

Weekly Report

April 19th, 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.

To navigate to certain sections of the report or to visit other relevant websites, use the Quick Links below

[Alberta Snapshot](#)

[Section 1: Alberta](#)

[Section 2: Zone 1 - South](#)

[Section 3: Zone 2 - Calgary](#)

[Section 4: Zone 3 - Central](#)

[Section 5: Zone 4 - Edmonton](#)

[Section 6: Zone 5 - North](#)

[Annex: Data Notes](#)

[Current Global Information](#)

[FluWatch \(PHAC\)](#)

[FluView \(US CDC\)](#)

[HPA \(UK\)](#)

[WHO](#)

[Travel Advisories](#)

What's New?

- Worldwide influenza activity is generally low. In Europe, the majority of countries are reporting low and continuously declining activity. In week 14 (Apr 3-9, 2011), influenza B viruses were more frequently detected than influenza A viruses for the fourth consecutive week. A detailed influenza virus characterization report published recently by the European Centre for Disease Prevention and Control (ECDC) and the Community Network of Reference Laboratories (CNRL) for Human Influenza in Europe shows genetically distinct virus groups emerging in subtypes A (H1N1) 2009 and A (H3N2), however the viruses circulating still show antigenic similarity to the 2010-11 influenza vaccine strains. RSV activity also continues to decline in Europe.
- Since the last update from the World Health Organization (WHO), areas of North Africa, the Middle East, Asia, the Caribbean and Central America are reporting low and decreasing influenza activity.
- Influenza activity continues to decrease in the United States as well, however the proportion of deaths attributed to pneumonia and influenza have been at or above the epidemic threshold for at least 11 consecutive weeks.
- In Canada, all indicators of influenza activity have decreased, including the influenza-like-illness (ILI) consultation rate, the number of influenza/ILI outbreaks reported and the number of adult and pediatric hospitalizations. Influenza B is still accounting for a greater proportion of positive influenza tests compared to influenza A.
- In Alberta, trends in laboratory data, calls to Health Link Alberta, visits to emergency departments and hospital admissions are indicating decreasing respiratory virus activity however respiratory outbreaks continue to be reported, particularly in the central and northern parts of the province. Laboratory data shows influenza activity is declining. As of the end of last week (Apr 16, 2011), the total number of influenza cases confirmed in the province this season is 1401, of which 36.6% have been identified as influenza A (H3), 17.0% as influenza A (H1N1) 2009, 44.5% as influenza type B, and 1.9% influenza A with unresolved sub-typing.
- Since the last update, seven respiratory outbreaks have been confirmed in Alberta. Four occurred in Central Zone and were mentioned in previous reports, including a rhino-enterovirus outbreak in a seniors' lodge, an influenza A (H3) outbreak in a long term care facility and two coronavirus outbreaks in a long term care facility and a seniors' lodge. The onset of symptoms for these outbreaks occurred at different time periods ranging from Week 11 (Mar 13-19, 2011) to Week 14 (Apr 3-9, 2011). The remaining three outbreaks recently confirmed occurred in Edmonton Zone, including one in a seniors' lodge attributed to RSV, one in a school attributed to influenza B and one in a long term care facility attributed to both coronavirus and parainfluenza. In addition, three new respiratory outbreaks were reported last week including one in a Central Zone long term care facility, one in a North Zone seniors' lodge and another in a North Zone school. The onset of symptoms for these outbreaks occurred in Week 14 (Apr 3-9, 2011), Week 15 (Apr 10-16, 2011), and Week 10 (Mar 6-12, 2011) respectively. Laboratory confirmations for the outbreaks in the Central Zone long term care facility and the North Zone seniors' lodge are currently pending.

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

Alberta Snapshot

[Back to first page](#)

Indicators			Cumulative Counts					Alberta
			Week 35 (starting Aug 29/10) to Week 15 (starting Apr 10/11)					
			South	Calgary	Central	Edmonton	North	
Laboratory Confirmed Cases	Number of cases with a positive respiratory specimen ¹	Adenovirus	7	43	11	81	17	159
		Coronavirus	12	71	42	117	43	285
		Human metapneumovirus (hMPV)	9	11	2	19	8	49
		Influenza A	46	203	113	262	154	778
		Influenza B	85	168	65	190	115	623
		Parainfluenza	34	111	59	216	106	526
		Respiratory syncytial virus (RSV)	121	471	209	771	316	1888
		Rhino enterovirus	110	485	194	678	340	1807
		Mixed	37	154	54	162	93	500
		Total	461	1717	749	2496	1192	6615
Outbreaks	# laboratory confirmed respiratory outbreaks ²		0	23	15	37	7	82
Influenza Immunizations	Total number of clients who have received 1 dose administered by AHS Public Health ³ (cumulative since Oct 3, 2010)		43,401	194,137	61,954	162,345	63,161	524,998
	The reported number of people who have received 1 dose administered by external providers (Oct 3-Dec 31, 2010) ⁴		17,639	120,408	17,789	62,481	5,075	223,392

-- Information not available

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

¹ Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 2011).

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

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

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 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

[Back to first page](#)

Summary

The trends in most respiratory virus activity indicators are declining, however respiratory outbreaks continue to be reported, particularly in the Central and Northern parts of the province.

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

Influenza activity continues to decline in Alberta. The number of confirmed cases of Influenza A (H3) and A (H1N1) 2009 have been declining for several weeks. The number of confirmed cases of influenza B has now declined for the third consecutive week. As of the end of last week (Apr 16, 2011), the total number of confirmed cases of influenza in the province this season is 1401 (36.6% influenza A (H3), 17.0% influenza A (H1N1) 2009, 44.5% influenza type B, and 1.9% 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 19.3 per 10,000 compared to 8.9 per 10,000 or lower for all other age groups.

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

Four outbreaks reported in previous updates have now been confirmed. These occurred in Central Zone, including a rhino-enterovirus outbreak in a seniors' lodge (19% attack rate), an influenza A (H3) outbreak in a long term care facility and two coronavirus outbreaks in a long term care facility (50% attack rate) and a seniors' lodge (29% attack rate). The onset of symptoms for these occurred at different time periods ranging from Week 11 (Mar 13-19, 2011) to Week 14 (Apr 3-9, 2011). Three additional outbreaks were also confirmed, all in Edmonton Zone including one in a seniors' lodge attributed to RSV (6% preliminary attack rate), one in a school attributed to influenza B (16% preliminary attack rate) and one in a long term care facility attributed to both coronavirus and parainfluenza (18% preliminary attack rate).

In addition, three new respiratory outbreaks were reported last week including one in a Central Zone long term care facility, one in a North Zone seniors' lodge and another in a North Zone school. The onset of symptoms for these outbreaks occurred in Week 14 (Apr 3-9, 2011), Week 15 (Apr 10-16, 2011), and Week 10 (Mar 6-12, 2011) respectively. Laboratory confirmations for the outbreaks in the Central Zone long term care facility and the North Zone seniors' lodge are currently pending.

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

The trend for the number of calls to Health Link Alberta for cough or breathing difficulties continues to decline.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

The combined number of visits and hospital admissions to emergency departments/urgent care centers (ED's) for influenza-like illness (ILI) in the City of Calgary and Edmonton Zone decreased by 28% and 7%, respectively in Week 15 (Apr 10-16, 2011) from the previous week. These indicators have been declining consistently for the past four weeks.

The number of emergency department visits for cough decreased by 27% in Week 15 (Apr 10-16, 2011) from the previous week. The number of hospital admissions for this reason decreased as well, by 45%. Generally, visits to ED's for cough have been decreasing over the last several weeks, while the hospital admissions have been fluctuating.

Sentinel Physician Office Visits

The combined percentage of ILI- and LRTI-related visits of all visits to sentinel physician offices in Alberta decreased by 30% in Week 14 (Apr 3-9, 2011) compared to the previous week. This indicator has been fluctuating in recent weeks.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

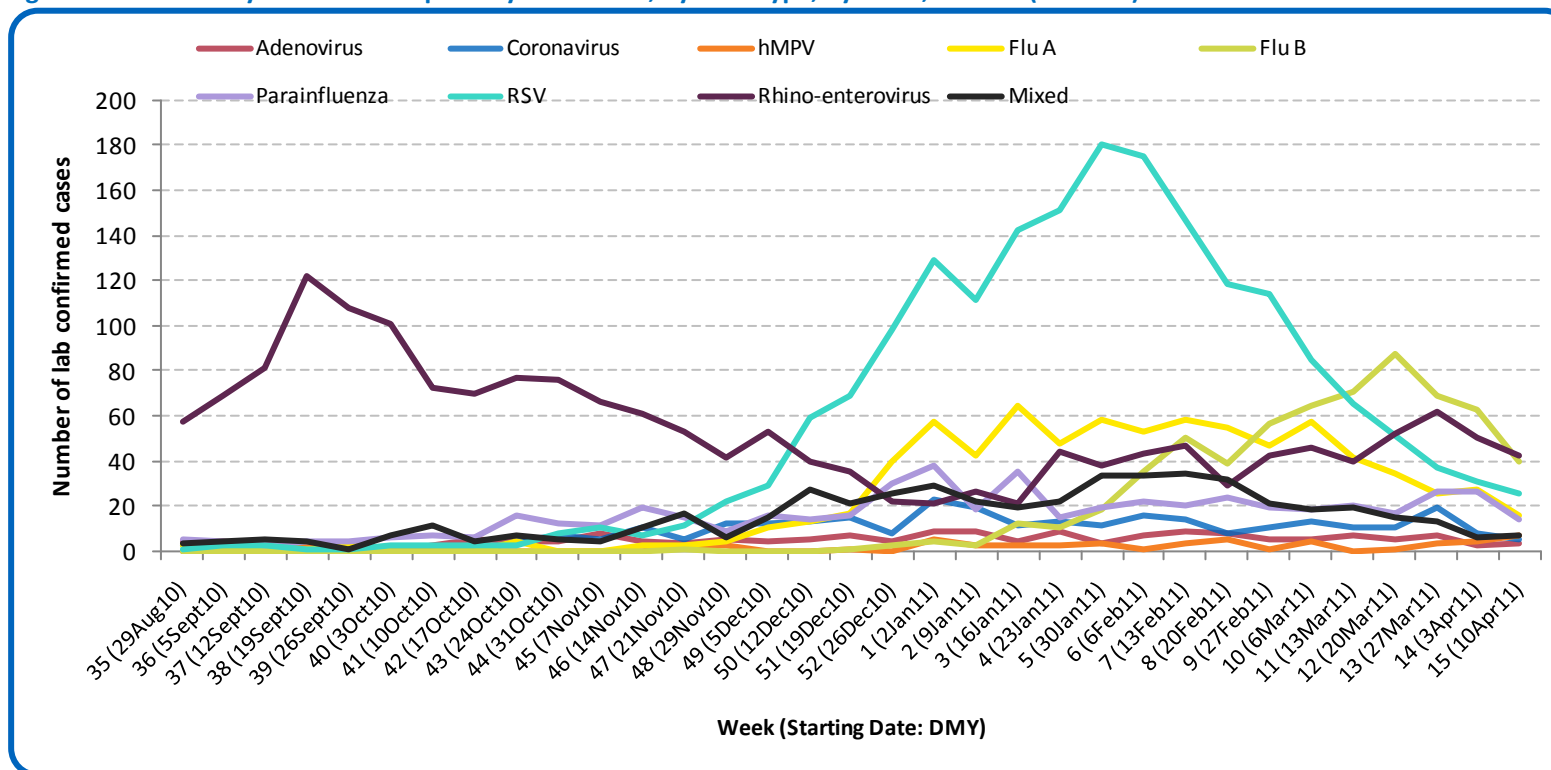
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 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

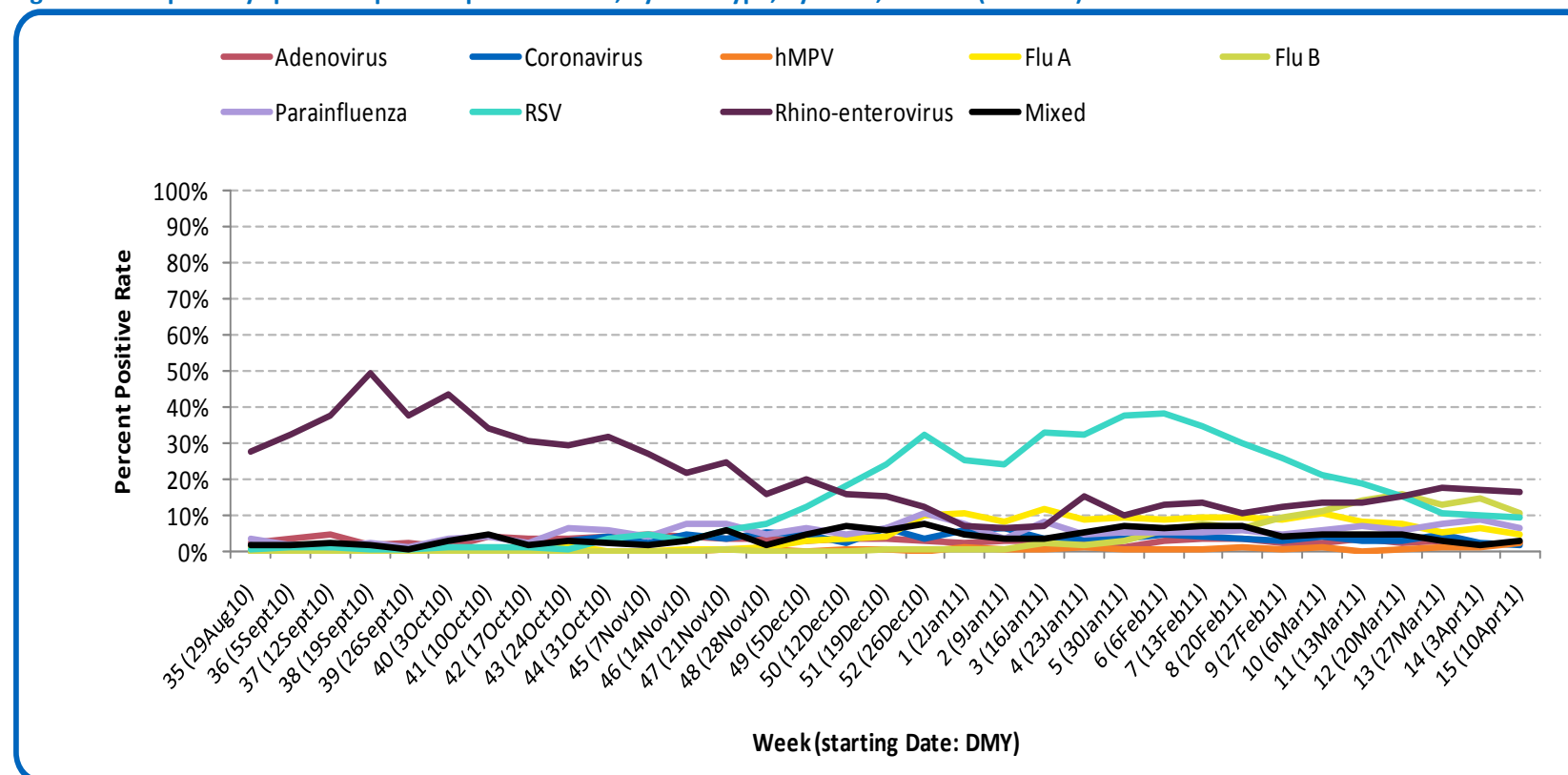
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[Back to start of section](#)

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



Sources: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 16, 2011).

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SURVEILLANCE AND HEALTH STATUS ASSESSMENT

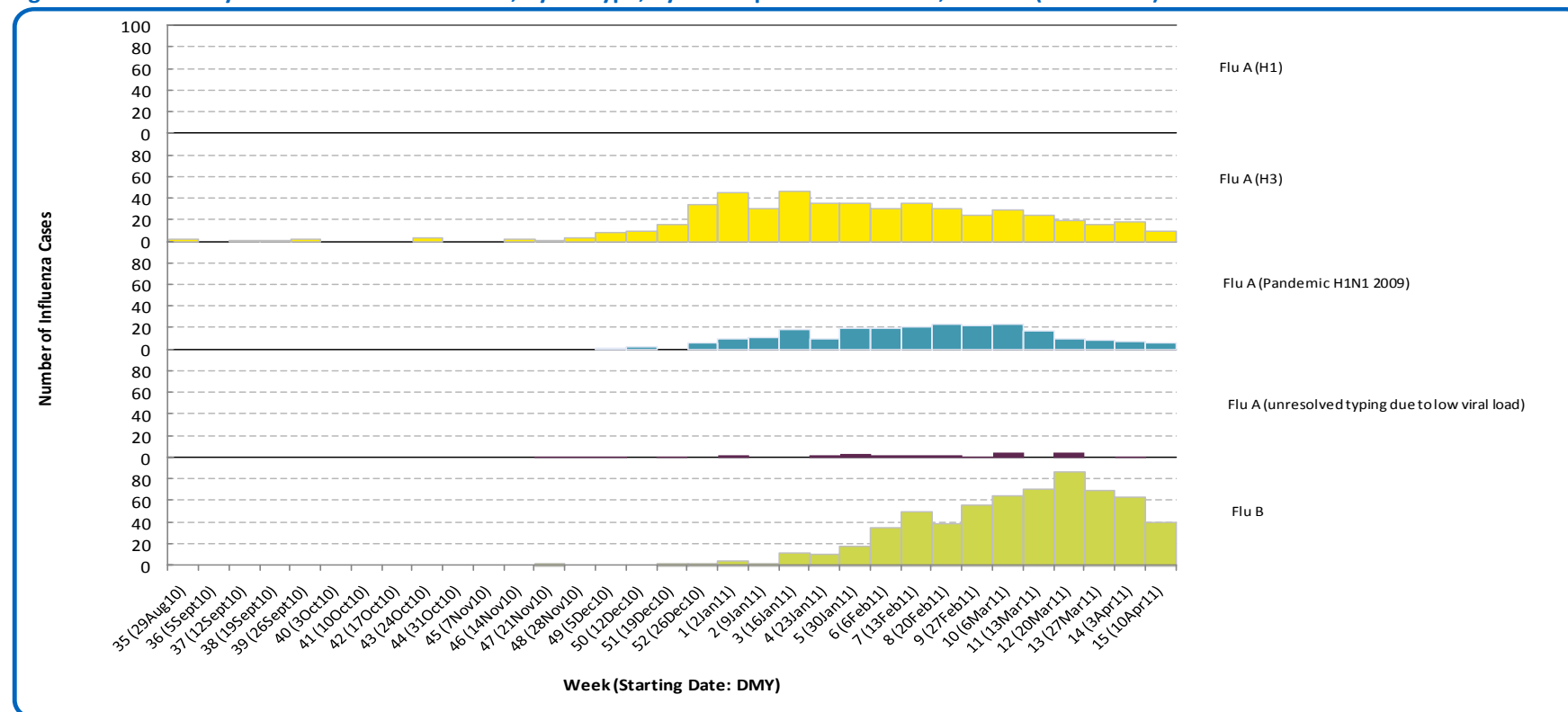
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[Back to start of section](#)

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



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

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 2011).

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SURVEILLANCE AND HEALTH STATUS ASSESSMENT

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[Back to start of section](#)
Table 1A: New influenza cases (and age specific rates), by subtype, by age group, Alberta (Week 15: Apr 10-16, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	3	0.3	1	0.1	0	0.0	4	0.4	8	0.8
2 to <5 years	0	0.0	0	0.0	1	0.1	0	0.0	6	0.4	7	0.5
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	1	0.1
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1	3	0.1
18 to <65 years	0	0.0	3	<0.1	4	<0.1	0	0.0	19	0.1	26	0.1
65 to <75 years	0	0.0	1	<0.1	0	0.0	0	0.0	5	0.2	6	0.3
75+ years	0	0.0	3	0.2	0	0.0	0	0.0	2	0.1	5	0.3
Total	0	0.0	10	<0.1	6	<0.1	0	0.0	40	0.1	56	0.2

Table 1B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Alberta (Aug 29, 2010 – Apr 16, 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	78	7.5	31	3.0	5	0.5	85	8.2	199	19.3
2 to <5 years	0	0.0	41	2.8	16	1.1	2	0.1	73	4.9	132	8.9
5 to <9 years	0	0.0	36	2.0	9	0.5	2	0.1	88	4.9	135	7.5
9 to <18 years	0	0.0	29	0.7	18	0.4	3	0.1	133	3.2	183	4.4
18 to <65 years	0	0.0	212	0.9	161	0.7	12	<0.1	205	0.8	590	2.4
65 to <75 years	0	0.0	22	1.0	3	0.1	0	0.0	21	1.0	46	2.1
75+ years	0	0.0	95	5.2	0	0.0	3	0.2	18	1.0	116	6.3
Total	0	0.0	513	1.4	238	0.6	27	0.1	623	1.7	1401	3.8

Source for Table 1A & 1B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 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

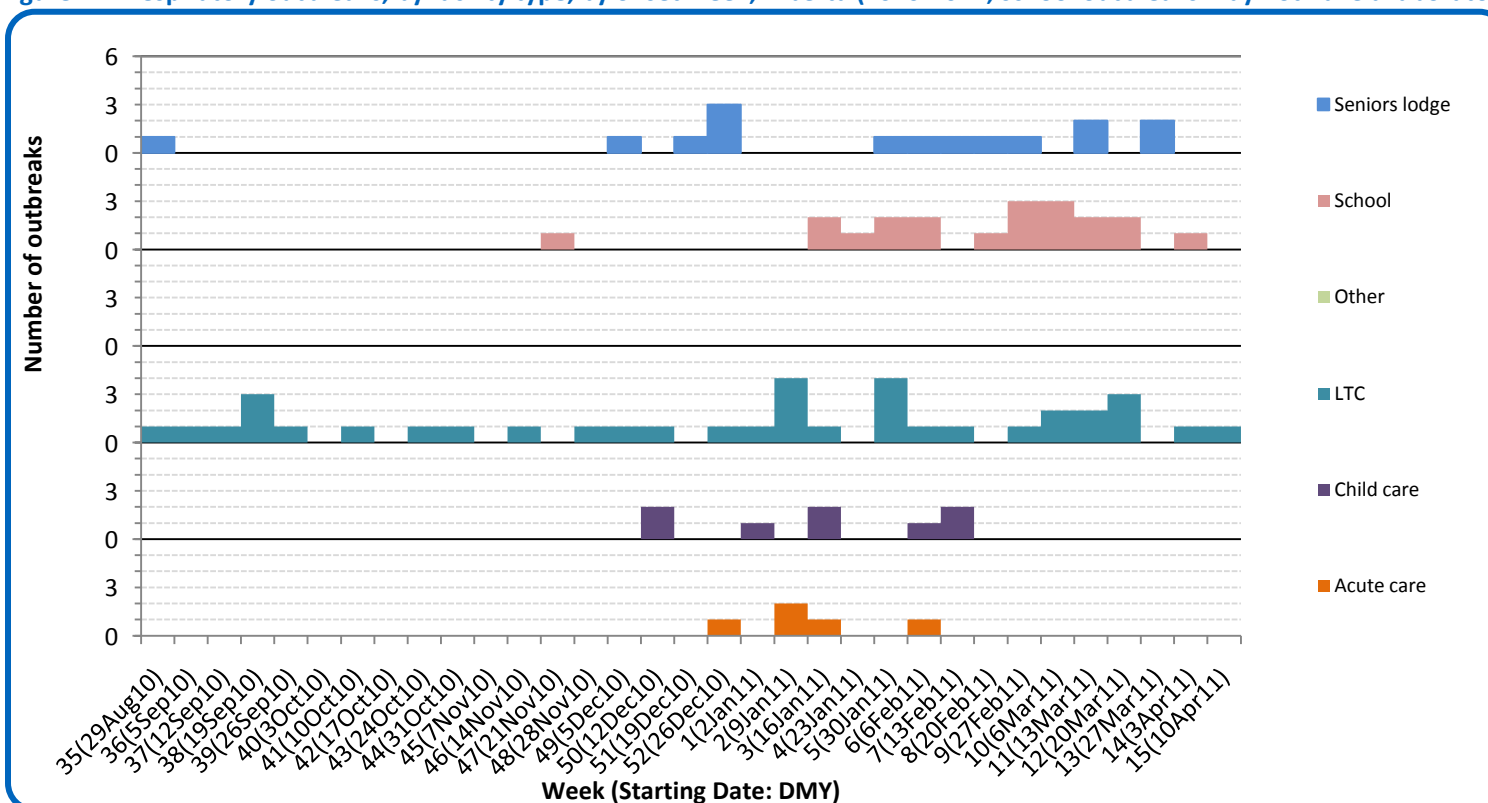
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[Back to start of section](#)

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



Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 16, 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

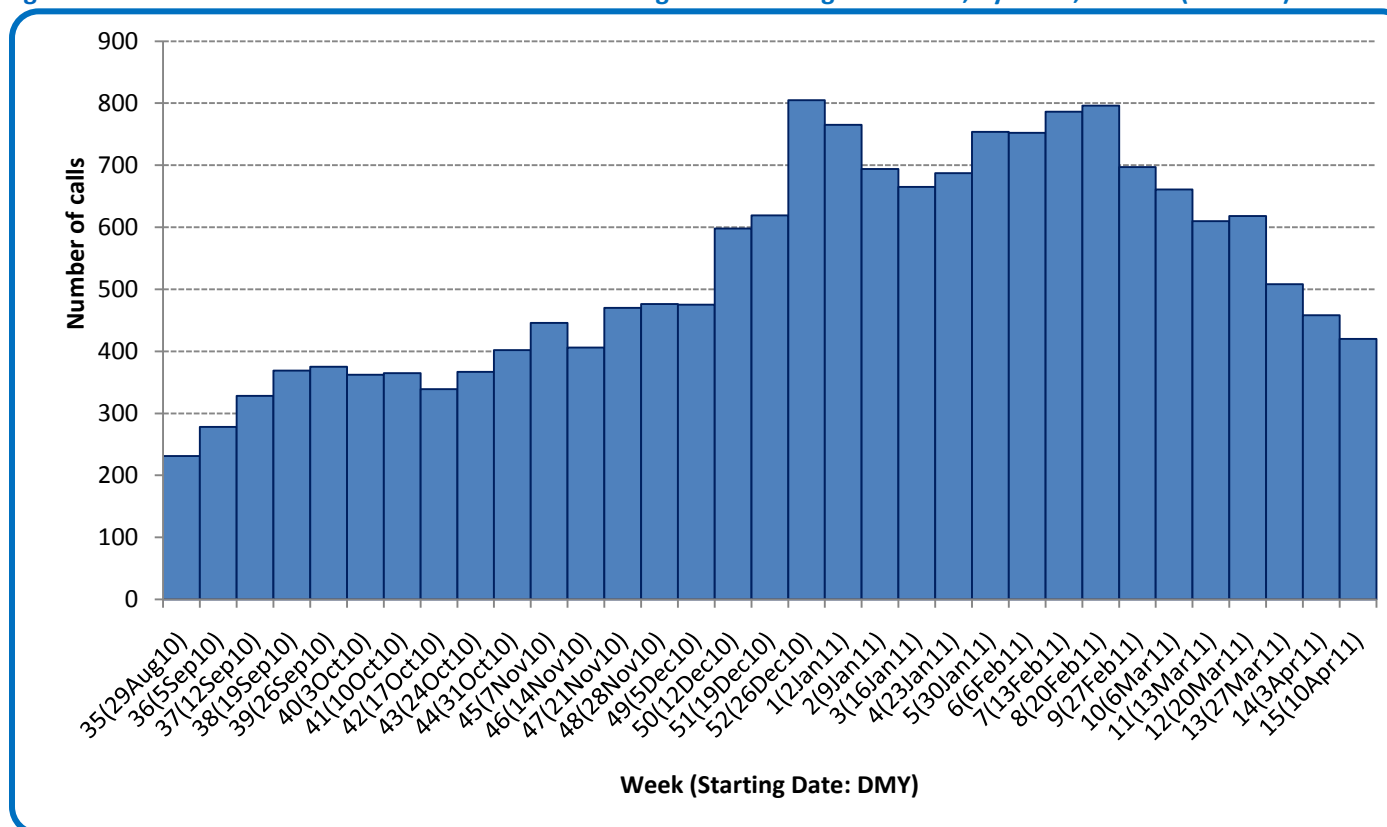
Public Health Surveillance

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[Back to start of section](#)

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



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 16, 2011.
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

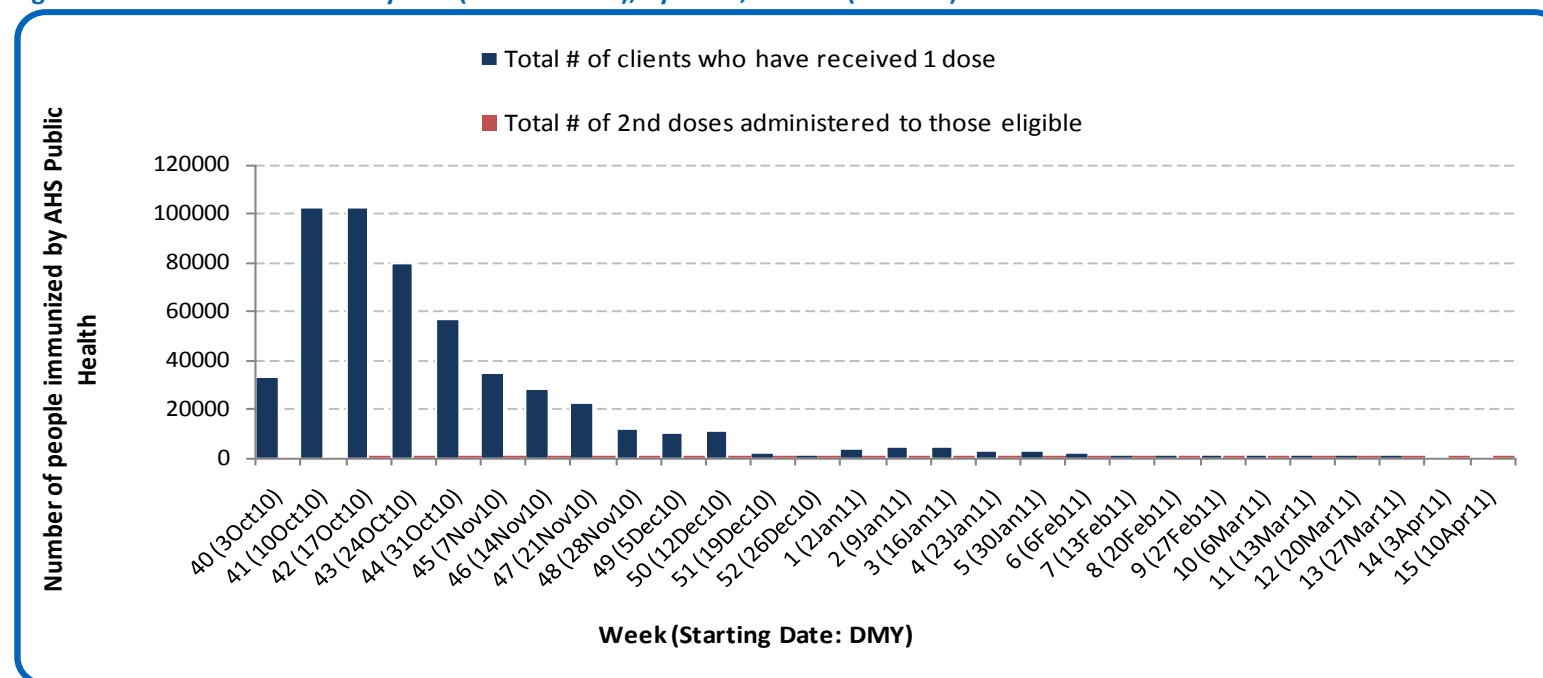
Public Health Surveillance

Report Date: April 19, 2011

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[Back to start of section](#)

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



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

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

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[Back to start of section](#)

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

Priority Group		# Immunized (Week 15 – Apr 10-Apr 16, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		2	2,649
Health care workers		17	19,101
Pregnant women		4	4,763
Residents of long term care		0	4,842
65 years of age and over		7	146,813
All children 6 months up to and including 23 months*	Dose #1	242	28,116
	Dose #2	339	9,790
All children 24 months up to and including 59 months*	Dose #1	48	25,671
	Dose #2	18	1,573
High risk: 5 years up to and including 8 years*	Dose #1	4	5,874
	Dose #2	0	157
High risk: 9 years up to and including 64 years		30	56,127
Healthy: 5 years up to and including 8 years*	Dose #1	26	19,022
	Dose #2	12	670
Healthy: 9 years up to and including 64 years		160	212,020
Total number of clients who have received 1 dose		540	524,998
Total number of 2nd doses administered to those eligible*		369	12,190

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

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

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 2011

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[Back to start of section](#)
Table 1D: Influenza immunizations delivered by external partners, by priority group, Alberta (Oct 3-Dec 31, 2010)

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

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

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

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

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

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SECTION 2: ZONE 1 - SOUTH

[Back to first page](#)

Summary

Respiratory virus activity appears to be declining in South Zone.

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

Influenza B is the predominant virus being confirmed in South Zone, although the number of cases confirmed has declined for the second consecutive week. As of the end of last week (Apr 16, 2011), the total number of laboratory confirmed cases of influenza in this part of the province this season is 131. The age specific rate for confirmed influenza in South zone is highest for children between the ages of 2 to less than 5 years, at 15.0 per 10,000.

Outbreaks

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

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

The number of calls to Health Link Alberta for cough or breathing difficulties in the South Zone increased slightly (by 11%) in Week 15 (Apr 10-16, 2011) from the previous week. This indicator has been fluctuating over the last several weeks.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

This information is not available for South Zone.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

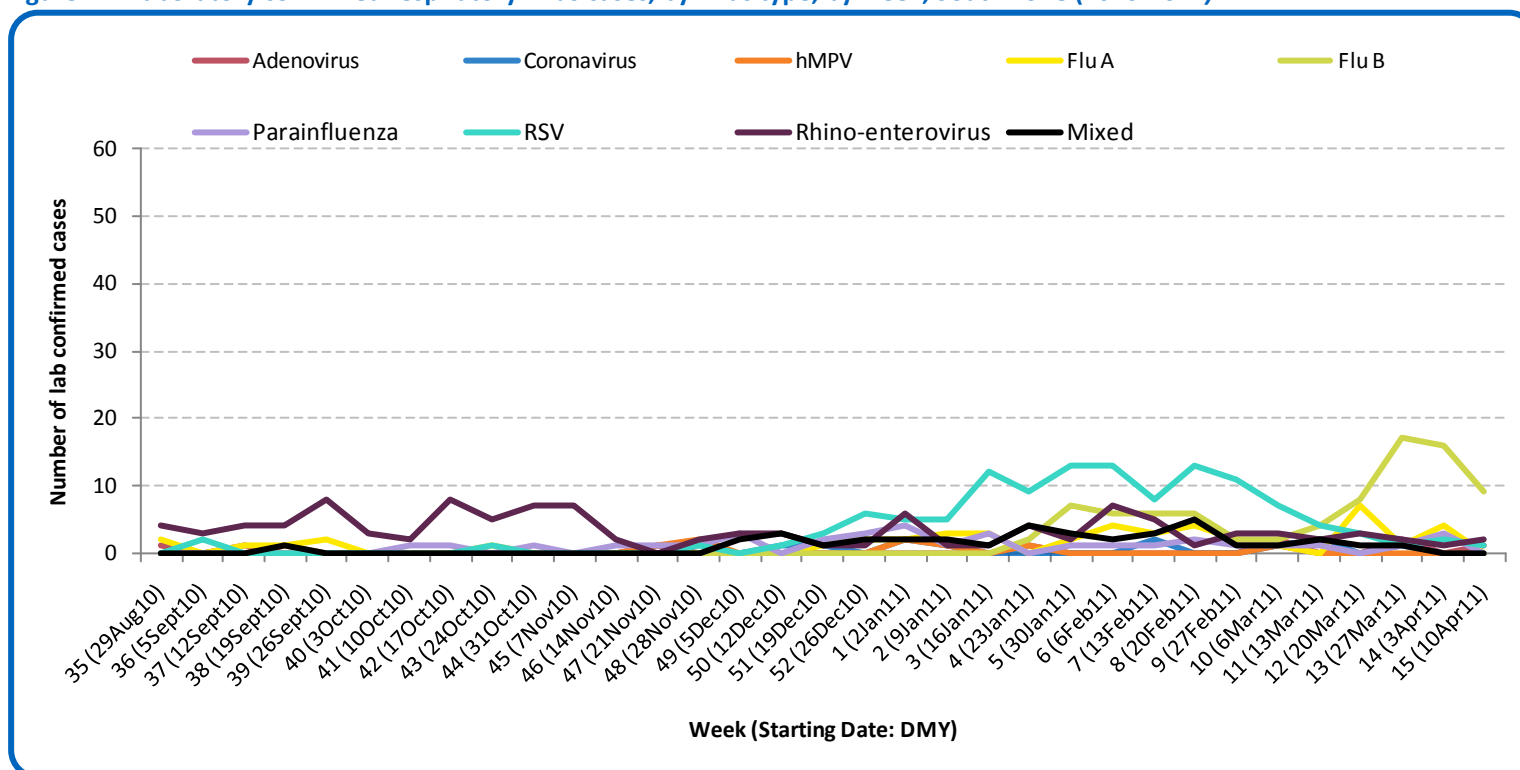
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[Back to start of section](#)

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



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 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

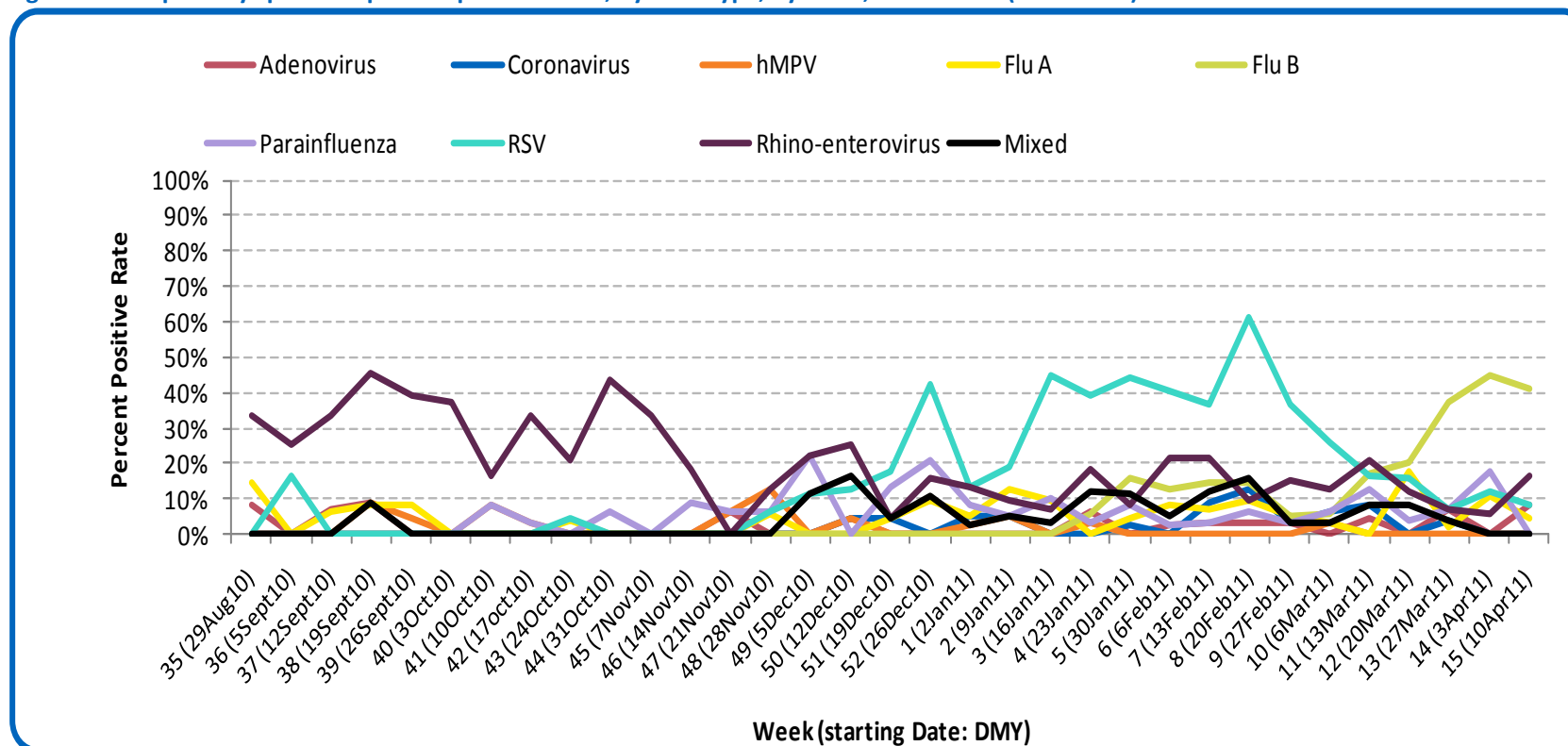
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[Back to start of section](#)

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



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 16, 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

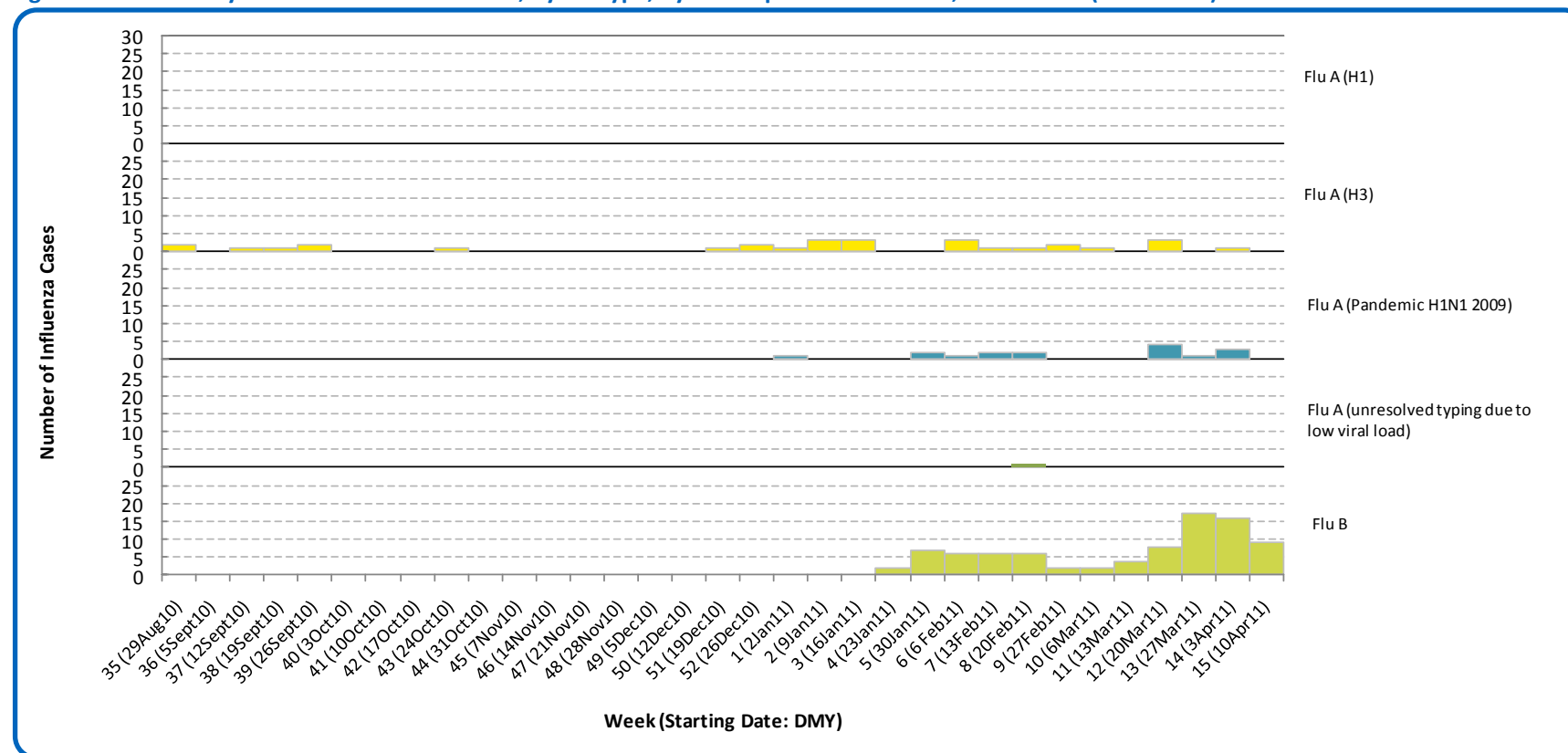
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[Back to start of section](#)

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



Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 2011).

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

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Report Date: April 19, 2011

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[Back to start of section](#)
Table 2A: New influenza cases (and age specific rates), by subtype, by age group, South Zone (Week 15: Apr 10-16, 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	0	0.0	0	0.0
2 to <5 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.8	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	2	0.6	0	0.0
18 to <65 years	0	0.0	0	0.0	0	0.0	0	0.0	5	0.3	0	0.0
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.5	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	0	0.0	0	0.0	0	0.0	9	0.3	9	0.3

Table 2B: Cumulative influenza cases (and age specific rates), by subtype, by age group, South Zone (Aug 29, 2010–Apr 16, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	4	4.8	0	0.0	0	0.0	5	6.0	9	10.8
2 to <5 years	0	0.0	5	4.2	2	1.7	0	0.0	11	9.2	18	15.0
5 to <9 years	0	0.0	1	0.7	0	0.0	0	0.0	9	6.2	10	6.8
9 to <18 years	0	0.0	0	0.0	1	0.3	0	0.0	23	6.8	24	7.1
18 to <65 years	0	0.0	18	1.0	11	0.6	1	0.1	33	1.9	63	3.6
65 to <75 years	0	0.0	0	0.0	2	1.0	0	0.0	3	1.5	5	2.6
75+ years	0	0.0	1	0.5	0	0.0	0	0.0	1	0.5	2	1.1
Total	0	0.0	29	1.0	16	0.6	1	<0.1	85	3.0	131	4.6

Source for Tables 2A & 2B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 2011).

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

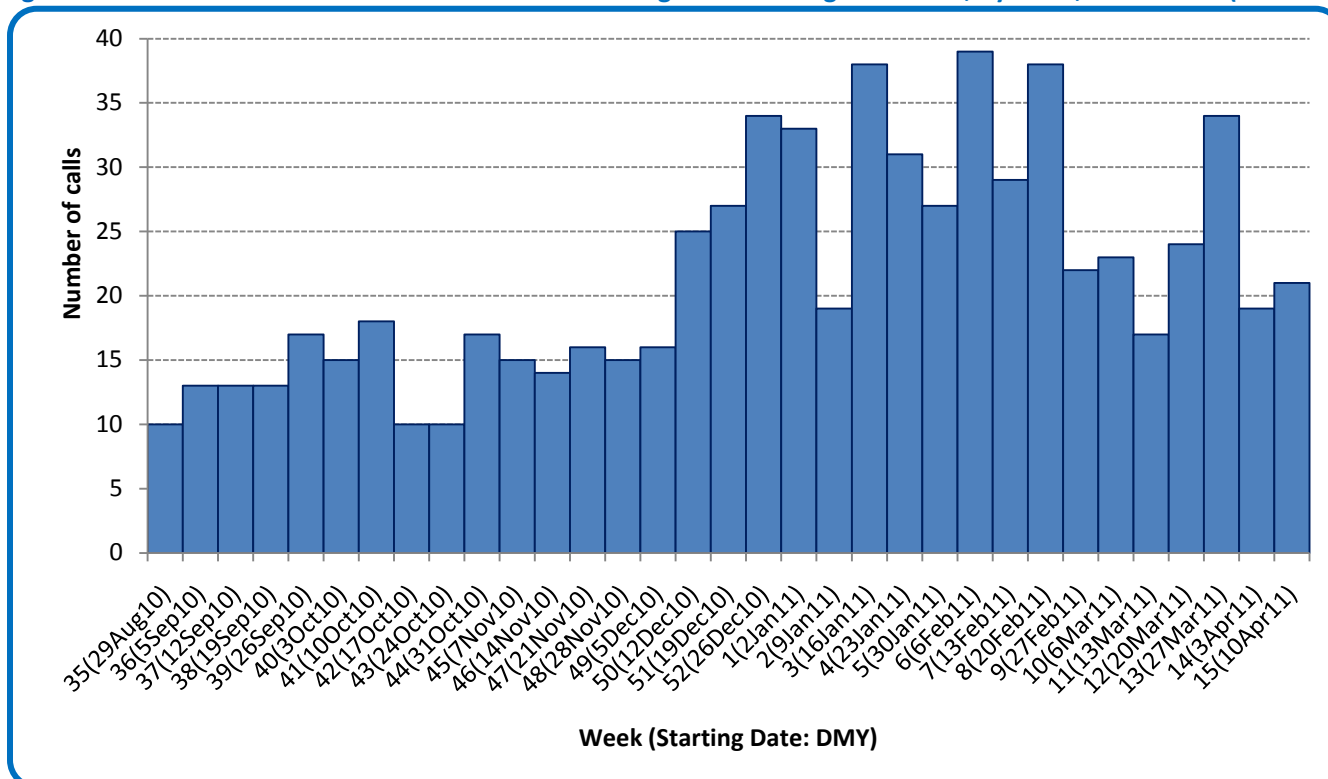
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 16, 2011.
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

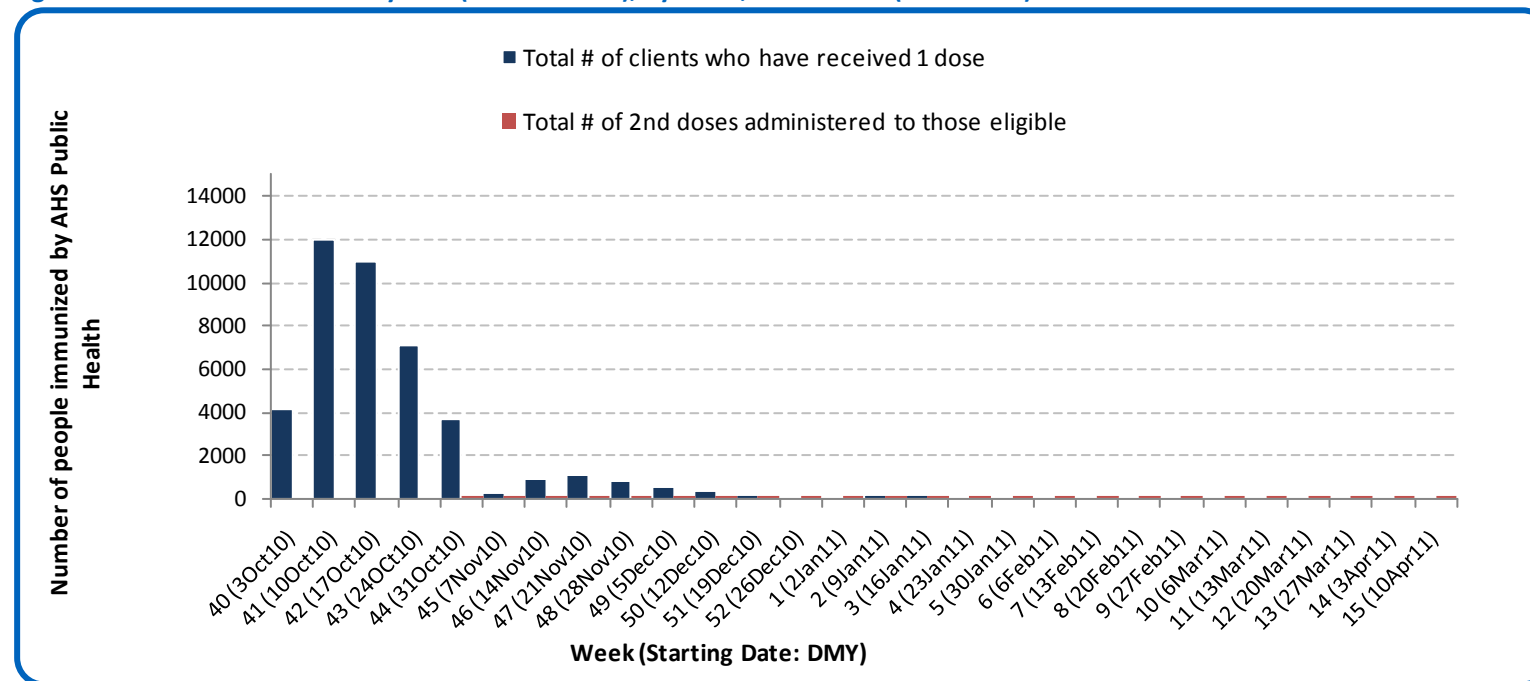
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



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

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)
Table 2C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, South Zone (2010-2011)

Priority Group		# Immunized (Week 15 – Apr 10-Apr 16, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		0	618
Health care workers		4	1,577
Pregnant women		0	302
Residents of long term care		0	730
65 years of age and over		0	15,604
All children 6 months up to and including 23 months*	Dose #1	15	1,654
	Dose #2	23	702
All children 24 months up to and including 59 months*	Dose #1	6	2,011
	Dose #2	2	140
High risk: 5 years up to and including 8 years*	Dose #1	1	508
	Dose #2	0	22
High risk: 9 years up to and including 64 years		1	4,131
Healthy: 5 years up to and including 8 years*	Dose #1	1	1,518
	Dose #2	0	67
Healthy: 9 years up to and including 64 years		6	14,748
Total number of clients who have received 1 dose		34	43,401
Total number of 2nd doses administered to those eligible*		25	931

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

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

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)
Table 2D: Influenza immunizations delivered by external partners, by priority group, South Zone (Oct 3-Dec 31, 2010)

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

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

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

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

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 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

[Back to first page](#)

Summary

Respiratory virus activity appears to be declining in Calgary Zone.

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

The number of confirmed cases of influenza B decreased in Week 15 (Apr 10-16, 2011) from the previous week. Generally, the number of confirmed cases of influenza (all types) has been declining in recent weeks. Since the beginning of the season, a total of 371 cases of influenza have been confirmed in Calgary Zone (38.3% have been identified as influenza A (H3), 13.7% as influenza A (H1N1) 2009, 45.3% as influenza type B and 2.7% as influenza A with unresolved sub-typing). Compared to the age specific rates in other age groups, the rate for confirmed influenza is highest among infants less than 2 years of age at 11.9 per 10,000.

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

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

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

The number of calls to Health Link Alberta for cough or breathing difficulties in the Calgary Zone continues to decline.

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

The number of emergency department visits for influenza-like illness (ILI) at the six urban emergency departments/urgent care centers (ED's) in the City of Calgary decreased by 18% in Week 15 (Apr 10-16, 2011) compared to the previous week, however the number of hospital admissions for the same reason increased by 29%. Generally, the trend for emergency department visits for ILI has been decreasing consistent, while the number of hospital admissions for ILI has been fluctuating.

The number of visits to emergency departments and the number of hospital admissions for patients with cough symptoms decreased by 19% and 41%, respectively, in Week 15 (Apr 10-16, 2011) compared to the previous week. While the number of hospital admissions has fluctuated in recent weeks, the number of visits to emergency departments for cough has been declining consistently.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

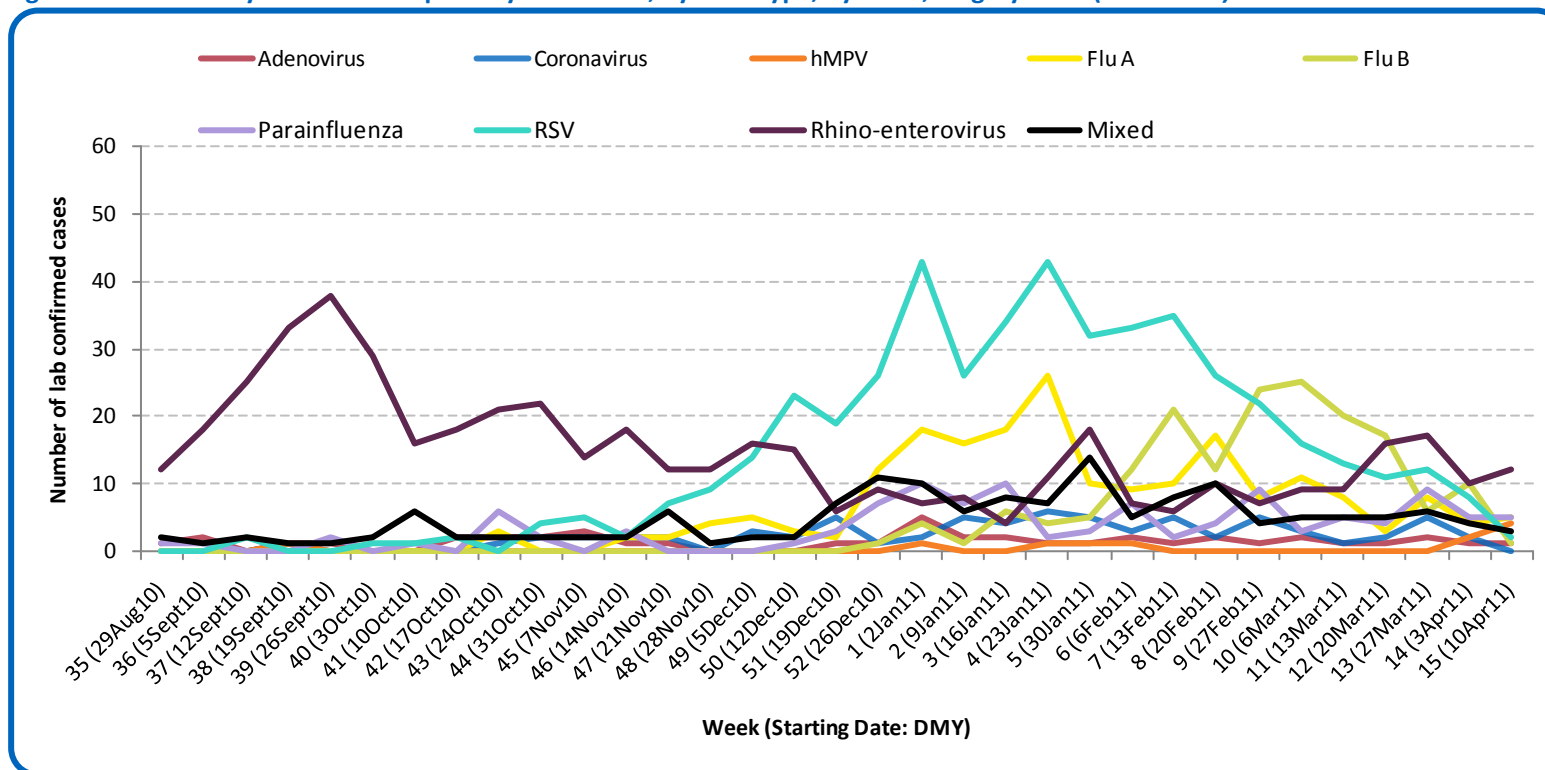
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

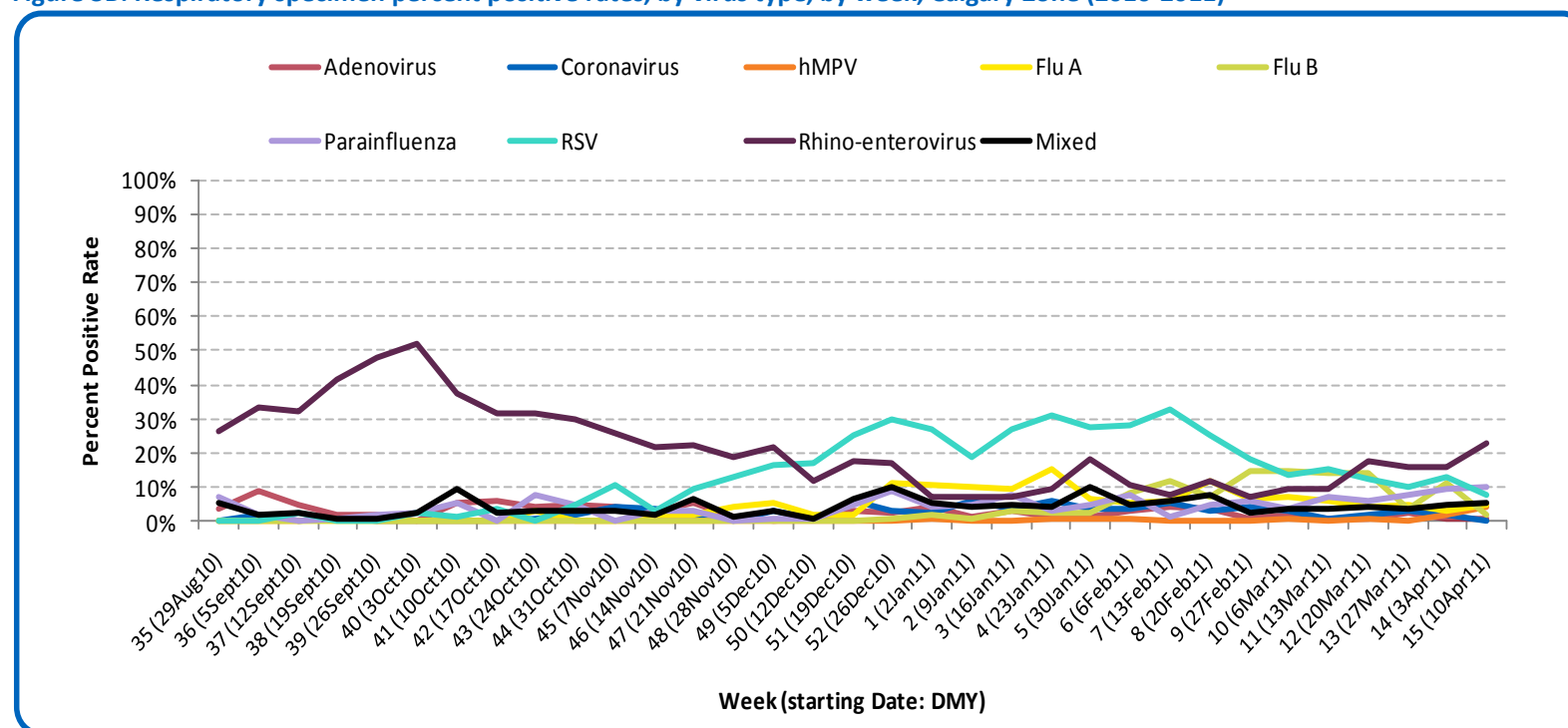
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 16, 2011)
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

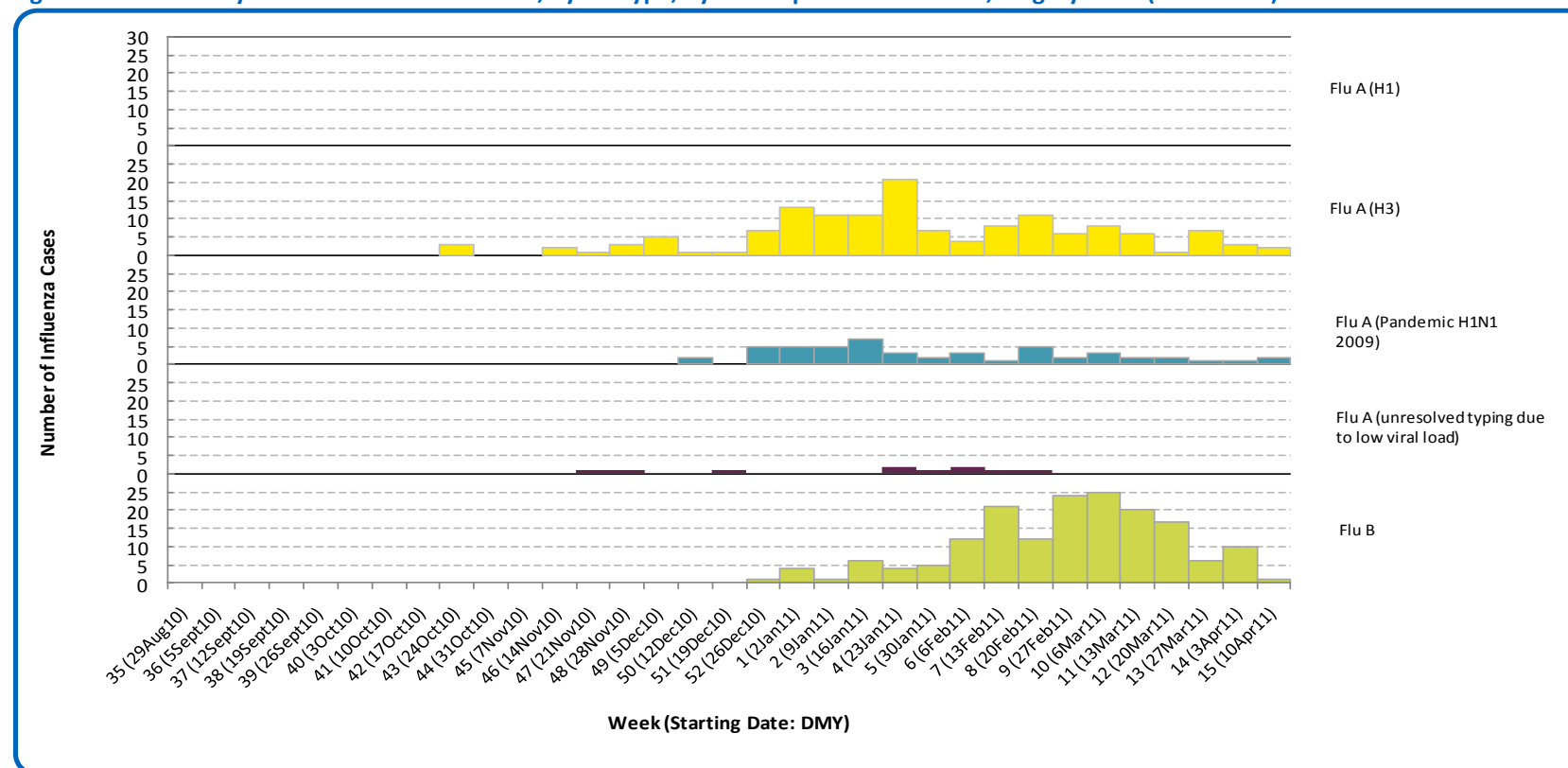
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



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

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 2011).

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)
Table 3A: New influenza cases (and age specific rates), by subtype, by age group, Calgary Zone (Week 15: Apr 10-16, 2011)

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

Table 3B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Calgary Zone (Aug 29, 2010 – Apr 16, 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	5.0	6	1.6	1	0.3	19	5.0	45	11.9
2 to <5 years	0	0.0	12	2.2	3	0.6	1	0.2	15	2.8	31	5.7
5 to <9 years	0	0.0	9	1.4	1	0.2	2	0.3	29	4.5	41	6.3
9 to <18 years	0	0.0	10	0.7	1	0.1	2	0.1	44	3.0	57	3.9
18 to <65 years	0	0.0	63	0.7	39	0.4	3	0.0	58	0.6	163	1.7
65 to <75 years	0	0.0	9	1.2	1	0.1	0	0.0	2	0.3	12	1.6
75+ years	0	0.0	20	3.3	0	0.0	1	0.2	1	0.2	22	3.6
Total	0	0.0	142	1.0	51	0.4	10	0.1	168	1.2	371	2.7

Source for tables 3A & 3B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 2011).

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

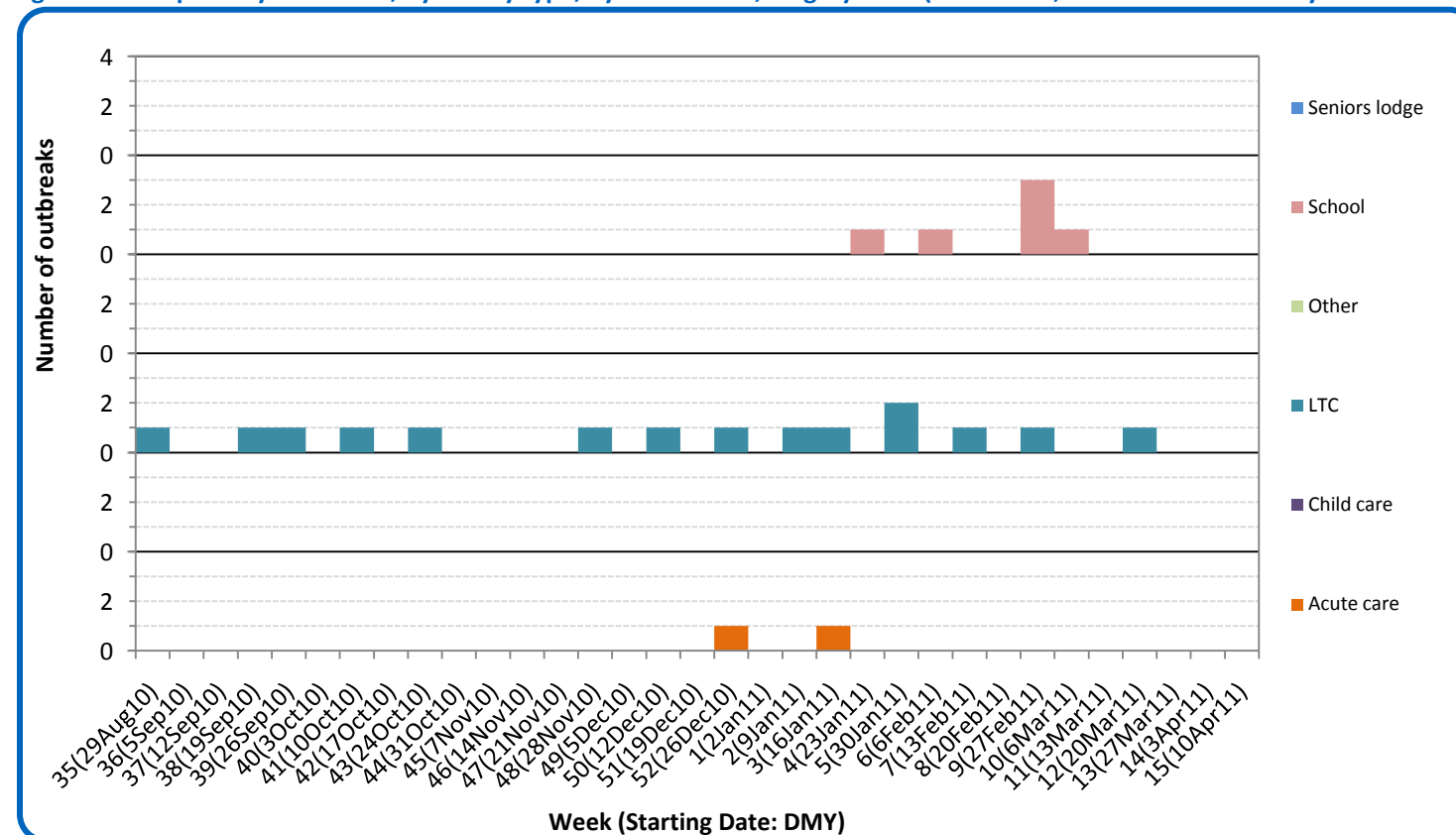
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 16, 2011. LTC stands for long term care facility. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

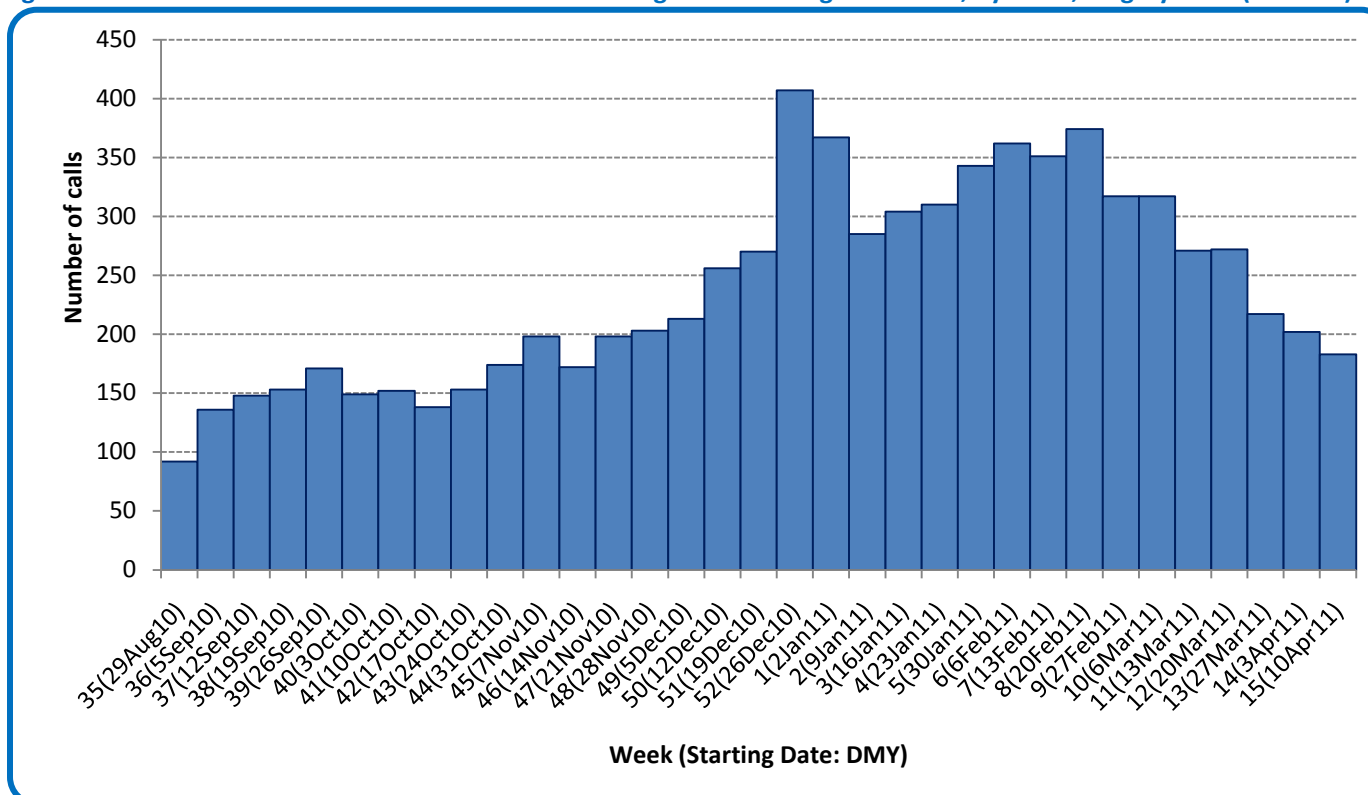
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 16, 2011.
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

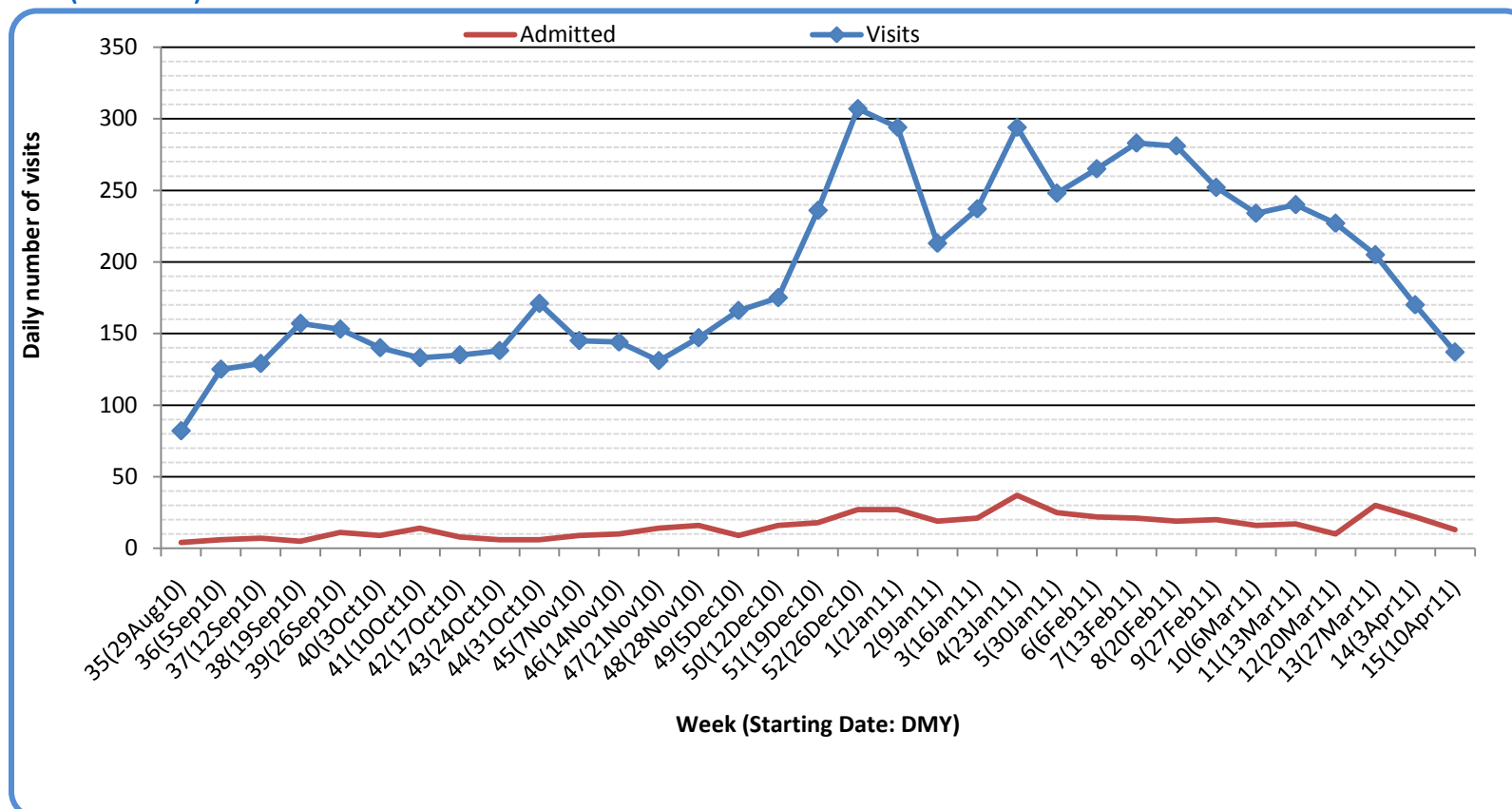
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to first start of section](#)

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



Source: Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 16, 2011.

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

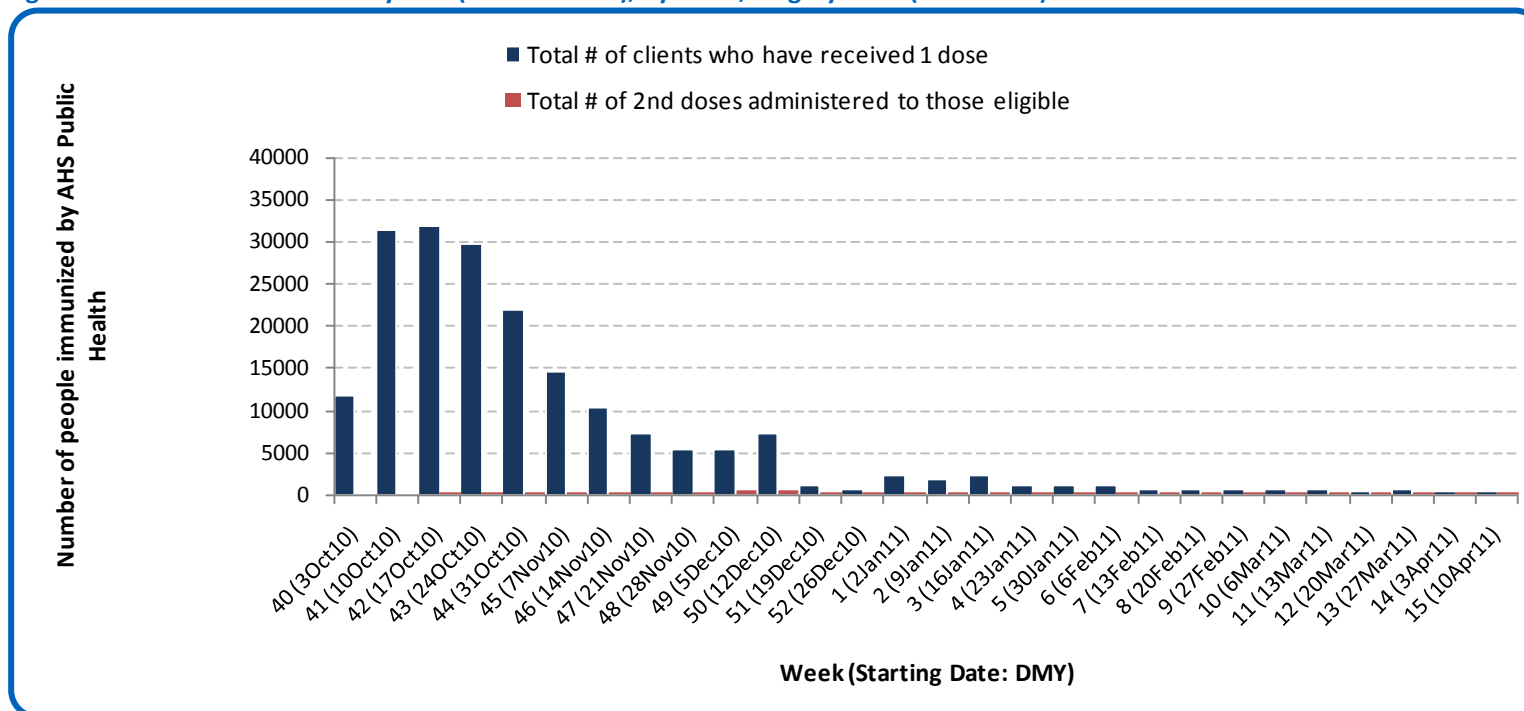
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



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

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)
Table 3C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, Calgary Zone (2010-2011)

Priority Group		# Immunized (Week 15 – Apr 10-Apr 16, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		0	453
Health care workers		1	5,355
Pregnant women		3	2,007
Residents of long term care		0	706
65 years of age and over		6	44,723
All children 6 months up to and including 23 months*	Dose #1	181	14,692
	Dose #2	242	4,620
All children 24 months up to and including 59 months*	Dose #1	37	11,565
	Dose #2	8	677
High risk: 5 years up to and including 8 years*	Dose #1	1	2,391
	Dose #2	0	60
High risk: 9 years up to and including 64 years		11	20,041
Healthy: 5 years up to and including 8 years*	Dose #1	24	7,533
	Dose #2	8	268
Healthy: 9 years up to and including 64 years		93	84,671
Total number of clients who have received 1 dose		357	194,137
Total number of 2nd doses administered to those eligible*		258	5,625

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

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

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)
Table 3D: Influenza immunizations delivered by external partners, by priority group, Calgary Zone (Oct 3-Dec 31, 2010)

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

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

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

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

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 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

[Back to first page](#)

Summary

After a period of decline, respiratory virus activity in Central Zone appears to have stabilized in recent weeks.

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

The number of confirmed cases of influenza B decreased in Week 15 (Apr 10-16, 2011) compared to the previous week, while the number of confirmed cases of influenza A remained the same. Of the influenza cases confirmed in Week 15, half were influenza type B, a quarter were influenza A (H3) and the remaining quarter were influenza A (H1N1) 2009. This season, the total number of influenza cases confirmed in Central Zone is 178. At this point in the season, the age-specific rate for confirmed cases of influenza (all types) is highest for infants under the age of 2 years, at 18.6 per 10,000.

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

Since the last update provided, four respiratory outbreaks have been confirmed in a Central Zone; all have been mentioned in previous reports. They included a rhinovirus outbreak in a seniors' lodge (19% attack rate), an influenza A (H3) outbreak in a long term care facility and two coronavirus outbreaks in a long term care facility (50% attack rate) and a seniors' lodge (29% attack rate). The onset of symptoms for these occurred at different time periods ranging from Week 11 (Mar 13-19, 2011) to Week 14 (Apr 3-9, 2011).

In addition, one other respiratory outbreak was reported in a Central Zone long term care facility. The onset of symptoms occurred in Week 14 (Apr 3-9, 2011) and the preliminary attack rate was 20%. Laboratory confirmation for this outbreak is currently pending.

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

The number of calls to Health Link Alberta in the Central Zone for cough or breathing difficulties remained virtually unchanged in Week 15 (Apr 10-16, 2011) from the previous week. This indicator had been on a decreasing trend that started in early March, 2011 however it has stabilized in the last three weeks.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

There are no data available from this zone.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

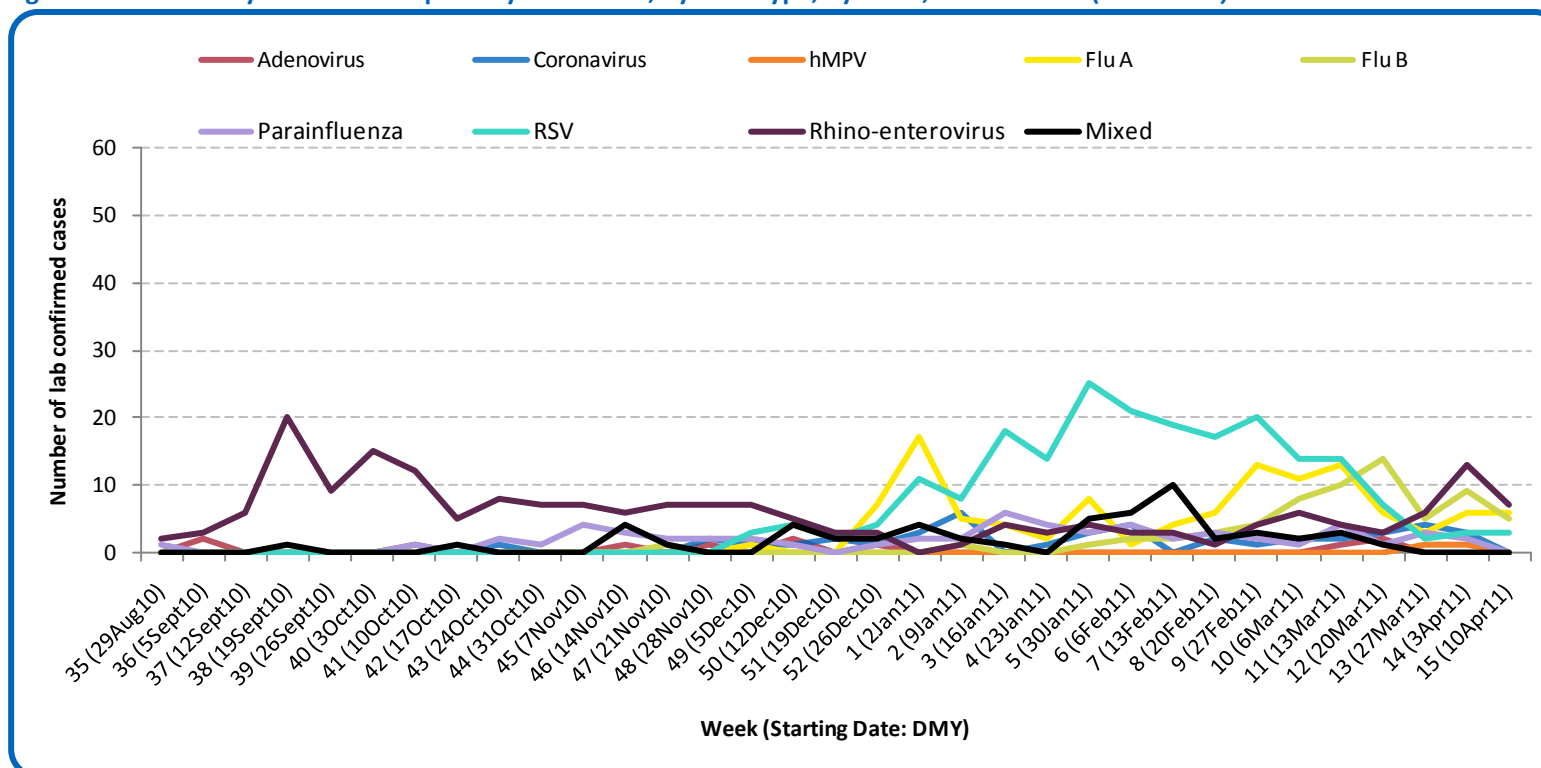
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

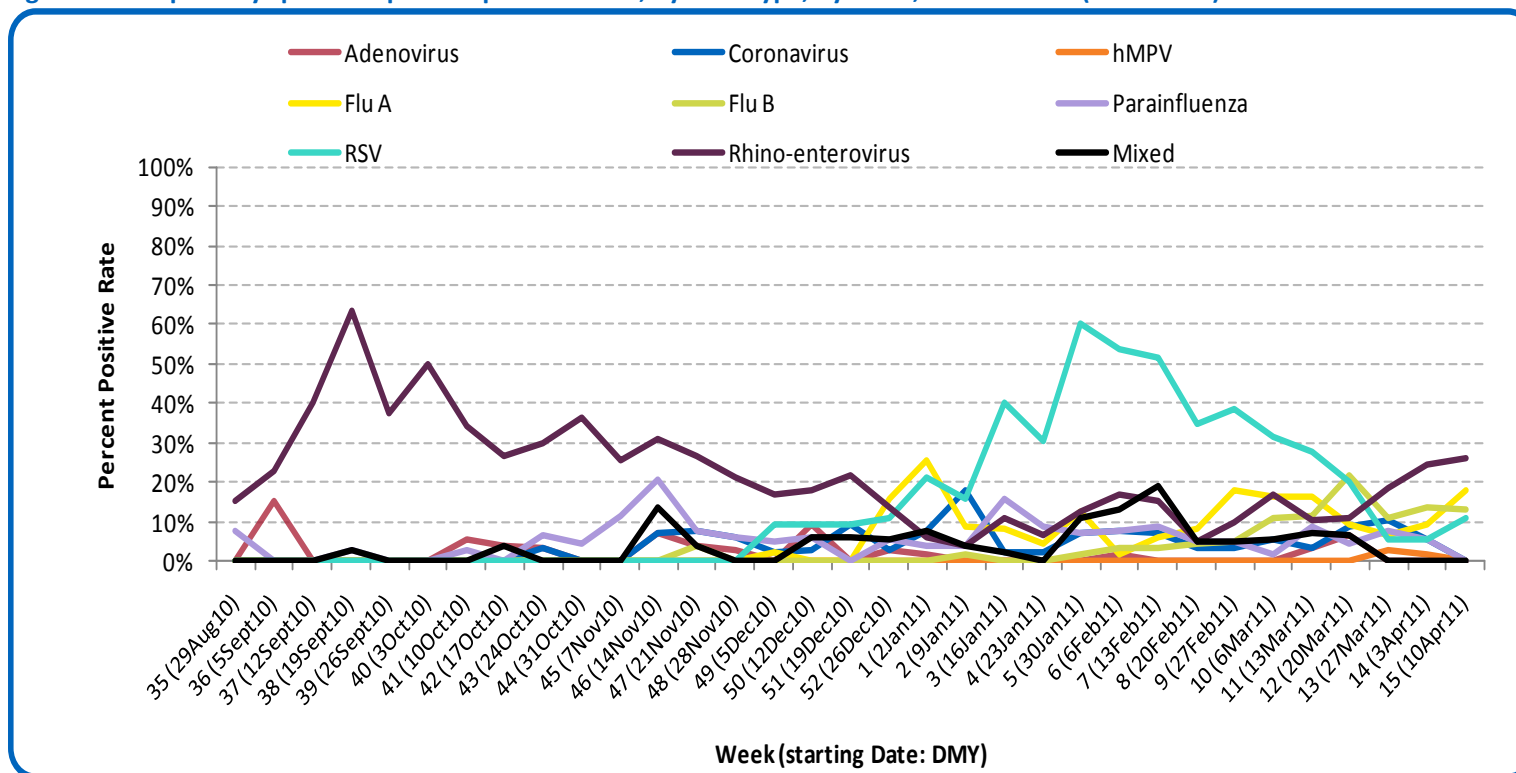
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 16, 2011)
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

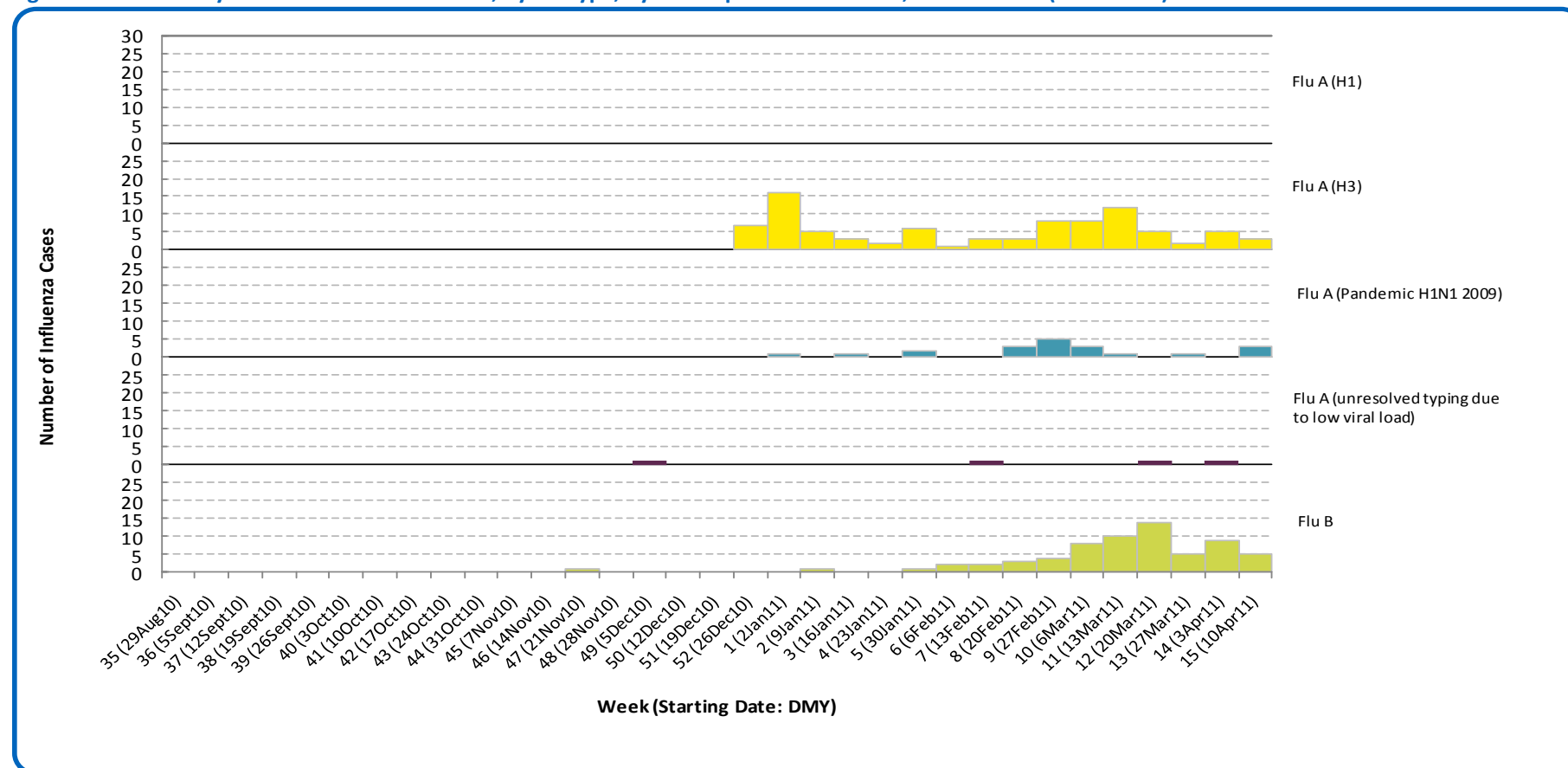
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



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

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 2011).

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)
Table 4A: New influenza cases (and age specific rates), by subtype, by age group, Central Zone (Week 15: Apr 10-16, 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	0.8	0	0.0	0	0.0	1	0.8	2	1.6
2 to <5 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6	1	0.6
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	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	0	0.0	3	0.1	0	0.0	2	0.1	5	0.2
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	1	0.3
75+ years	0	0.0	2	0.7	0	0.0	0	0.0	0	0.0	2	0.7
Total	0	0.0	3	0.1	3	0.1	0	0.0	5	0.1	11	0.2

Table 4B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Central Zone (Aug 29, 2010 – Apr 16, 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	8.1	0	0.0	0	0.0	13	10.5	23	18.6
2 to <5 years	0	0.0	2	1.1	2	1.1	0	0.0	8	4.4	12	6.6
5 to <9 years	0	0.0	4	1.8	0	0.0	0	0.0	9	4.0	13	5.8
9 to <18 years	0	0.0	3	0.6	2	0.4	0	0.0	6	1.1	11	2.1
18 to <65 years	0	0.0	36	1.3	16	0.6	3	0.1	24	0.9	79	2.8
65 to <75 years	0	0.0	2	0.6	0	0.0	0	0.0	3	1.0	5	1.6
75+ years	0	0.0	32	11.6	0	0.0	1	0.4	2	0.7	35	12.7
Total	0	0.0	89	2.0	20	0.4	4	0.1	65	1.5	178	4.0

Source for Tables 4A & 4B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 2011).

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

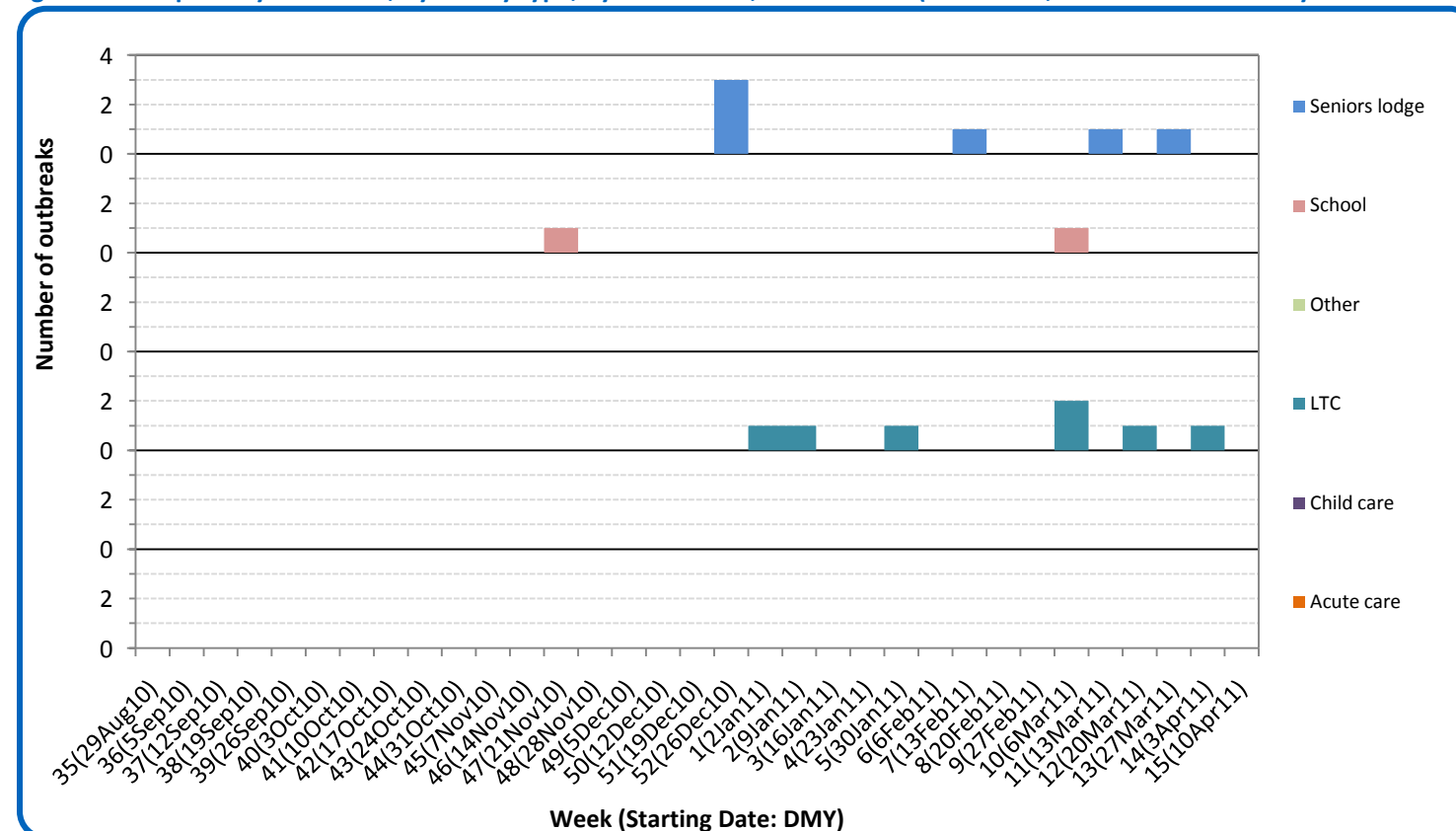
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 16, 2011.

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

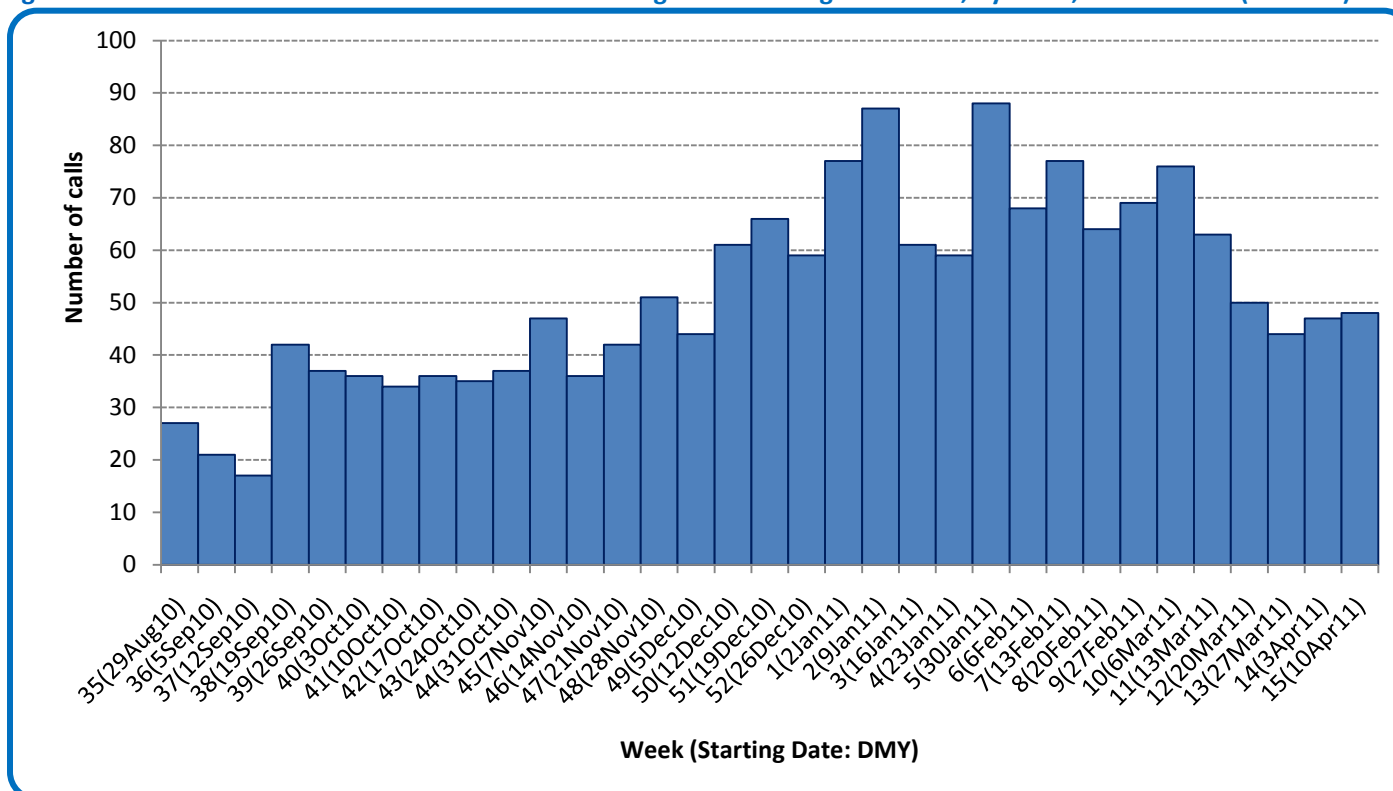
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 16, 2011.
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

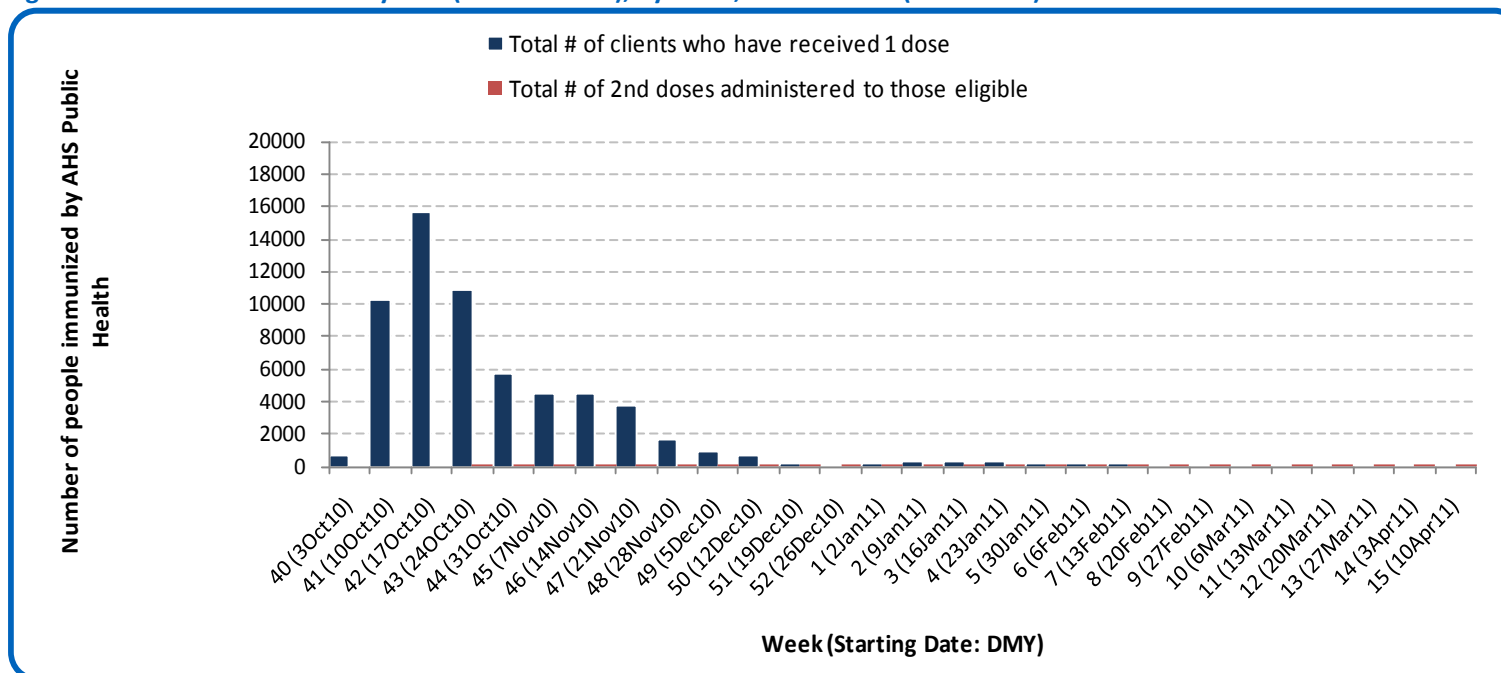
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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](#)

[Back to start of section](#)
Table 4C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, Central Zone (2010-2011)

Priority Group		# Immunized (Week 15 – Apr 10-Apr 16, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		1	428
Health care workers		2	2,626
Pregnant women		0	429
Residents of long term care		0	1,106
65 years of age and over		0	22,162
All children 6 months up to and including 23 months*	Dose #1	7	2,492
	Dose #2	47	1,181
All children 24 months up to and including 59 months*	Dose #1	2	2,322
	Dose #2	3	201
High risk: 5 years up to and including 8 years*	Dose #1	0	652
	Dose #2	0	24
High risk: 9 years up to and including 64 years		5	6,893
Healthy: 5 years up to and including 8 years*	Dose #1	0	1,991
	Dose #2	2	90
Healthy: 9 years up to and including 64 years		13	20,853
Total number of clients who have received 1 dose		30	61,954
Total number of 2nd doses administered to those eligible*		52	1,496

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

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

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)
Table 4D: Influenza immunizations delivered by external partners, by priority group, Central Zone (Oct 3-Dec 31, 2010)

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

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

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

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

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 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

[Back to first page](#)

Summary

Although the levels of some indicators (lab confirmed cases of influenza, respiratory related calls to Health Link Alberta and visits to emergency departments) appear to be declining, the levels of other indicators have fluctuated in recent weeks and respiratory outbreaks continue to be reported. Overall, it appears that respiratory virus activity has remained steady in Edmonton Zone.

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

The number of influenza B cases confirmed has been declining consistently over the last 4 weeks. Cases of influenza A (both H3 and H1N1 2009) continue to be confirmed, but in lower numbers than influenza type B. As of the end of last week (Apr 16, 2011), the total number of influenza cases confirmed in this part of the province this season is 452. The age-specific rate for confirmed influenza (all types) for infants less than 2 years of age is higher compared to other age groups, at 23.9 per 10,000 (compared to 9.1 per 10,000 or lower for other age groups).

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

Since the last update, there have been three respiratory outbreaks confirmed in Edmonton Zone. They included one in a seniors' lodge attributed to RSV (6% preliminary attack rate), one in a school attributed to influenza B (16% preliminary attack rate) and one in a long term care facility attributed to both coronavirus and parainfluenza (18% preliminary attack rate). The onset of symptoms for these outbreaks occurred at various points in time ranging from during Week 13 (Mar 27-Apr 2, 2011) to Week 15 (Apr 10-16, 2011).

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

The number of calls to Health Link Alberta in the Edmonton Zone for cough or breathing difficulties continues to decline.

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

The number of visits to nine emergency departments/urgent care centers for ILI symptoms decreased by 35% in Week 15 (Apr 10-16, 2011) from the previous week. This indicator has been decreasing consistently in recent weeks. The number of hospital admissions for the same reason decreased in Week 15 compared to the previous week as well, by 18%. This indicator has been fluctuating in recent weeks.

Despite some fluctuations, the number of visits for symptoms of cough/congestion has generally been decreasing since the end of February, 2011. After an unusual spike in Week 14 (Apr 3-9, 2011), the number of hospital admissions for cough/congestions decreased by 50% in Week 15 (Apr 10-16, 2011).

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

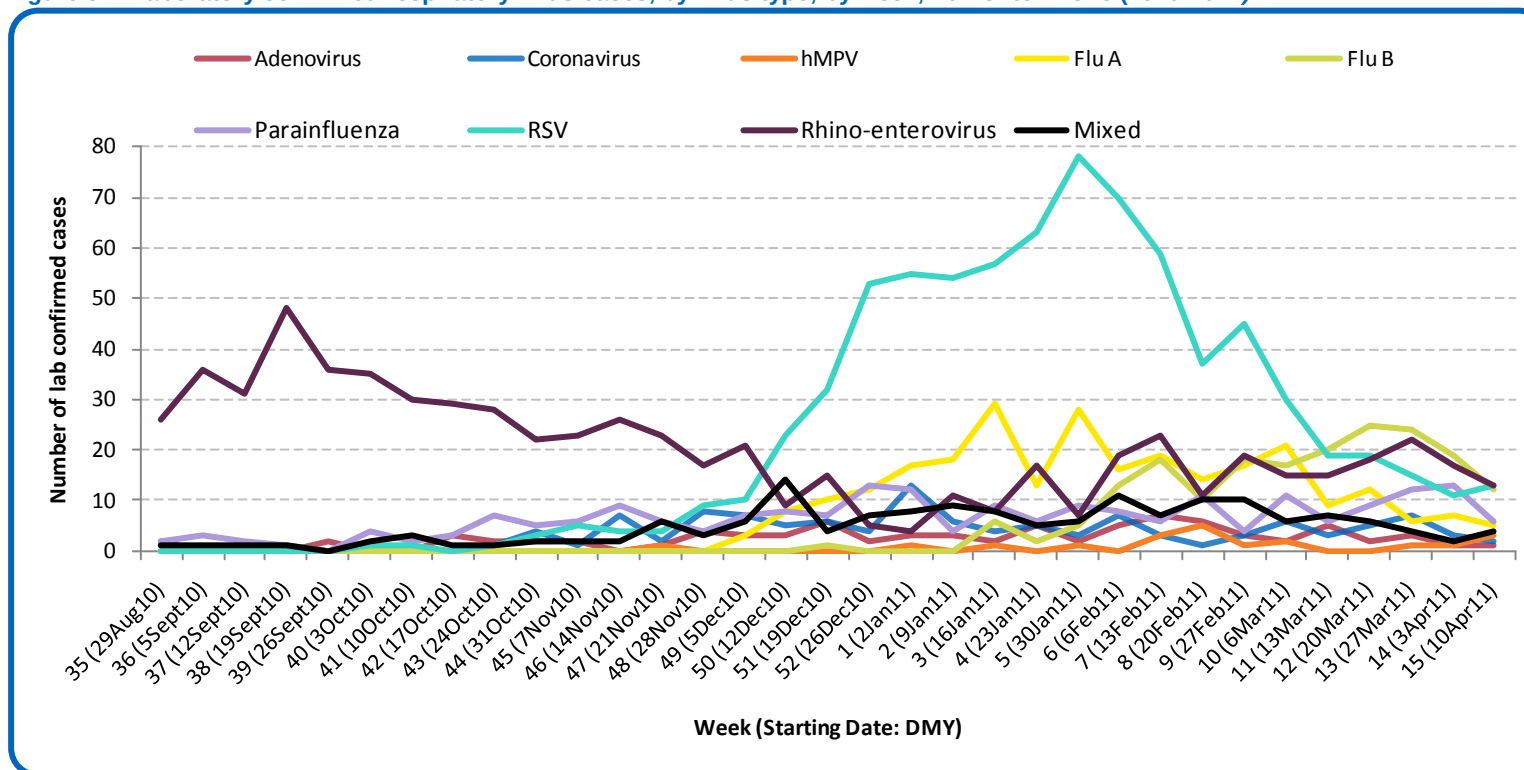
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

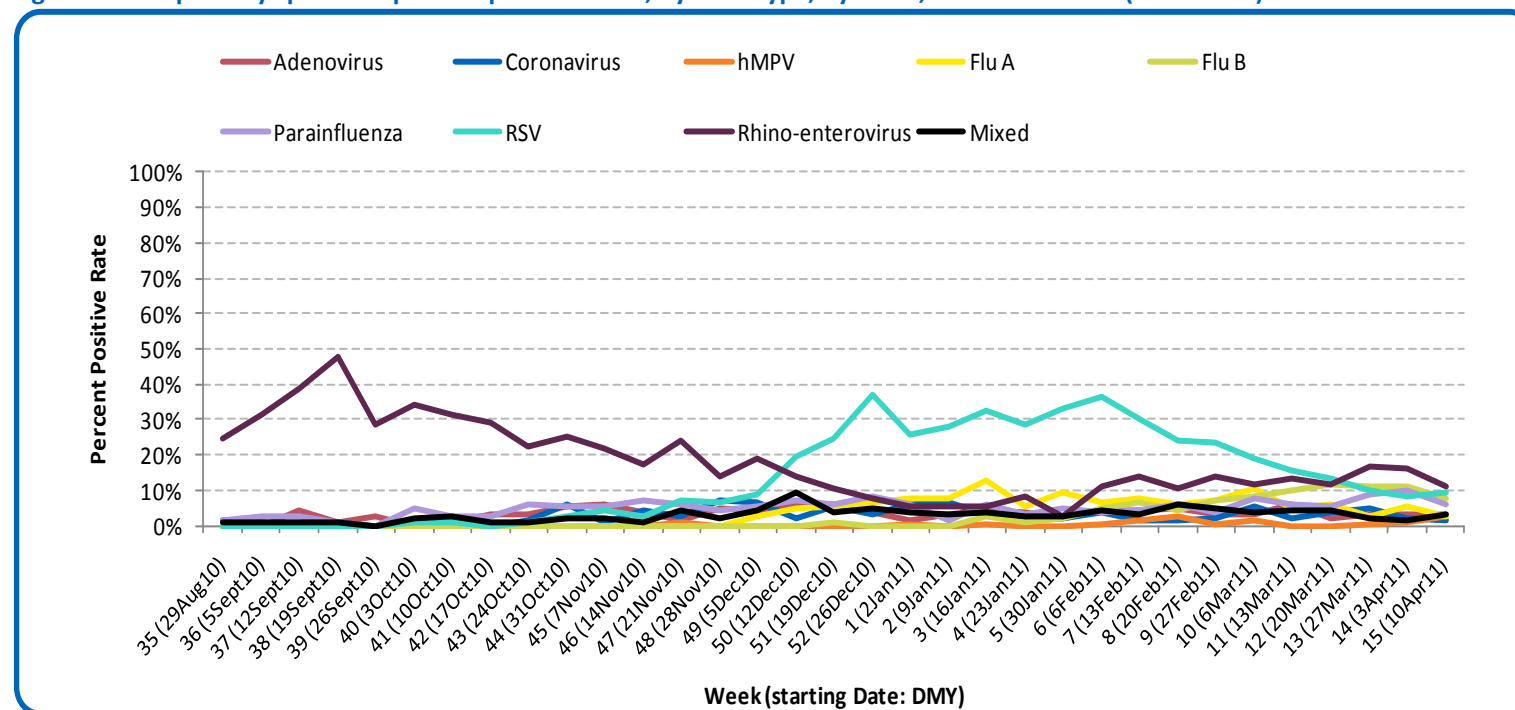
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 16, 2011)

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

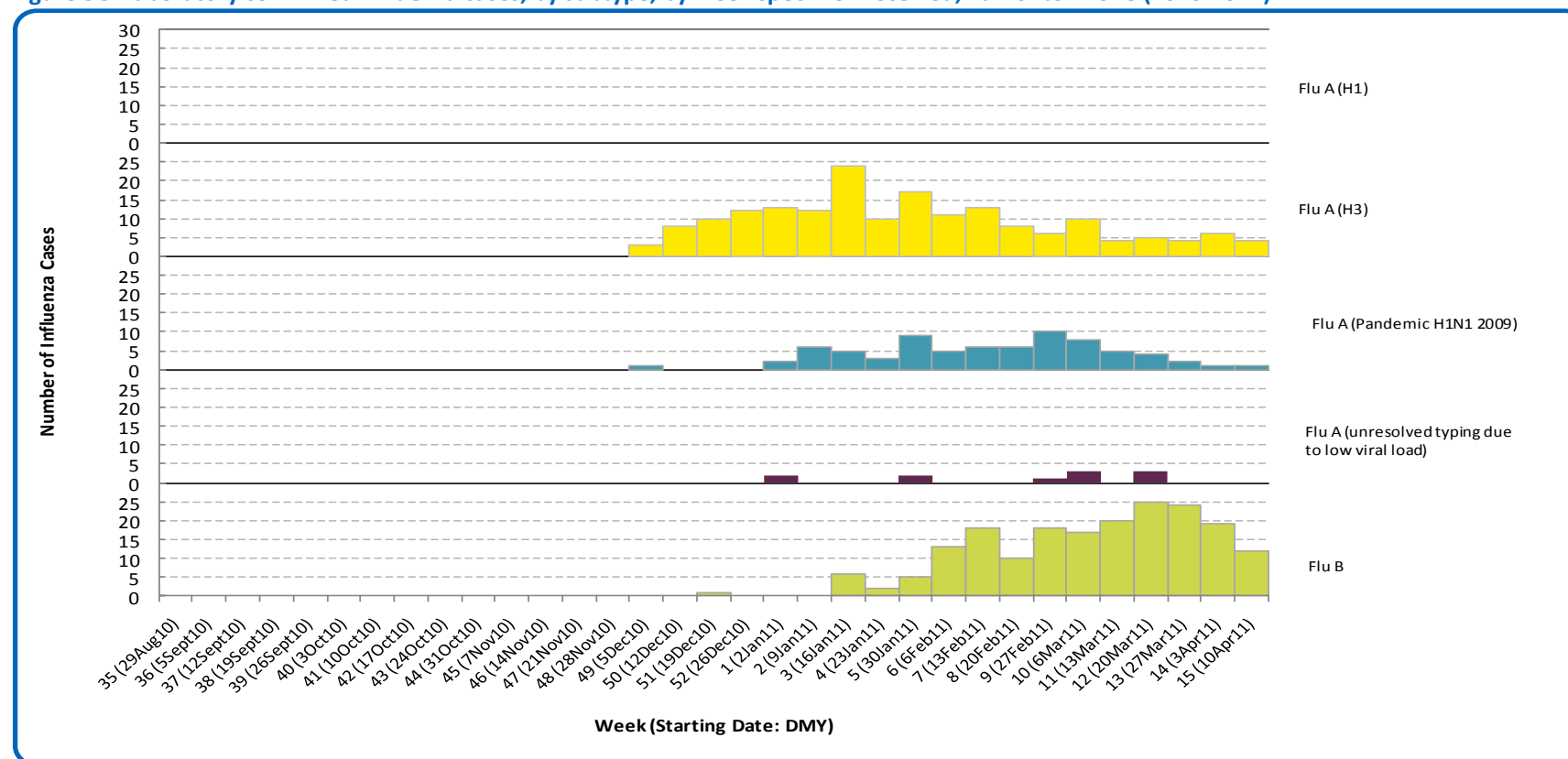
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



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

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 2011).

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)
Table 5A: New influenza cases (and age specific rates), by subtype, by age group, Edmonton Zone (Week 15: Apr 10-16, 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	0	0.0	2	0.7	3	1.0
2 to <5 years	0	0.0	0	0.0	1	0.2	0	0.0	1	0.2	2	0.5
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	1	0.2
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
18 to <65 years	0	0.0	3	<0.1	0	0.0	0	0.0	4	<0.1	7	0.1
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	2	0.3	2	0.3
75+ years	0	0.0	0	0.0	0	0.0	0	0.0	2	0.3	2	0.3
Total	0	0.0	4	<0.1	1	<0.1	0	0.0	12	0.1	17	0.1

Table 5B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Edmonton Zone (Aug 29, 2010 – Apr 16, 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	31	10.1	8	2.6	3	1.0	31	10.1	73	23.9
2 to <5 years	0	0.0	15	3.4	5	1.1	1	0.2	19	4.3	40	9.1
5 to <9 years	0	0.0	11	2.1	3	0.6	0	0.0	28	5.3	42	7.9
9 to <18 years	0	0.0	7	0.6	3	0.2	1	0.1	42	3.4	53	4.3
18 to <65 years	0	0.0	69	0.9	54	0.7	5	0.1	48	0.6	176	2.3
65 to <75 years	0	0.0	9	1.3	0	0.0	0	0.0	8	1.1	17	2.4
75+ years	0	0.0	36	5.9	0	0.0	1	0.2	14	2.3	51	8.4
Total	0	0.0	178	1.5	73	0.6	11	0.1	190	1.6	452	3.9

Source for tables 5A & 5B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 2011).

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

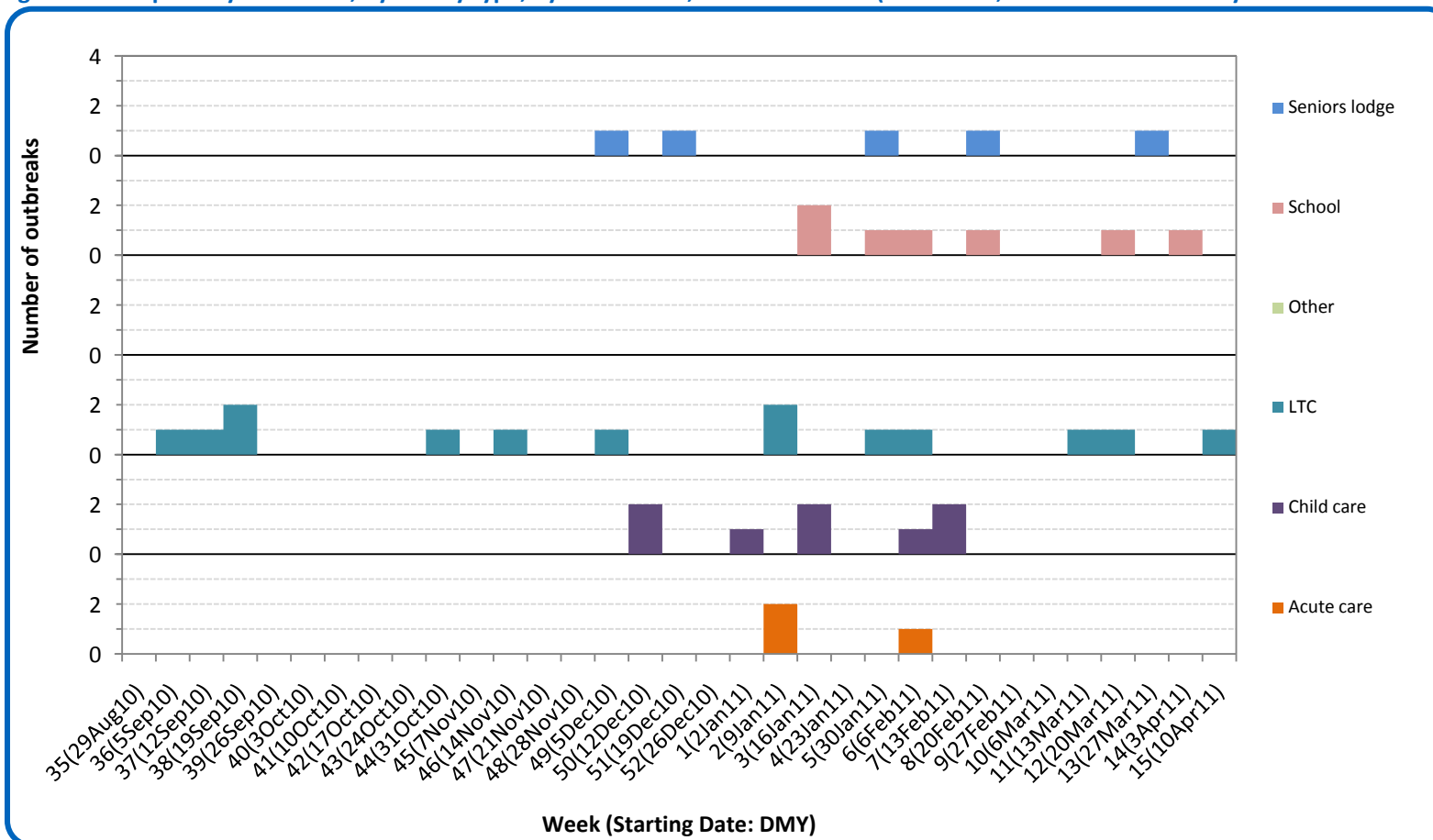
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 16, 2011. LTC stands for long term care facility.
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

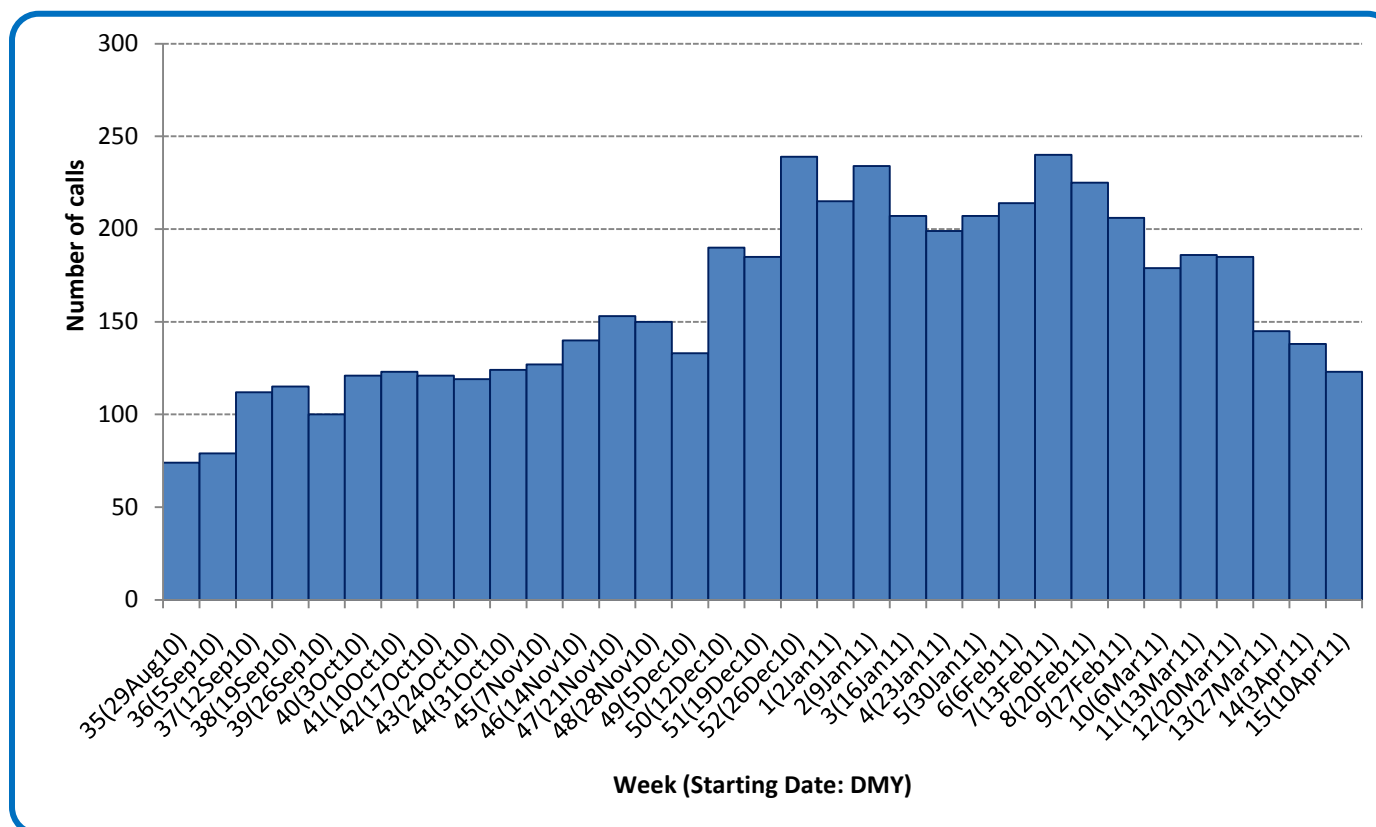
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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 Apr 16, 2011.
 For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

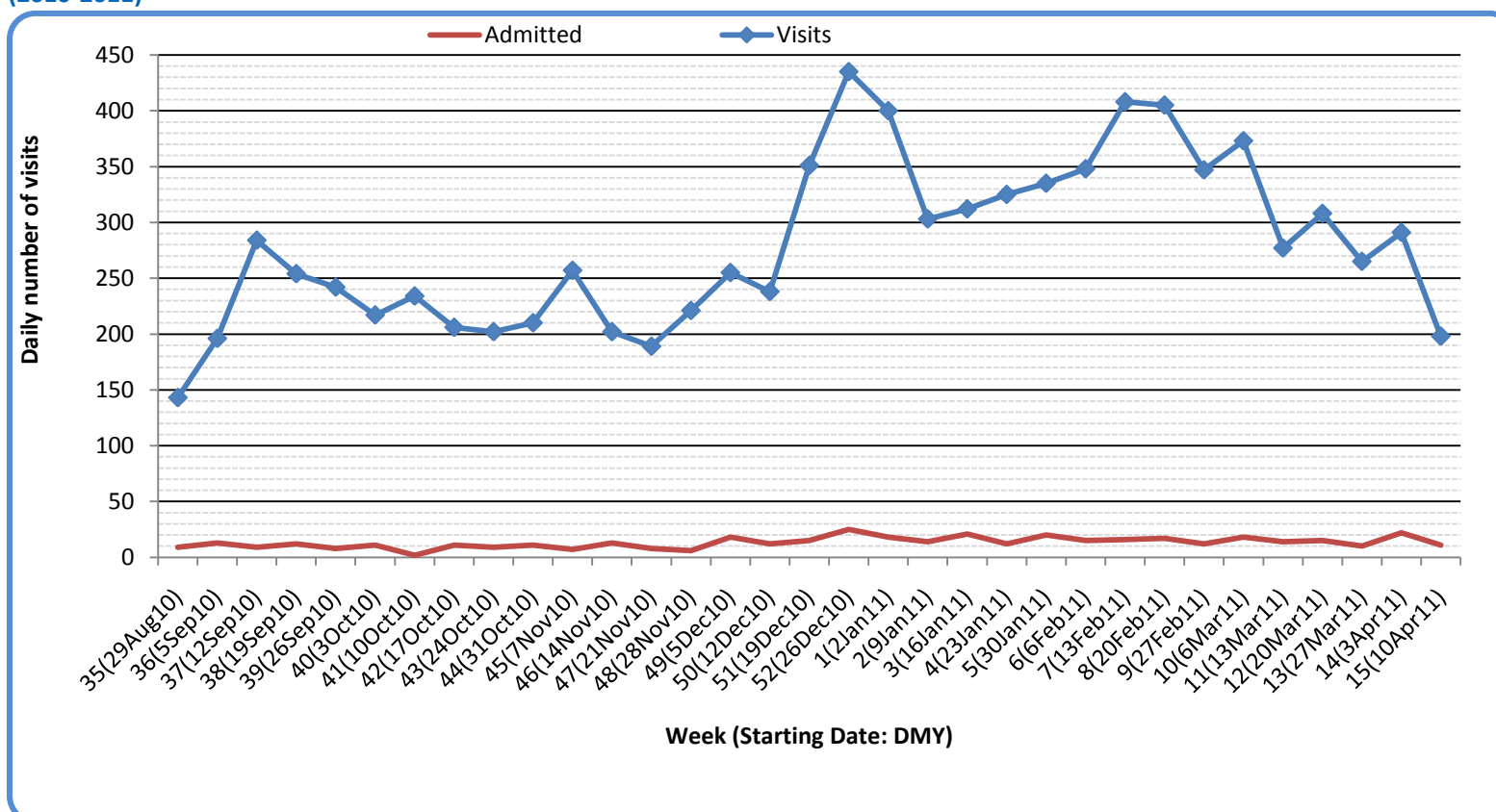
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Source: Alberta Real Time Syndromic Surveillance (ARTSSN) as of 23:59 on Apr 16, 2011.
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

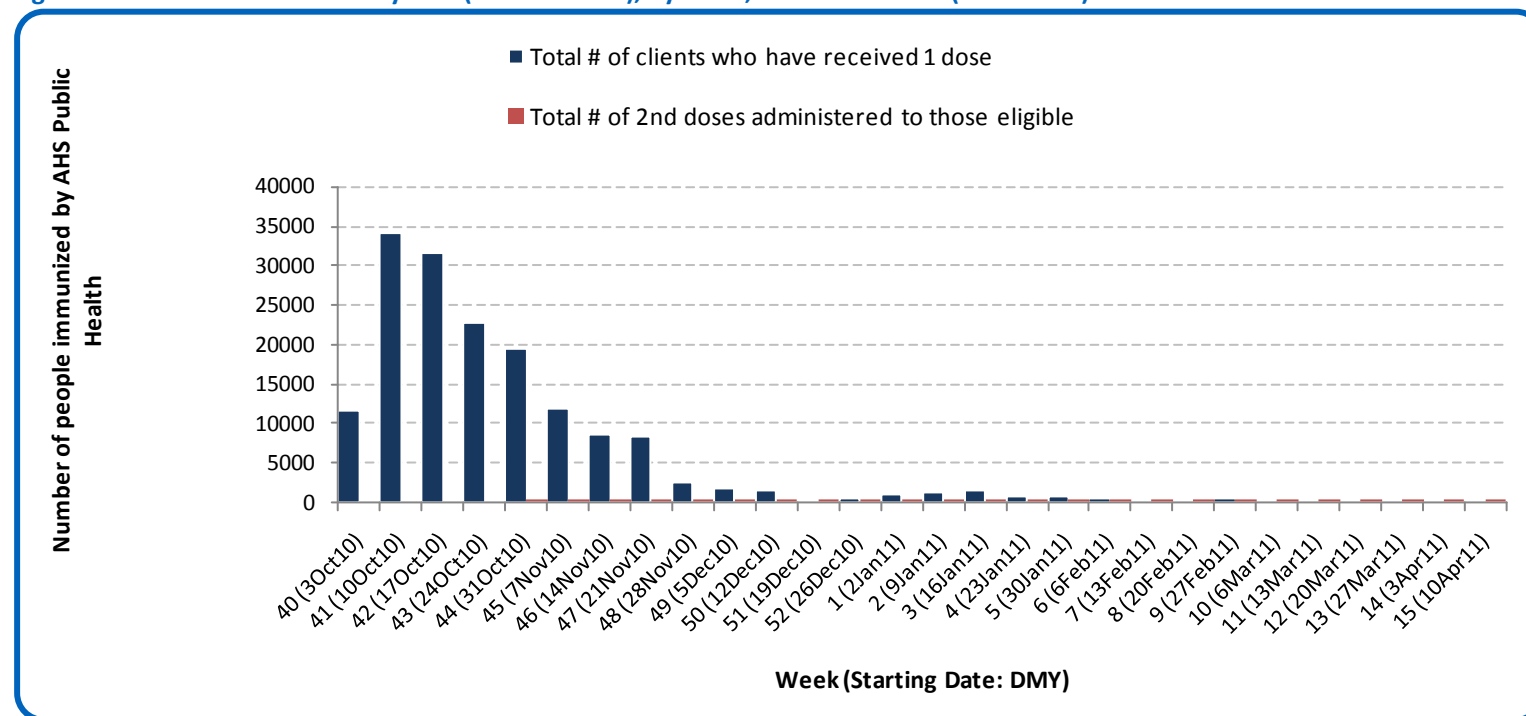
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



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

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)
Table 5C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, Edmonton Zone (2010-2011)

Priority Group		# Immunized (Week 15 – Apr 10-Apr 16, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		1	330
Health care workers		3	4,823
Pregnant women		0	1,452
Residents of long term care		0	1,051
65 years of age and over		1	48,513
All children 6 months up to and including 23 months*	Dose #1	32	6,827
	Dose #2	18	2,349
All children 24 months up to and including 59 months*	Dose #1	0	7,204
	Dose #2	4	413
High risk: 5 years up to and including 8 years*	Dose #1	2	1,359
	Dose #2	0	39
High risk: 9 years up to and including 64 years		8	17,185
Healthy: 5 years up to and including 8 years*	Dose #1	1	5,498
	Dose #2	2	182
Healthy: 9 years up to and including 64 years		27	68,103
Total number of clients who have received 1 dose		75	162,345
Total number of 2nd doses administered to those eligible*		24	2,983

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

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

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)
Table 5D: Influenza immunizations delivered by external partners, by priority group, Edmonton Zone (Oct 3-Dec 31, 2010)

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

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

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

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

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 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

[Back to first page](#)

Summary

Respiratory outbreak activity continues in North Zone. Laboratory data show that several respiratory viruses continue to circulate, including influenza B.

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

Influenza B, RSV and rhino-enterovirus are currently the predominant viruses circulating in North Zone. The number of confirmed influenza B cases increased in Week 15 (Apr 10-16, 2011) from the previous week. The number of confirmed cases of influenza A (H3) and A (H1N1) 2009 continue to decline. So far this season, 269 cases of influenza have been confirmed in North Zone. At this point in time, the age specific rate for confirmed influenza (all types) among infants under the age of 2 years is much higher than the rate for any other age group (34.4 per 10,000 compared to 15.3 per 10,000 or lower).

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

Since the last report, there have been two respiratory outbreaks reported in North Zone. One occurred in a seniors' lodge and the other occurred in a school. The onset of symptoms for these outbreaks occurred in Week 15 (Apr 10-16, 2011) and Week 10 (Mar 6-12, 2011), respectively. Laboratory confirmation for the outbreak in the seniors' lodge is currently pending.

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 has been consistently declining for the past four weeks.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

There are no data available for the North Zone.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

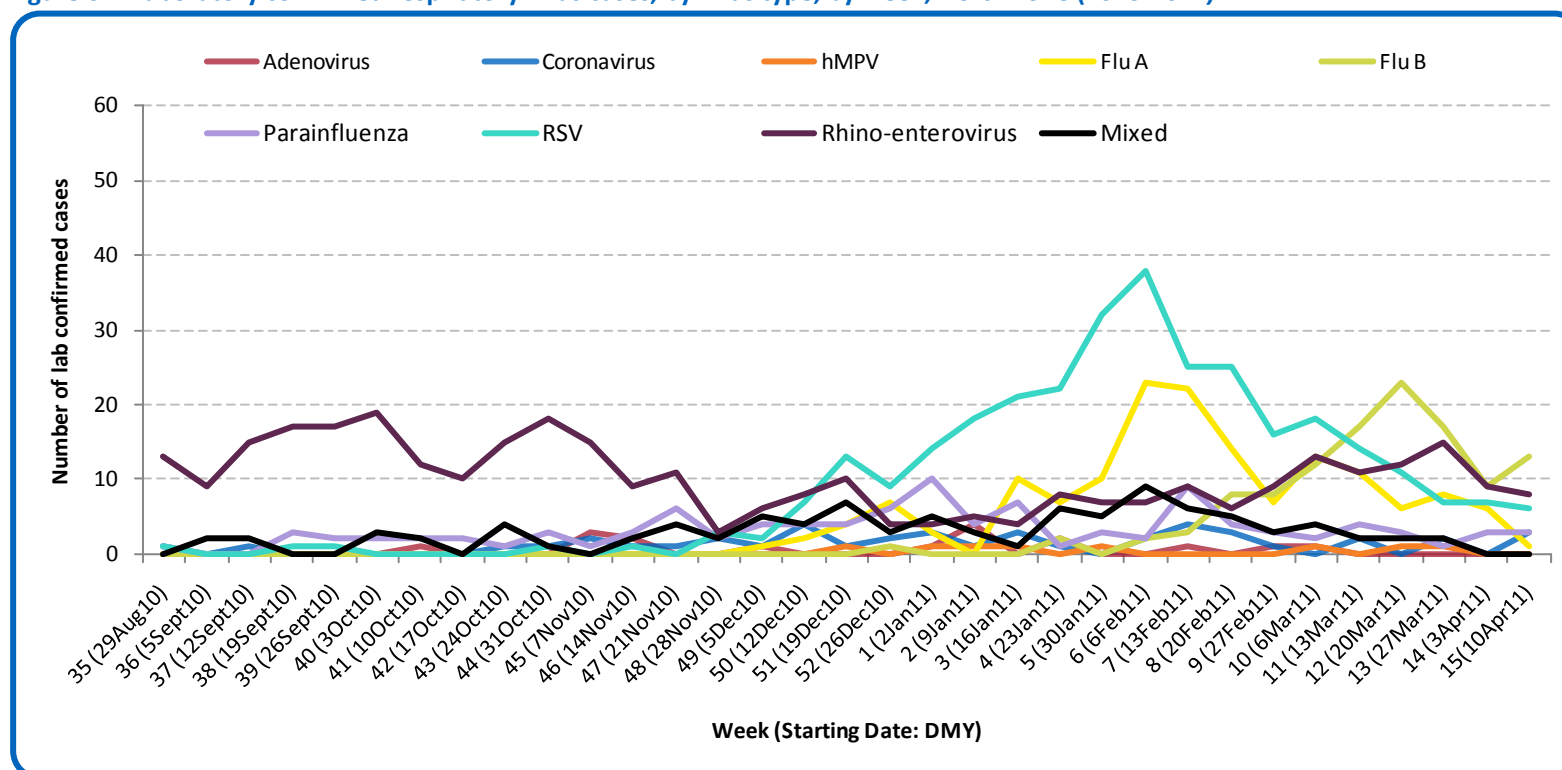
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

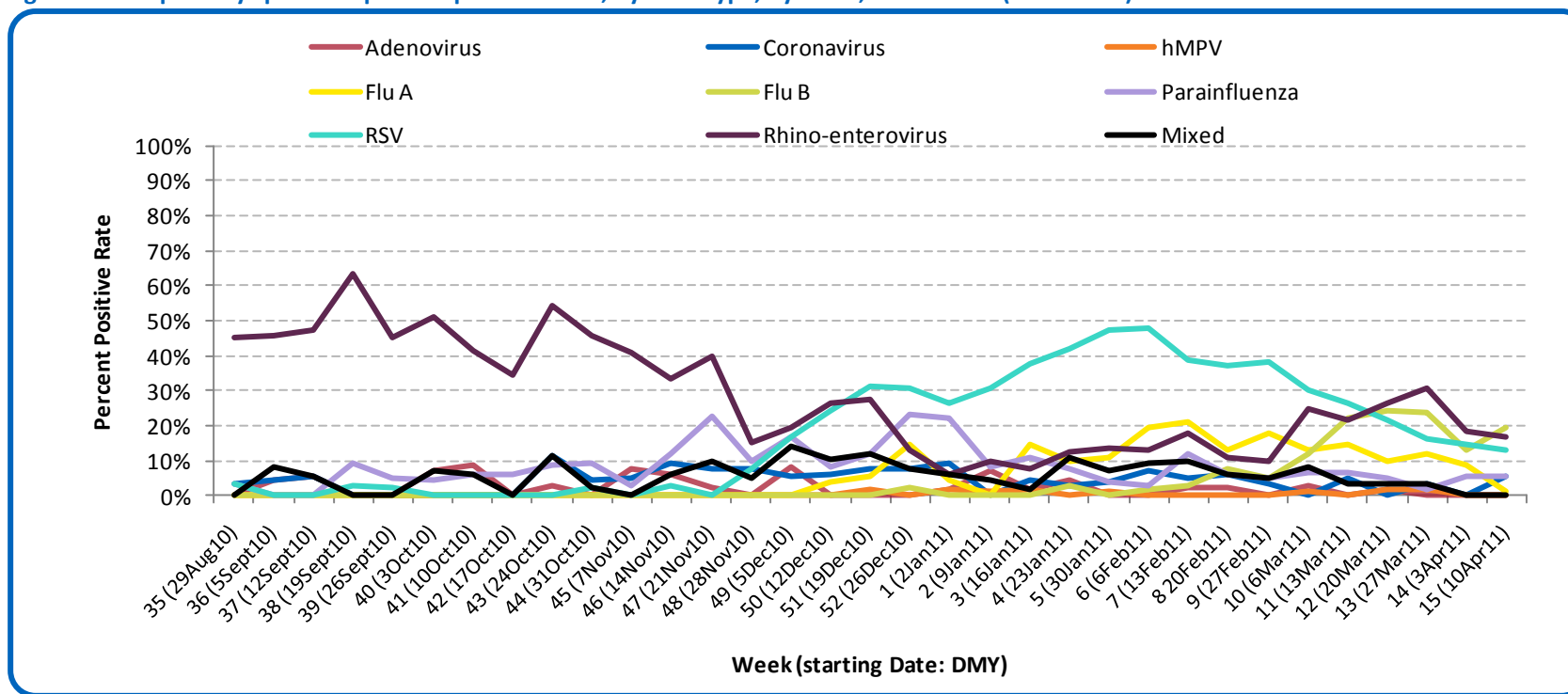
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 16, 2011)
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

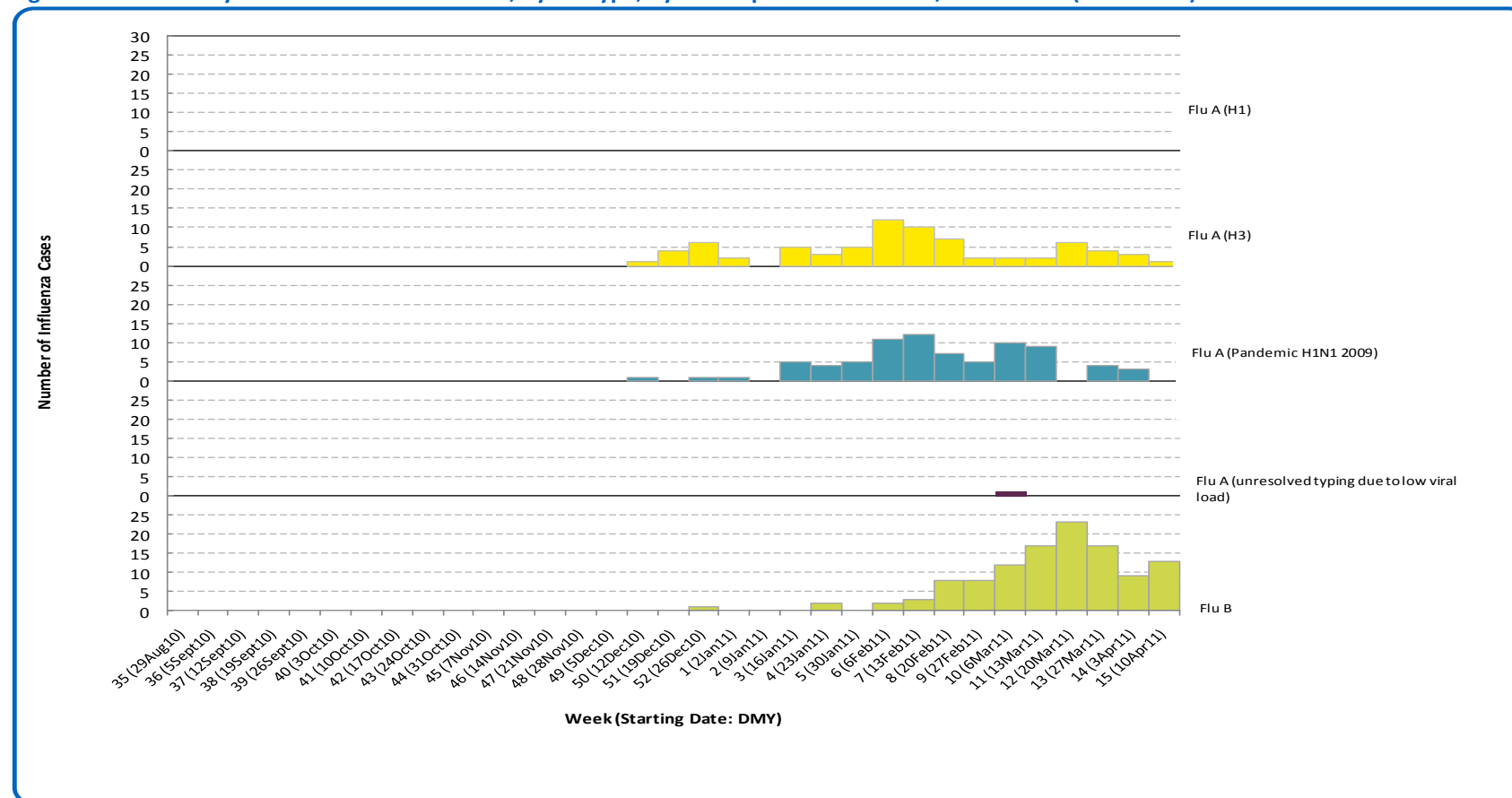
Public Health Surveillance

Report Date: April 19, 2011

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[Back to start of section](#)

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



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

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 2011).

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)
Table 6A: New influenza cases (and age specific rates), by subtype, by age group, North Zone (Week 15: Apr 10-16, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	1	0.7
2 to <5 years	0	0.0	0	0.0	0	0.0	0	0.0	3	1.5	3	1.5
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	1	0.2	1	0.2
18 to <65 years	0	0.0	0	0.0	0	0.0	0	0.0	7	0.2	7	0.2
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.5	1	0.5
75+ years	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0	1	0.6
Total	0	0.0	1	<0.1	0	0.0	0	0.0	13	0.3	14	0.3

Table 6B: Cumulative influenza cases (and age specific rates), by subtype, by age group, North Zone (Aug 29, 2010-Apr 16, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	14	9.8	17	11.9	1	0.7	17	11.9	49	34.4
2 to <5 years	0	0.0	7	3.4	4	2.0	0	0.0	20	9.9	31	15.3
5 to <9 years	0	0.0	11	4.5	5	2.1	0	0.0	13	5.3	29	11.9
9 to <18 years	0	0.0	9	1.6	11	2.0	0	0.0	18	3.2	38	6.8
18 to <65 years	0	0.0	26	0.9	41	1.5	0	0.0	42	1.5	109	3.9
65 to <75 years	0	0.0	2	0.9	0	0.0	0	0.0	5	2.3	7	3.2
75+ years	0	0.0	6	3.8	0	0.0	0	0.0	0	0.0	6	3.8
Total	0	0.0	75	1.7	78	1.8	1	<0.1	115	2.6	269	6.2

Source for Tables 6A & 6B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 16, 2011).

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

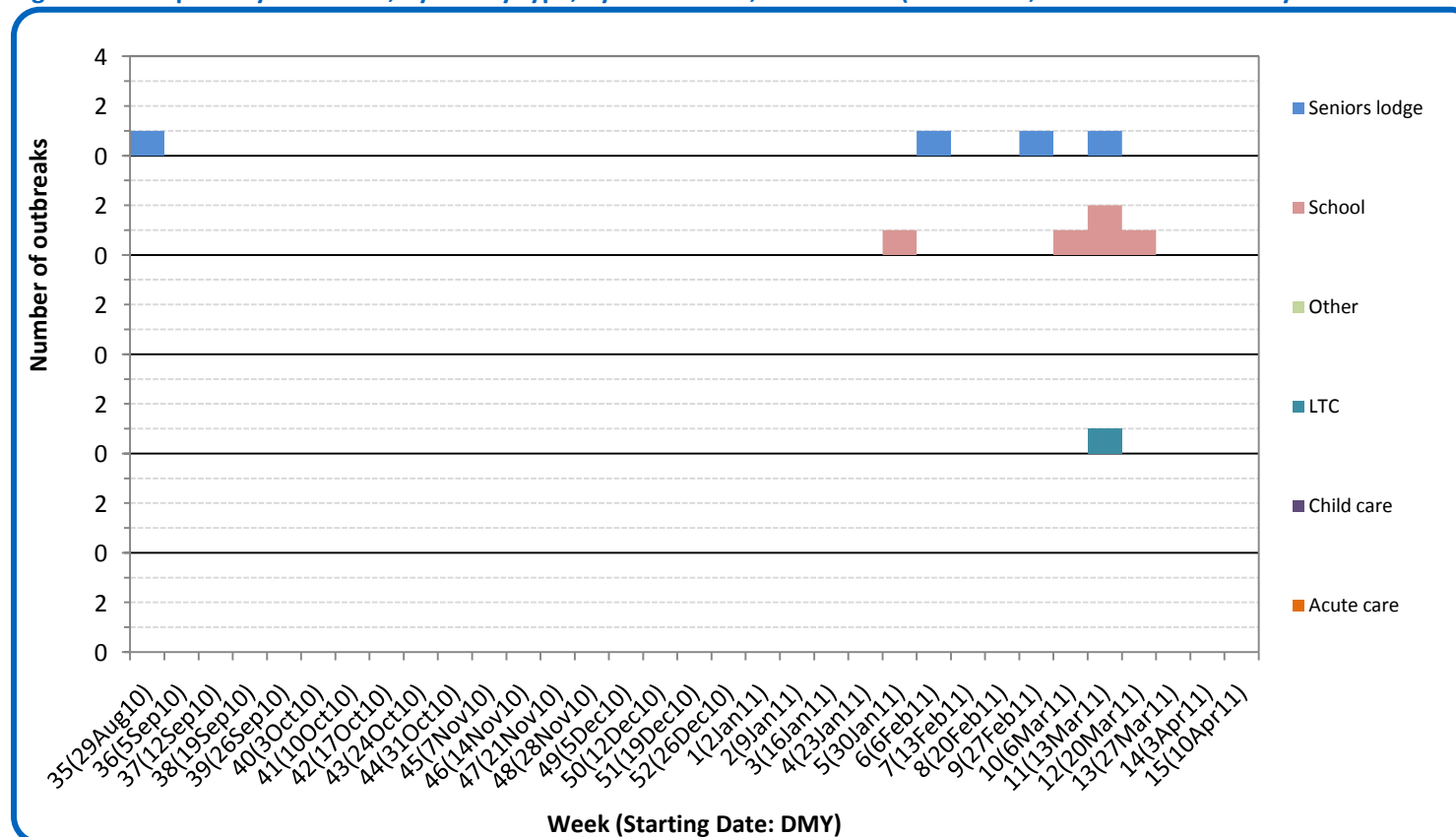
Public Health Surveillance

Report Date: April 19, 2011

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[Back to start of section](#)

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



Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 16, 2011. LTC stands for long term care facility.
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

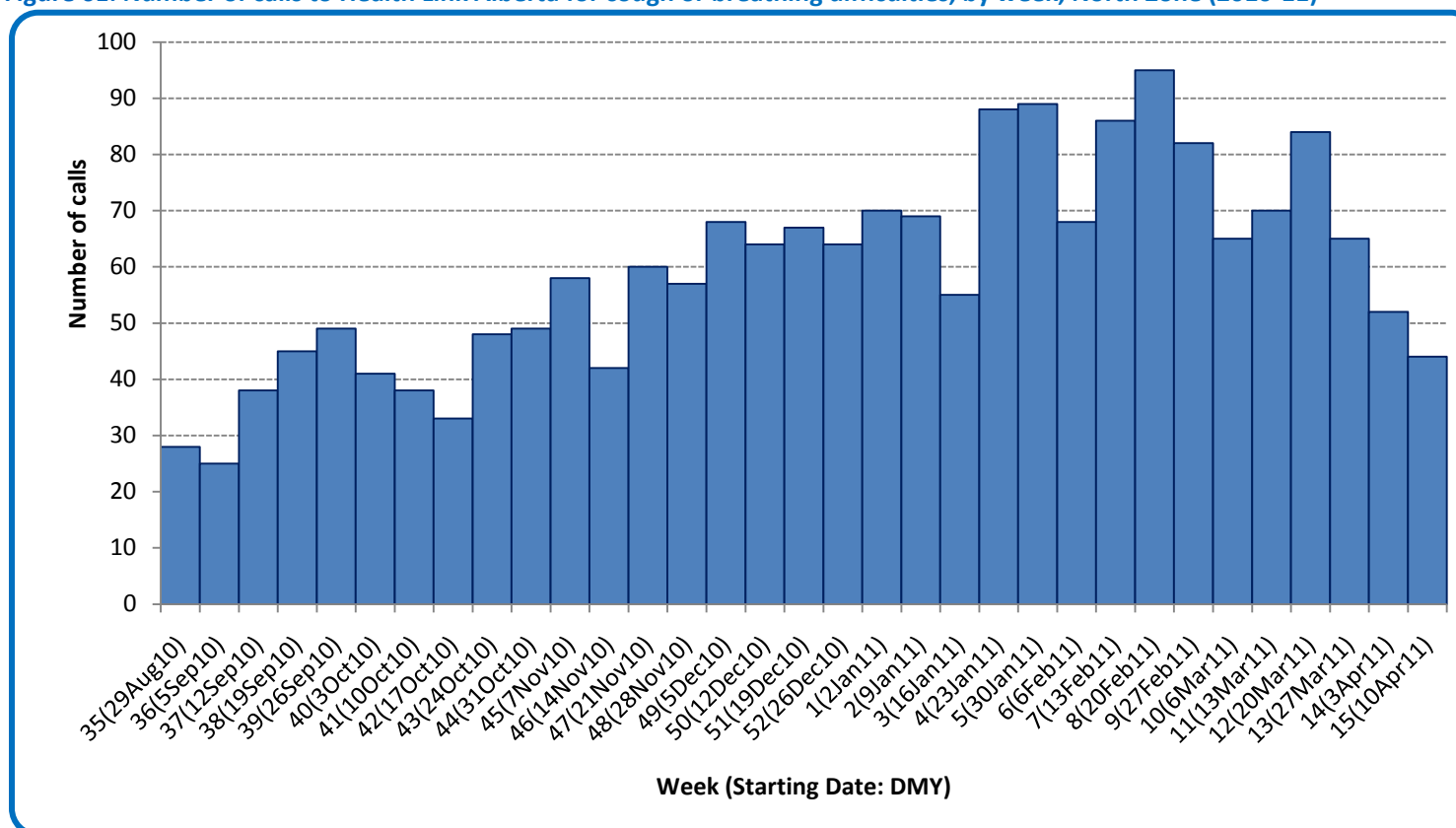
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 16, 2011.
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

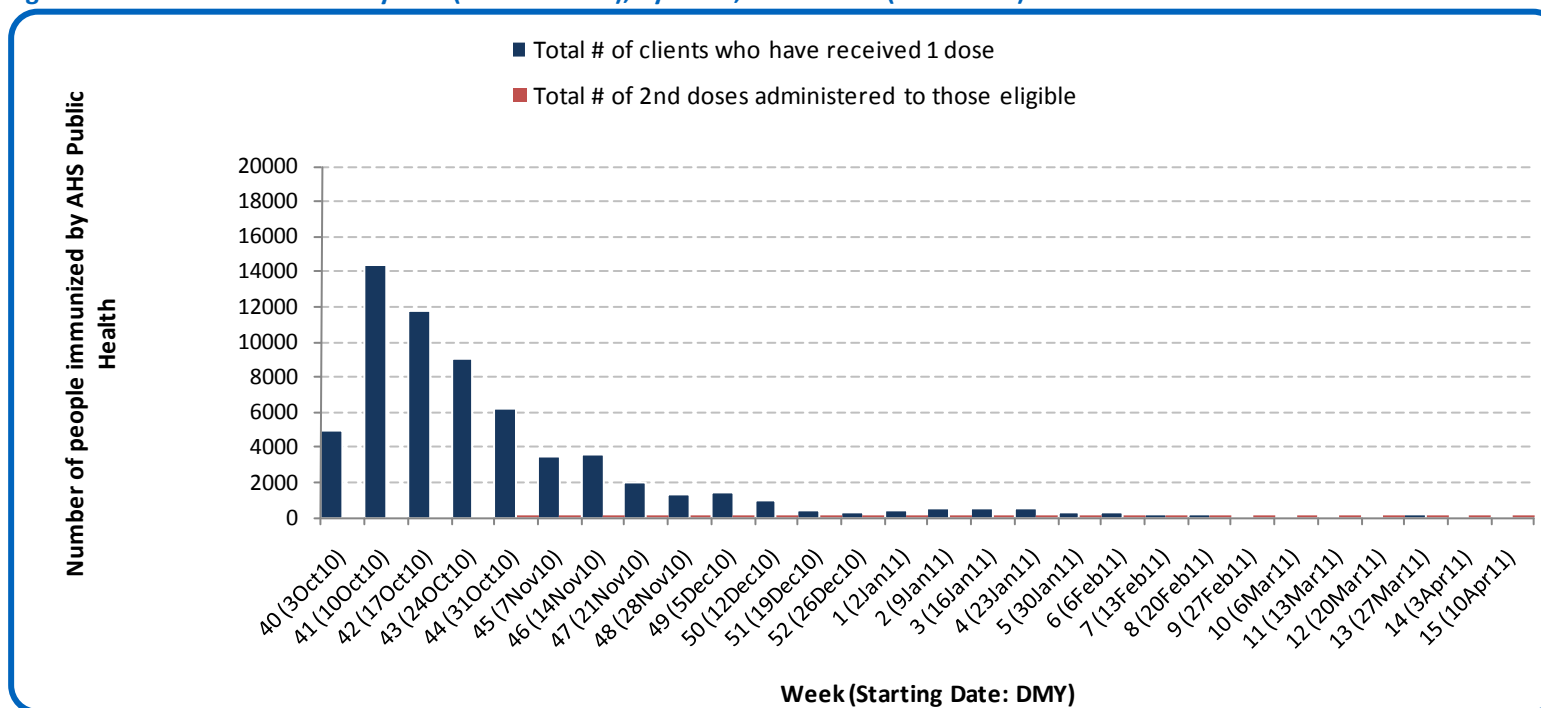
Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)

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](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)
Table 6C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, North Zone (2010-2011)

Priority Group		# Immunized (Week 15 – Apr 10-Apr 16, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		0	820
Health care workers		7	4,720
Pregnant women		1	573
Residents of long term care		0	1,249
65 years of age and over		0	15,811
All children 6 months up to and including 23 months*	Dose #1	7	2,451
	Dose #2	9	938
All children 24 months up to and including 59 months*	Dose #1	3	2,569
	Dose #2	1	142
High risk: 5 years up to and including 8 years*	Dose #1	0	964
	Dose #2	0	12
High risk: 9 years up to and including 64 years		5	7,877
Healthy: 5 years up to and including 8 years*	Dose #1	0	2,482
	Dose #2	0	63
Healthy: 9 years up to and including 64 years		21	23,645
Total number of clients who have received 1 dose		44	63,161
Total number of 2nd doses administered to those eligible*		10	1,155

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

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

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 2011

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

[Back to start of section](#)
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](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 2011

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ANNEX: DATA NOTES

[Back to first page](#)

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.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: April 19, 2011

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OUTBREAKS

[Back to first page](#)

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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