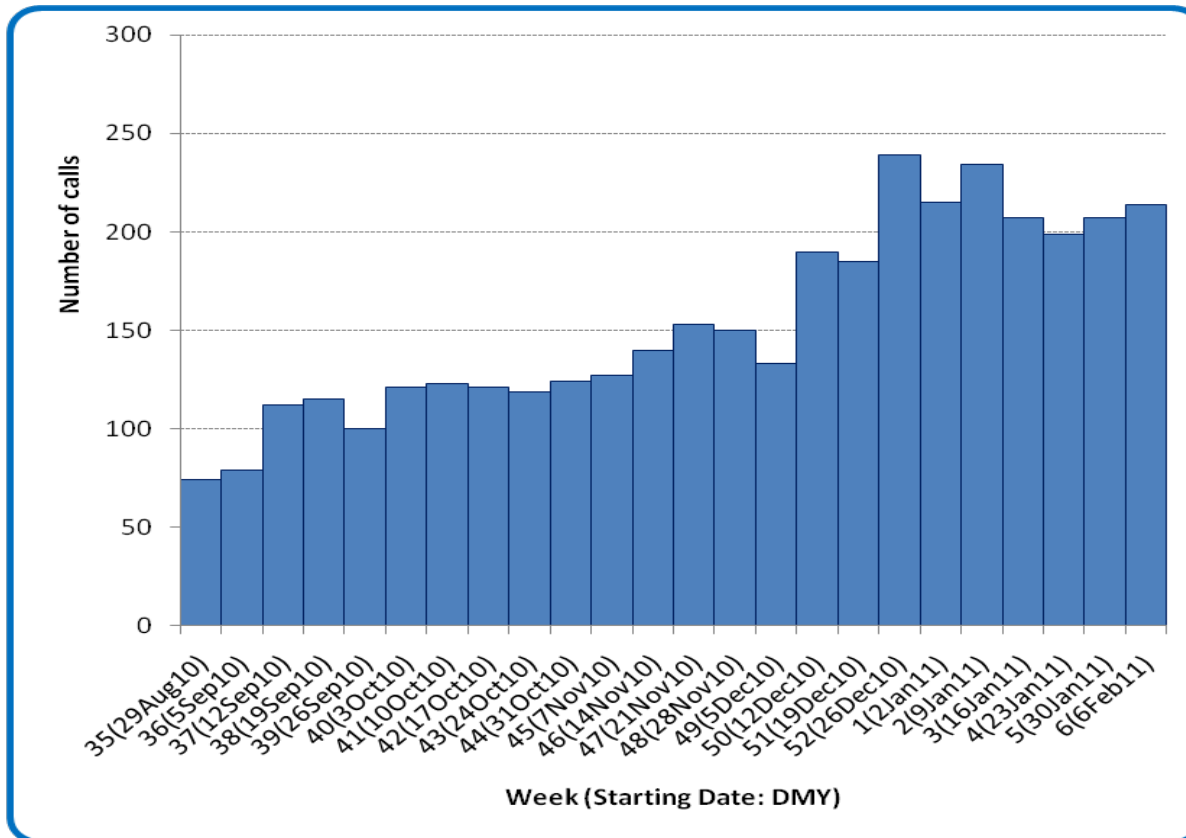
Public Health Surveillance

Report Date: February 15, 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 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 Feb 12, 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

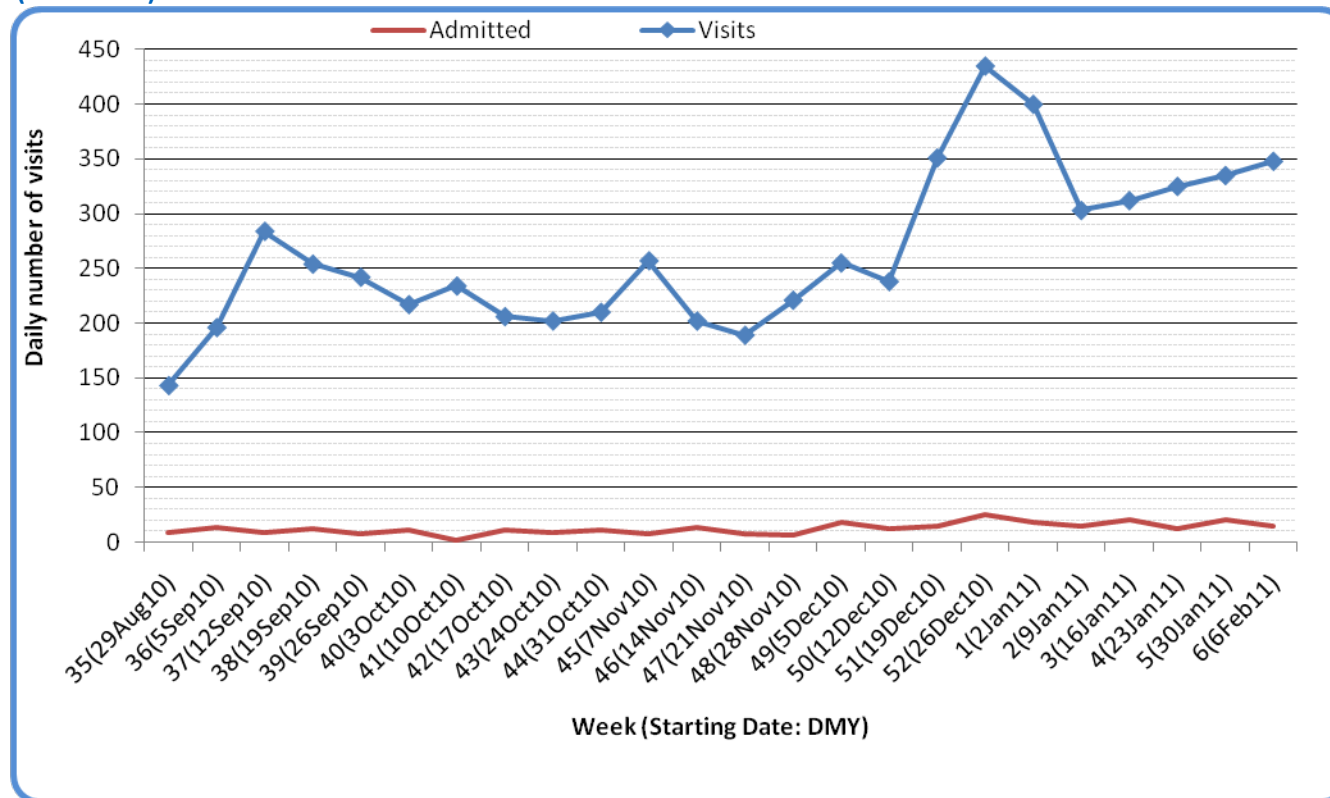
Public Health Surveillance

Report Date: February 15, 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 Feb 12, 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

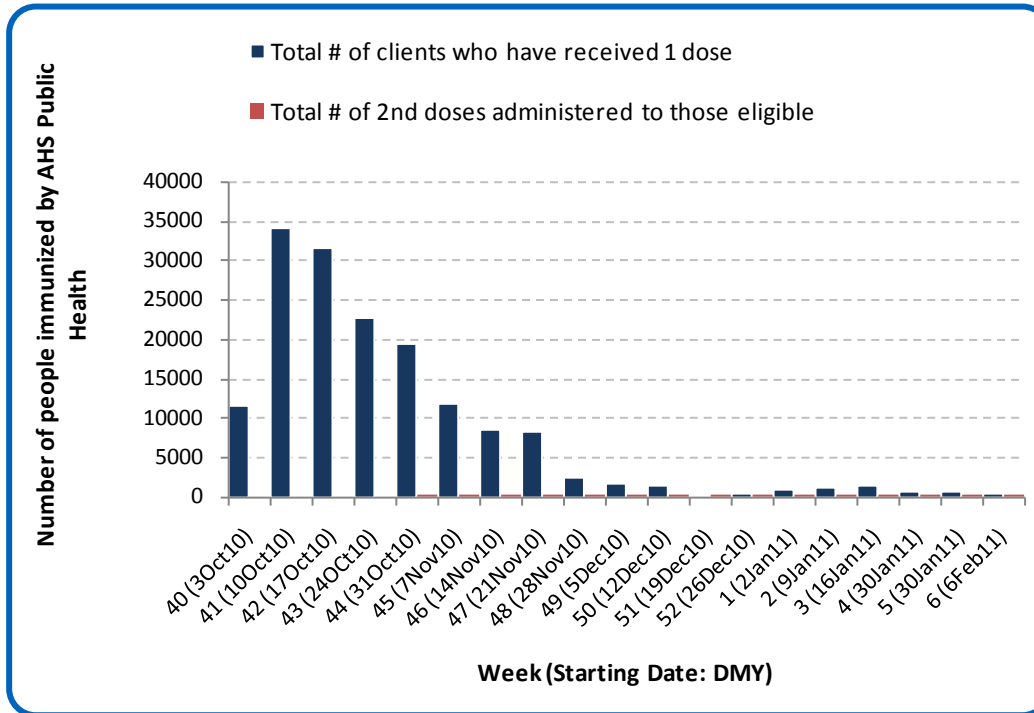
Public Health Surveillance

Report Date: February 15, 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](#)

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

Priority Group	Number Immunized (Week 6 – Feb 6-12, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff	0	321
Health care workers	8	4,783
Pregnant women	10	1,417
Residents of long term care	0	1,047
65 years of age and over	25	48,439
All children 6 months up to and including 23 months*	Dose #1	112
	Dose #2	46
All children 24 months up to and including 59 months*	Dose #1	23
	Dose #2	12
High risk: 5 years up to and including 8 years*	Dose #1	2
	Dose #2	3
High risk: 9 years up to and including 64 years	22	17,067
Healthy: 5 years up to and including 8 years*	Dose #1	16
	Dose #2	4
Healthy: 9 years up to and including 64 years	165	67,316
Total number of clients who have received 1 dose	383	160,549
Total number of 2nd doses administered to those eligible*	65	2,472

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: February 15, 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: February 15, 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

Laboratory data in North Zone show that the number of RSV and influenza [particularly influenza A (H3) and influenza A (H1N1) 2009] cases confirmed continue to increase. North Zone calls to Health Link Alberta for cough or breathing difficulties, however, decreased last week. This may indicate the beginning of a downward trend in respiratory virus activity.

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

The number of laboratory confirmed RSV cases continues to increase in North Zone. As well, the number of influenza cases confirmed last week more than tripled from the number confirmed the previous week. Unlike other areas of the province, the proportion of influenza type B among all cases confirmed has not increased. The total number of confirmed influenza cases in North Zone this season is 65. At this point in the season, the age specific rate for confirmed influenza among infants under the age of 2 years is much higher than the rate for any other age group (13.0 per 10,000 compared to 3.8 or less per 10,000). Unlike other areas of the province where most of the cases in this age group have been caused by influenza A (H3), half of the cases in this age group in the North Zone have been caused by influenza A (H1N1) 2009.

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

One new respiratory outbreak has been reported in a North Zone school. The onset of symptoms occurred in Week 5 (Jan 30–Feb 5, 2011) and the preliminary attack rate is 18%. The agent responsible for this outbreak has not been confirmed yet.

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 was 23% lower in Week 6 (Feb 6-12, 2011) compared to the previous week.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

There are no data available for the North Zone.

Sentinel Physician Office Visits

The combined percentage of ILI- and LRTI-related visits to sentinel physician offices by residents of North Zone was 49% lower in Week 5 (Jan 30-Feb 5, 2011) compared to Week 4.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

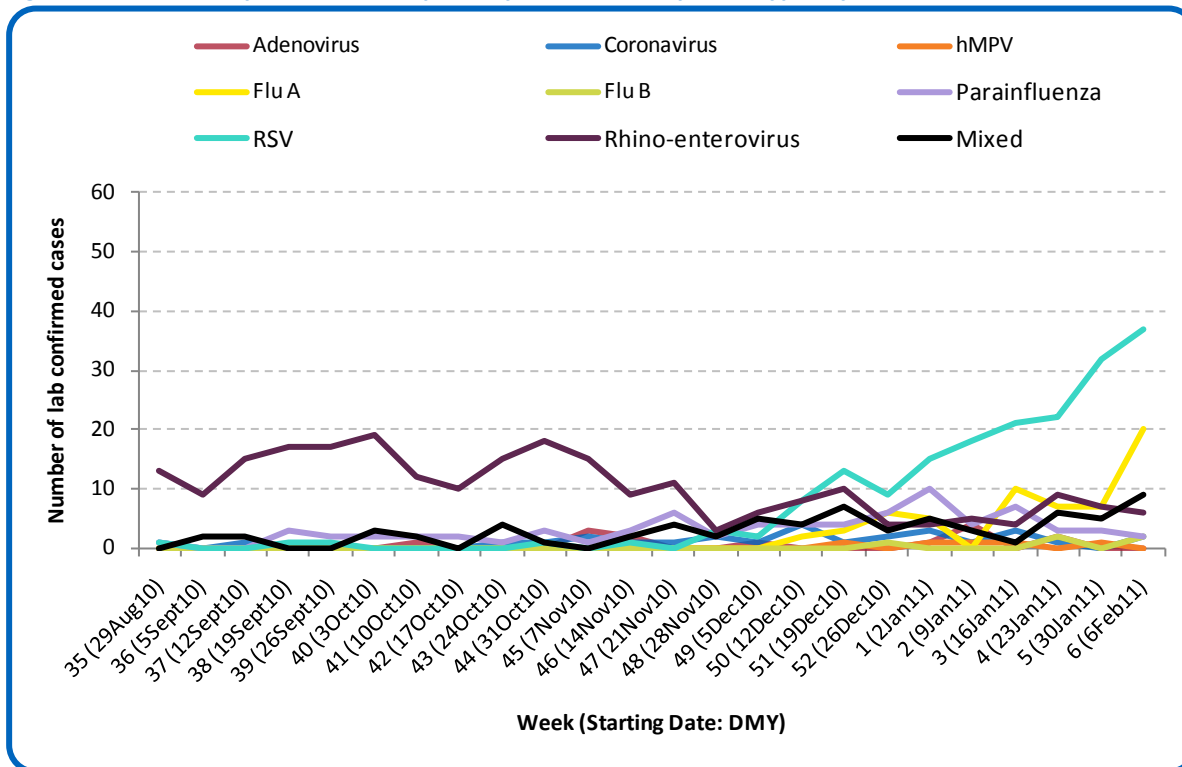
Public Health Surveillance

Report Date: February 15, 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 Feb 12, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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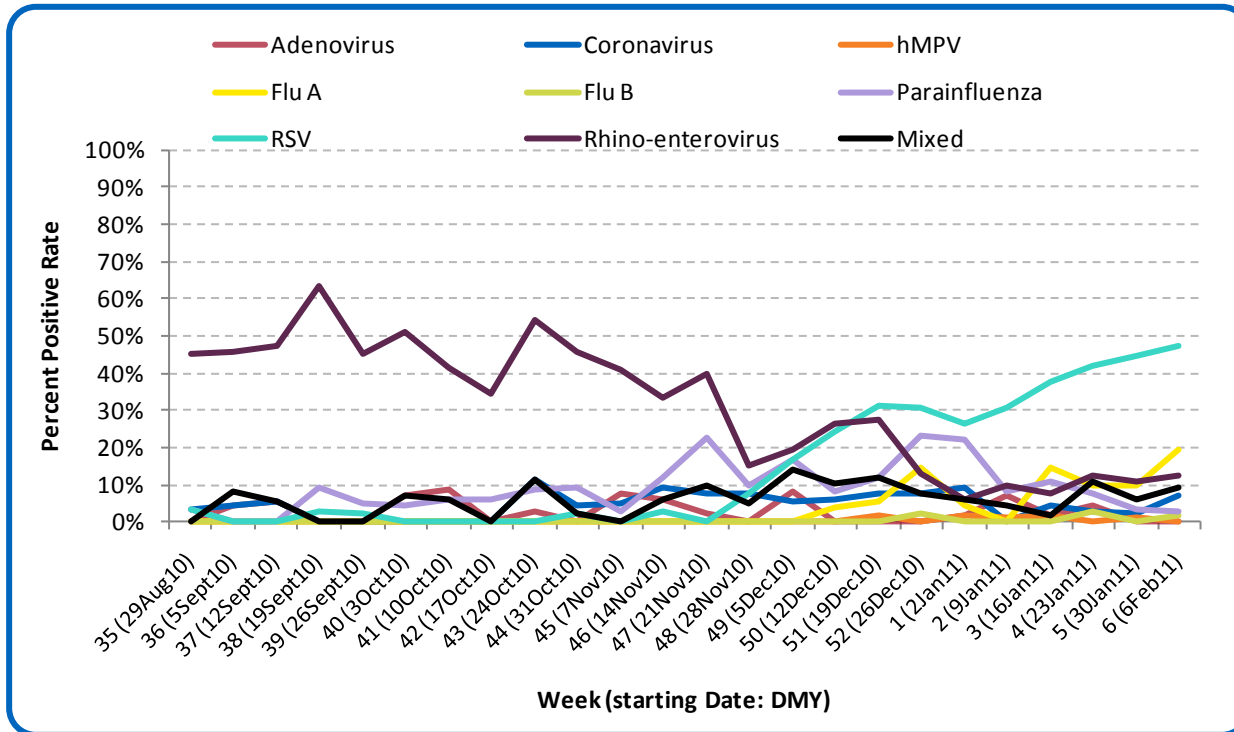
Public Health Surveillance

Report Date: February 15, 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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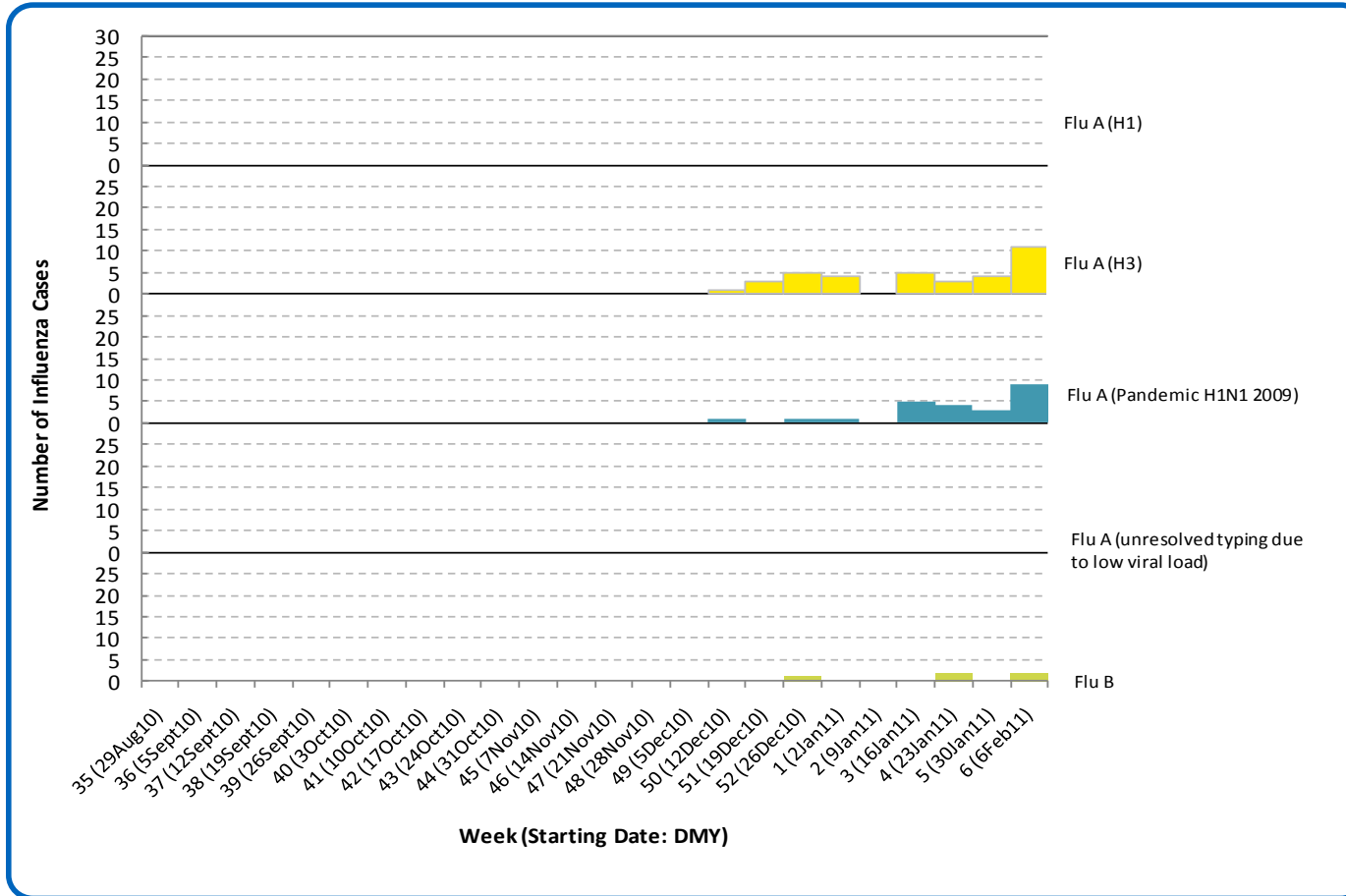
Figure 6B: Respiratory specimen percent positive rates, by virus type, by week, North Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Feb 12, 2011)
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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



*Note: 4 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.

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Feb 12, 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 (Week 6: Feb 6-12, 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	3	2.2	0	0.0	0	0.0	3	2.2
2 to <5 years	0	0.0	2	1.0	1	0.5	0	0.0	0	0.0	3	1.6
5 to <9 years	0	0.0	3	1.3	1	0.4	0	0.0	1	0.4	5	2.1
9 to <18 years	0	0.0	4	0.7	2	0.4	0	0.0	0	0.0	6	1.1
18 to <65 years	0	0.0	1	<0.1	2	0.1	0	0.0	1	<0.1	4	0.1
65 to <75 years	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	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	11	0.3	9	0.2	0	0.0	2	<0.1	22	0.5

Table 6B: Cumulative influenza cases (and age specific rates), by subtype, by age group, North Zone (Aug 29, 2010-Feb 12, 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	8	5.8	9	6.5	0	0.0	1	0.7	18	13.0
2 to <5 years	0	0.0	4	2.1	1	0.5	0	0.0	1	0.5	6	3.1
5 to <9 years	0	0.0	5	2.1	3	1.3	0	0.0	1	0.4	9	3.8
9 to <18 years	0	0.0	7	1.2	5	0.9	0	0.0	0	0.0	12	2.1
18 to <65 years	0	0.0	10	0.4	6	0.2	0	0.0	2	0.1	18	0.7
65 to <75 years	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	1	0.5
75+ years	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0	1	0.6
Total	0	0.0	36	0.8	24	0.6	0	0.0	5	0.1	65	1.5

Source for Tables 6A & 6B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Feb 12, 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

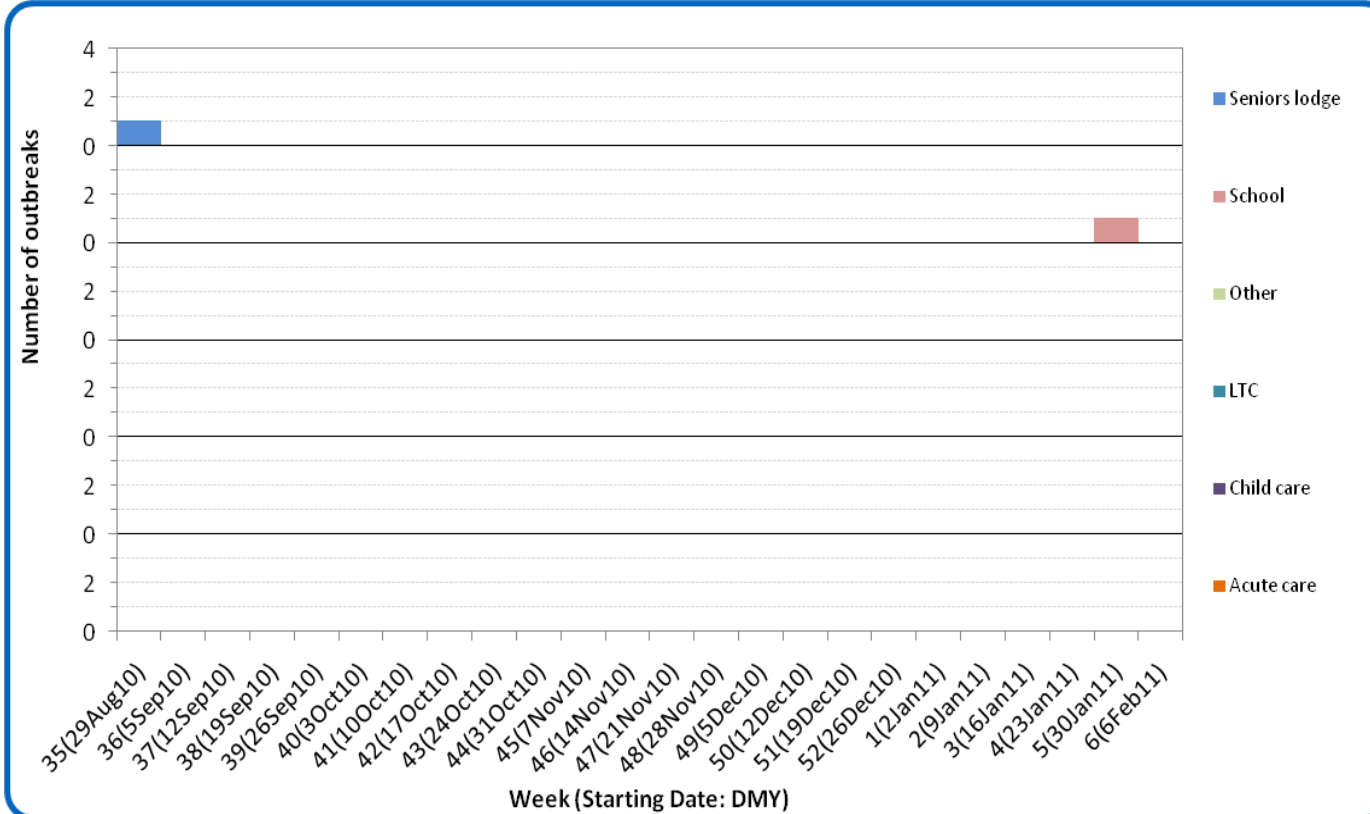
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Figure 6D: Respiratory outbreaks, by facility type, by onset week, North Zone (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Feb 12, 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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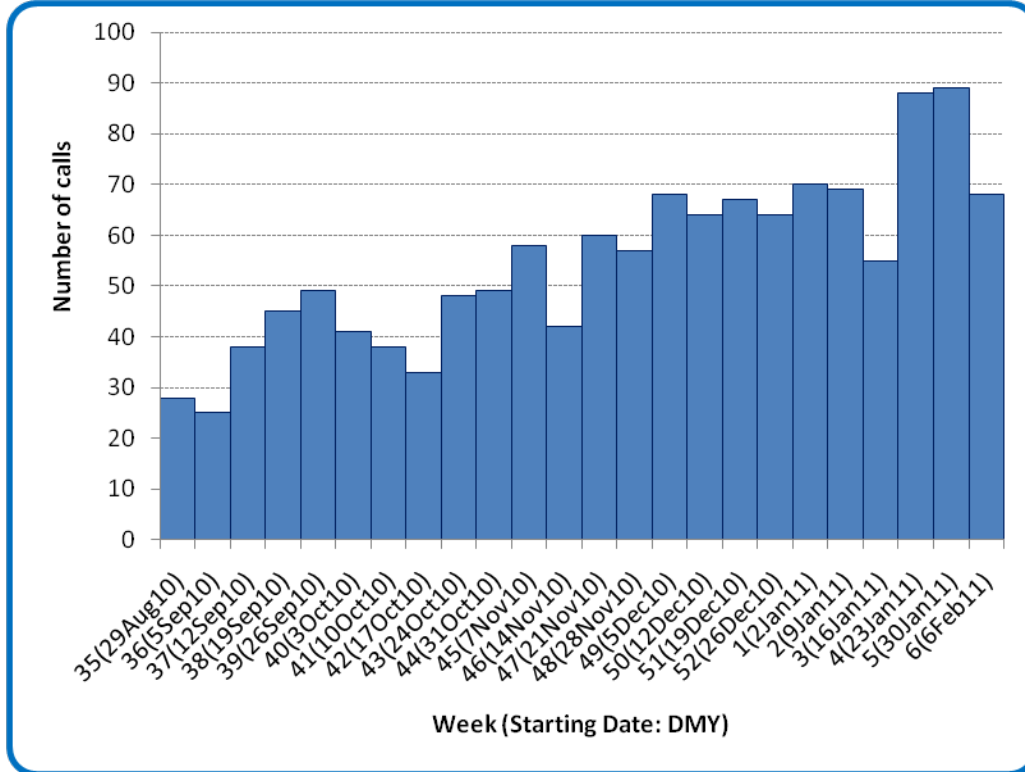
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Figure 6E: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, North Zone (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Feb 12, 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

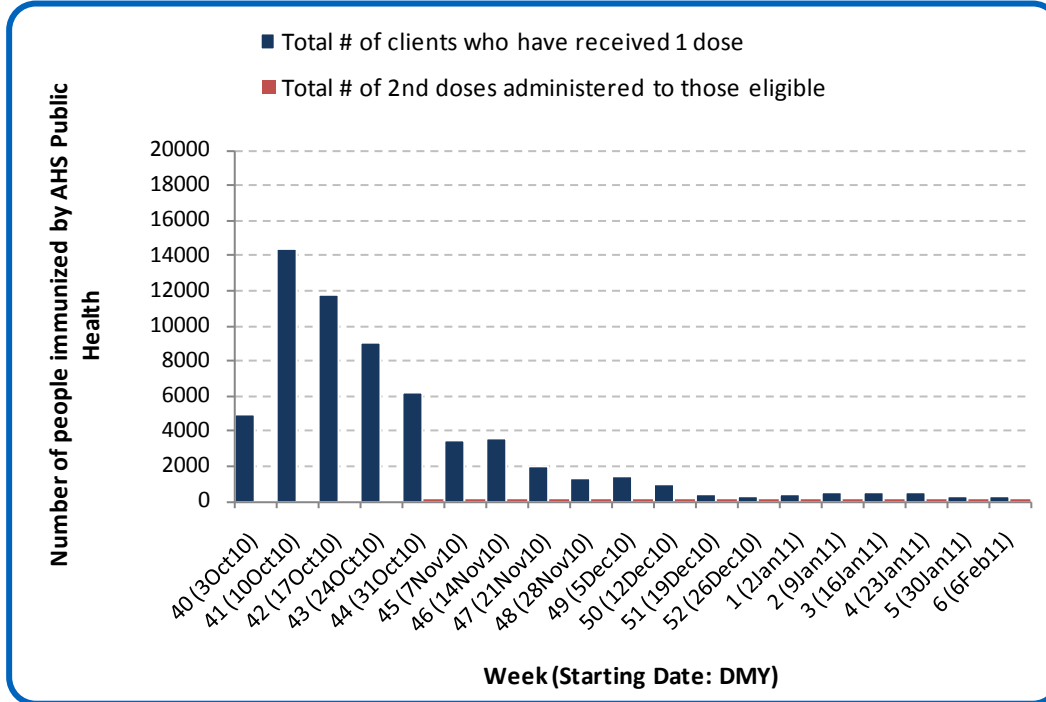
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Figure 6F: Number immunized by AHS (Public Health), by week, North Zone (2010-2011)



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 6 – Feb 6-12, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff	1	812
Health care workers	5	4,673
Pregnant women	4	560
Residents of long term care	0	1,248
65 years of age and over	17	15,764
All children 6 months up to and including 23 months*	Dose #1	2,281
	Dose #2	739
All children 24 months up to and including 59 months*	Dose #1	2,502
	Dose #2	122
High risk: 5 years up to and including 8 years*	Dose #1	937
	Dose #2	10
High risk: 9 years up to and including 64 years	35	7,753
Healthy: 5 years up to and including 8 years*	Dose #1	2,436
	Dose #2	55
Healthy: 9 years up to and including 64 years	115	23,211
Total number of clients who have received 1 dose	262	62,177
Total number of 2nd doses administered to those eligible*	43	926

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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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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