

Weekly Report

May 3rd, 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?

- According to the most recent report from the World Health Organization (WHO), global influenza activity continues to be low. Activity in the Northern hemisphere has returned to baseline levels in most areas, indicating that the influenza season is ending. With the exception of a few reports of recent localized activity and some continuing ongoing transmission of influenza A (H3N2) in central Africa (particularly the Democratic Republic of Congo and Rwanda), activity in the tropical zone is also low. The viruses that are being identified are still largely related to those included in the current trivalent seasonal influenza vaccine.
- There has been no indication that seasonal influenza activity has started in the Southern hemisphere, although Australia has recently reported low but unusual levels of influenza A (H3N2), particularly in the Northern Territory and Queensland areas.
- Influenza activity continues to decrease in the United States.
- In Canada, influenza activity is also declining, although slightly more outbreaks were reported in the Atlantic provinces in Week 16 (Apr 17-23, 2011) compared to the week prior to that.
- In Alberta, despite slight increases in the number of influenza cases confirmed in Calgary, Central and Edmonton Zones in Week 17 (Apr 24-30, 2011) compared to the week prior to that, influenza activity does appear to be declining overall. Several other viruses, including parainfluenza, coronavirus and RSV continue to circulate, particularly in Central, Edmonton and North Zones. As of the end of last week (Apr 30, 2011), the total number of influenza cases confirmed in the province this season is 1467, of which 36.5% have been identified as influenza A (H3), 16.5% as influenza A (H1N1) 2009, 45.1% as influenza type B, and 1.8% influenza A with unresolved sub-typing.
- Three recent respiratory outbreaks, mentioned in previous updates, have now been confirmed in Alberta. They include one in an Edmonton Zone seniors' lodge attributed to coronavirus with a final attack rate of 5%. The onset of symptoms occurred in Week 16 (Apr 17-23, 2011). The other two outbreaks both occurred in Central Zone and included one in a seniors' lodge attributed to both parainfluenza and RSV and one in a long term care facility attributed to parainfluenza. The attack rates for these were 12% and 20%, respectively. The onset of symptoms for both of these outbreaks occurred in Week 14 (Apr 3-9, 2011). In addition to the outbreaks recently confirmed, one new respiratory outbreak was reported in a Central Zone seniors' lodge. The onset of symptoms occurred in Week 15 (Apr 10-16, 2011) and the preliminary attack rate was 16%. Laboratory confirmation is currently pending.

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

Alberta Snapshot

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Indicators			Cumulative Counts					Alberta
			Week 35 (starting Aug 29/10) to Week 17 (starting Apr 24/11)					
			South	Calgary	Central	Edmonton	North	
Laboratory Confirmed Cases	Number of cases with a positive respiratory specimen ¹	Adenovirus	9	44	13	89	18	173
		Coronavirus	13	74	43	125	46	301
		Human metapneumovirus (hMPV)	9	18	4	25	8	64
		Influenza A	47	204	125	272	157	805
		Influenza B	92	172	68	202	128	662
		Parainfluenza	36	118	65	241	114	574
		Respiratory syncytial virus (RSV)	123	478	211	778	335	1925
		Rhino enterovirus	115	525	213	731	356	1940
		Mixed	39	163	55	173	98	528
		Total	483	1796	797	2636	1260	6972
Outbreaks	# laboratory confirmed respiratory outbreaks ²	0	23	17	38	7	85	
Influenza Immunizations	Total number of clients who have received 1 dose administered by AHS Public Health ³ (cumulative since Oct 3, 2010)	43,452	194,345	61,961	162,512	63,168	525,438	
	The reported number of people who have received 1 dose administered by external providers (Oct 3-Mar 31, 2011) ⁴	18,888	138,267	18,813	98,848	6,312	281,128	

-- Information not available

*Note: 28 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 30, 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: May 3, 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

Influenza activity has been declining in Alberta over the last several weeks. Respiratory outbreak activity continues, however the majority of these outbreaks have been attributed to viruses other than influenza; specifically RSV, coronavirus and parainfluenza. Laboratory data indicates rhino-enterovirus activity is gradually increasing.

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

The number of Influenza cases confirmed in the province in Week 17 (Apr 24-30, 2011) remained virtually the same as the number confirmed the previous week. Generally though, influenza activity has been declining over the last several weeks. Rhino-enterovirus is currently the predominant virus circulating. As of the end of last week (Apr 30, 2011), the total number of confirmed cases of influenza in the province this season is 1467 (36.5% influenza A (H3), 16.5% influenza A (H1N1) 2009, 45.1% influenza type B, and 1.8% 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 20.5 per 10,000 compared to 9.3 per 10,000 or lower for all other age groups.

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

Three new respiratory outbreaks, which were mentioned in previous updates, have now been confirmed. These include one coronavirus outbreak in an Edmonton Zone seniors' lodge with an attack rate of 5% for which the onset of symptoms occurred in Week 16 (Apr 17-23, 2011). The remaining two outbreaks both occurred in Central Zone, including one in a seniors' lodge attributed to parainfluenza and RSV and one in a long term care facility attributed to parainfluenza. The final attack rates for these were 12% and 20%, respectively. The onset of symptoms for both of these outbreaks occurred in Week 14 (Apr 3-9, 2011).

In addition to those confirmed, one additional respiratory outbreak was reported in Week 17 (Apr 24-30, 2011) in a Central Zone seniors' lodge. The onset of symptoms occurred in Week 15 (Apr 10-16, 2011) and the preliminary attack rate was 16%. Laboratory confirmation is currently pending.

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

The number of calls to Health Link Alberta for cough or breathing difficulties continues on a decreasing trend.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

The number of visits to emergency departments/urgent care centers (ED's) and hospital admissions for influenza-like illness (ILI) in the City of Calgary and Edmonton Zone decreased by 28% and 29%, respectively, in Week 17 (Apr 24-30, 2011) from the previous week. Generally, both of these indicators have been declining over the last several weeks.

The number of emergency department visits and hospital admissions for cough decreased by 18% and 9%, respectively, in Week 17 (Apr 24-30, 2011) from the previous week. Generally, both indicators have been declining over the last several weeks.

Sentinel Physician Office Visits

The combined percentage of ILI- and LRTI-related visits of all visits to sentinel physician offices in Alberta remained virtually unchanged in Week 16 (Apr 17-23, 2011) compared to the previous week. This indicator has been fluctuating in recent weeks.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

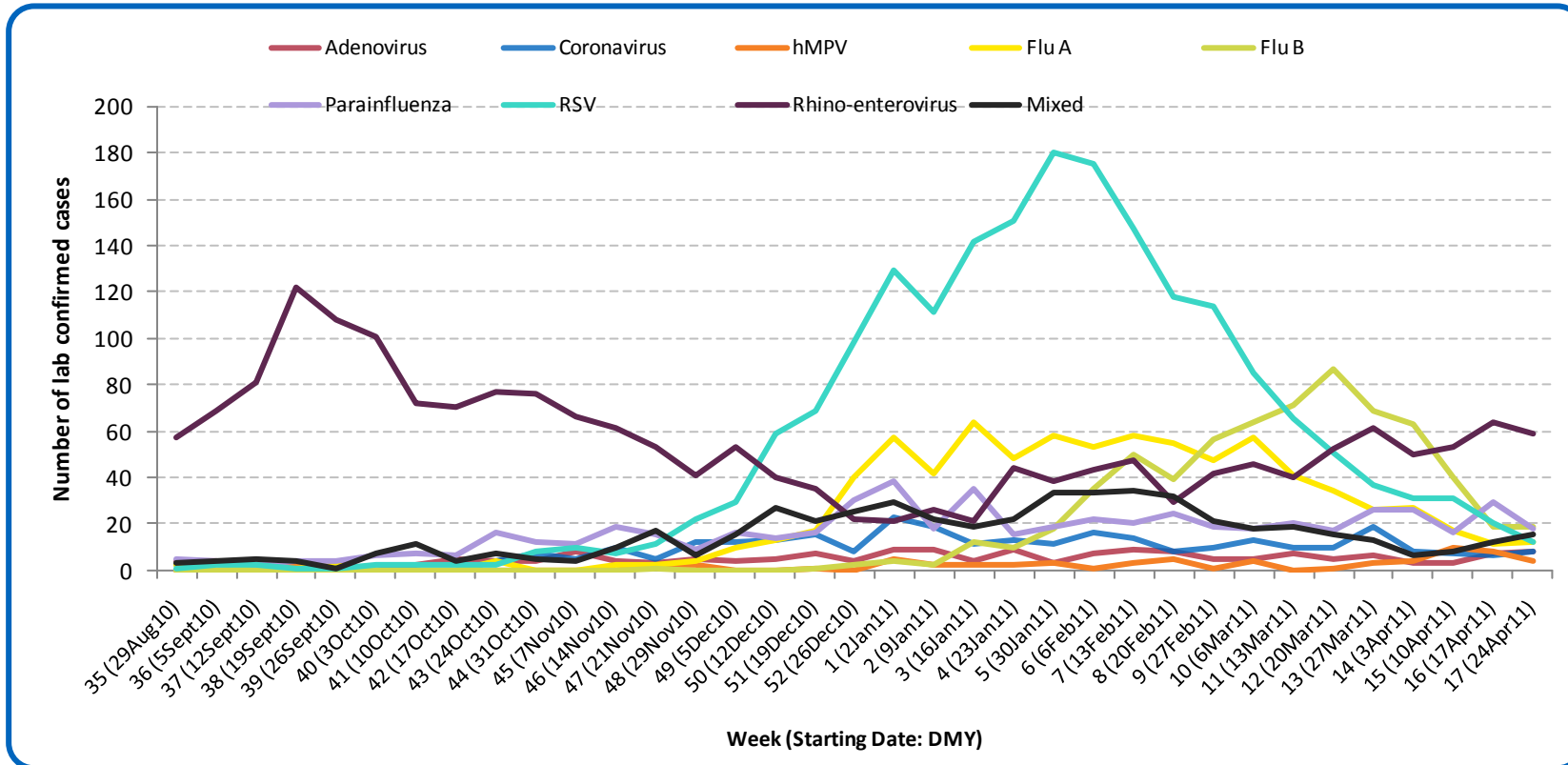
Public Health Surveillance

Report Date: May 3, 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 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 30, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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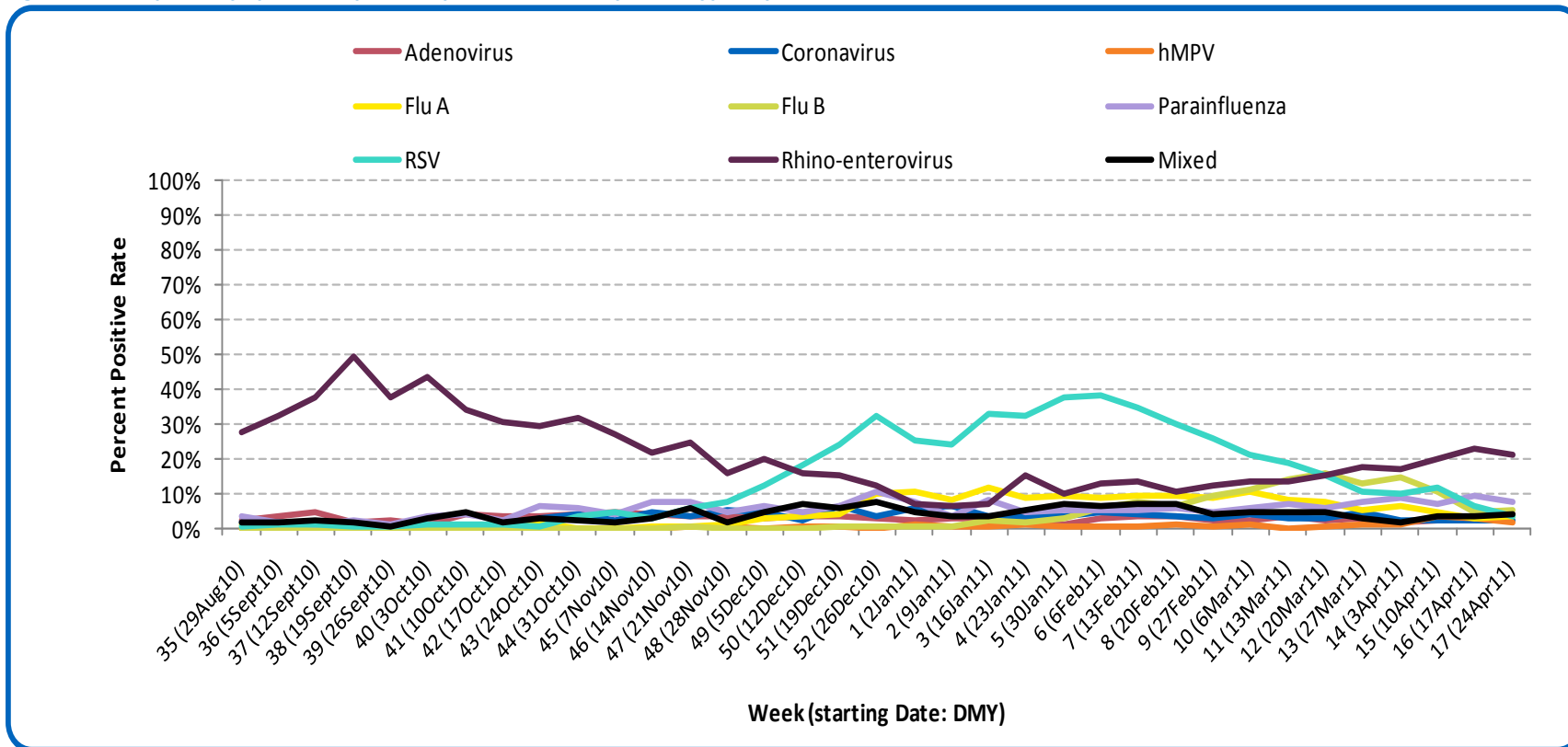
Public Health Surveillance

Report Date: May 3, 2011

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



Sources: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 30, 2011).
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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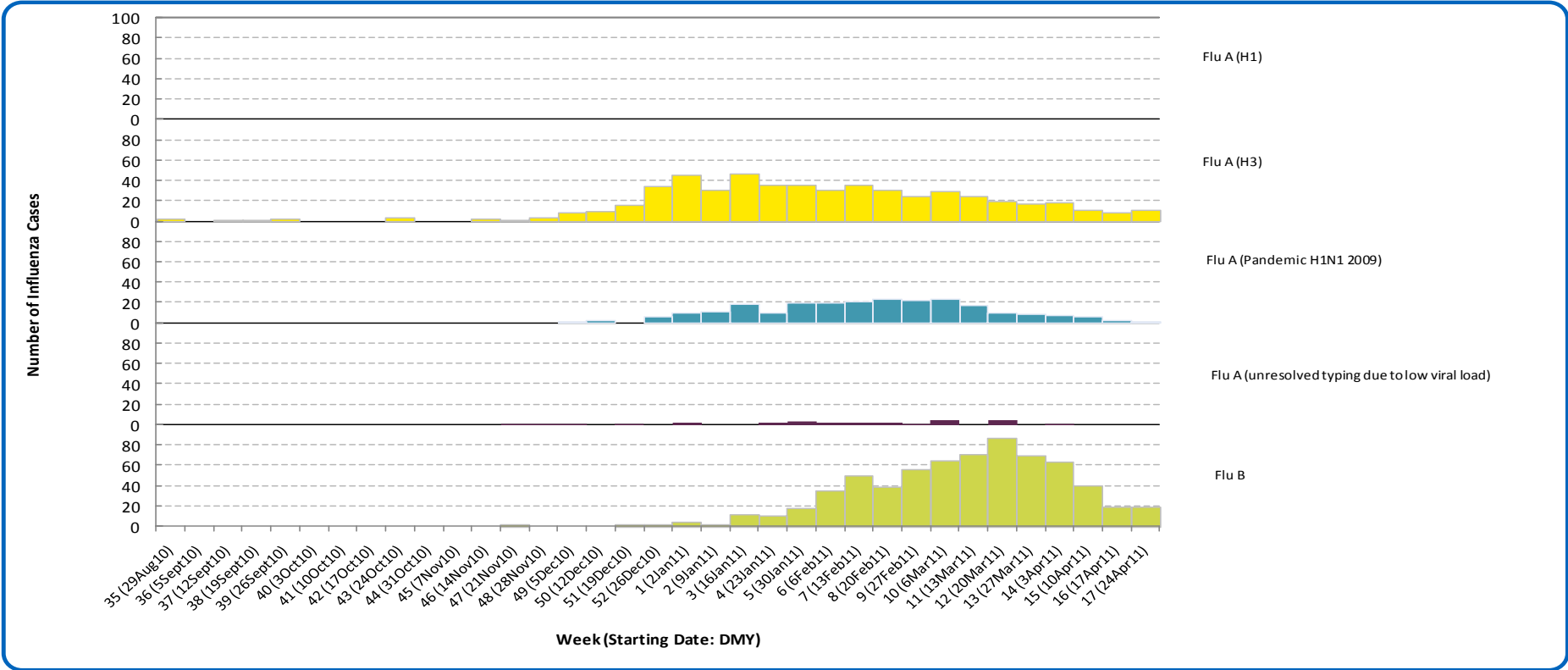
Public Health Surveillance

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



*Note: 28 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 30, 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 17: Apr 24-30, 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	0	0.0	0	0.0	5	0.5	8	0.8
2 to <5 years	0	0.0	1	0.1	0	0.0	0	0.0	1	0.1	2	0.1
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	3	0.2	3	0.2
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	1	0.0
18 to <65 years	0	0.0	1	<0.1	1	<0.1	0	0.0	6	0.0	8	0.0
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1	2	0.1
75+ years	0	0.0	6	0.3	0	0.0	0	0.0	1	0.1	7	0.4
Total	0	0.0	11	<0.1	1	<0.1	0	0.0	19	0.1	31	0.1

Table 1B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Alberta (Aug 29, 2010 – Apr 30, 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	81	7.8	31	3.0	5	0.5	95	9.2	212	20.5
2 to <5 years	0	0.0	44	3.0	16	1.1	2	0.1	76	5.1	138	9.3
5 to <9 years	0	0.0	37	2.1	10	0.6	2	0.1	94	5.2	143	8.0
9 to <18 years	0	0.0	31	0.7	18	0.4	3	0.1	135	3.2	187	4.5
18 to <65 years	0	0.0	215	0.9	163	0.7	12	0.0	218	0.9	608	2.5
65 to <75 years	0	0.0	24	1.1	3	0.1	0	0.0	25	1.2	52	2.4
75+ years	0	0.0	104	5.6	1	0.1	3	0.2	19	1.0	127	6.9
Total	0	0.0	536	1.5	242	0.7	27	0.1	662	1.8	1467	4.0

Source for Table 1A & 1B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 30, 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

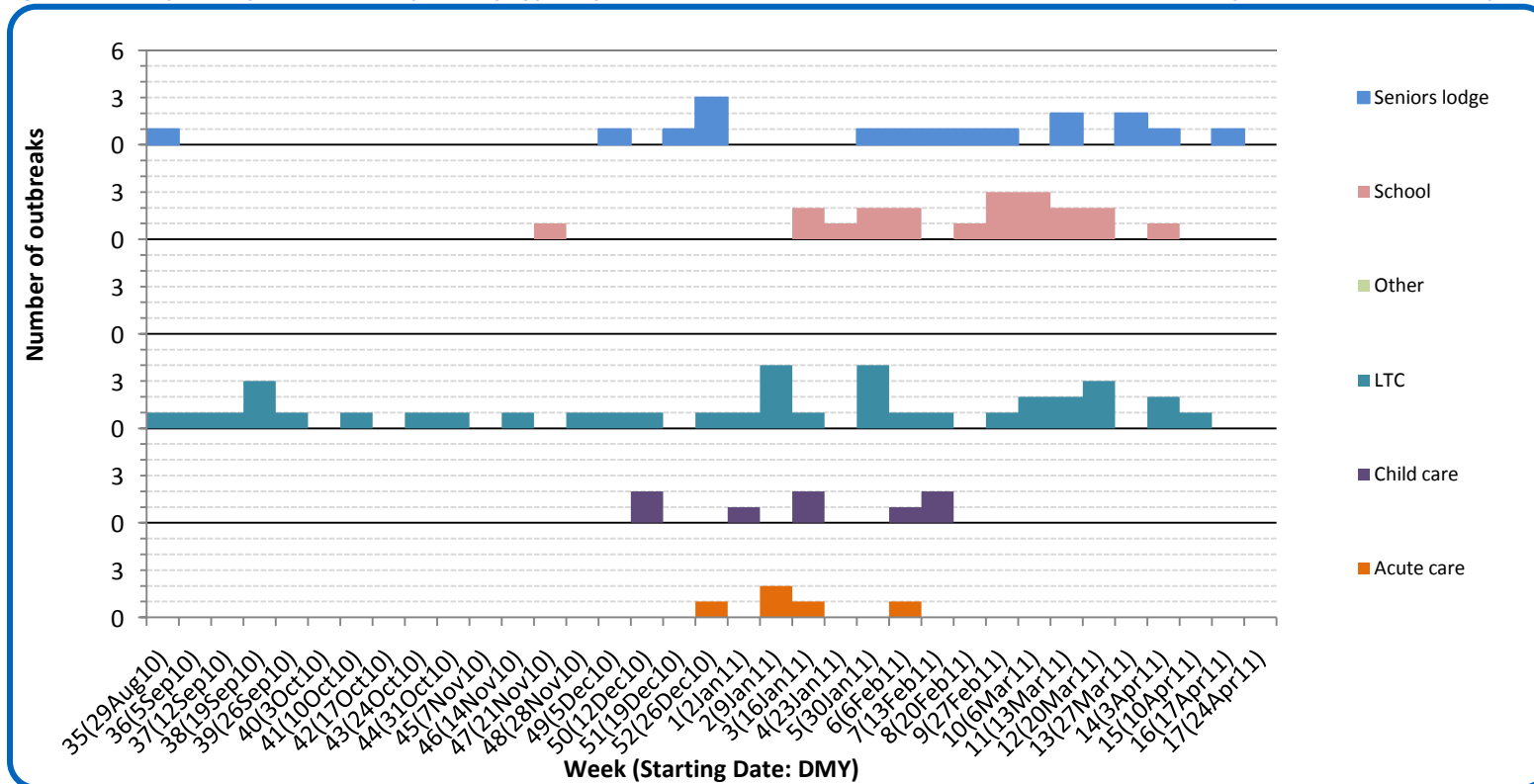
Public Health Surveillance

Report Date: May 3, 2011

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



Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 30, 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

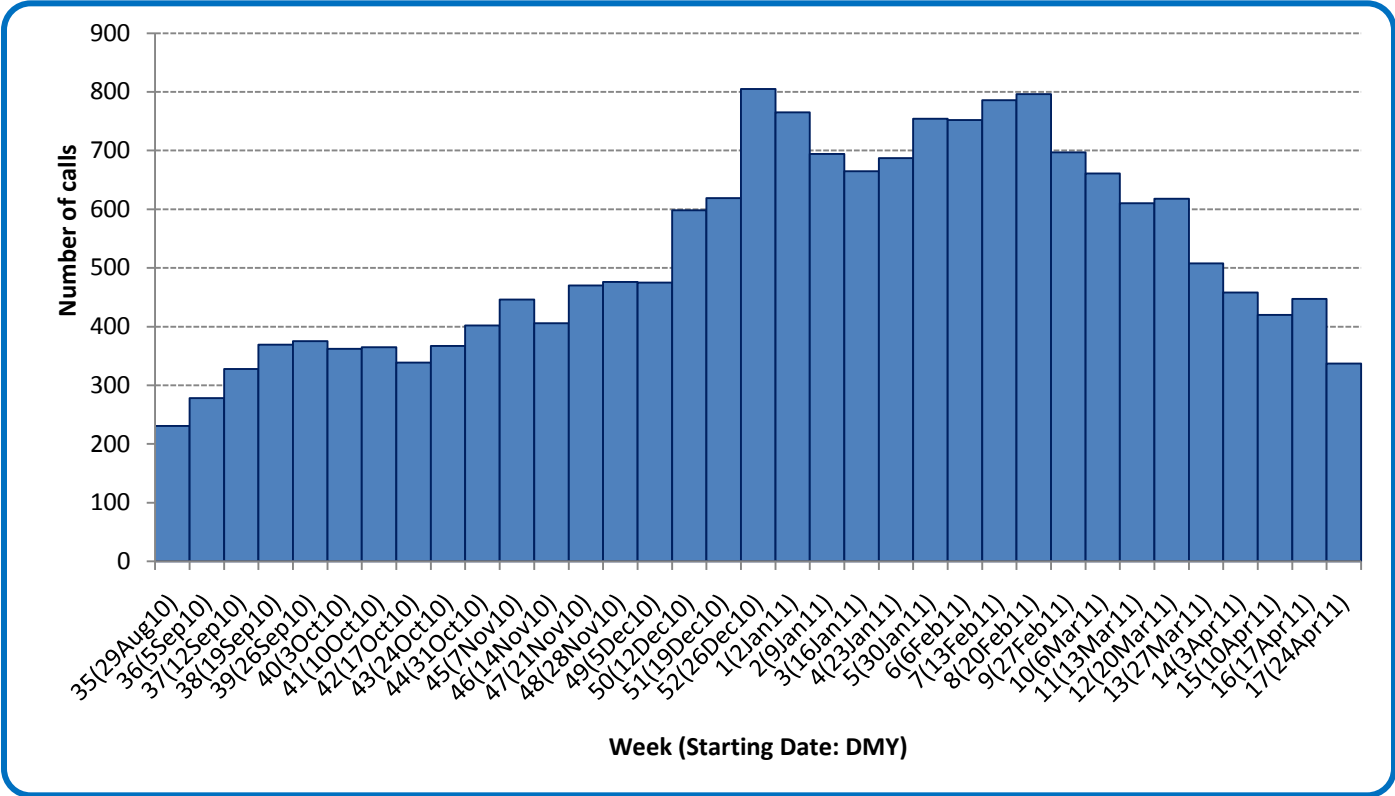
Public Health Surveillance

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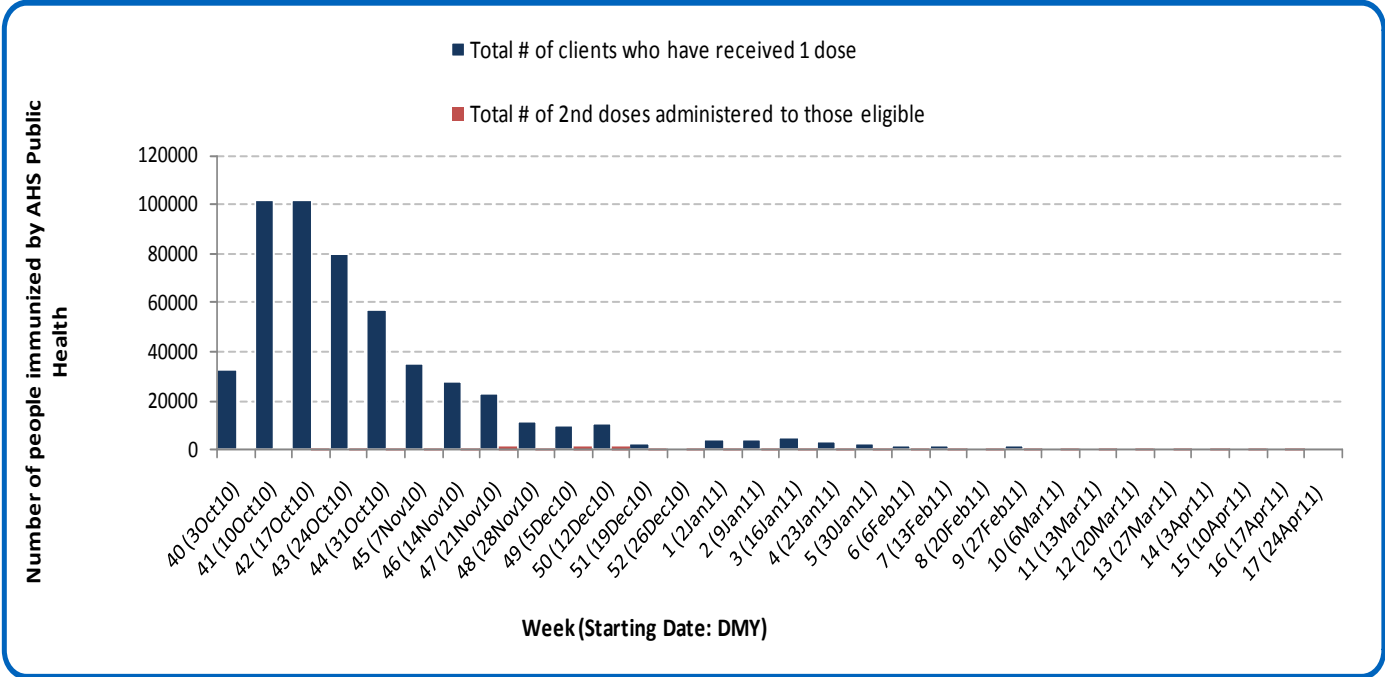
Figure 1E: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, Alberta (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 30, 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 17 – Apr 24-Apr 30, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff	1	2,651
Health care workers	10	19,114
Pregnant women	3	4,768
Residents of long term care	0	4,842
65 years of age and over	20	146,836
All children 6 months up to and including 23 months*	Dose #1	56
	Dose #2	373
All children 24 months up to and including 59 months*	Dose #1	12
	Dose #2	23
High risk: 5 years up to and including 8 years*	Dose #1	1
	Dose #2	1
High risk: 9 years up to and including 64 years	12	56,145
Healthy: 5 years up to and including 8 years*	Dose #1	7
	Dose #2	7
Healthy: 9 years up to and including 64 years	112	212,228
Total number of clients who have received 1 dose	234	525,438
Total number of 2nd doses administered to those eligible*	404	12,860

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: May 3, 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 1D: Influenza immunizations delivered by external partners, by priority group, Alberta (Oct 3-Mar 31, 2011)

Priority Group		# Immunized Oct 3, 2010-Mar 31, 2011
Long term care staff		12,837
Health care workers		42,981
Pregnant women		2,093
Residents of long term care		11,213
65 years of age and over		63,824
All children 6 months up to and including 23 months*	Dose #1	1,105
	Dose #2**	124
All children 24 months up to and including 59 months*	Dose #1	1,155
	Dose #2**	118
High risk: 5 years up to and including 8 years*	Dose #1	1,750
	Dose #2**	20
High risk: 9 years up to and including 64 years		34,116
Healthy: 5 years up to and including 8 years*	Dose #1	2,694
	Dose #2**	56
Healthy: 9 years up to and including 64 years		107,360
Total number of clients who have received 1 dose		281,128
Total number of 2nd doses administered to those eligible*		318

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 second report (for doses delivered from Oct 3 to Mar 31, 2011).

*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: May 3, 2011

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SECTION 2: ZONE 1 - SOUTH

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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 activity continues to decline in South Zone. With only three cases of influenza B cases confirmed in Week 17 (Apr 24-30, 2011), the total number of laboratory confirmed cases of influenza in this part of the province this season is 139. 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](#))

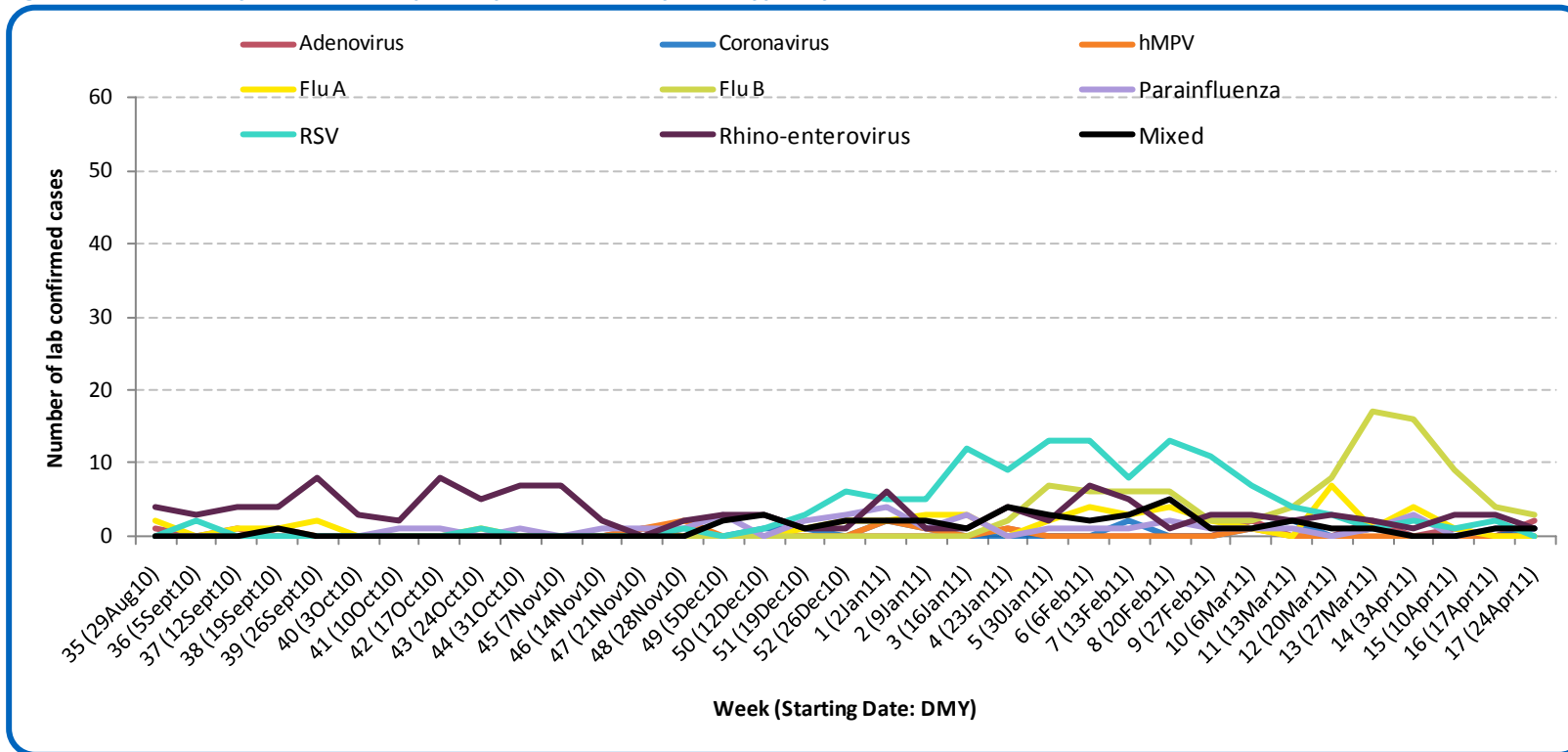
The number of calls to Health Link Alberta for cough or breathing difficulties in the South Zone decreased quite substantially in Week 17 (Apr 24-30, 2011) compared to the previous week. Generally, this indicator has been fluctuating over the last several weeks.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

This information is not available for South Zone.

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



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 30, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

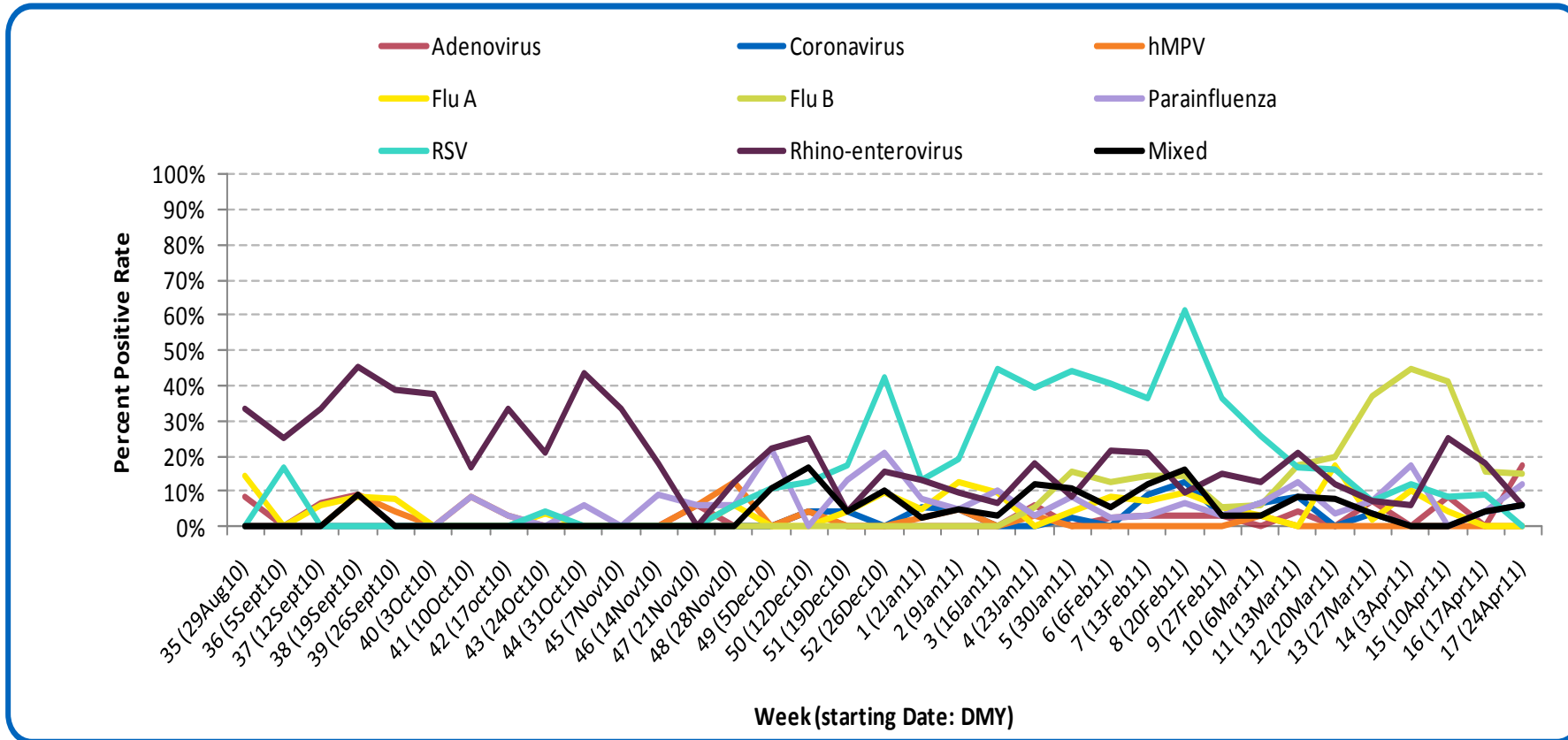
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Figure 2B: Respiratory specimen percent positive rates, by virus type, by week, South Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 30, 2011)
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

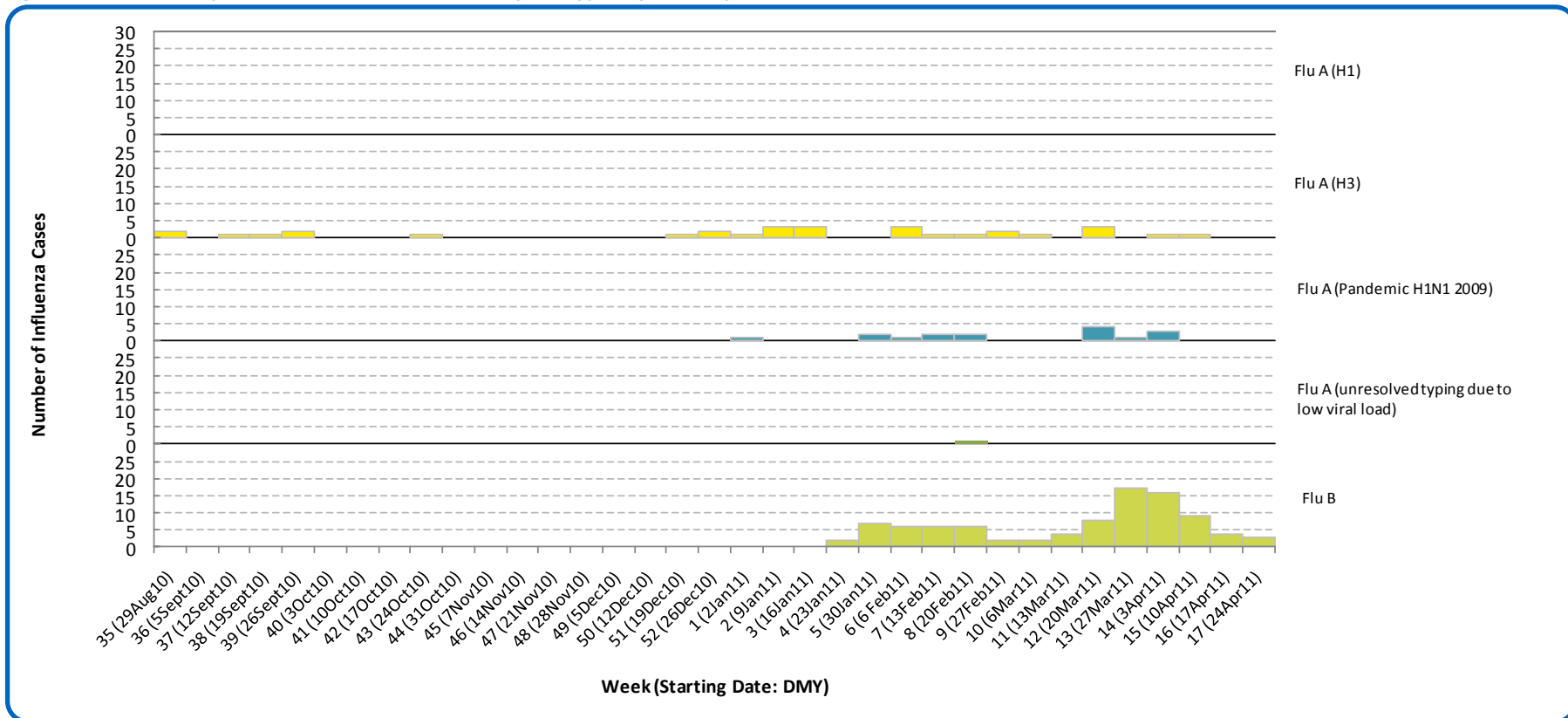
Public Health Surveillance

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Figure 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 30, 2011).

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: May 3, 2011

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Table 2A: New influenza cases (and age specific rates), by subtype, by age group, South Zone (Week 17: Apr 24-30, 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	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	0	0.0	0	0.0	0	0.0	3	0.2	3	0.2
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
75+ years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1	3	0.1

Table 2B: Cumulative influenza cases (and age specific rates), by subtype, by age group, South Zone (Aug 29, 2010–Apr 30, 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	10	6.8	11	7.5
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	39	2.2	69	3.9
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	2	1.1	0	0.0	0	0.0	1	0.5	3	1.6
Total	0	0.0	30	1.1	16	0.6	1	<0.1	92	3.3	139	4.9

Source for Tables 2A & 2B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 30, 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

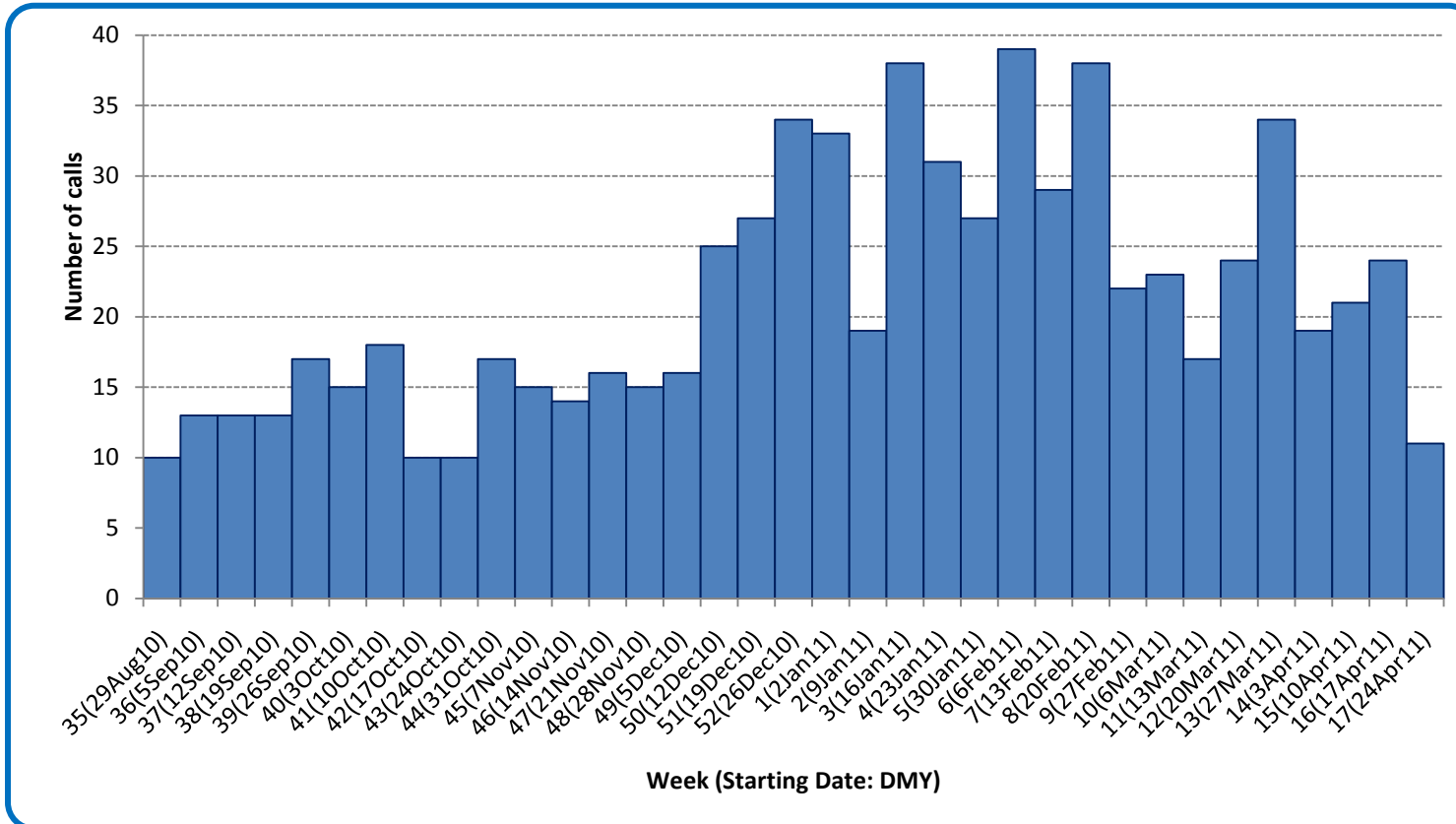
Public Health Surveillance

Report Date: May 3, 2011

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

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



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 30, 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

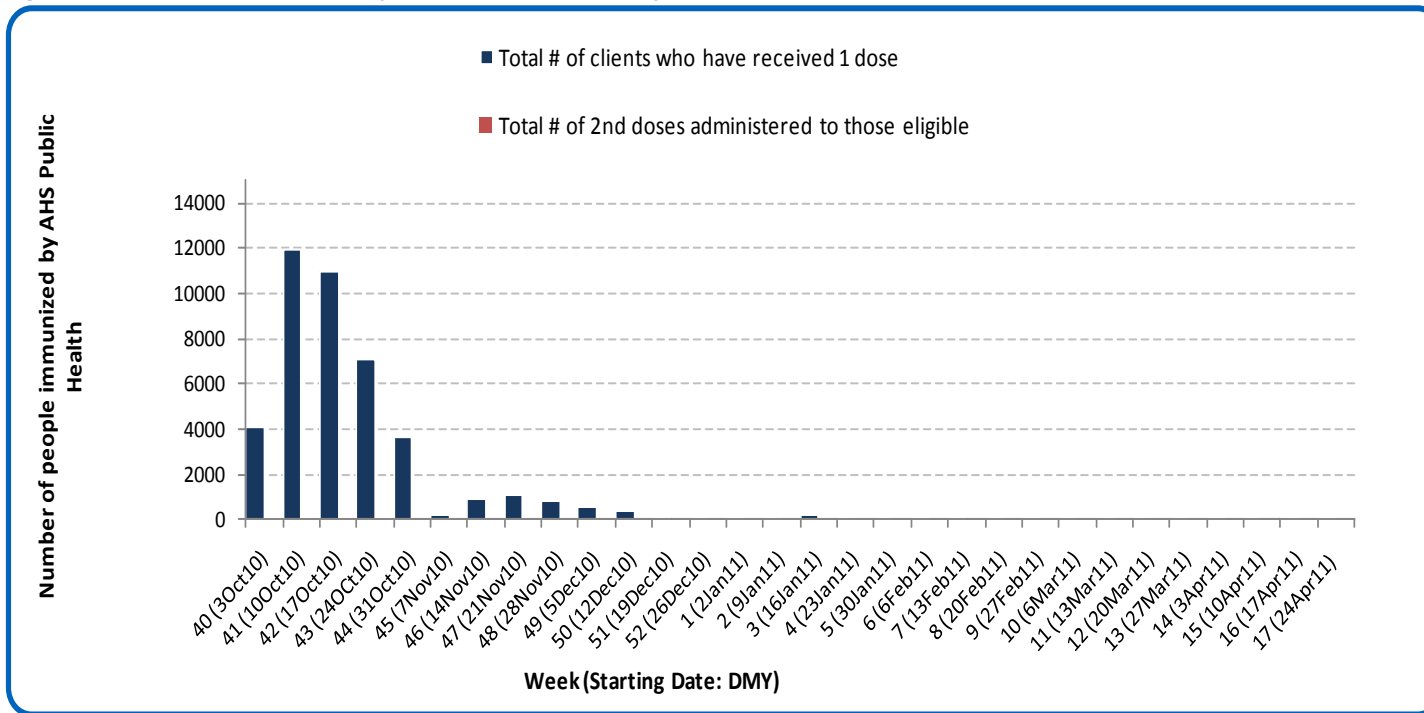
Public Health Surveillance

Report Date: May 3, 2011

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

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



Source: AHS Zones (doses do not include those delivered by external providers)
 Note: Immunization coverage rates will be reported at the end of the influenza season
 For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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

Priority Group		# Immunized (Week 17 – Apr 24-Apr 30, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		0	618
Health care workers		0	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	8	1,670
	Dose #2	18	737
All children 24 months up to and including 59 months*	Dose #1	0	2,011
	Dose #2	0	140
High risk: 5 years up to and including 8 years*	Dose #1	0	508
	Dose #2	0	22
High risk: 9 years up to and including 64 years		0	4,131
Healthy: 5 years up to and including 8 years*	Dose #1	0	1,518
	Dose #2	1	69
Healthy: 9 years up to and including 64 years		19	14,783
Total number of clients who have received 1 dose		27	43,452
Total number of 2nd doses administered to those eligible*		19	968

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: May 3, 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-Mar 31, 2011)

Priority Group		# Immunized Oct 3, 2010-Mar 31, 2011
Long term care staff		565
Health care workers		3,367
Pregnant women		224
Residents of long term care		571
65 years of age and over		4,588
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		2,381
Healthy: 5 years up to and including 8 years*	Dose #1	14
	Dose #2**	0
Healthy: 9 years up to and including 64 years		7,117
Total number of clients who have received 1 dose		18,888
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 second report (for doses delivered from Oct 3 to Mar 31, 2011).

*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: May 3, 2011

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

SECTION 3: ZONE 2 - CALGARY

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Summary

Despite ongoing rhino-enterovirus activity, respiratory virus activity is generally declining in Calgary Zone.

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

With only 2 cases of influenza B confirmed in Calgary Zone in Week 17 (Apr 24-30, 2011), influenza activity is low in Calgary Zone. Since the beginning of the season, a total of 376 cases of influenza have been confirmed in Calgary Zone (38.0% have been identified as influenza A (H3), 13.6% as influenza A (H1N1) 2009, 45.7% 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 12.2 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 decreased in Week 17 (Apr 24-30, 2011) compared to the previous week. Aside from one increase observed the week prior to that, this indicator has been decreasing since the end of February, 2011.

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

The number of emergency department visits and hospital admissions for influenza-like illness (ILI) at the six urban emergency departments/urgent care centers (ED's) in the City of Calgary each decreased by 35% in Week 17 (Apr 24-30, 2011) compared to the previous week. Generally, the trend over the last several weeks for emergency department visits for ILI has been decreasing, while the number of hospital admissions for ILI has been fluctuating.

The number of visits to emergency departments and hospital admissions for patients with cough symptoms decreased by 26% and 18%, respectively, in Week 16 (Apr 17-23, 2011). With the exception of a few fluctuations, both of these indicators appear to be declining overall.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

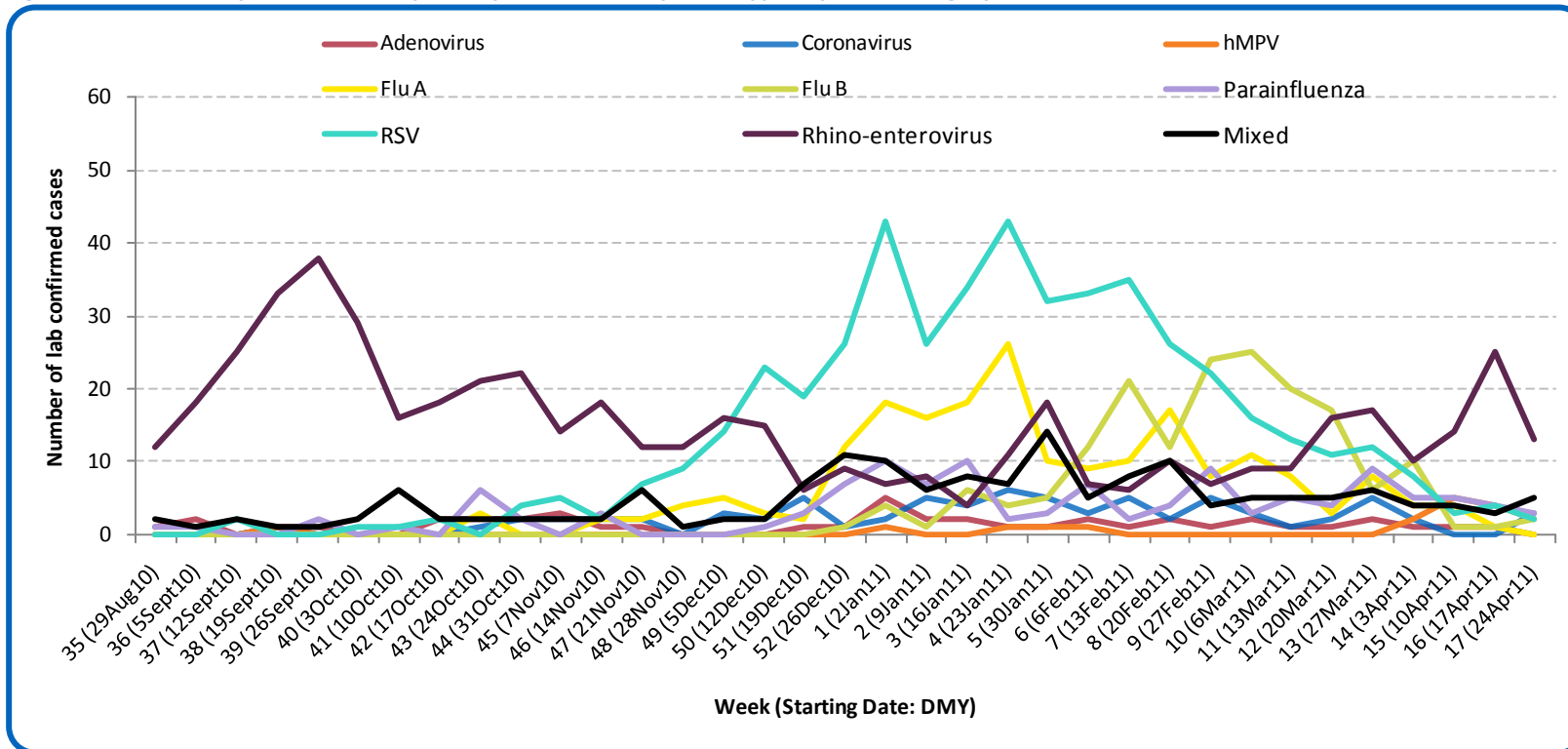
Public Health Surveillance

Report Date: May 3, 2011

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

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



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 30, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

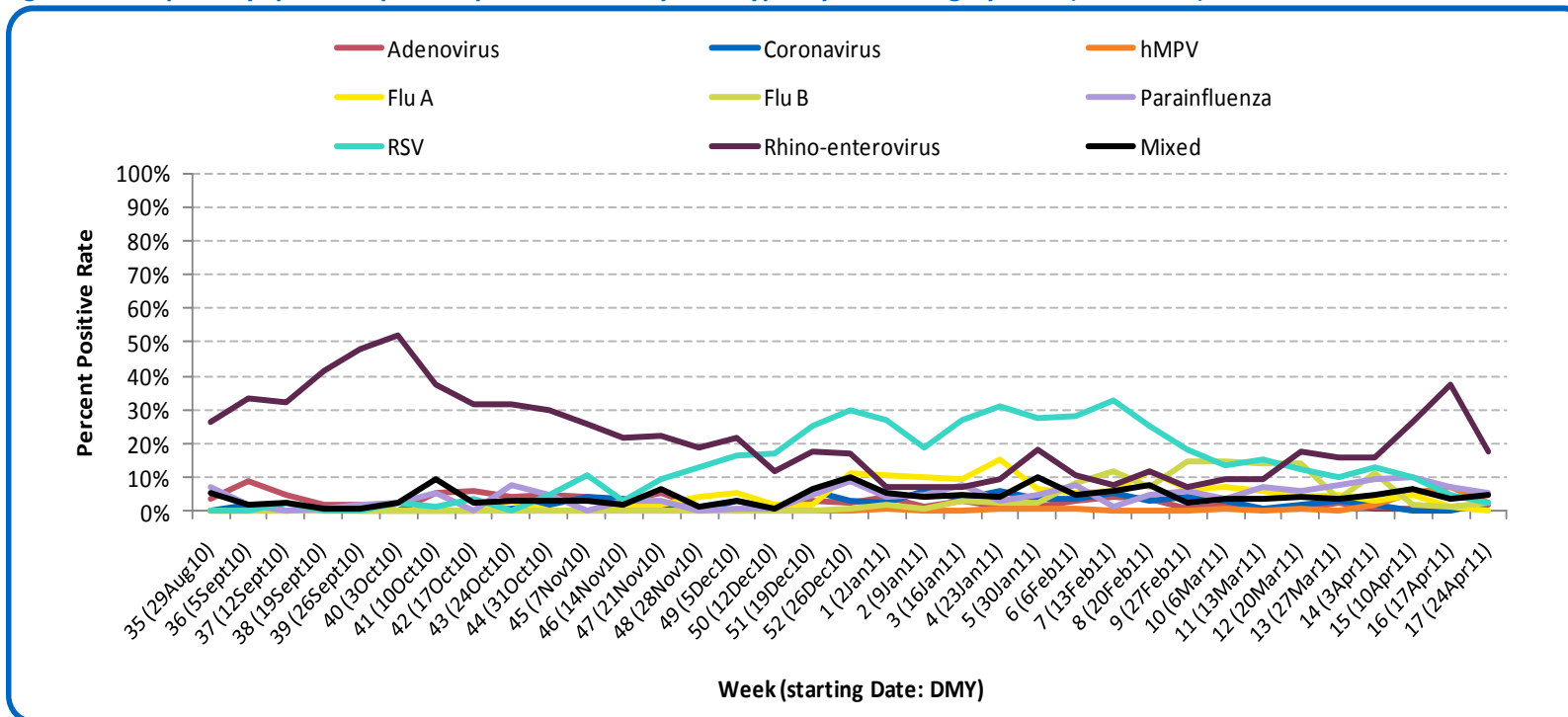
SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance
Report Date: May 3, 2011

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

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



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 30, 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

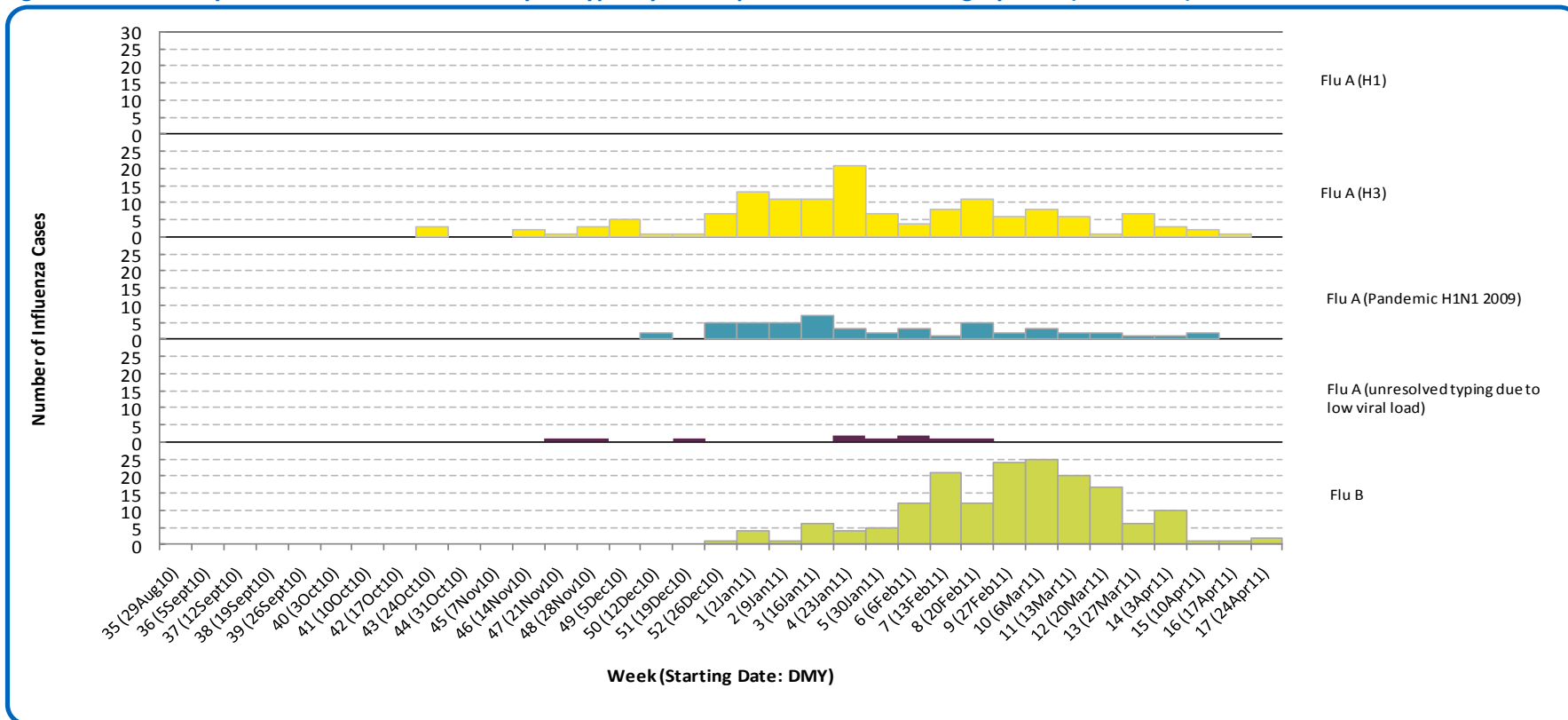
Public Health Surveillance

Report Date: May 3, 2011

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

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



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

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 30, 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 17: Apr 24-30, 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	0.2	1	0.2
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	0	0.0	0	0.0
18 to <65 years	0	0.0	0	0.0	0	0.0	0	0.0	1	<0.1	1	<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	0	0.0	0	0.0	0	0.0	2	<0.1	2	<0.1

Table 3B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Calgary Zone (Aug 29, 2010 – Apr 30, 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	20	5.3	46	12.2
2 to <5 years	0	0.0	12	2.2	3	0.6	1	0.2	16	3.0	32	5.9
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	64	0.7	39	0.4	3	<0.1	60	0.6	166	1.8
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	143	1.0	51	0.4	10	0.1	172	1.3	376	2.7

Source for tables 3A & 3B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 30, 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

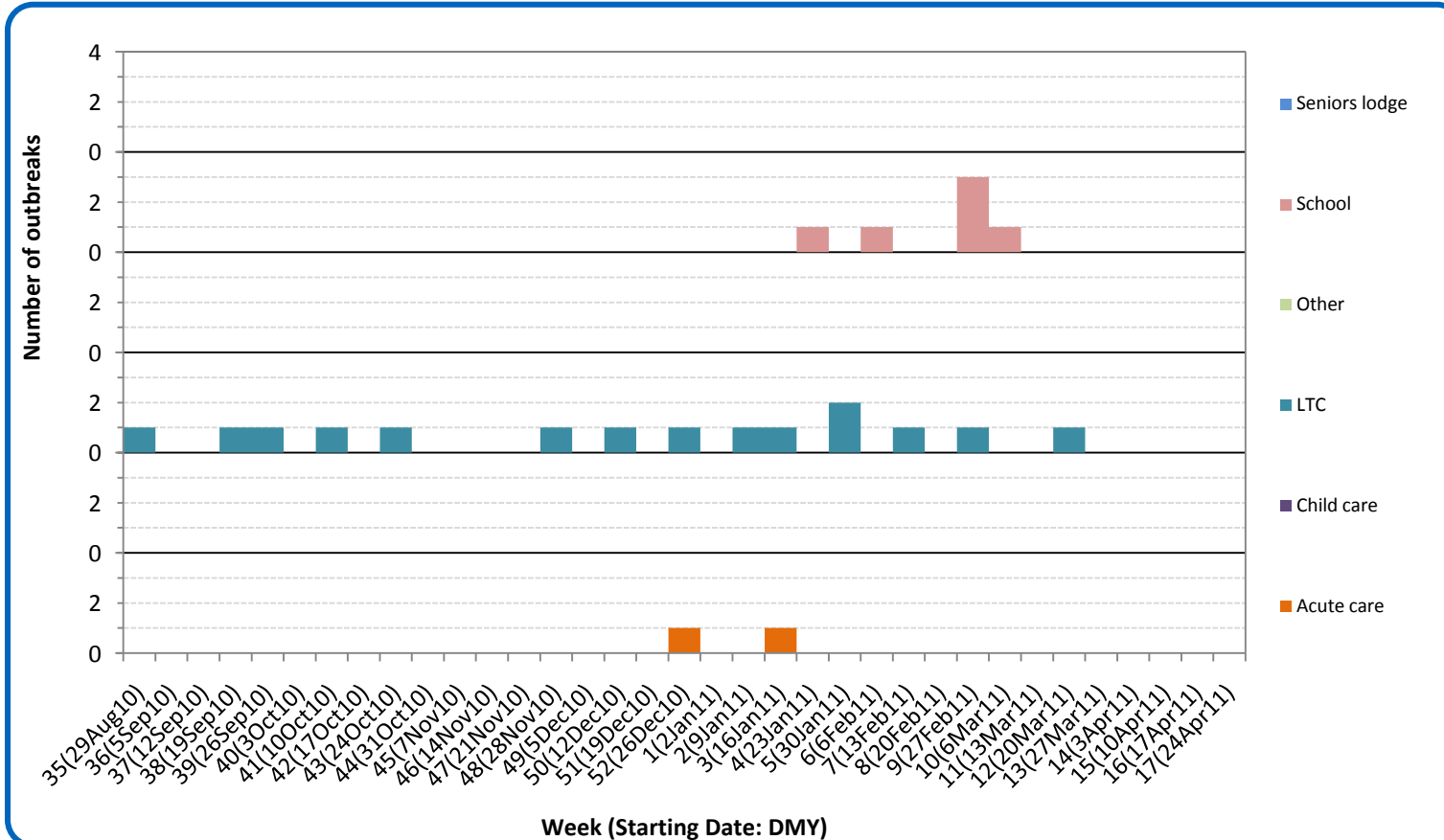
Public Health Surveillance

Report Date: May 3, 2011

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

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



Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 30, 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

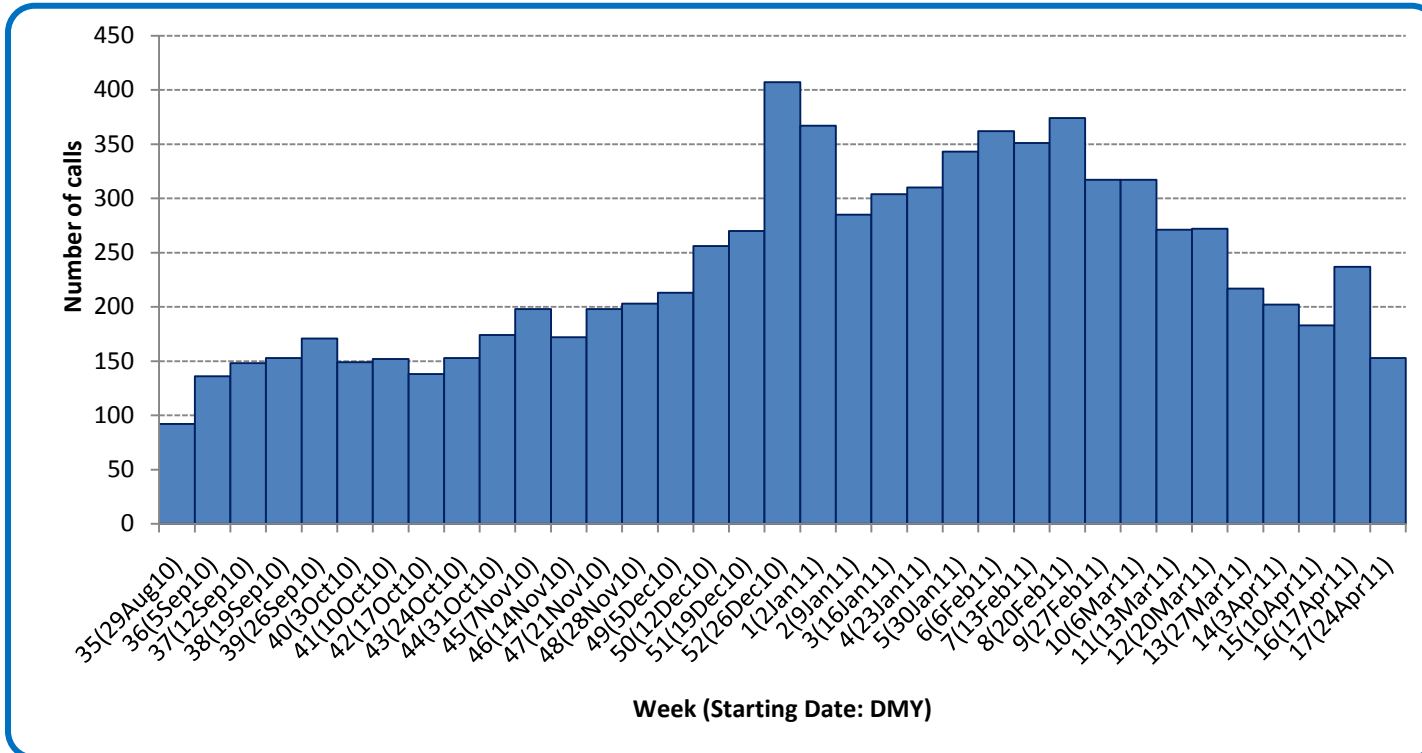
Public Health Surveillance

Report Date: May 3, 2011

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

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



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 30, 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

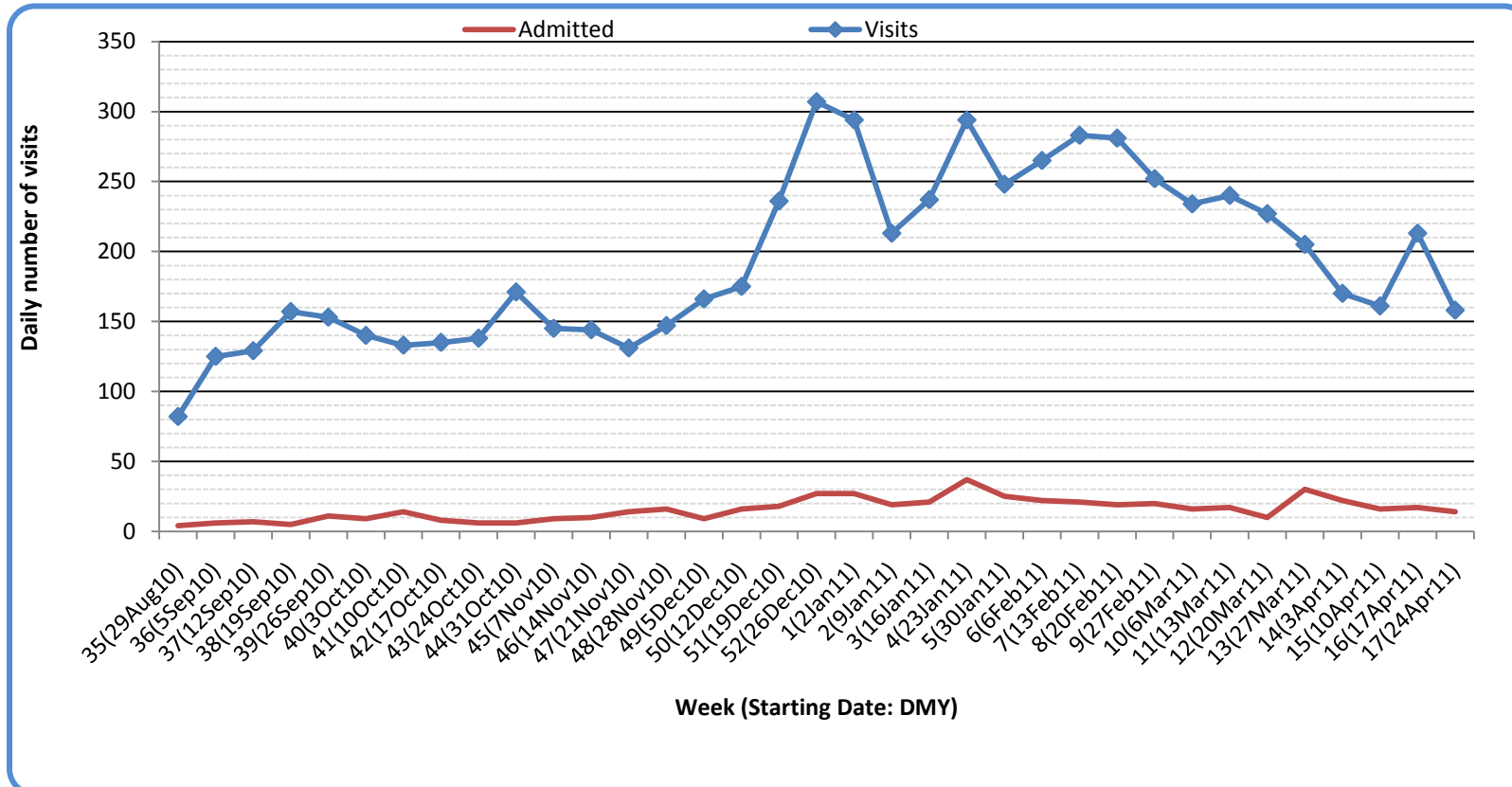
Public Health Surveillance

Report Date: May 3, 2011

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

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



Source: Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 30, 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

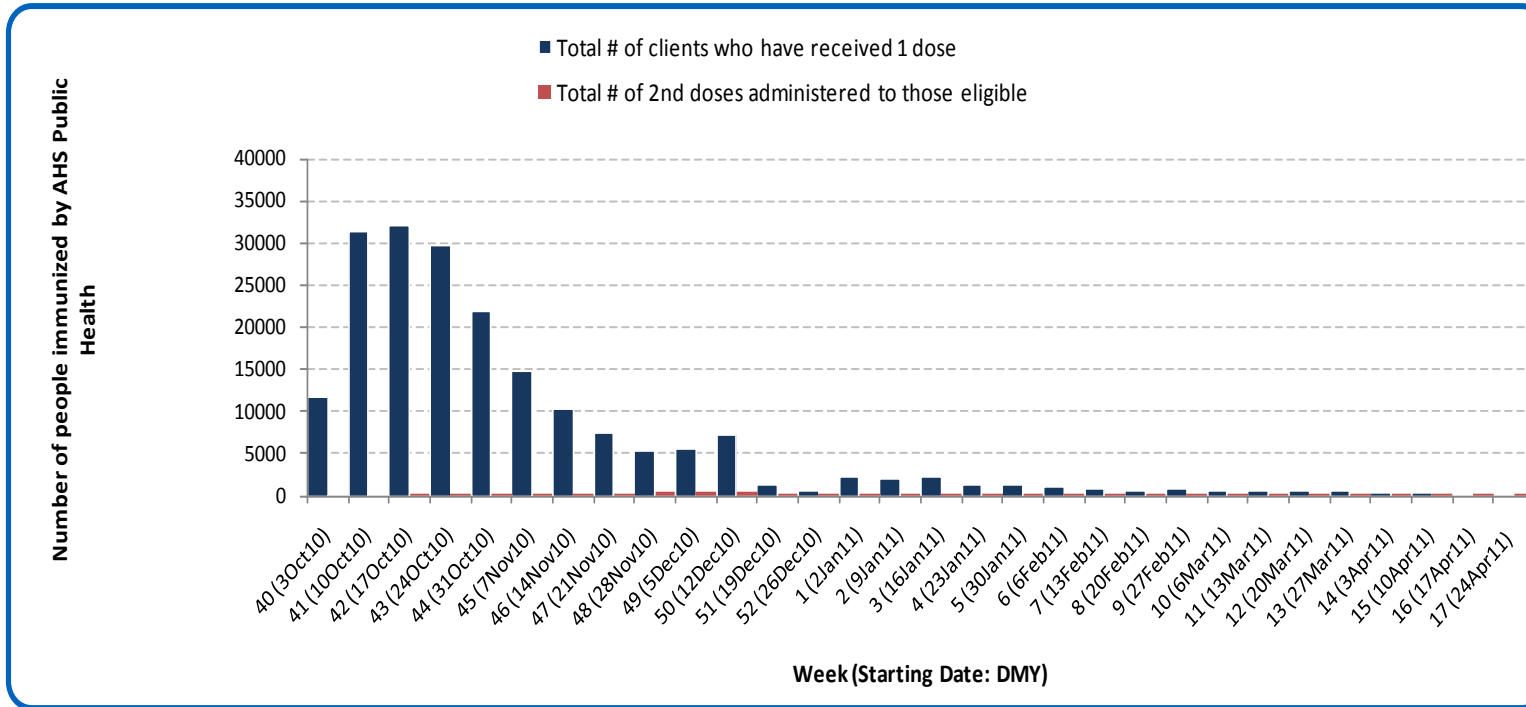
Public Health Surveillance

Report Date: May 3, 2011

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

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



Source: AHS Zones (doses do not include those delivered by external providers)
 Note: Immunization coverage rates will be reported at the end of the influenza season
 For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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

Priority Group	# Immunized (Week 17 – Apr 24-Apr 30, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff	0	453
Health care workers	4	5,359
Pregnant women	0	2,009
Residents of long term care	0	706
65 years of age and over	10	44,734
All children 6 months up to and including 23 months*	Dose #1	26
	Dose #2	236
All children 24 months up to and including 59 months*	Dose #1	2
	Dose #2	11
High risk: 5 years up to and including 8 years*	Dose #1	0
	Dose #2	1
High risk: 9 years up to and including 64 years	2	20,047
Healthy: 5 years up to and including 8 years*	Dose #1	2
	Dose #2	4
Healthy: 9 years up to and including 64 years	10	84,744
Total number of clients who have received 1 dose	56	194,345
Total number of 2nd doses administered to those eligible*	252	6,092

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: May 3, 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-Mar 31, 2011)

Priority Group		# Immunized Oct 3, 2010-Mar 31, 2011
Long term care staff		5,789
Health care workers		15,809
Pregnant women		1,480
Residents of long term care		5,275
65 years of age and over		31,101
All children 6 months up to and including 23 months*	Dose #1	699
	Dose #2**	51
All children 24 months up to and including 59 months*	Dose #1	525
	Dose #2**	89
High risk: 5 years up to and including 8 years*	Dose #1	626
	Dose #2**	18
High risk: 9 years up to and including 64 years		15,779
Healthy: 5 years up to and including 8 years*	Dose #1	1,377
	Dose #2**	47
Healthy: 9 years up to and including 64 years		59,807
Total number of clients who have received 1 dose		138,267
Total number of 2nd doses administered to those eligible*		205

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: May 3, 2011

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

Priority Group		# Immunized Oct 3, 2010-Mar 31, 2011
Long term care staff		5,789
Health care workers		15,809
Pregnant women		1,480
Residents of long term care		5,275
65 years of age and over		31,101
All children 6 months up to and including 23 months*	Dose #1	699
	Dose #2**	51
All children 24 months up to and including 59 months*	Dose #1	525
	Dose #2**	89
High risk: 5 years up to and including 8 years*	Dose #1	626
	Dose #2**	18
High risk: 9 years up to and including 64 years		15,779
Healthy: 5 years up to and including 8 years*	Dose #1	1,377
	Dose #2**	47
Healthy: 9 years up to and including 64 years		59,807
Total number of clients who have received 1 dose		138,267
Total number of 2nd doses administered to those eligible*		205

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 second report (for doses delivered from Oct 3 to Mar 31, 2011.)

*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: May 3, 2011

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

SECTION 4: ZONE 3 - CENTRAL

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Summary

After a period of decline, respiratory virus activity appears to have increased recently in Central Zone. Several viruses are circulating including influenza, parainfluenza and rhino-enterovirus.

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

The number of influenza A (H3) and influenza B cases confirmed in Week 17 (Apr 24-30, 2011) both increased from the number confirmed the previous week. These are the first increases in influenza cases observed in several weeks. Rhino-enterovirus appears to be the predominant respiratory virus currently circulating. This season, the total number of influenza cases confirmed in Central Zone is 193 (52.3% have been identified as influenza A (H3), 10.4% as influenza A (H1N1) 2009, 35.2% as influenza B and 2.1% as influenza A with unresolved sub-typing). 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 19.4 per 10,000.

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

Two respiratory outbreaks, mentioned in previous updates, have now been confirmed in Central Zone, including one in a seniors' lodge attributed to parainfluenza and RSV and one in a long term care facility attributed to parainfluenza. The final attack rates were calculated as 12% and 20%, respectively. The onset of symptoms for both of these outbreaks occurred in Week 14 (Apr 3-9, 2011).

In addition to the outbreaks confirmed, one additional outbreak was reported in Central Zone since the last update. It occurred in a seniors' lodge and had a preliminary attack rate of 16%. The onset of symptoms occurred in Week 15 (Apr 10-16, 2011). Laboratory confirmation is currently pending.

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

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

Emergency Department/Urgent Care Center Visits and Hospital Admissions

There are no data available from this zone.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

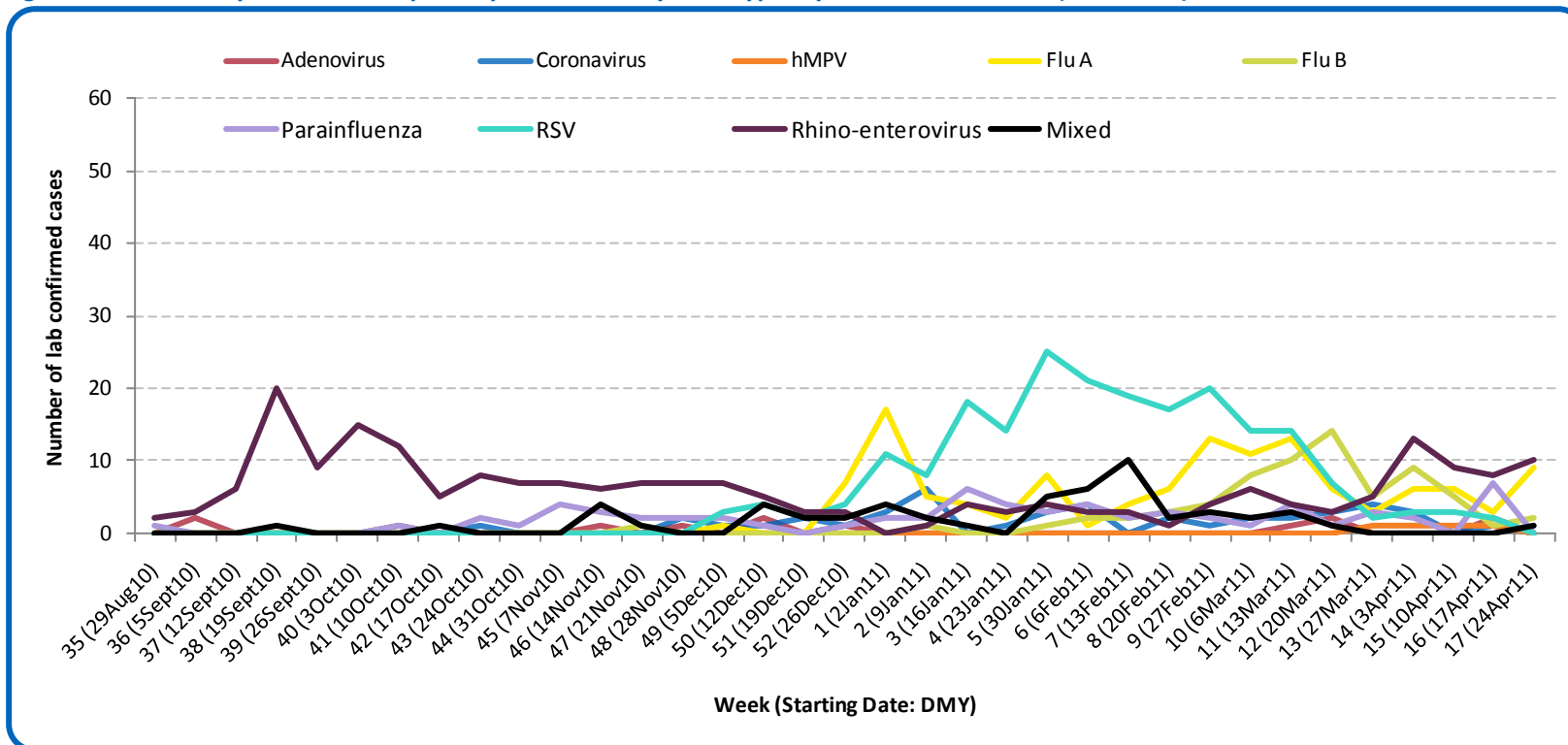
Public Health Surveillance

Report Date: May 3, 2011

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

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



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 30, 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

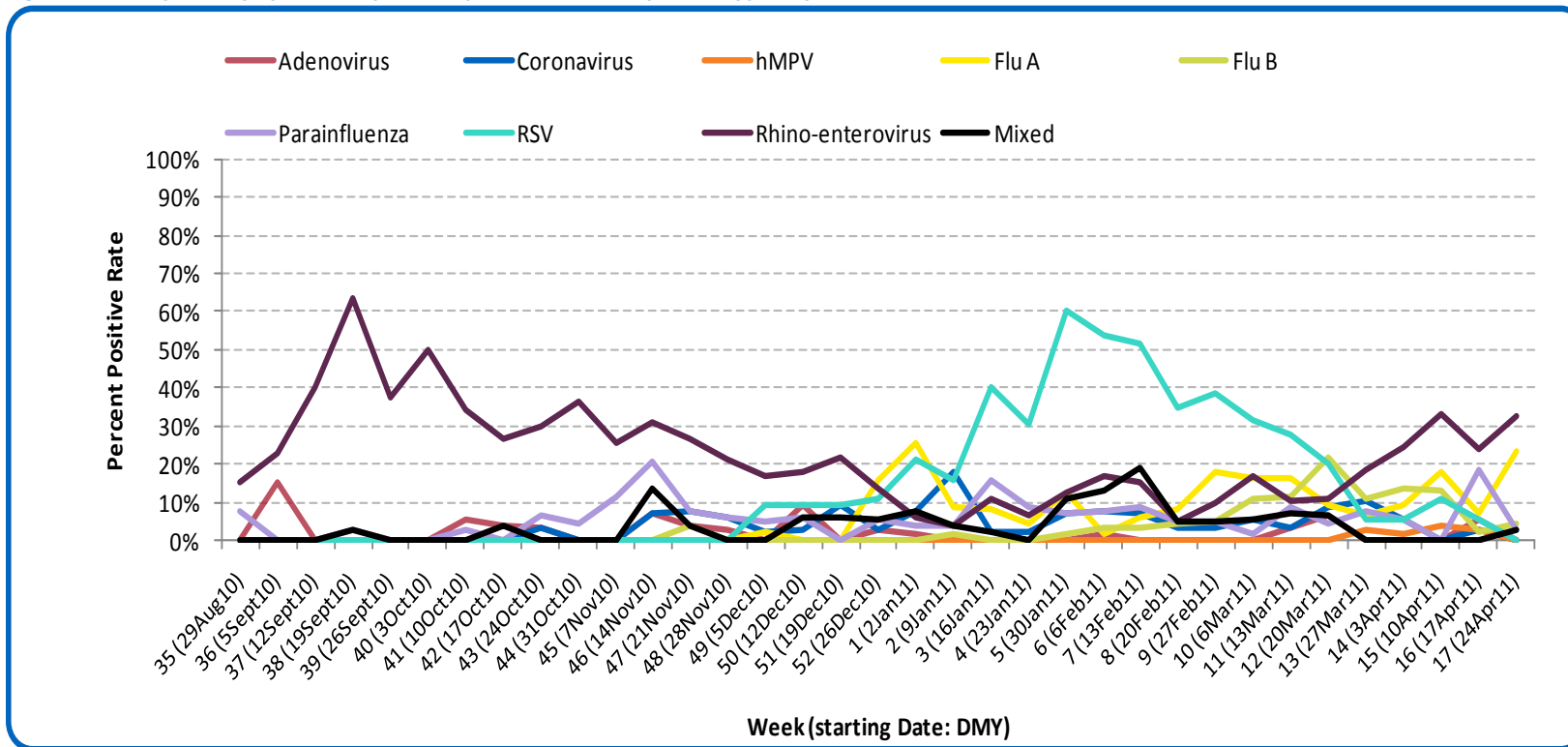
Public Health Surveillance

Report Date: May 3, 2011

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

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



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 30, 2011)
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

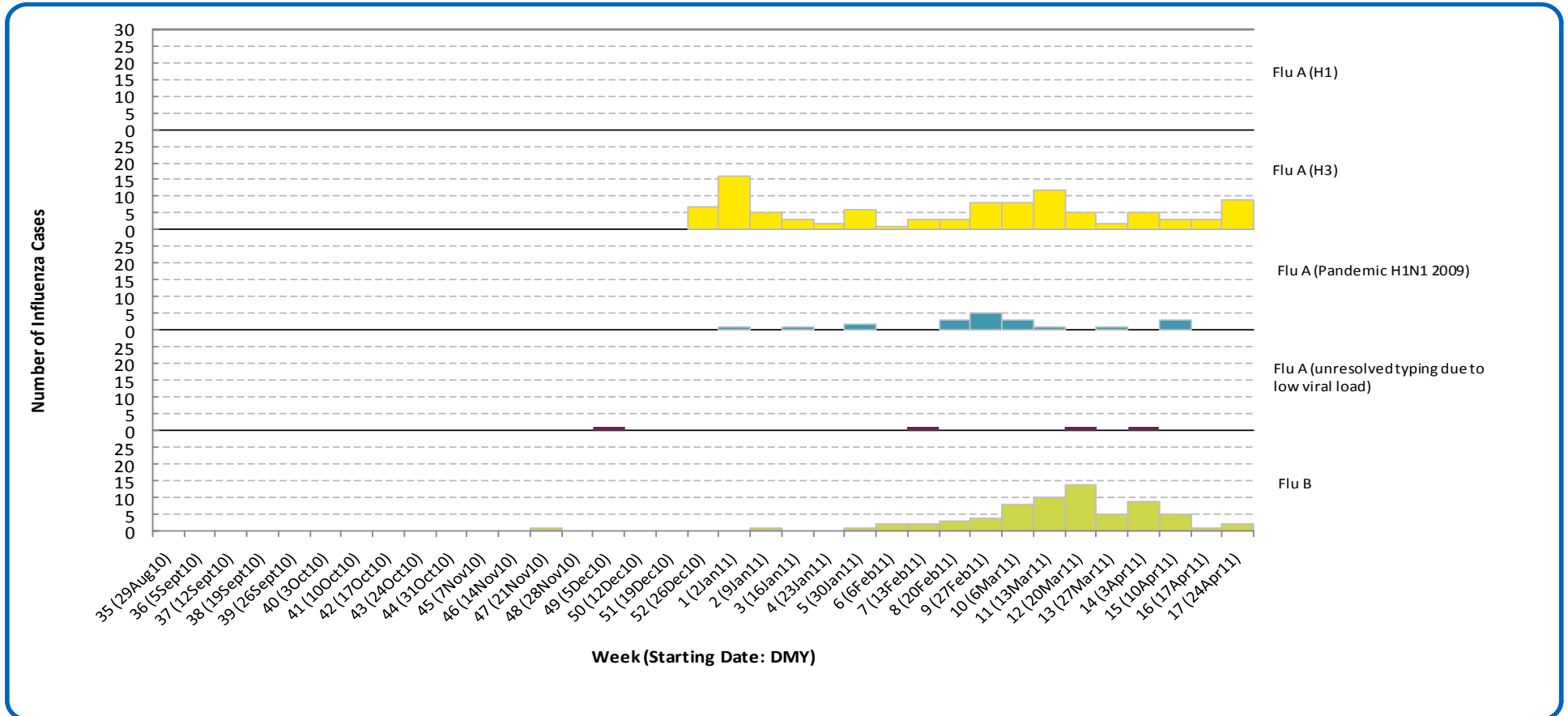
SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance
Report Date: May 3, 2011

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

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



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

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 30, 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 17: Apr 24-30, 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 30, 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	11	8.9	0	0.0	0	0.0	13	10.5	24	19.4
2 to <5 years	0	0.0	3	1.7	2	1.1	0	0.0	8	4.4	13	7.2
5 to <9 years	0	0.0	5	2.2	0	0.0	0	0.0	10	4.4	15	6.7
9 to <18 years	0	0.0	3	0.6	2	0.4	0	0.0	8	1.5	13	2.4
18 to <65 years	0	0.0	37	1.3	16	0.6	3	0.1	24	0.9	80	2.9
65 to <75 years	0	0.0	3	1.0	0	0.0	0	0.0	3	1.0	6	1.9
75+ years	0	0.0	39	14.2	0	0.0	1	0.4	2	0.7	42	15.3
Total	0	0.0	101	2.3	20	0.4	4	0.1	68	1.5	193	4.3

Source for Tables 4A & 4B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 30, 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

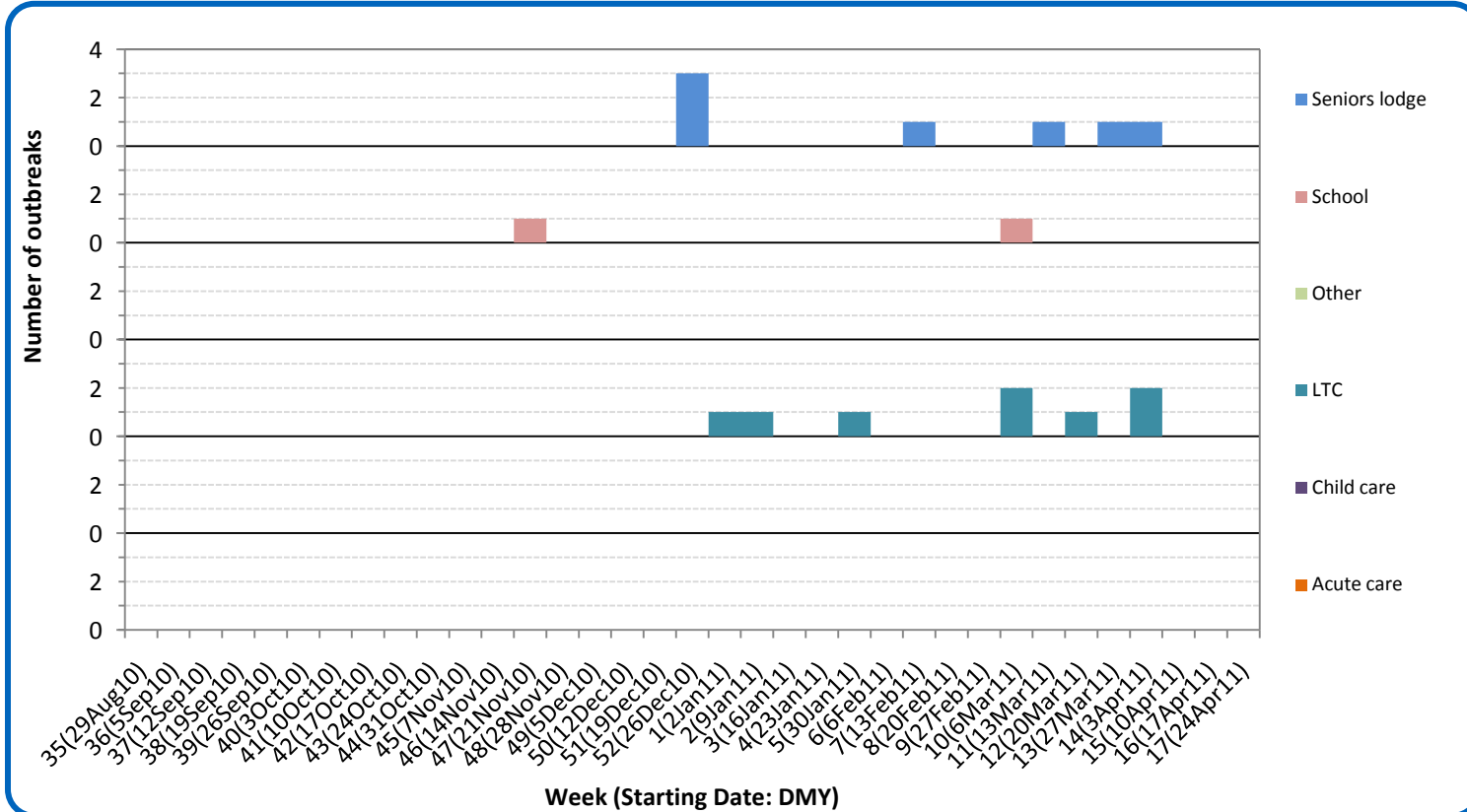
Public Health Surveillance

Report Date: May 3, 2011

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

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

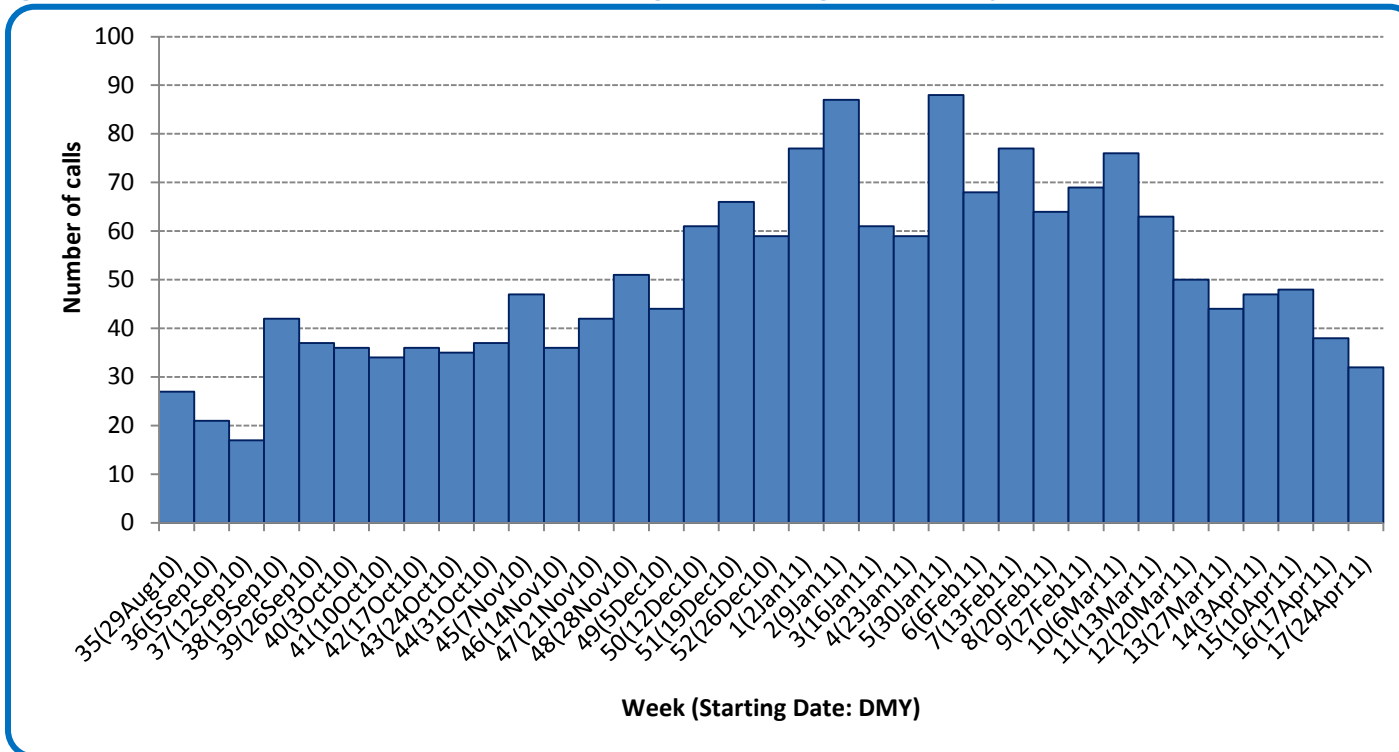


Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 30, 2011.

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.

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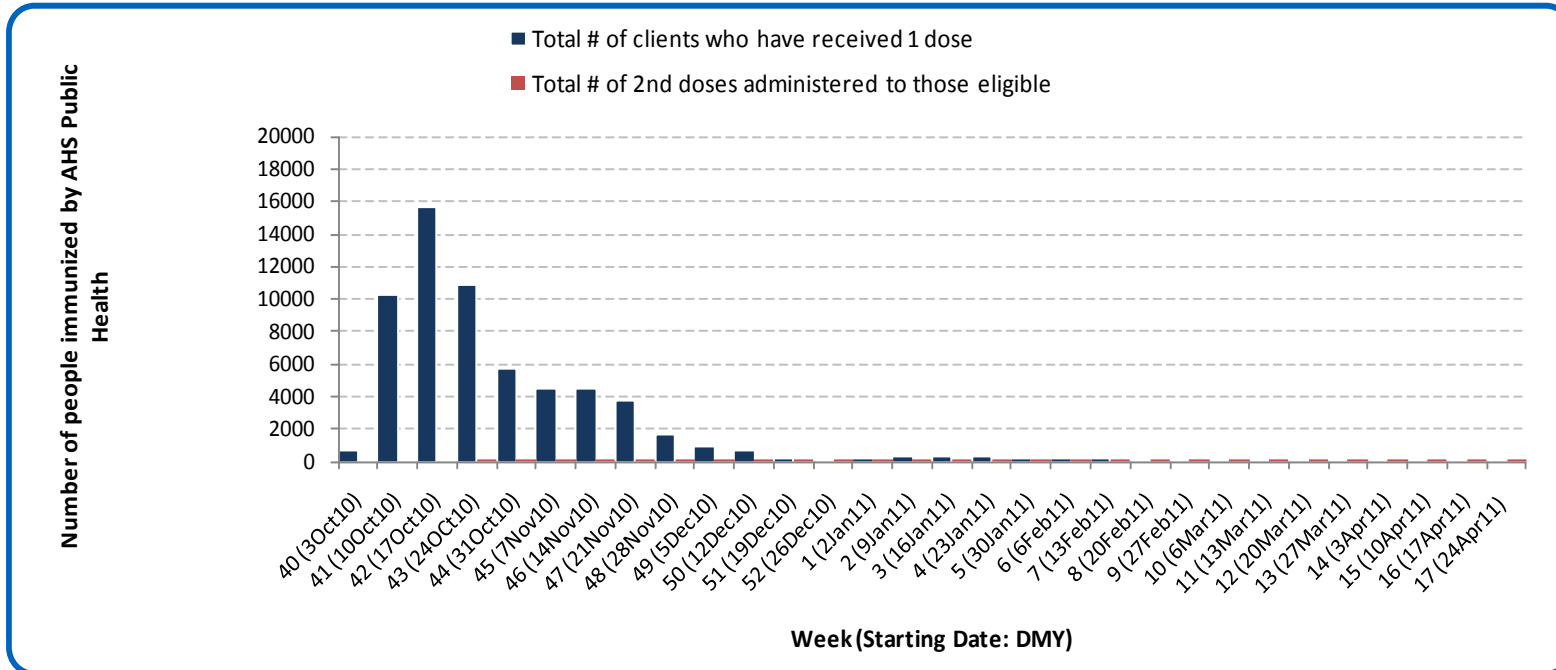
Figure 4E: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, Central Zone (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Apr 30, 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 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	# Immunized (Week 17 – Apr 24-Apr 30, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff	0	428
Health care workers	1	2,627
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	4
	Dose #2	36
All children 24 months up to and including 59 months*	Dose #1	0
	Dose #2	1
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	1	6,894
Healthy: 5 years up to and including 8 years*	Dose #1	0
	Dose #2	0
Healthy: 9 years up to and including 64 years	1	20,854
Total number of clients who have received 1 dose	7	61,961
Total number of 2nd doses administered to those eligible*	37	1,546

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: May 3, 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-Mar 31, 2011)

Priority Group		# Immunized Oct 3, 2010-Mar 31, 2011
Long term care staff		963
Health care workers		6,087
Pregnant women		12
Residents of long term care		1,762
65 years of age and over		4,211
All children 6 months up to and including 23 months*	Dose #1	4
	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		1,744
Healthy: 5 years up to and including 8 years*	Dose #1	18
	Dose #2**	2
Healthy: 9 years up to and including 64 years		4,000
Total number of clients who have received 1 dose		18,813
Total number of 2nd doses administered to those eligible*		2

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 second report (for doses delivered from Oct 3 to Mar 31, 2011.)

*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: May 3, 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

The number of influenza B cases confirmed in Week 17 (Apr 24-30, 2011) increased from the previous week, however the general trend for influenza activity overall has been decreasing in recent weeks. Outbreak reports and laboratory data indicate that several other respiratory viruses, including rhino-enterovirus, parainfluenza and corona virus continue to circulate in this part of the province.

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

Despite a slight increase in the number of influenza B cases confirmed in Week 17 (Apr 24-30, 2011) compared to the previous week, influenza activity does appear to be declining overall in Edmonton Zone. Rhino-enterovirus activity continues to increase. As of the end of last week (Apr 30, 2011), the total number of influenza cases confirmed in this part of the province this season is 474 (38.8% have been identified as influenza A (H3), 16.2% as influenza A (H1N1) 2009, 42.6% as influenza B and 2.3% as influenza A with unresolved sub-typing). 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 25.2 per 10,000 (compared to 9.4 per 10,000 or lower for other age groups).

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

One respiratory outbreak mentioned in the last update has now been confirmed in Edmonton Zone. It occurred in a seniors' lodge and was attributed to coronavirus. The final attack rate was calculated as 5%. The onset of symptoms occurred in Week 16 (Apr 17-23, 2011).

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

The number of calls to Health Link Alberta in Edmonton Zone for cough or breathing difficulties increased slightly in Week 17 (Apr 24-30, 2011) from the previous week, however the general trend since the end of February, 2011 has been decreasing.

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

The number of visits and hospital admissions to nine emergency departments/urgent care centers for ILI symptoms decreased by 19% and 24%, respectively, in Week 17 (Apr 24-30, 2011) from the previous week. Generally, these indicators have been declining 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. The number of hospital admissions for the same reason has been fluctuating in recent weeks.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

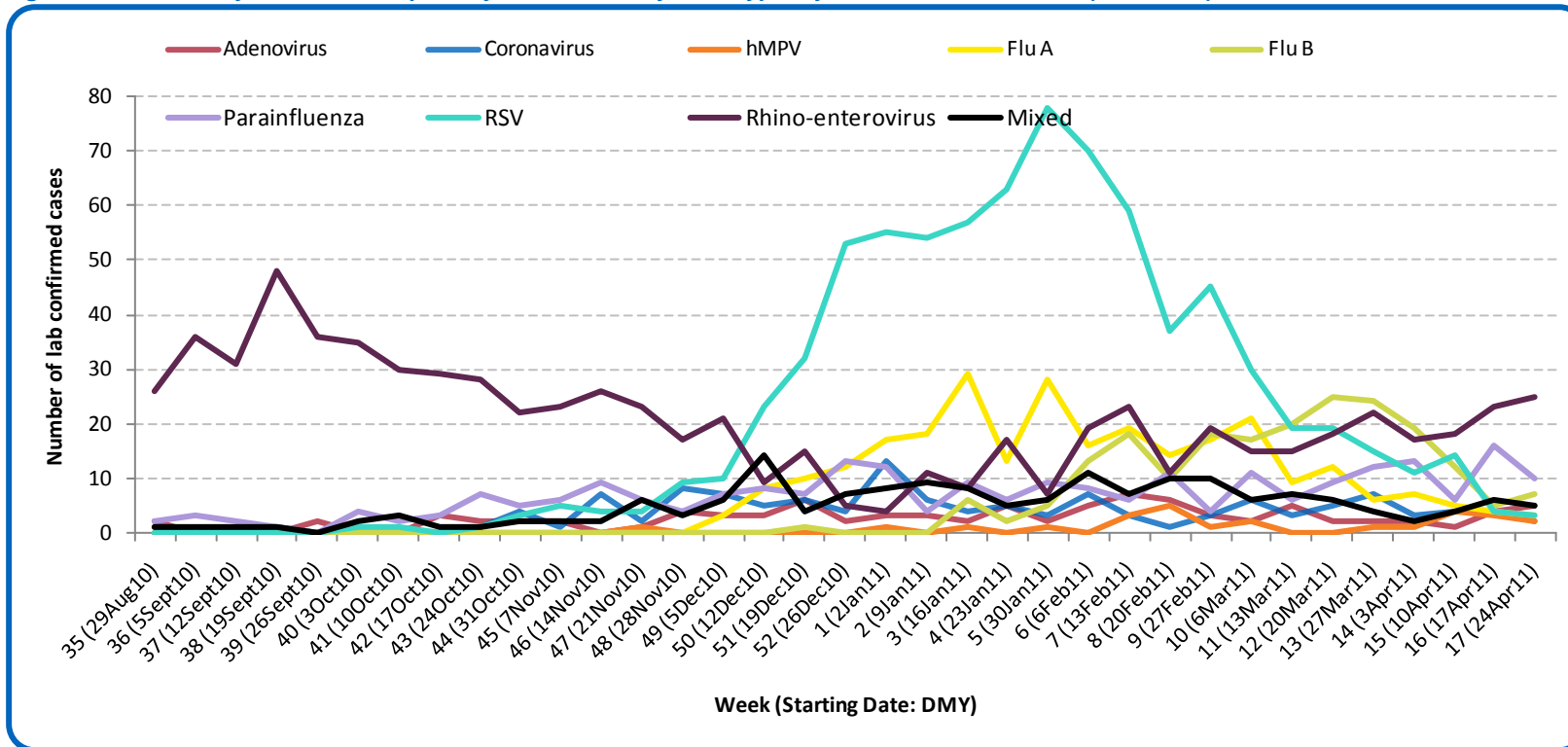
Public Health Surveillance

Report Date: May 3, 2011

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

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



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 30, 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

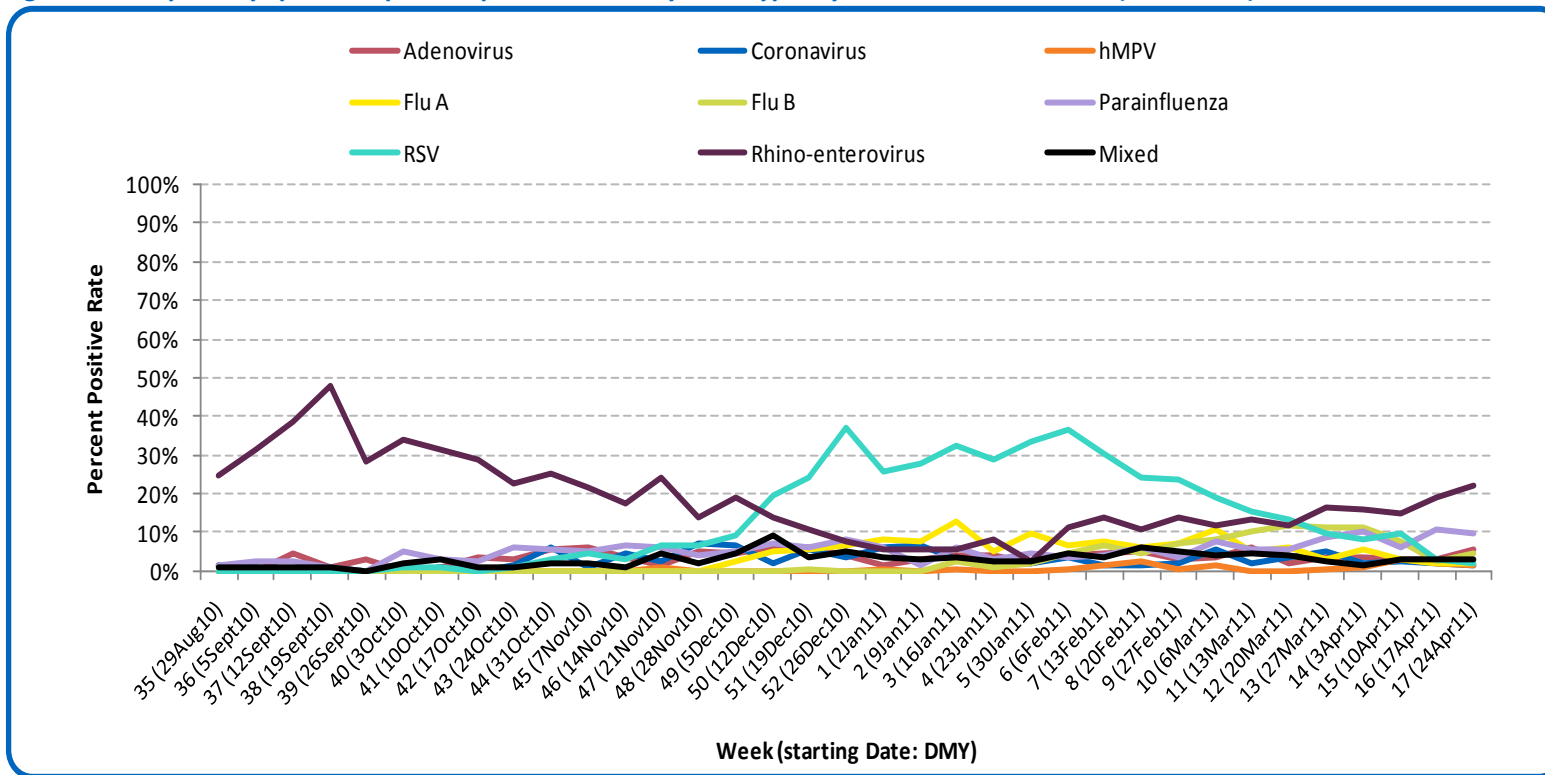
Public Health Surveillance

Report Date: May 3, 2011

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

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



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 30, 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

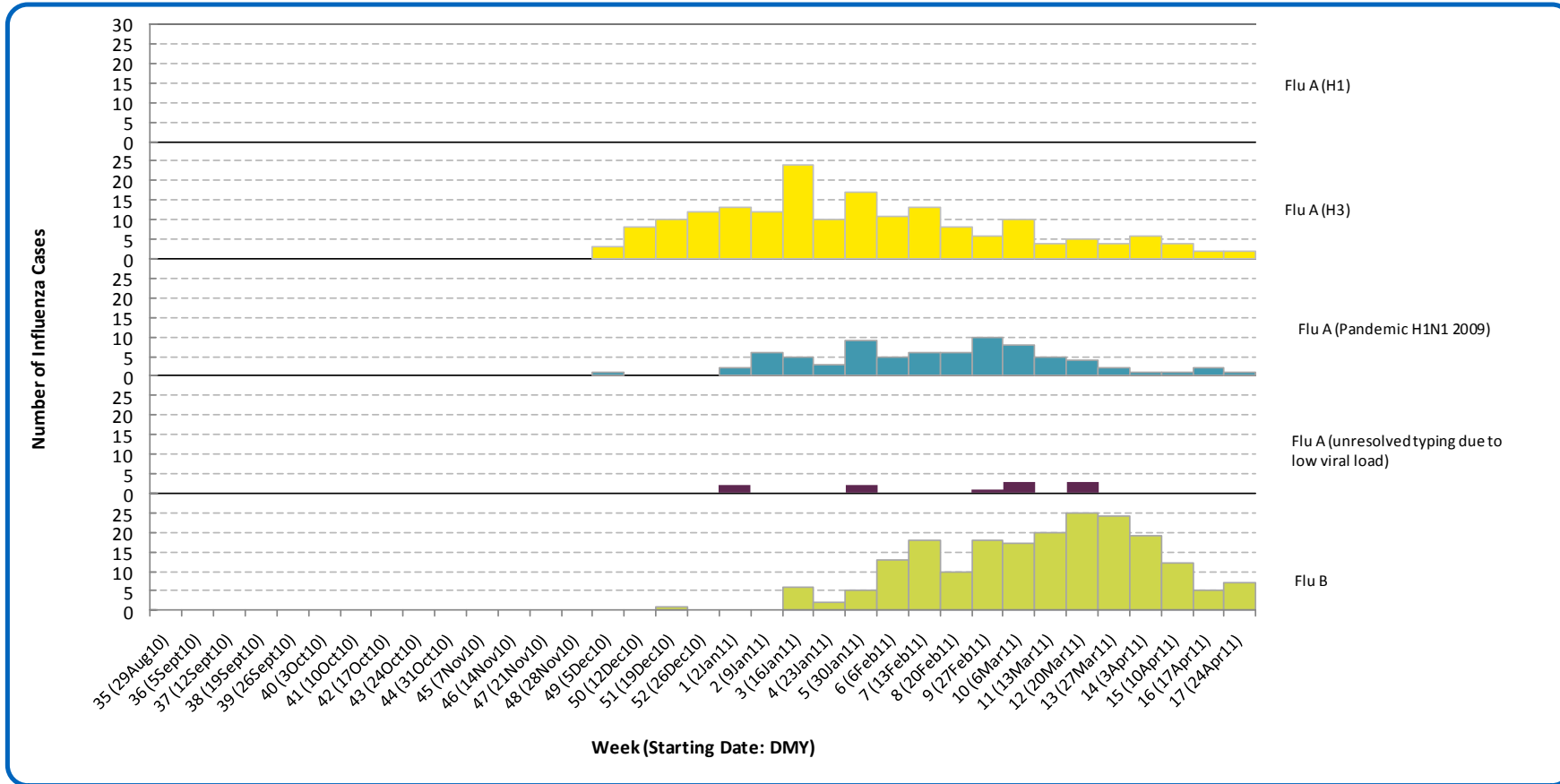
Public Health Surveillance

Report Date: May 3, 2011

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

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



*Note: Six specimens were positive for influenza A or B and one or more other virus type(s). Three specimens were positive for both influenza A & B. Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 30, 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: May 3, 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 17: Apr 24-30, 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	0	0.0	0	0.0	2	0.7	4	1.3
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	2	0.4	2	0.4
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
18 to <65 years	0	0.0	0	0.0	1	<0.1	0	0.0	0	0.0	1	<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	1	0.2	1	0.2
Total	0	0.0	2	<0.1	1	<0.1	0	0.0	7	0.1	10	0.1

Table 5B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Edmonton Zone (Aug 29, 2010 – Apr 30, 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	33	10.8	8	2.6	3	1.0	33	10.8	77	25.2
2 to <5 years	0	0.0	15	3.4	5	1.1	1	0.2	20	4.6	41	9.4
5 to <9 years	0	0.0	11	2.1	4	0.8	0	0.0	32	6.0	47	8.8
9 to <18 years	0	0.0	9	0.7	3	0.2	1	0.1	42	3.4	55	4.4
18 to <65 years	0	0.0	69	0.9	56	0.7	5	0.1	49	0.6	179	2.3
65 to <75 years	0	0.0	10	1.4	0	0.0	0	0.0	11	1.6	21	3.0
75+ years	0	0.0	37	6.1	1	0.2	1	0.2	15	2.5	54	8.9
Total	0	0.0	184	1.6	77	0.7	11	0.1	202	1.7	474	4.1

Source for tables 5A & 5B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 30, 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

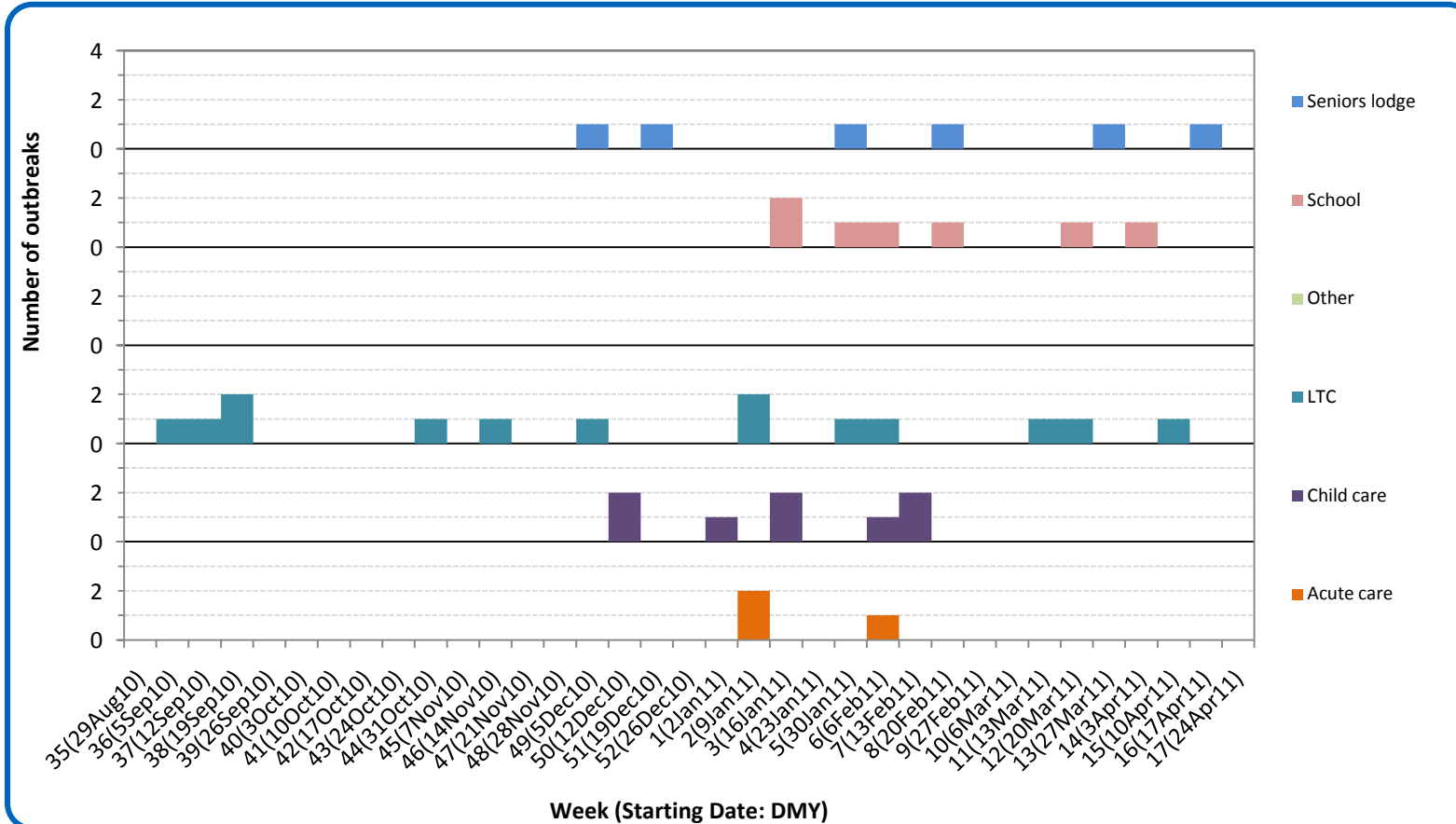
Public Health Surveillance

Report Date: May 3, 2011

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

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



Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 30, 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

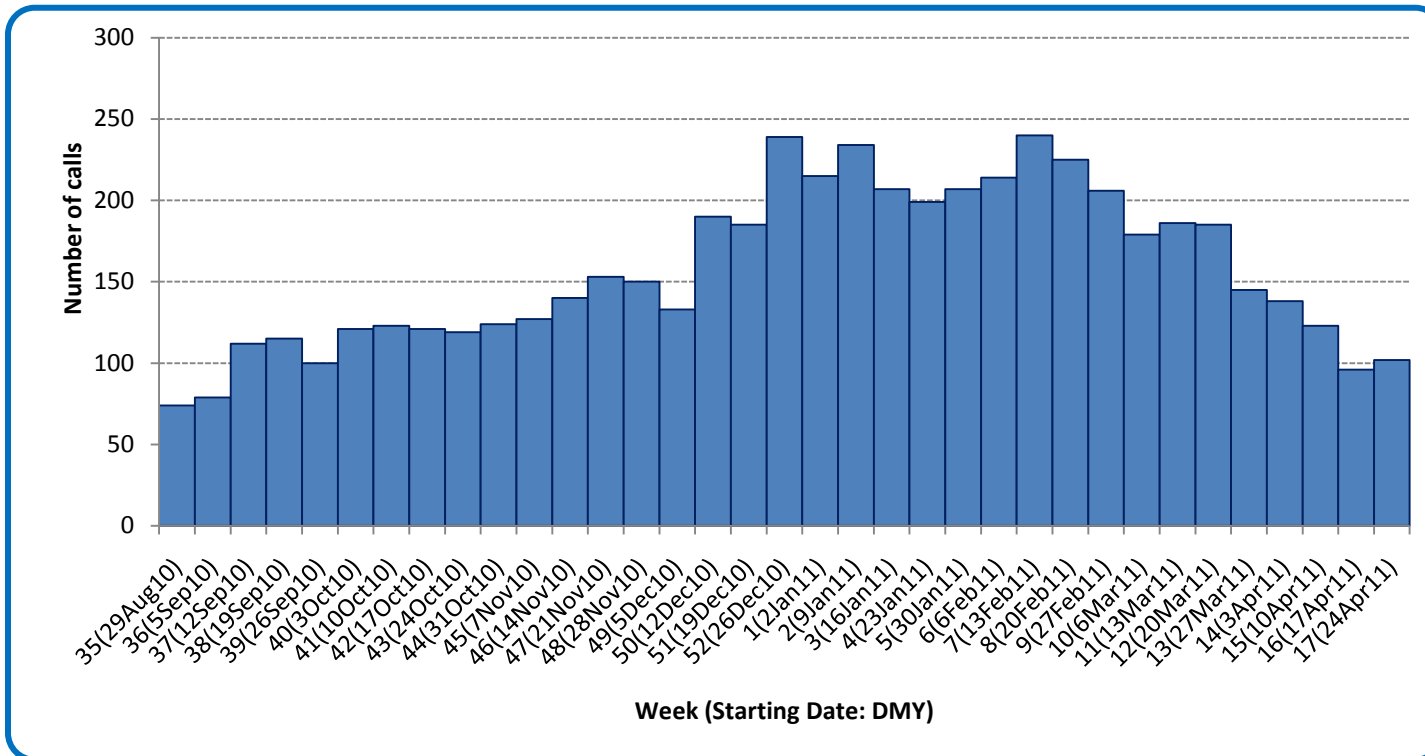
Public Health Surveillance

Report Date: May 3, 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 Apr 30, 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

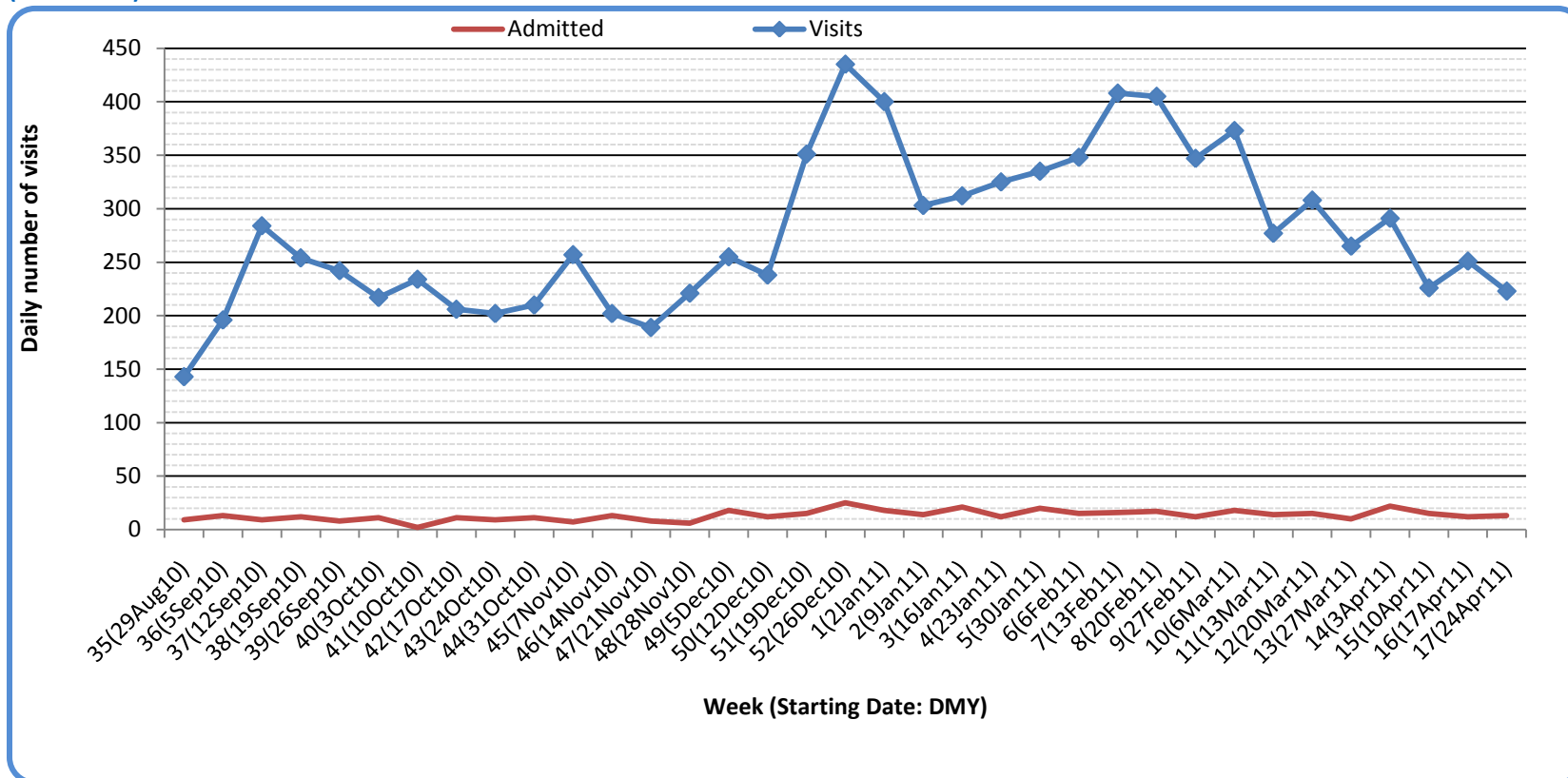
Public Health Surveillance

Report Date: May 3, 2011

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

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



Source: Alberta Real Time Syndromic Surveillance (ARTSSN) as of 23:59 on Apr 30, 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

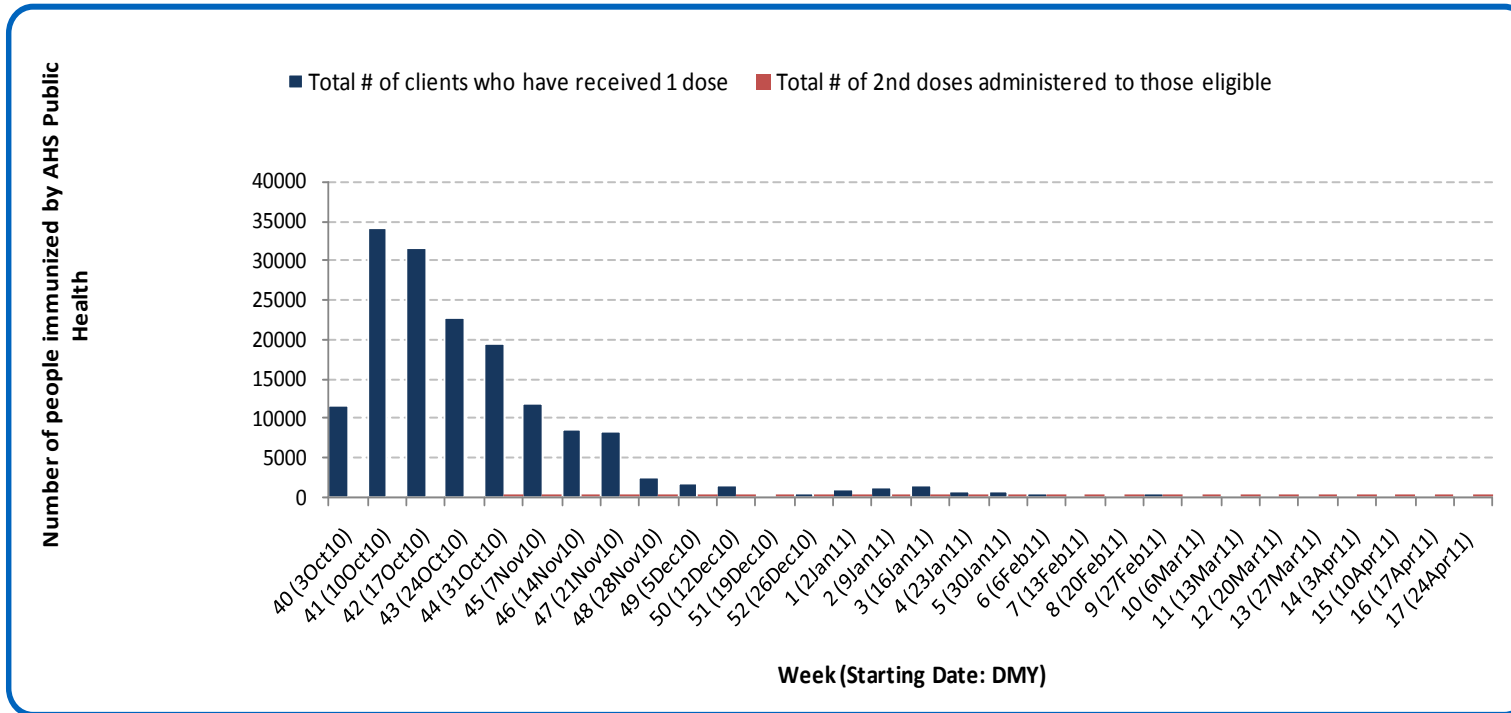
Public Health Surveillance

Report Date: May 3, 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	# Immunized (Week 17 – Apr 24-Apr 30, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff	1	332
Health care workers	4	4,830
Pregnant women	3	1,455
Residents of long term care	0	1,051
65 years of age and over	10	48,525
All children 6 months up to and including 23 months*	Dose #1	18
	Dose #2	75
All children 24 months up to and including 59 months*	Dose #1	10
	Dose #2	9
High risk: 5 years up to and including 8 years*	Dose #1	1
	Dose #2	0
High risk: 9 years up to and including 64 years	9	17,195
Healthy: 5 years up to and including 8 years*	Dose #1	5
	Dose #2	2
Healthy: 9 years up to and including 64 years	80	68,197
Total number of clients who have received 1 dose	141	162,512
Total number of 2nd doses administered to those eligible*	86	3,085

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: May 3, 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-Mar 31, 2011)

Priority Group		# Immunized Oct 3, 2010-Mar 31, 2011
Long term care staff		5,483
Health care workers		17,542
Pregnant women		366
Residents of long term care		3,558
65 years of age and over		23,567
All children 6 months up to and including 23 months*	Dose #1	393
	Dose #2**	73
All children 24 months up to and including 59 months*	Dose #1	614
	Dose #2**	29
High risk: 5 years up to and including 8 years*	Dose #1	1,075
	Dose #2**	2
High risk: 9 years up to and including 64 years		13,508
Healthy: 5 years up to and including 8 years*	Dose #1	1,283
	Dose #2**	7
Healthy: 9 years up to and including 64 years		31,459
Total number of clients who have received 1 dose		98,848
Total number of 2nd doses administered to those eligible*		111

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 second report (for doses delivered from Oct 3 to Mar 31, 2011.)

*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: May 3, 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

Influenza activity has generally been declining in North Zone, however several other respiratory viruses including rhino-enterovirus and RSV continue to circulate.

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

Influenza activity generally appears to be declining in North Zone. So far this season, 285 cases of influenza have been confirmed in North Zone (27.4% have been identified as influenza A (H3), 27.4% as influenza A (H1N1) 2009, 44.9% as influenza B and 0.4% as influenza A with unresolved sub-typing). 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 (39.3 per 10,000 compared to 16.7 per 10,000 or lower).

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

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

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

Despite some fluctuations, the number of calls to Health Link Alberta by residents of North Zone for cough or breathing difficulties has generally been declining since the end of March, 2011.

Emergency Department/Urgent Care Center Visits and Hospital Admissions

There are no data available for the North Zone.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

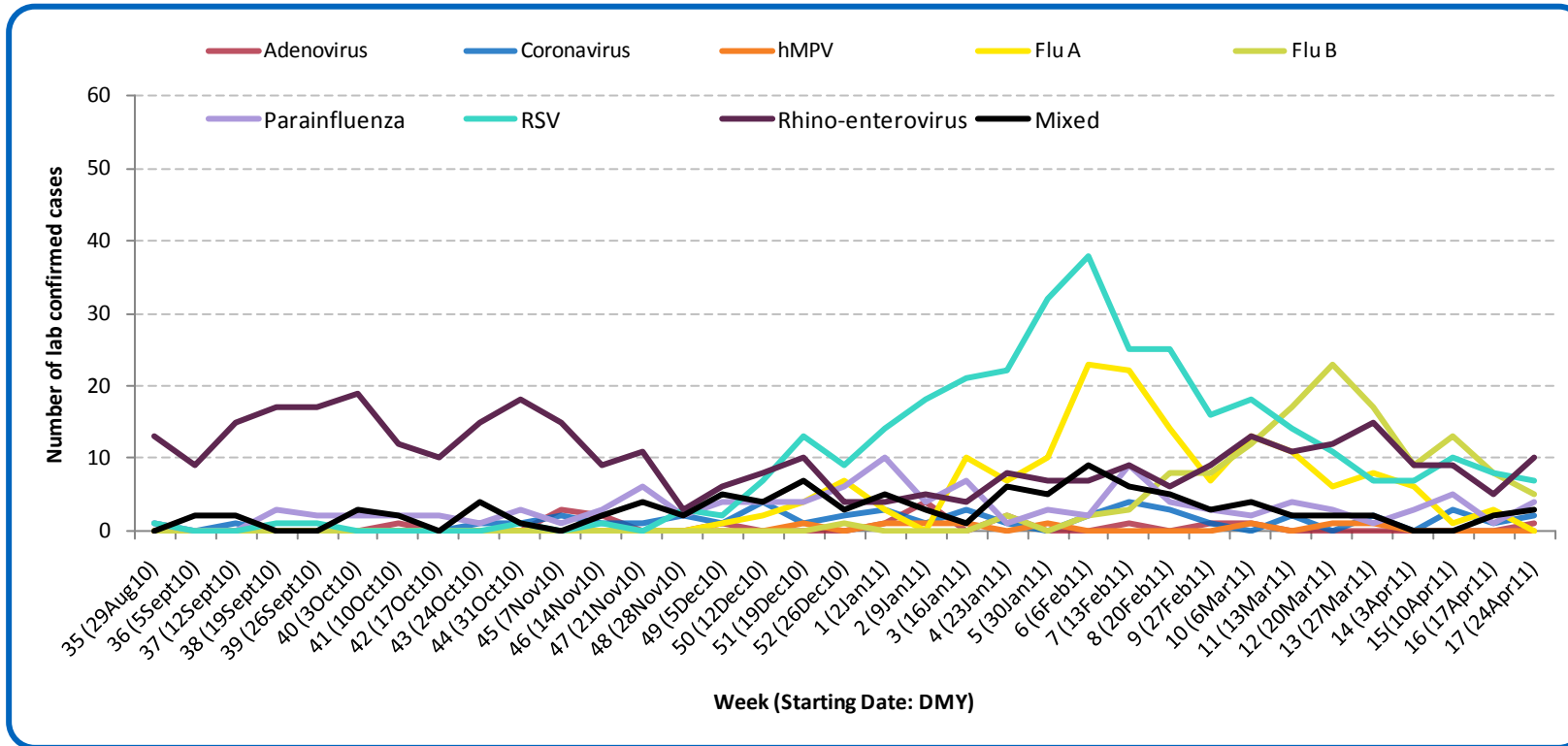
Public Health Surveillance

Report Date: May 3, 2011

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

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



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Apr 30, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

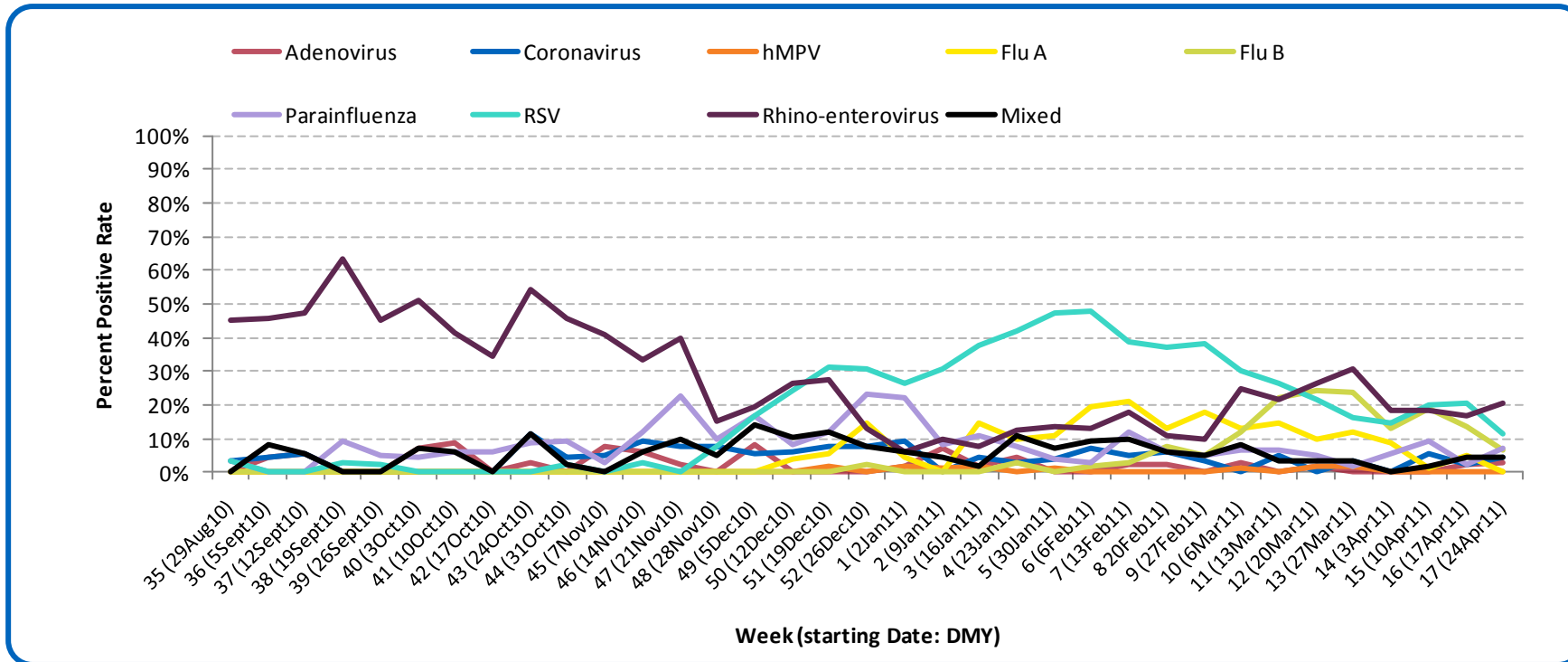
SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance
Report Date: May 3, 2011

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

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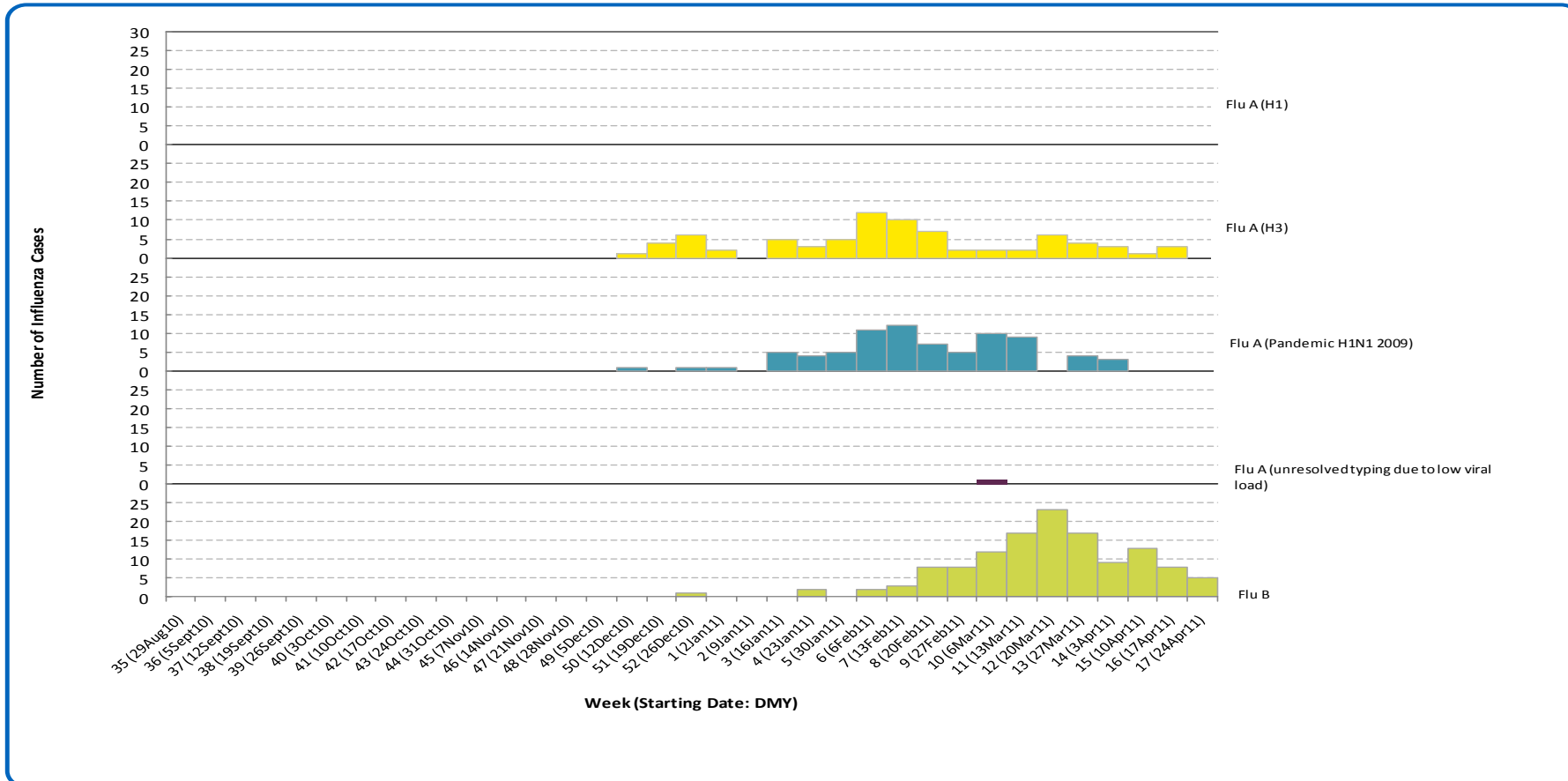
Figure 6B: Respiratory specimen percent positive rates, by virus type, by week, North Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Apr 30, 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: Eight 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 30, 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: May 3, 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 6A: New influenza cases (and age specific rates), by subtype, by age group, North Zone (Week 17: Apr 24-30, 2011)

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)			Flu B		Total
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	0	0.0	0	0.0	0	0.0	3	2.1	3	2.1
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	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
75+ years	0	0.0	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	3	0.1	3	0.1

Table 6B: Cumulative influenza cases (and age specific rates), by subtype, by age group, North Zone (Aug 29, 2010-Apr 30, 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	24	16.8	56	39.3
2 to <5 years	0	0.0	9	4.4	4	2.0	0	0.0	21	10.3	34	16.7
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	27	1.0	41	1.5	0	0.0	46	1.6	114	4.0
65 to <75 years	0	0.0	2	0.9	0	0.0	0	0.0	6	2.7	8	3.6
75+ years	0	0.0	6	3.8	0	0.0	0	0.0	0	0.0	6	3.8
Total	0	0.0	78	1.8	78	1.8	1	<0.1	128	<0.1	285	6.5

Source for Tables 6A & 6B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before *Apr 30, 2011*).

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

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

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

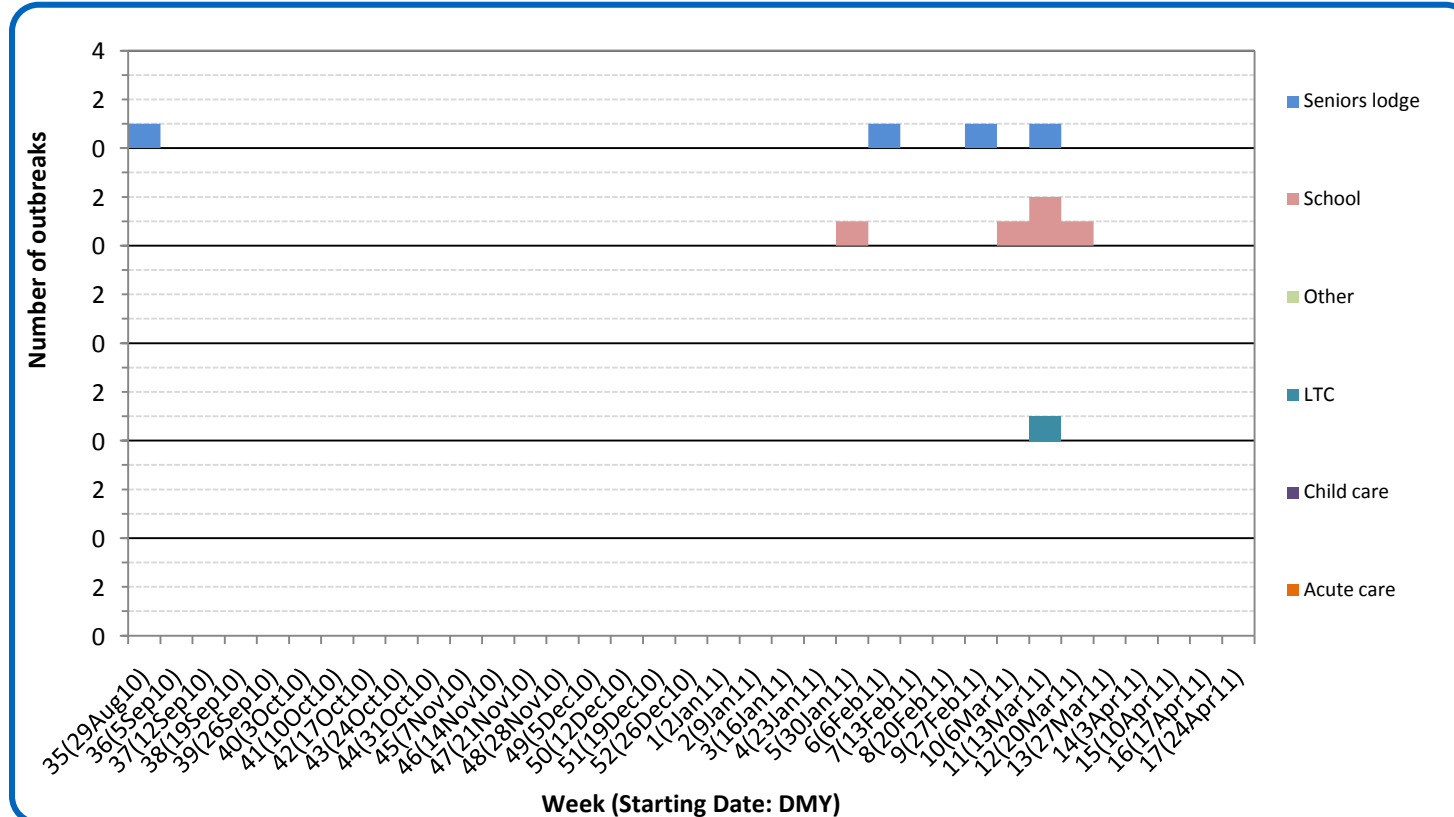
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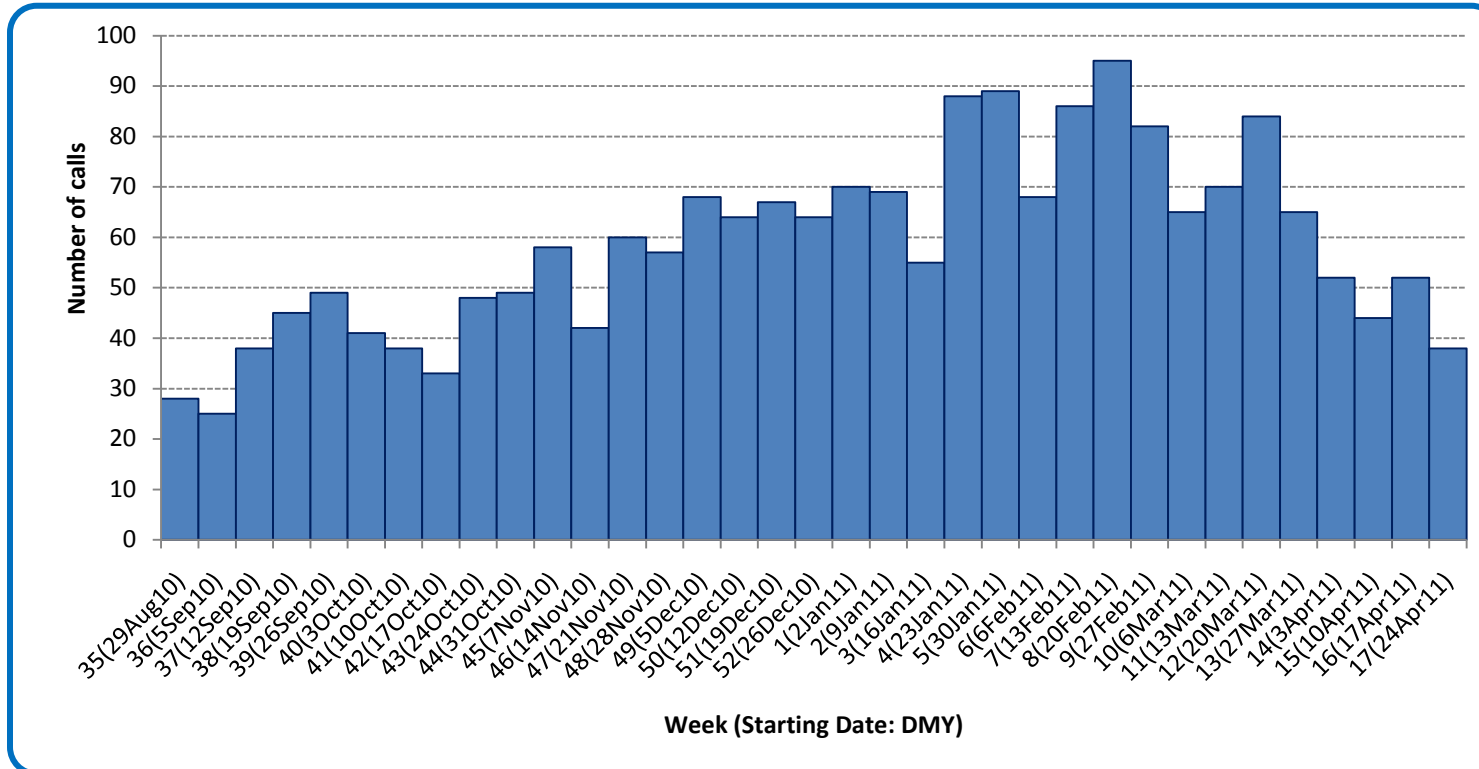
Figure 6D: Respiratory outbreaks, by facility type, by onset week, North Zone (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Apr 30, 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 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 30, 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

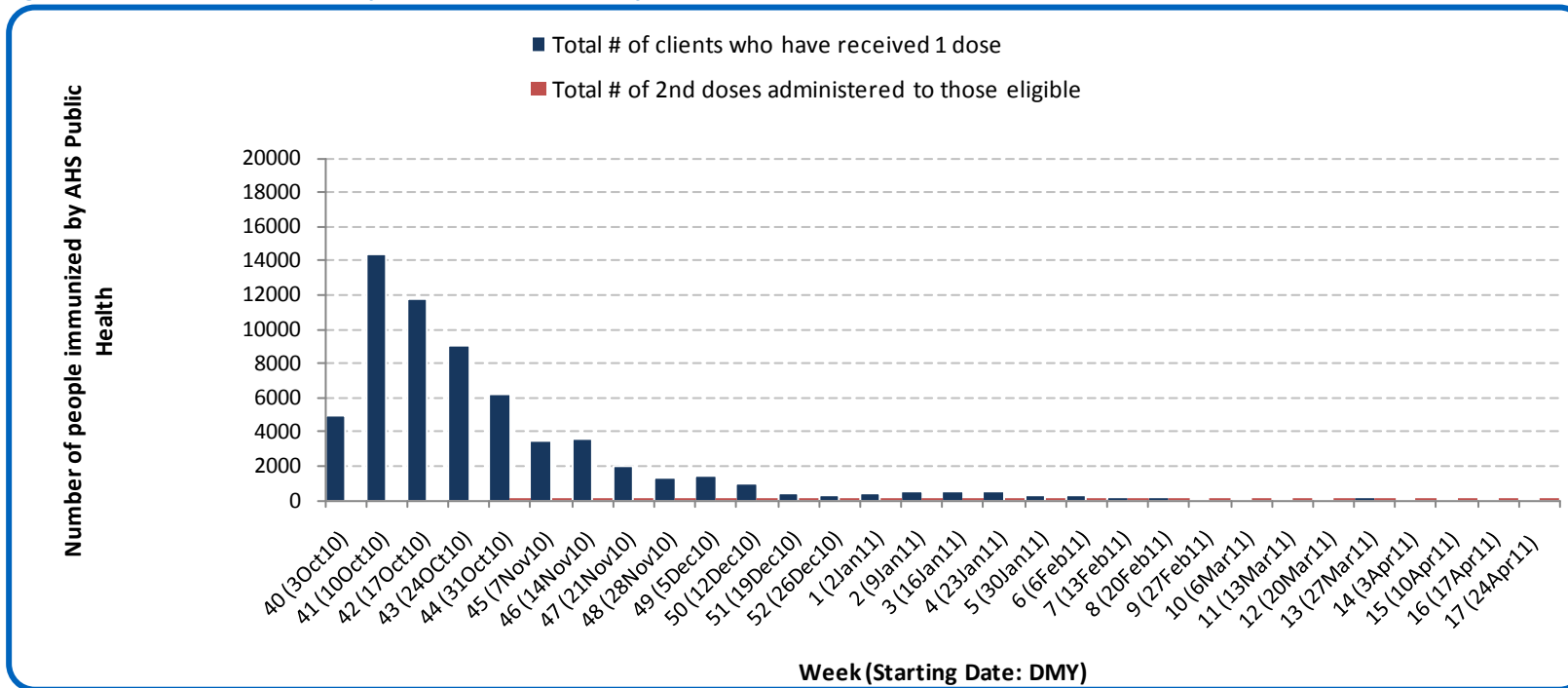
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Figure 6F: Number immunized by AHS (Public Health), by week, North Zone (2010-2011)



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 17 – Apr 24-Apr 30, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		0	820
Health care workers		1	4,721
Pregnant women		0	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	0	2,451
	Dose #2	8	950
All children 24 months up to and including 59 months*	Dose #1	0	2,569
	Dose #2	2	144
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		0	7,878
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		2	23,650
Total number of clients who have received 1 dose		3	63,168
Total number of 2nd doses administered to those eligible*		10	1,169

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-Mar 31, 2011)

Priority Group		# Immunized
		Oct 3, 2010-Mar 31, 2011
Long term care staff		37
Health care workers		176
Pregnant women		11
Residents of long term care		47
65 years of age and over		357
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		704
Healthy: 5 years up to and including 8 years*	Dose #1	2
	Dose #2**	0
Healthy: 9 years up to and including 64 years		4,977
Total number of clients who have received 1 dose		6,312
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 second report (for doses delivered from Oct 3 to Mar 31, 2011.)

*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.

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

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