

## Weekly Report

March 29th, 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?

- In Europe, influenza has peaked in most countries, although cases of Severe Acute Respiratory Infections (SARI) are still above baseline in some parts of Eastern Europe (Georgia, the Republic of Moldova, Romania, Serbia and Ukraine). Of note, in the European Economic Area (EEA), the most frequently reported risk factor for severe influenza infections is obesity. Influenza A (H1N1) 2009 is still the predominant strain in Europe, making up about 70% of all viruses characterized. Influenza B comprises about 28% of all viruses characterized.
- Ongoing transmission of influenza A (H1N1) 2009 and influenza type B continues in parts of Northern Africa and the Middle East, including Tunisia, Algeria, Oman and Iran. Activity in Asia remains relatively low where influenza A (H1N1) 2009, influenza A (H3N2) and influenza B are co-circulating.
- In North America, influenza activity is decreasing in Canada and the United States, and remains low in Mexico, although the number of deaths due to pneumonia and influenza in the US remains above the epidemic threshold for this time of year. In Mexico, influenza type B has been the most frequent influenza virus detected. In the US, the influenza virus detections have been predominantly A (H3N2) and type B, however the proportion of influenza A (H1N1) 2009 detections have been increasing steadily. In Canada, influenza B detections continue to increase proportionately and now account for 28% of all influenza positive specimens in Canada. Of note, over ¾ of the fatal influenza cases reported in Canada have been in patients aged 65 years or older with the majority sub-typed as influenza A (H3N2).
- After several weeks of declining trends in Alberta, several indicators of respiratory virus activity increased in Week 12 (Mar 20-26, 2011) from the previous week. Generally, RSV and influenza A activity are gradually declining, while influenza B activity continues to increase. Laboratory data indicates rhino-enterovirus activity is increasing and outbreak reports suggest several other respiratory viruses are circulating as well. As of the end of last week (Mar 26, 2011), the total number of influenza cases confirmed in the province this season is 1162, of which 40.4% have been identified as influenza A (H3), 18.4% as influenza A (H1N1) 2009, 39.1% as influenza type B, and 2.2% influenza A with unresolved sub-typing.
- Since the last update, there have been six respiratory outbreaks confirmed in Alberta. One, mentioned in a previous report, occurred in a Central Zone seniors' lodge and was attributed to coronavirus. Two outbreaks occurred in North Zone including one attributed to RSV (in a seniors' lodge) and one attributed to influenza B (in a school). Two Edmonton Zone outbreaks were attributed to RSV (in a long term care facility) and influenza B (in a school). Lastly, one outbreak occurred in a Calgary Zone long term care facility and was attributed to influenza A (H3). In addition to the outbreaks confirmed, two respiratory outbreaks in Edmonton Zone were reported in long term care facilities. These are currently pending laboratory confirmation.

If you have questions about the Alberta Respiratory Virus Surveillance Update, or any of the indicators, please contact: [AHSPublicHealthSurveillance@albertahealthservices.ca](mailto: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 12 (starting Mar 20/11) |         |         |          |         |         |
|                            |  |                                   | South  | Calgary | Central | Edmonton | North   |         |
| Laboratory Confirmed Cases | Number of cases with a positive respiratory specimen <sup>1</sup>  | Adenovirus                        | 4  | 38      | 11      | 77       | 17      | 147     |
|                            |  | Coronavirus                       | 11   | 64      | 34      | 105      | 38      | 252     |
|                            |  | Human metapneumovirus (hMPV)      | 9  | 5       | 0       | 14       | 7       | 35      |
|                            |  | Influenza A                       | 40   | 186     | 98      | 245      | 139     | 708     |
|                            |  | Influenza B                       | 43   | 155     | 45      | 136      | 75      | 454     |
|                            |  | Parainfluenza                     | 30   | 92      | 54      | 184      | 100     | 460     |
|                            |  | Respiratory syncytial virus (RSV) | 117  | 449     | 201     | 729      | 296     | 1792    |
|                            |  | Rhino enterovirus                 | 105  | 446     | 168     | 625      | 308     | 1652    |
|                            |  | Mixed                             | 36   | 140     | 55      | 151      | 91      | 473     |
|                            |  | Total                             | 395  | 1575    | 666     | 2266     | 1071    | 5973    |
| Outbreaks                  | # laboratory confirmed respiratory outbreaks <sup>2</sup>  | 0                                 | 22   | 9       | 33      | 6        | 70      |         |
| Influenza Immunizations    | Total number of clients who have received 1 dose administered by AHS Public Health <sup>3</sup> (cumulative since Oct 3, 2010) | 43,275                            | 192,786  | 61,832  | 161,981 | 62,942   | 522,816 |         |
|                            | The reported number of people who have received 1 dose administered by external providers (Oct 3-Dec 31, 2010) <sup>4</sup>    | 17,639                            | 120,408  | 17,789  | 62,481  | 5,075    | 223,392 |         |

-- Information not available

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

<sup>1</sup> Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 26, 2011).

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

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

<sup>4</sup> 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: March 29, 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

After several weeks of declining trends, several indicators increased in Week 12 (Mar 20-26, 2011) from the previous week. Generally, influenza A activity is gradually declining, while influenza B activity continues to increase. Laboratory data indicate rhino-enterovirus activity is increasing and outbreak reports suggest several other respiratory viruses are circulating as well.

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

In Alberta, RSV activity continues to decline. Overall, influenza B activity continues to increase while influenza A activity is gradually decreasing. The majority of the influenza cases confirmed last week (Mar 20-26, 2011) were identified as influenza B. As of the end of last week (Mar 26, 2011), the total number of confirmed cases of influenza in the province this season is 1162 (40.4% influenza A (H3), 18.4% influenza A (H1N1) 2009, 39.1% influenza type B, and 2.2% 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 16.2 per 10,000 compared to 6.7 per 10,000 or lower for all other age groups.

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

Since the last update, there have been six outbreaks confirmed in Alberta. One, mentioned in a previous report, occurred in a Central Zone seniors lodge and was attributed to coronavirus. Two occurred in North Zone including one in a seniors' lodge and another in a school. These were attributed to RSV and influenza B, respectively. Two outbreaks occurred in Edmonton Zone, including one attributed to RSV (in a long term care facility) and one attributed to influenza B (in a school). The last outbreak confirmed since the last update occurred in a Calgary Zone long term care facility and was attributed to influenza A (H3). The onset of symptoms for the outbreaks confirmed ranged from occurring during Week 8 (Feb 20-26, 2011) to Week 12 (Mar 20-26, 2011).

In addition to the outbreaks confirmed, two respiratory outbreaks were reported in Edmonton Zone in long term care facilities. The preliminary attack rates for these were both 3%. These are currently pending laboratory confirmation.

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

Despite a slight increase in the number of calls to Health Link Alberta for cough or breathing difficulties by Albertans in Week 12 (Mar 20-26, 2011) from the previous week, the general trend in recent weeks has been declining.

### Emergency Department/Urgent Care Center Visits and Hospital Admissions

Despite a general decreasing trend occurring over the last several weeks, the combined number of visits and hospital admissions at emergency departments/urgent care centers (ED's) for influenza-like illness (ILI) in the City of Calgary and Edmonton Zone increased by 9% and 50%, respectively, in Week 12 (Mar 20-26, 2011) from the previous week. The percentage of ILI visits of all screened visits is now at 6%.

The number of ED visits for cough symptoms remained unchanged in Week 12 (Mar 20-26, 2011) from the previous week, while the number of hospital admissions for this reason decreased by 19%. Generally, the trend for these indicators in recent weeks has been decreasing.

### Sentinel Physician Office Visits

The combined percentage of ILI- and LRTI-related visits of all visits to sentinel physician offices in Alberta remained relatively unchanged in Week 11 (Mar 13-19, 2011) compared to the previous week. Since the middle of February, 2011, despite some fluctuations, this indicator has remained relatively stable.

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

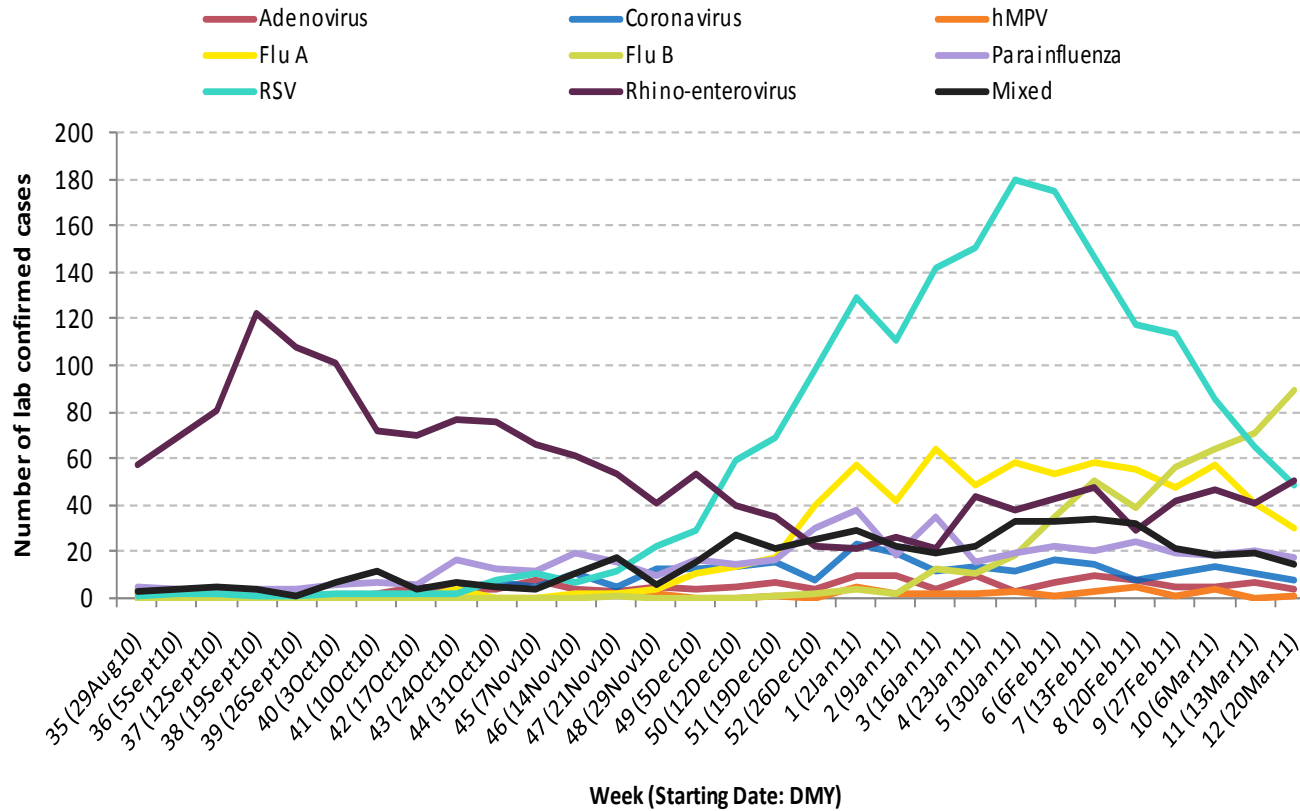
### Public Health Surveillance

Report Date: March 29, 2011

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



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 26, 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**

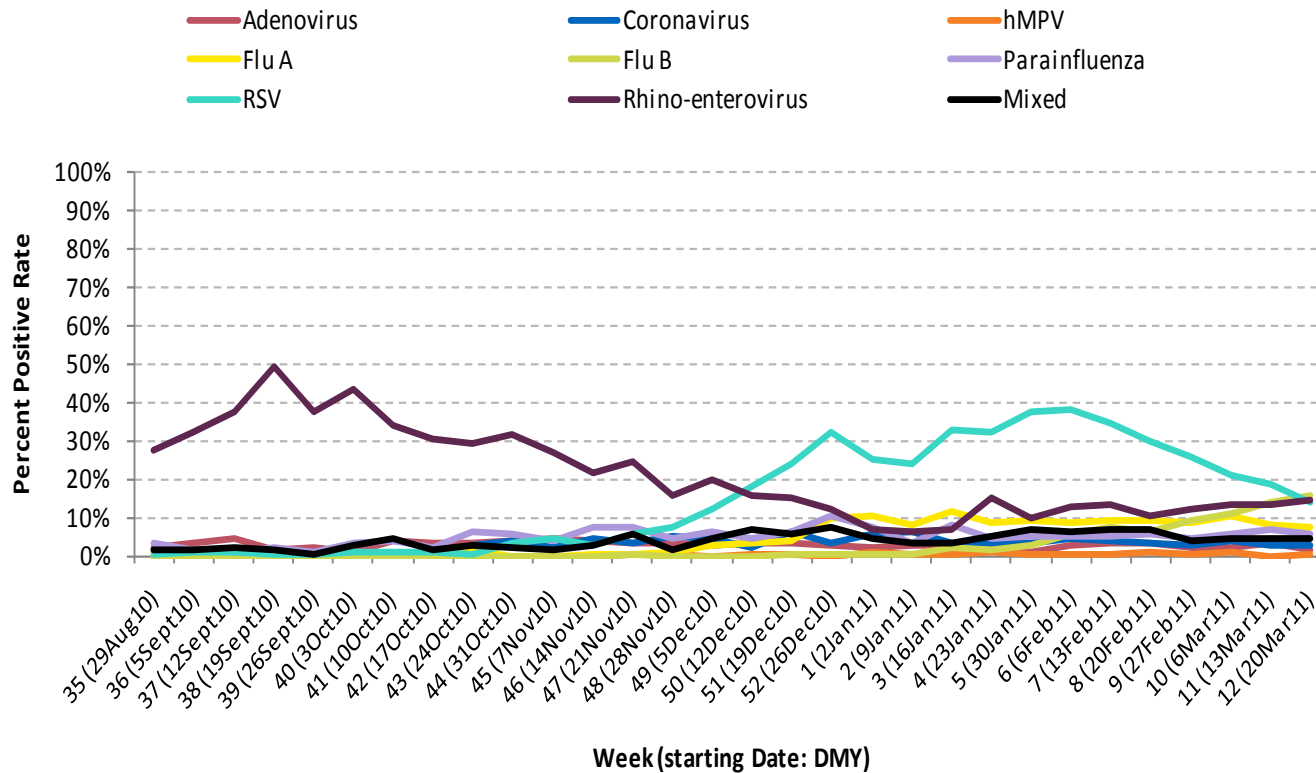
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Figure 1B: Respiratory specimen percent positive rates, by virus type, by week, Alberta (2010-11)



Sources: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Mar 26, 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**

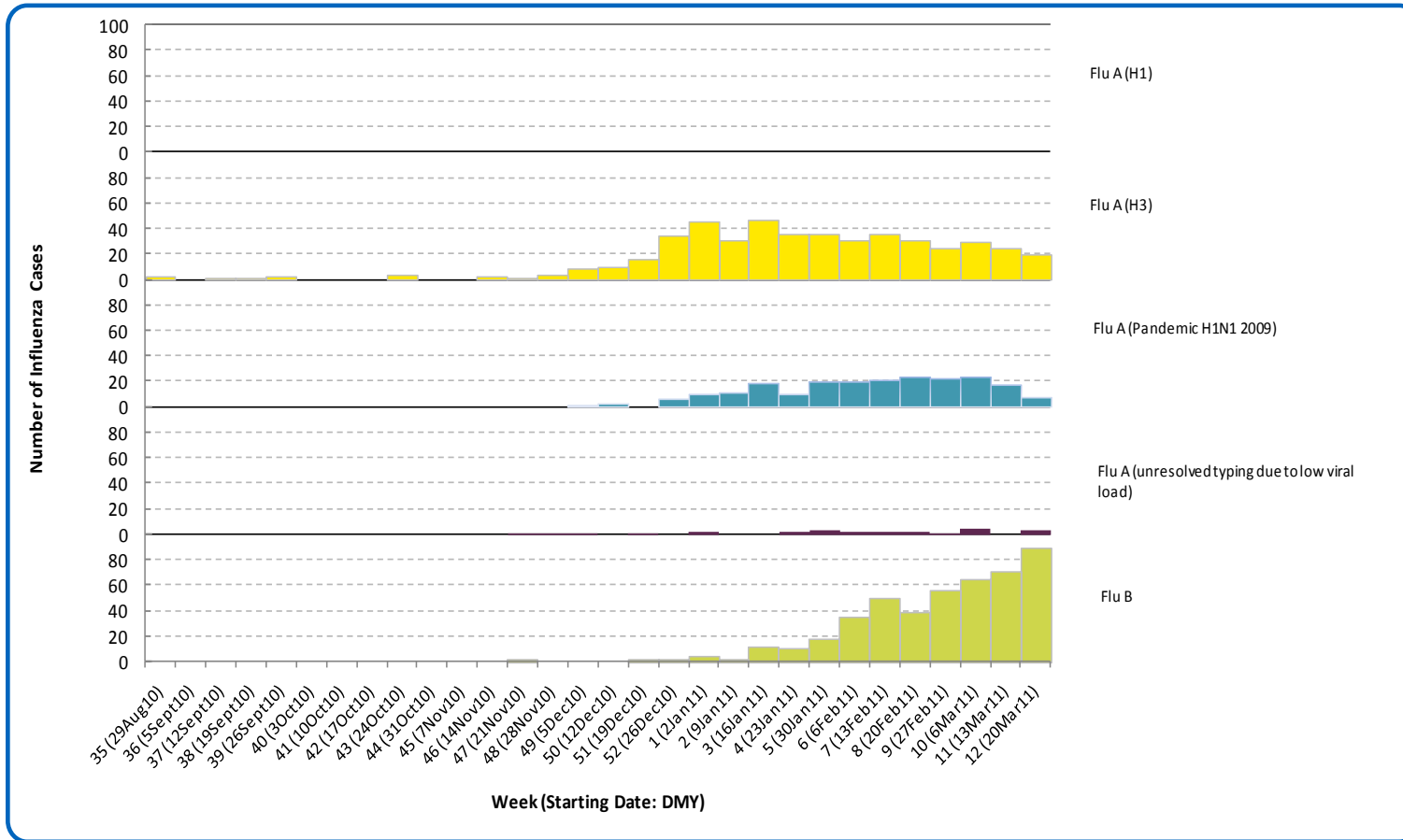
**Public Health Surveillance**

Report Date: March 29, 2011

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



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

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 26, 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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**Table 1A: New influenza cases (and age specific rates), by subtype, by age group, Alberta (Week 12: Mar 20-26, 2011)**

|                 | Flu A (Seasonal-H1) |                   | Flu A (Seasonal-H3) |                   | Flu A (Pandemic H1N1 2009) |                   | Flu A (unresolved typing due to low viral load) |                   | Flu B     |                   | Total      |                   |
|-----------------|---------------------|-------------------|---------------------|-------------------|----------------------------|-------------------|---|-------------------|-----------|-------------------|------------|-------------------|
|                 | #                   | Rate (per 10,000) | #                   | Rate (per 10,000) | #                          | Rate (per 10,000) | #   | Rate (per 10,000) | #         | Rate (per 10,000) | #          | Rate (per 10,000) |
| 0 to <2 years   | 0                   | 0.0               | 1                   | 0.1               | 1                          | 0.1               | 0   | 0.0               | 11        | 1.1               | 13         | 1.3               |
| 2 to <5 years   | 0                   | 0.0               | 1                   | 0.1               | 0                          | 0.0               | 0   | 0.0               | 12        | 0.8               | 13         | 0.9               |
| 5 to <9 years   | 0                   | 0.0               | 3                   | 0.2               | 1                          | 0.1               | 0   | 0.0               | 13        | 0.7               | 17         | 0.9               |
| 9 to <18 years  | 0                   | 0.0               | 0                   | 0.0               | 2                          | <0.1              | 1   | <0.1              | 16        | 0.4               | 19         | 0.5               |
| 18 to <65 years | 0                   | 0.0               | 11                  | 0.0               | 4                          | <0.1              | 1   | <0.1              | 31        | 0.1               | 47         | 0.2               |
| 65 to <75 years | 0                   | 0.0               | 1                   | <0.1              | 0                          | <0.1              | 0   | 0.0               | 3         | 0.1               | 4          | 0.2               |
| 75+ years       | 0                   | 0.0               | 2                   | 0.1               | 0                          | 0.0               | 1   | 0.1               | 3         | 0.2               | 6          | 0.3               |
| <b>Total</b>    | <b>0</b>            | <b>0.0</b>        | <b>19</b>           | <b>0.1</b>        | <b>8</b>                   | <b>0.0</b>        | <b>3</b>  | <b>&lt;0.1</b>    | <b>89</b> | <b>0.2</b>        | <b>119</b> | <b>0.3</b>        |

**Table 1B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Alberta (Aug 29, 2010 – Mar 26, 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               | 70                  | 6.8               | 27                         | 2.6               | 5   | 0.5               | 65         | 6.3               | 167         | 16.2              |
| 2 to <5 years   | 0                   | 0.0               | 36                  | 2.4               | 15                         | 1.0               | 2   | 0.1               | 47         | 3.2               | 100         | 6.7               |
| 5 to <9 years   | 0                   | 0.0               | 33                  | 1.8               | 10                         | 0.6               | 2   | 0.1               | 68         | 3.8               | 113         | 6.3               |
| 9 to <18 years  | 0                   | 0.0               | 28                  | 0.7               | 17                         | 0.4               | 3   | 0.1               | 115        | 2.8               | 163         | 3.9               |
| 18 to <65 years | 0                   | 0.0               | 197                 | 0.8               | 142                        | 0.6               | 10  | <0.1              | 133        | 0.5               | 482         | 2.0               |
| 65 to <75 years | 0                   | 0.0               | 20                  | 0.9               | 3                          | 0.1               | 0   | <0.1              | 12         | 0.6               | 35          | 1.6               |
| 75+ years       | 0                   | 0.0               | 85                  | 4.6               | 0                          | 0.0               | 3   | 0.2               | 14         | 0.8               | 102         | 5.5               |
| <b>Total</b>    | <b>0</b>            | <b>0.0</b>        | <b>469</b>          | <b>1.3</b>        | <b>214</b>                 | <b>0.6</b>        | <b>25</b>                                       | <b>0.1</b>        | <b>454</b> | <b>1.2</b>        | <b>1162</b> | <b>3.1</b>        |

Source for Table 1A & 1B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 26, 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

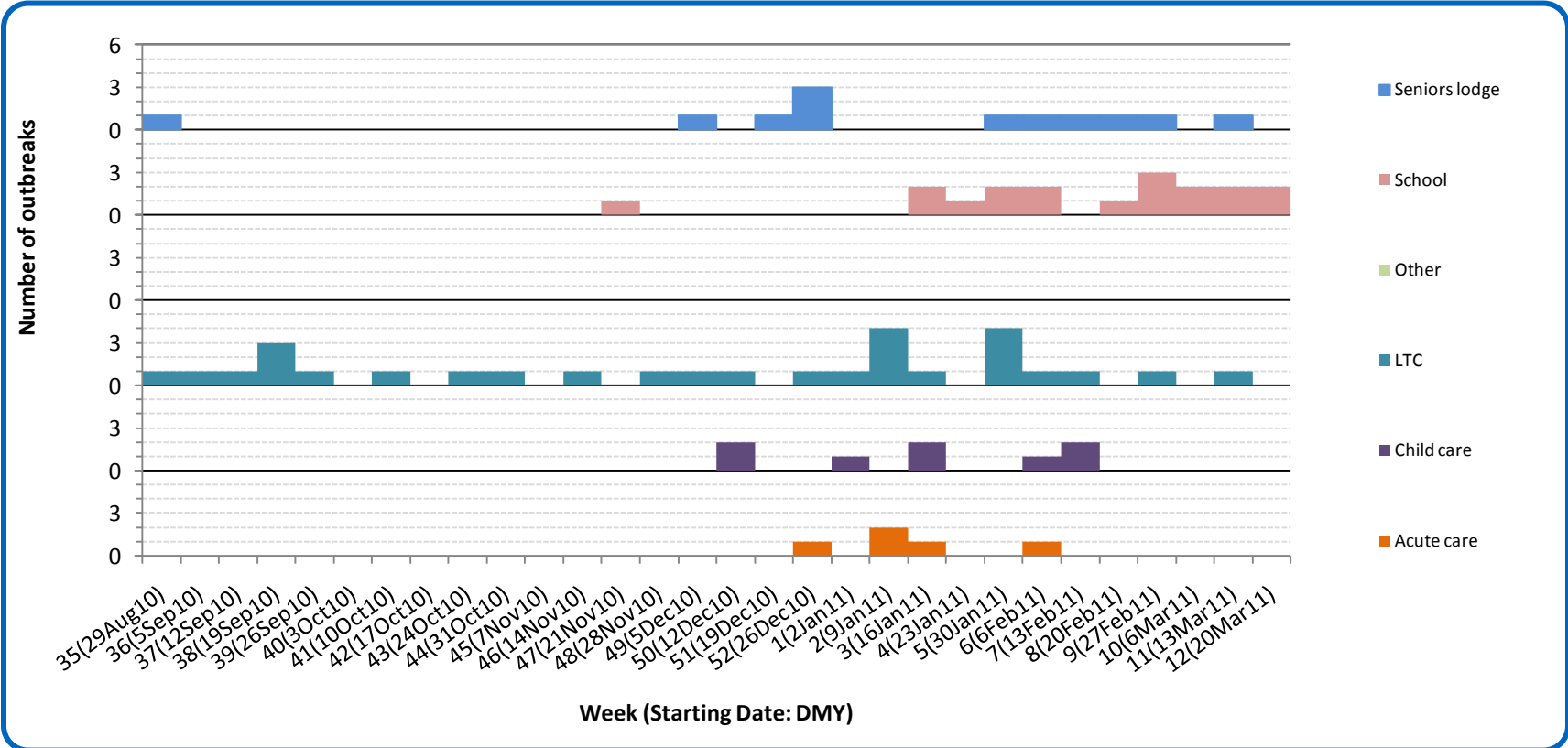
### Public Health Surveillance

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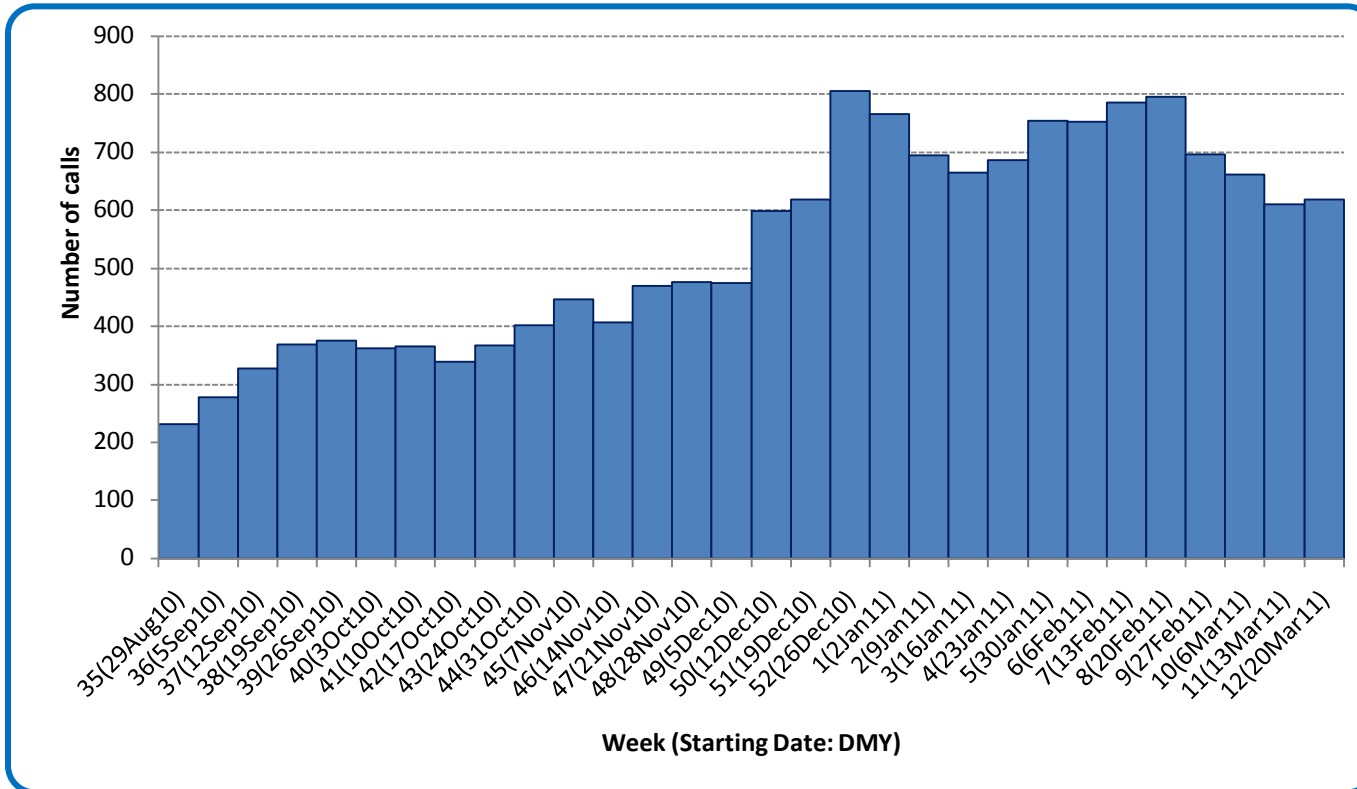
Figure 1D: Respiratory outbreaks, by facility type, by onset week, Alberta (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Mar 26, 2011. LTC stands for long term care facility. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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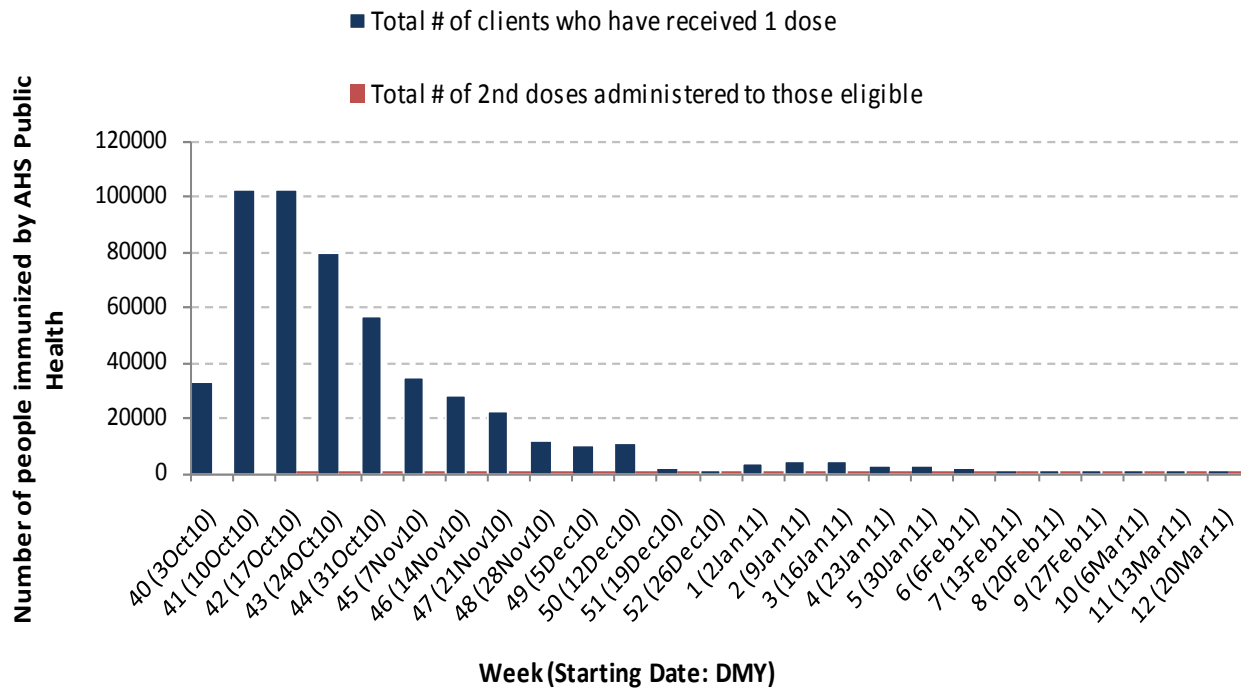
Figure 1E: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, Alberta (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Mar 26, 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](#)

**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

**Public Health Surveillance**

Report Date: March 29, 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 1C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, Alberta (2010-11)**

| Priority Group  | # Immunized<br>(Week 12 –<br>Mar20-26, 2011) | Cumulative Number<br>Immunized (since<br>Oct 3, 2010) |
|---|--|---|
| Long term care staff                                      | 8  | 2,641   |
| Health care workers                                       | 11   | 19,041  |
| Pregnant women  | 14   | 4,739   |
| Residents of long term care                               | 0  | 4,840   |
| 65 years of age and over                                  | 9  | 146,777   |
| All children 6 months up to and including 23 months*      | Dose #1                                      | 27,239  |
|   | Dose #2                                      | 8,945   |
| All children 24 months up to and including 59 months*     | Dose #1                                      | 25,501  |
|   | Dose #2                                      | 1,510   |
| High risk: 5 years up to and including 8 years*           | Dose #1                                      | 5,837   |
|   | Dose #2                                      | 154   |
| High risk: 9 years up to and including 64 years           | 34   | 56,014  |
| Healthy: 5 years up to and including 8 years*             | Dose #1                                      | 18,901  |
|   | Dose #2                                      | 637   |
| Healthy: 9 years up to and including 64 years             | 272  | 211,286   |
| <b>Total number of clients who have received 1 dose</b>   | <b>878</b>                                   | <b>522,816</b>  |
| Total number of 2nd doses administered to those eligible* | 260  | 11,246  |

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

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

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

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

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

### Public Health Surveillance

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

| Priority Group  | # Immunized<br>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                            |       |
| <b>Total number of clients who have received 1 dose</b>   | <b>223,392</b>                    |       |
| 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 2<sup>nd</sup> 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

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## SECTION 2: ZONE 1 - SOUTH

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### Summary

After several weeks of declining trends, respiratory virus activity appears to have increased recently in South Zone.

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

Influenza A and influenza B activity increased in Week 12 (Mar 20-26, 2011) compared to the previous week. As of the end of last week (Mar 26, 2011), the total number of laboratory confirmed cases of influenza in this part of the province this season is 83. The age specific rate for confirmed influenza in South zone is highest for infants under the age of 2 years and children between the ages of 2 to less than 5 years, at 10.8 per 10,000 and 8.4 per 10,000, respectively.

### Outbreaks

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

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

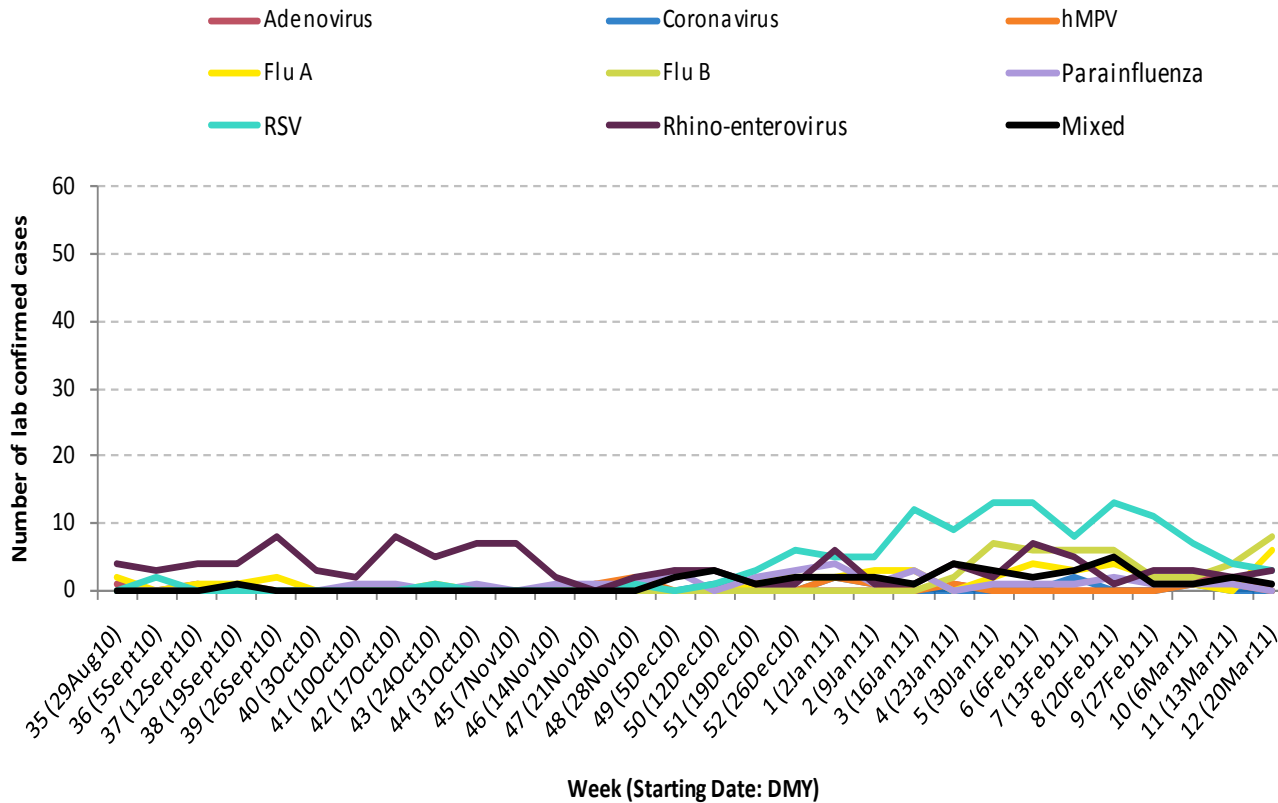
After several weeks of decline, the number of calls to Health Link Alberta for cough or breathing difficulties by residents of South Zone increased in Week 12 (Mar 20-26, 2011) from the previous week.

### 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 Mar 26, 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**

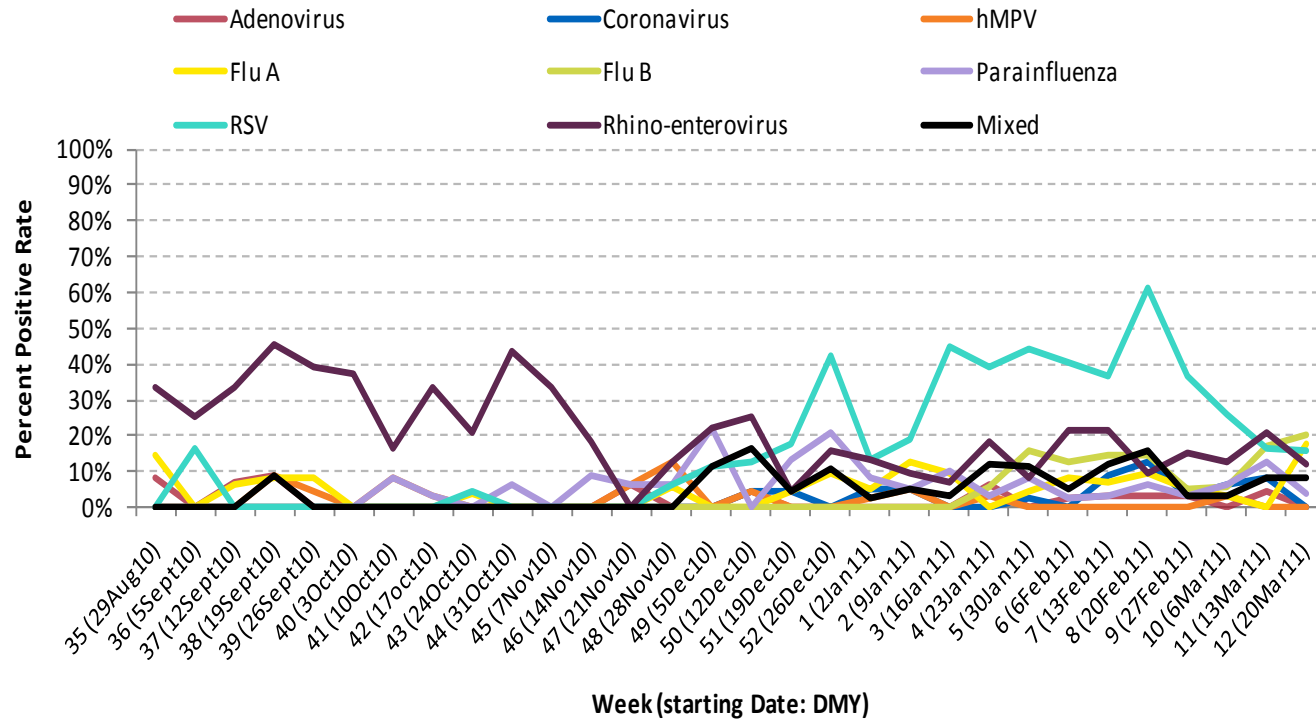
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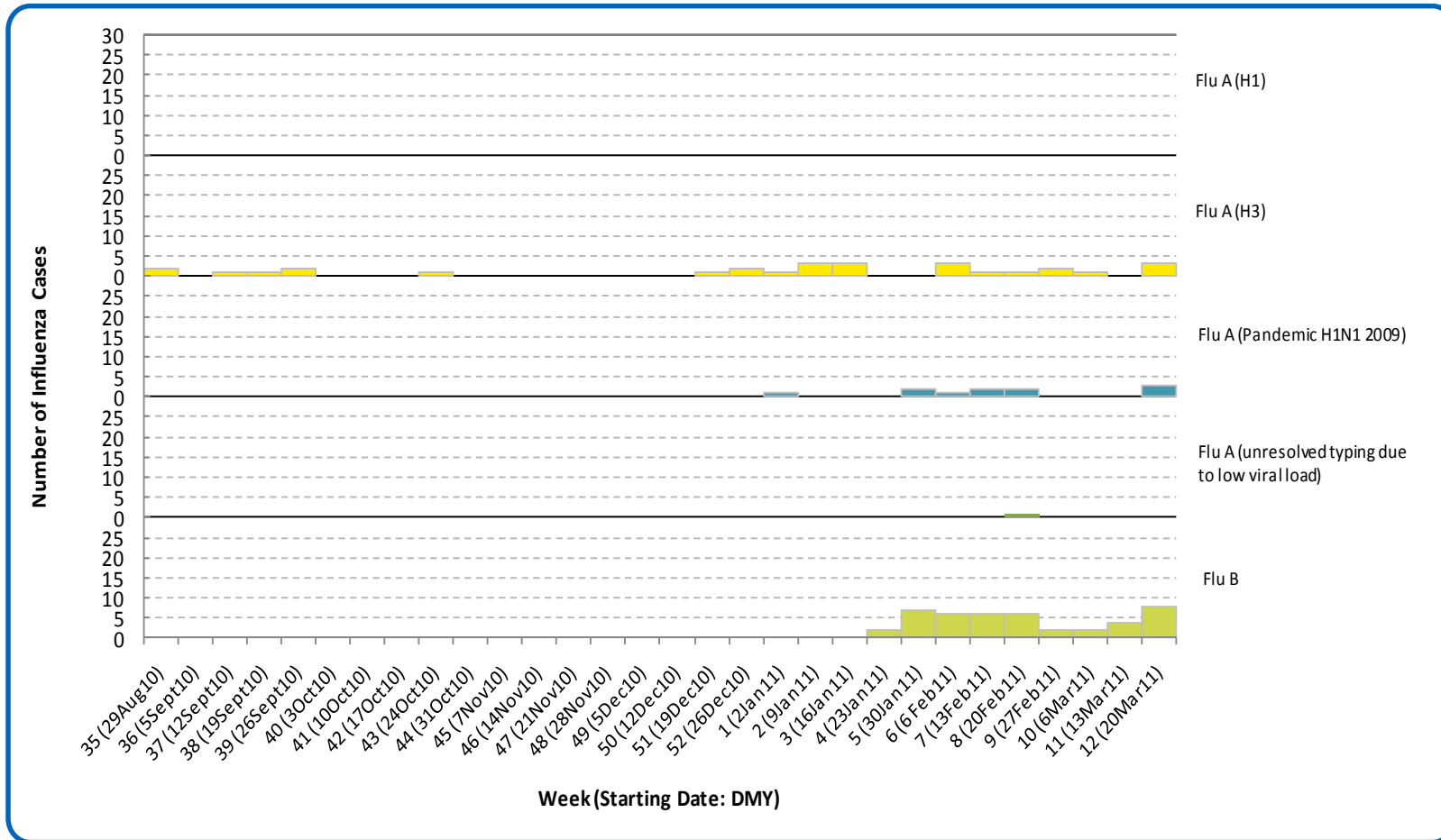
Figure 2B: Respiratory specimen percent positive rates, by virus type, by week, South Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Mar 26, 2011)  
 For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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



Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 26, 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: March 29, 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 2A: New influenza cases (and age specific rates), by subtype, by age group, South Zone (Week 12: Mar 20-26, 2011)**

|                 | Flu A (Seasonal-H1) |                   | Flu A (Seasonal-H3) |                   | Flu A (Pandemic H1N1 2009) |                   | Flu A (unresolved typing due to low viral load) |                   | Flu B    |                   | Total     |                   |
|-----------------|---------------------|-------------------|---------------------|-------------------|----------------------------|-------------------|---|-------------------|----------|-------------------|-----------|-------------------|
|                 | #                   | Rate (per 10,000) | #                   | Rate (per 10,000) | #                          | Rate (per 10,000) | #   | Rate (per 10,000) | #        | Rate (per 10,000) | #         | Rate (per 10,000) |
| 0 to <2 years   | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 1        | 1.2               | 1         | 1.2               |
| 2 to <5 years   | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 2        | 1.7               | 2         | 1.7               |
| 5 to <9 years   | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 1        | 0.7               | 1         | 0.7               |
| 9 to <18 years  | 0                   | 0.0               | 0                   | 0.0               | 1                          | 0.3               | 0   | 0.0               | 2        | 0.6               | 3         | 0.9               |
| 18 to <65 years | 0                   | 0.0               | 0                   | 0.0               | 2                          | 0.1               | 0   | 0.0               | 2        | 0.1               | 4         | 0.2               |
| 65 to <75 years | 0                   | 0.0               | 3                   | 1.5               | 0                          | 0.0               | 0   | 0.0               | 0        | 0.0               | 3         | 1.5               |
| 75+ years       | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 0        | 0.0               | 0         | 0.0               |
| <b>Total</b>    | <b>0</b>            | <b>0.0</b>        | <b>3</b>            | <b>0.1</b>        | <b>3</b>                   | <b>0.1</b>        | <b>0</b>  | <b>0.0</b>        | <b>8</b> | <b>0.3</b>        | <b>14</b> | <b>0.5</b>        |

**Table 2B: Cumulative influenza cases (and age specific rates), by subtype, by age group, South Zone (Aug 29, 2010–Mar 26, 2011)**

|                 | Flu A (Seasonal-H1) |                   | Flu A (Seasonal-H3) |                   | Flu A (Pandemic H1N1 2009) |                   | Flu A (unresolved typing due to low viral load) |                   | Flu B     |                   | Total     |                   |
|-----------------|---------------------|-------------------|---------------------|-------------------|----------------------------|-------------------|---|-------------------|-----------|-------------------|-----------|-------------------|
|                 | #                   | Rate (per 10,000) | #                   | Rate (per 10,000) | #                          | Rate (per 10,000) | #   | Rate (per 10,000) | #         | Rate (per 10,000) | #         | Rate (per 10,000) |
| 0 to <2 years   | 0                   | 0.0               | 3                   | 3.6               | 0                          | 0.0               | 0   | 0.0               | 4         | 4.8               | 7         | 8.4               |
| 2 to <5 years   | 0                   | 0.0               | 5                   | 4.2               | 2                          | 1.7               | 0   | 0.0               | 6         | 5.0               | 13        | 10.8              |
| 5 to <9 years   | 0                   | 0.0               | 1                   | 0.7               | 0                          | 0.0               | 0   | 0.0               | 4         | 2.7               | 5         | 3.4               |
| 9 to <18 years  | 0                   | 0.0               | 0                   | 0.0               | 1                          | 0.3               | 0   | 0.0               | 14        | 4.1               | 15        | 4.4               |
| 18 to <65 years | 0                   | 0.0               | 18                  | 1.0               | 6                          | 0.3               | 1   | 0.1               | 13        | 0.7               | 38        | 2.2               |
| 65 to <75 years | 0                   | 0.0               | 0                   | 0.0               | 2                          | 1.0               | 0   | 0.0               | 1         | 0.5               | 3         | 1.5               |
| 75+ years       | 0                   | 0.0               | 1                   | 0.5               | 0                          | 0.0               | 0   | 0.0               | 1         | 0.5               | 2         | 1.1               |
| <b>Total</b>    | <b>0</b>            | <b>0.0</b>        | <b>28</b>           | <b>1.0</b>        | <b>11</b>                  | <b>0.4</b>        | <b>1</b>  | <b>&lt;0.1</b>    | <b>43</b> | <b>1.5</b>        | <b>83</b> | <b>2.9</b>        |

Source for Tables 2A & 2B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before *Mar 26, 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

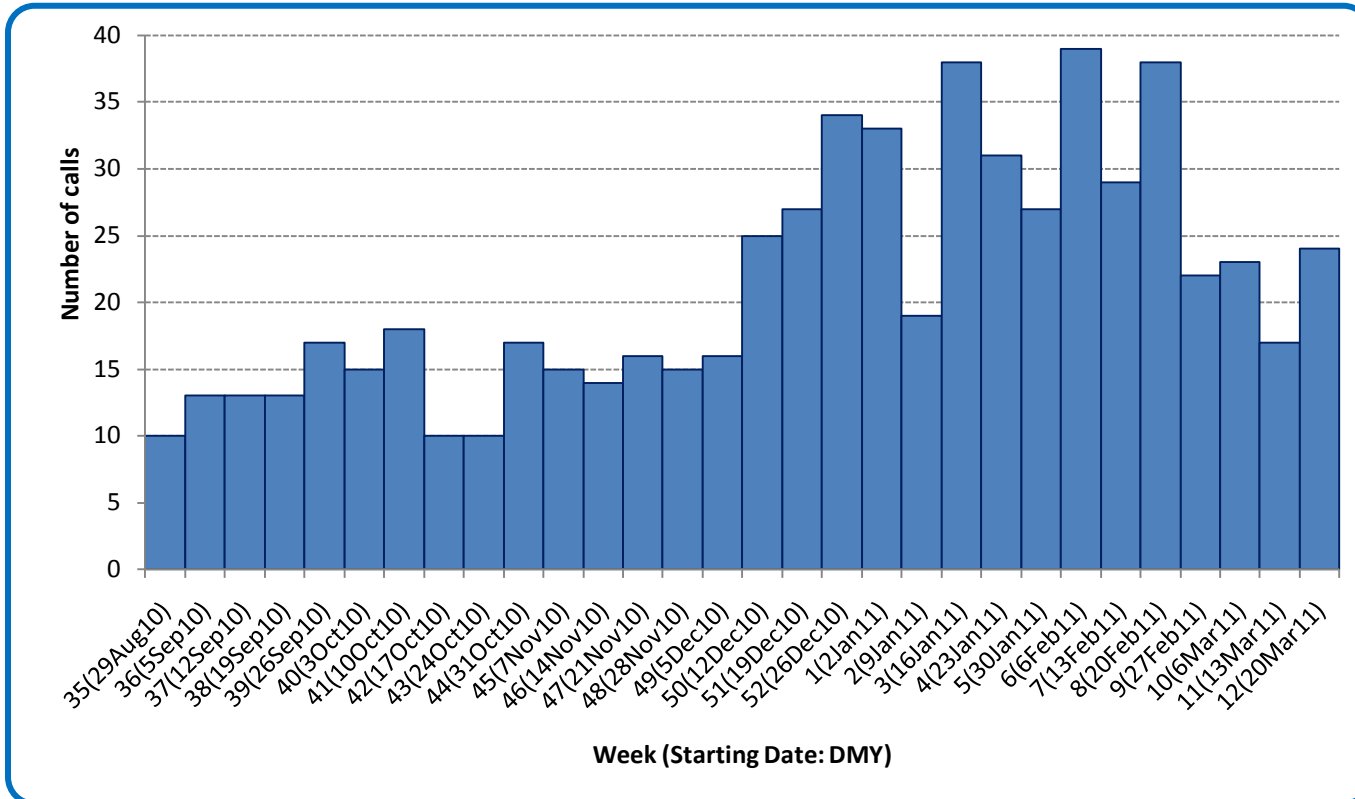
### Public Health Surveillance

Report Date: March 29, 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 Mar 26, 2011. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

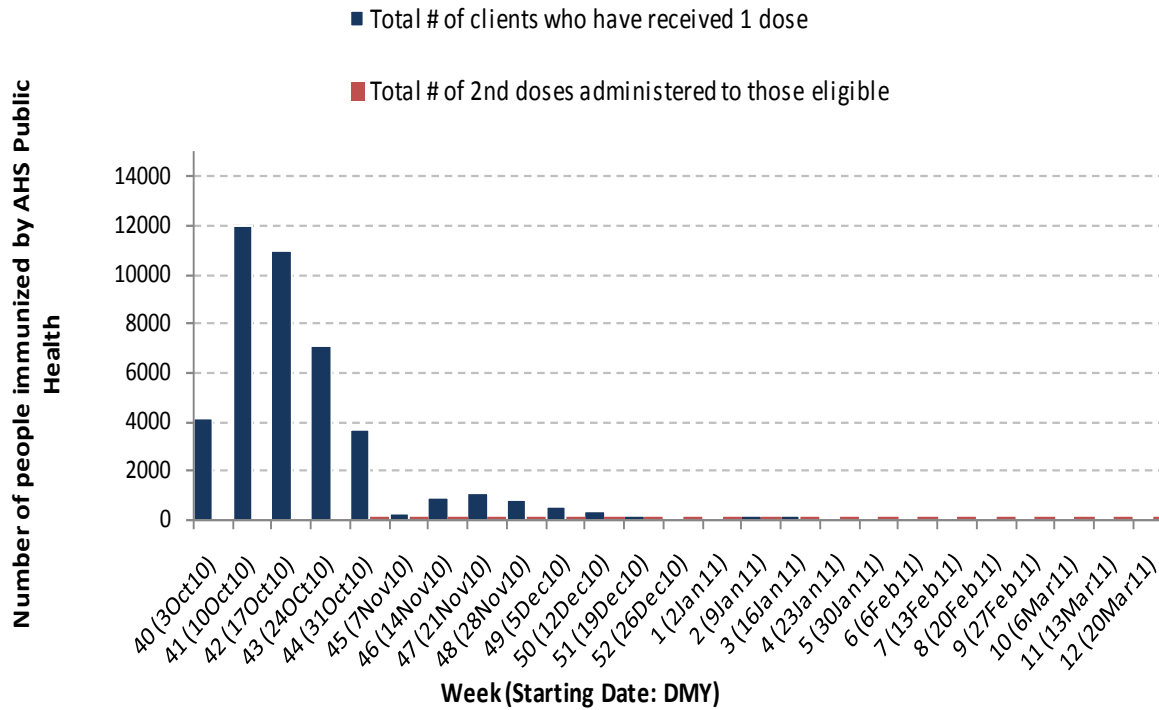
**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

Public Health Surveillance  
Report Date: March 29, 2011

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

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



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

**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

**Public Health Surveillance**  
 Report Date: March 29, 2011

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

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

| Priority Group   | Number Immunized<br>(Week 12 –<br>Mar20-26, 2011) | Cumulative Number<br>Immunized (since<br>Oct 3, 2010) |
|--|---|---|
| Long term care staff   | 1   | 617   |
| Health care workers  | 1   | 1,569   |
| Pregnant women   | 0   | 302   |
| Residents of long term care                                      | 0   | 730   |
| 65 years of age and over   | 1   | 15,603  |
| All children 6 months up to and including 23 months*             | Dose #1   | 28  |
|  | Dose #2   | 13  |
| All children 24 months up to and including 59 months*            | Dose #1   | 9   |
|  | Dose #2   | 1   |
| 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                  | 1   | 4,109   |
| Healthy: 5 years up to and including 8 years*                    | Dose #1   | 4   |
|  | Dose #2   | 0   |
| Healthy: 9 years up to and including 64 years                    | 8   | 14,731  |
| <b>Total number of clients who have received 1 dose</b>          | <b>54</b>   | <b>43,275</b>   |
| <b>Total number of 2nd doses administered to those eligible*</b> | <b>14</b>   | <b>870</b>  |

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: March 29, 2011

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

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

| Priority Group  | # Immunized<br>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                             |    |
| <b>Total number of clients who have received 1 dose</b>   | <b>17,639</b>                     |    |
| 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 2<sup>nd</sup> 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: March 29, 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

Generally, indicators for respiratory virus activity in Calgary Zone are mixed. Overall, several viruses continue to circulate, particularly RSV, influenza B and rhino-enterovirus.

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

RSV, influenza B and rhino-enterovirus are currently the predominant viruses being confirmed in Calgary Zone, although RSV activity has been consistently declining since the middle of February, 2011. Nearly all of the new influenza cases confirmed last week were type B, although unlike other parts of the province, the trend for this virus has been gradually declining for the last three weeks. Since the beginning of the season, a total of 341 cases of influenza have been confirmed in Calgary Zone (38.1% have been identified as influenza A (H3), 13.5% as influenza A (H1N1) 2009, 45.4% as influenza type B and 2.9% as influenza A untyped). 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 10.6 per 10,000.

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

Since the last report, there has been one respiratory outbreak confirmed in a Calgary Zone long term care facility. The onset of symptoms occurred during Week 9 (Feb 27-Mar 5, 2011) and the causative agent was confirmed as influenza A (H3).

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

The number of calls to Health Link Alberta for cough or breathing difficulties by residents of Calgary Zone remained relatively unchanged in Week 12 (Mar 20-26, 2011) from the previous week. Generally, this indicator appears to be on a decreasing trend that started at the end of February, 2011.

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

After several weeks of decline, the number of visits and the number of hospital admissions for influenza-like illness (ILI) at the six urban emergency departments/urgent care centers (ED's) in the City of Calgary increased by 22% and 75%, respectively, in Week 12 (Mar 20-26, 2011) compared to the previous week.

Contrary to the above trend, the number of visits and the number of hospital admissions for patients with cough symptoms at the same ED's continued to decrease in Week 12 compared to the previous week, by 5% and 41%, respectively.

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

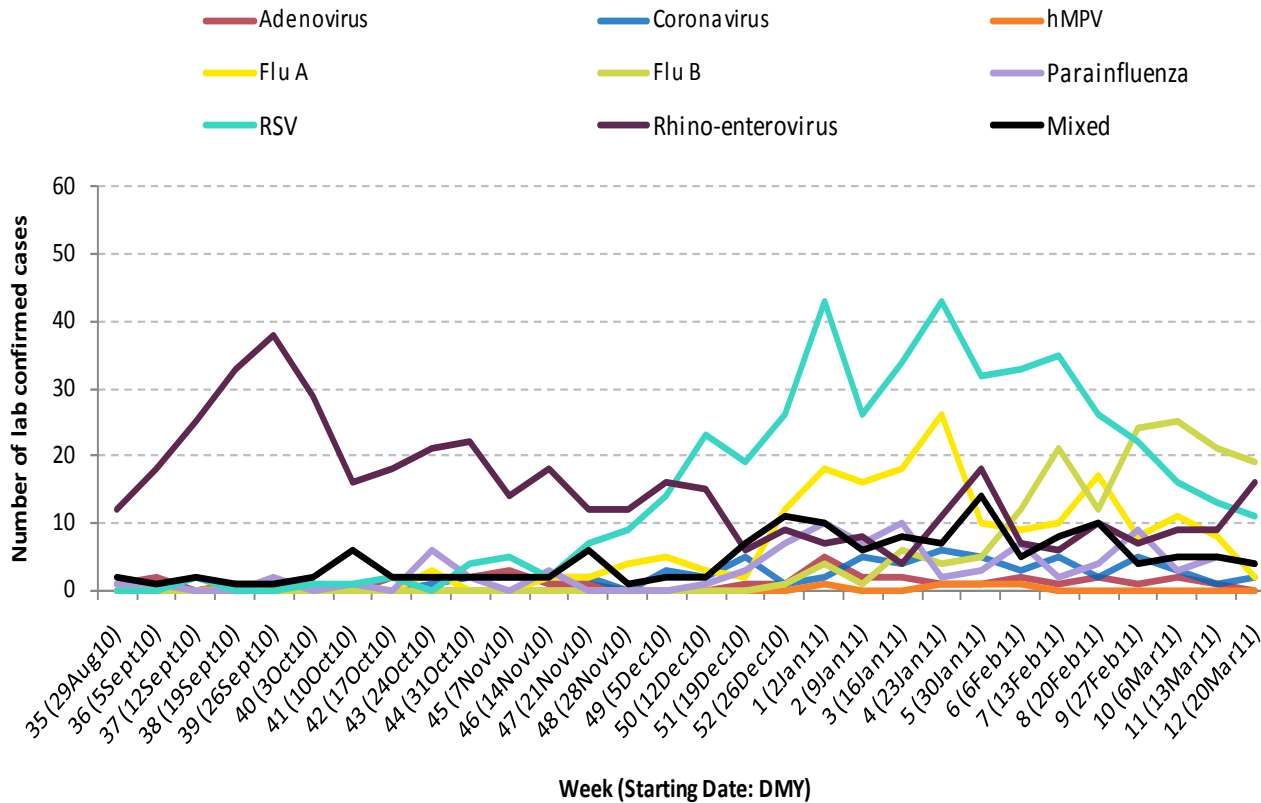
### Public Health Surveillance

Report Date: March 29, 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 Mar 26, 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**

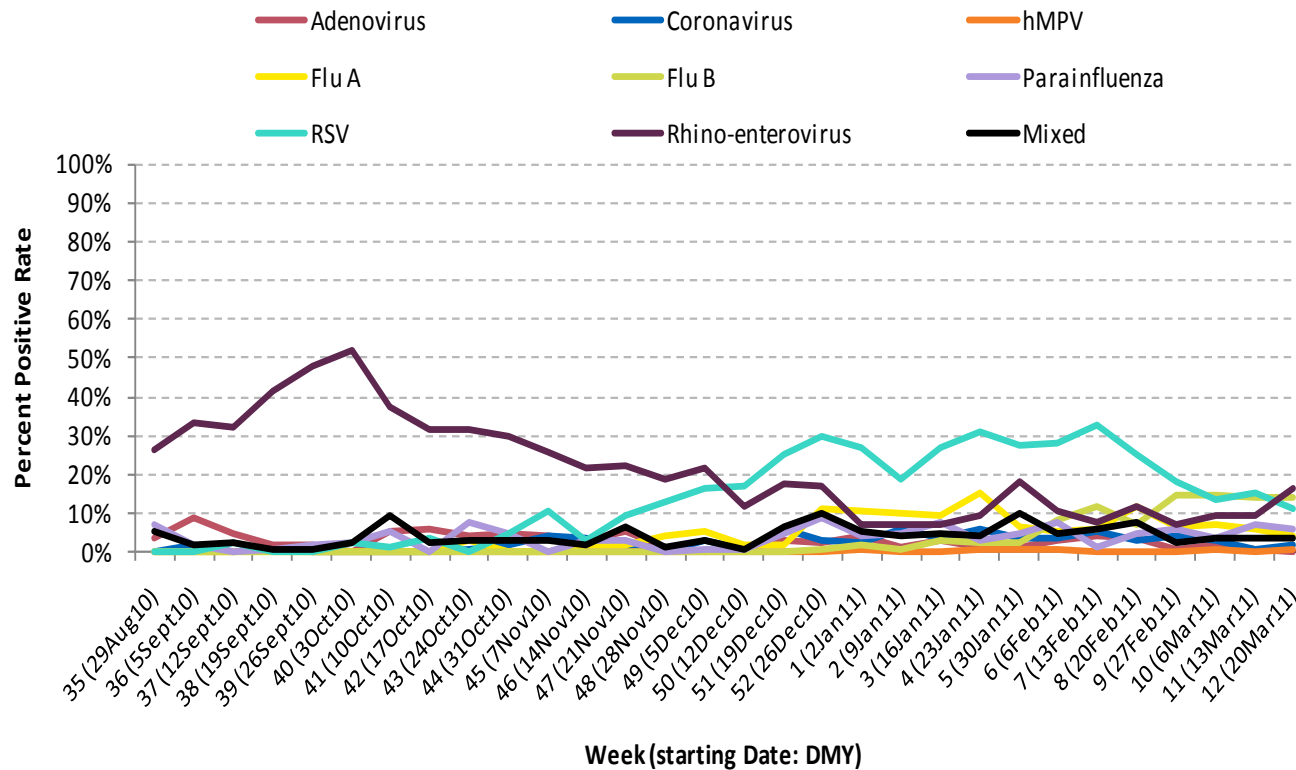
**Public Health Surveillance**

Report Date: March 29, 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 Mar 26, 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**

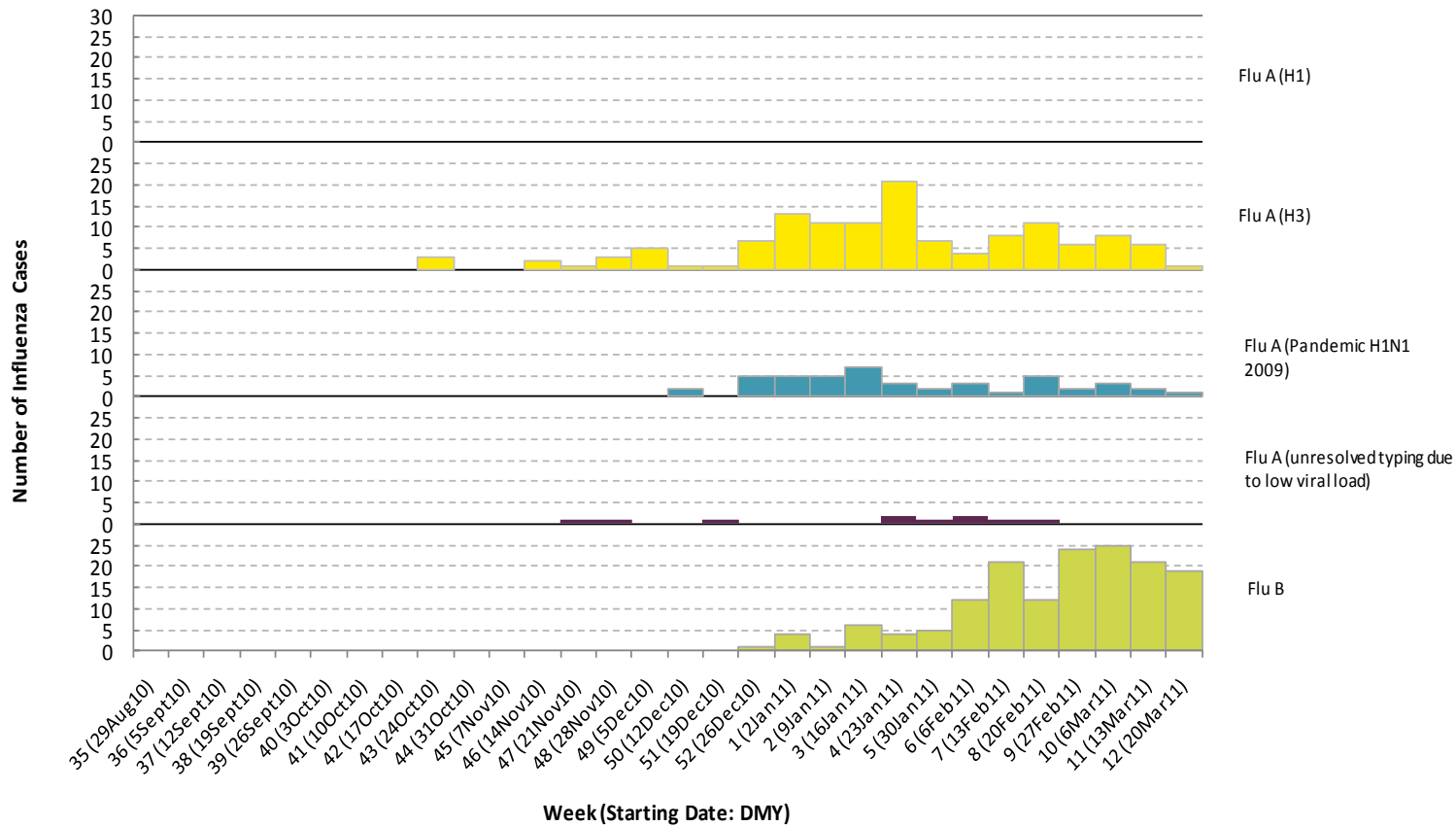
**Public Health Surveillance**

Report Date: March 29, 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 Mar 26, 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: March 29, 2011

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

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**Table 3A: New influenza cases (and age specific rates), by subtype, by age group, Calgary Zone (Week 12: Mar 20-26, 2011)**

|                 | Flu A (Seasonal-H1) |                   | Flu A (Seasonal-H3) |                   | Flu A (Pandemic H1N1 2009) |                   | Flu A (unresolved typing due to low viral load) |                   | Flu B     |                   | Total     |                   |
|-----------------|---------------------|-------------------|---------------------|-------------------|----------------------------|-------------------|---|-------------------|-----------|-------------------|-----------|-------------------|
|                 | #                   | Rate (per 10,000) | #                   | Rate (per 10,000) | #                          | Rate (per 10,000) | #   | Rate (per 10,000) | #         | Rate (per 10,000) | #         | Rate (per 10,000) |
| 0 to <2 years   | 0                   | 0.0               | 1                   | 0.3               | 1                          | 0.3               | 0   | 0.0               | 1         | 0.3               | 3         | 0.8               |
| 2 to <5 years   | 0                   | 0.0               | 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               | 4         | 0.6               | 4         | 0.6               |
| 9 to <18 years  | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 3         | 0.2               | 3         | 0.2               |
| 18 to <65 years | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 9         | 0.0               | 9         | 0.1               |
| 65 to <75 years | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 1         | 0.1               | 1         | 0.1               |
| 75+ years       | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 0         | 0.0               | 0         | 0.0               |
| <b>Total</b>    | <b>0</b>            | <b>0.0</b>        | <b>1</b>            | <b>0.0</b>        | <b>1</b>                   | <b>0.0</b>        | <b>0</b>  | <b>0.0</b>        | <b>19</b> | <b>0.1</b>        | <b>21</b> | <b>0.2</b>        |

**Table 3B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Calgary Zone (Aug 29, 2010 – Mar 26, 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               | 17                  | 4.5               | 4                          | 1.1               | 1   | 0.3               | 18         | 4.8               | 40         | 10.6              |
| 2 to <5 years   | 0                   | 0.0               | 9                   | 1.7               | 3                          | 0.6               | 1   | 0.2               | 10         | 1.8               | 23         | 4.3               |
| 5 to <9 years   | 0                   | 0.0               | 8                   | 1.2               | 1                          | 0.2               | 2   | 0.3               | 28         | 4.3               | 39         | 6.0               |
| 9 to <18 years  | 0                   | 0.0               | 10                  | 0.7               | 1                          | 0.1               | 2   | 0.1               | 43         | 2.9               | 56         | 3.8               |
| 18 to <65 years | 0                   | 0.0               | 60                  | 0.6               | 36                         | 0.4               | 3   | 0.0               | 52         | 0.6               | 151        | 1.6               |
| 65 to <75 years | 0                   | 0.0               | 7                   | 0.9               | 1                          | 0.1               | 0   | 0.0               | 3          | 0.4               | 11         | 1.5               |
| 75+ years       | 0                   | 0.0               | 19                  | 3.1               | 0                          | 0.0               | 1   | 0.2               | 1          | 0.2               | 21         | 3.4               |
| <b>Total</b>    | <b>0</b>            | <b>0.0</b>        | <b>130</b>          | <b>0.9</b>        | <b>46</b>                  | <b>0.3</b>        | <b>10</b>                                       | <b>0.1</b>        | <b>155</b> | <b>1.1</b>        | <b>341</b> | <b>2.5</b>        |

Source for tables 3A & 3B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before *Mar 26, 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

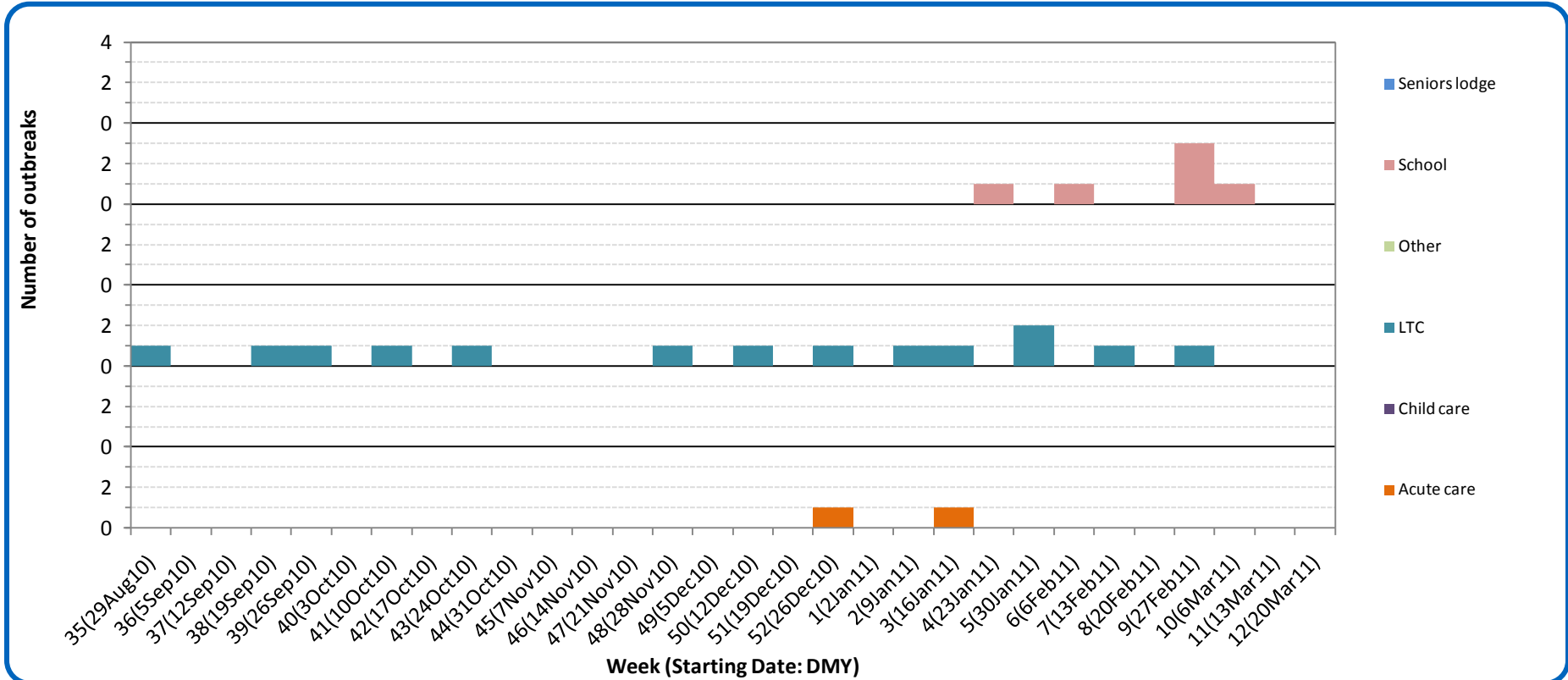
### Public Health Surveillance

Report Date: March 29, 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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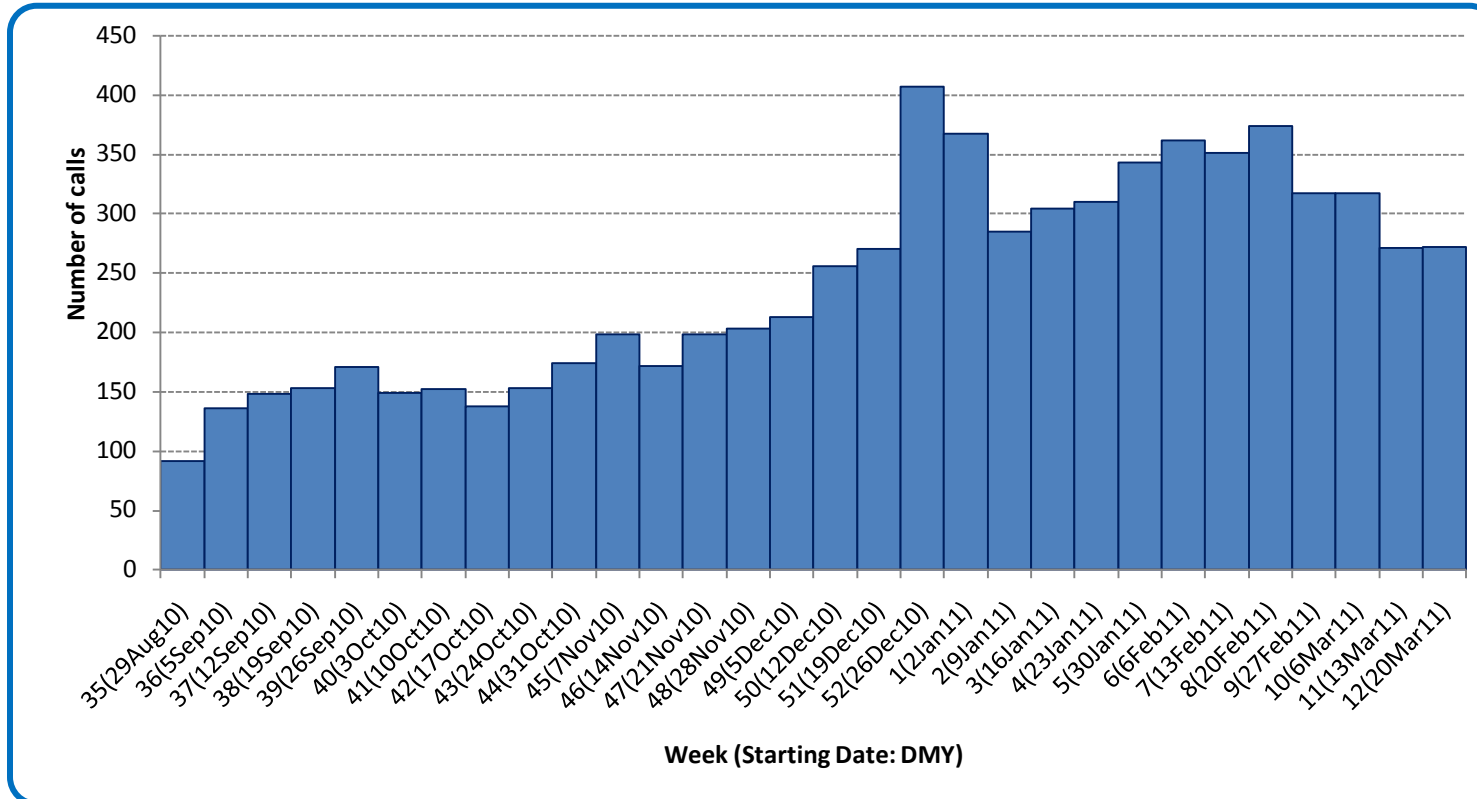
Figure 3D: Respiratory outbreaks, by facility type, by onset week, Calgary Zone (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Mar 26, 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 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 Mar 26, 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

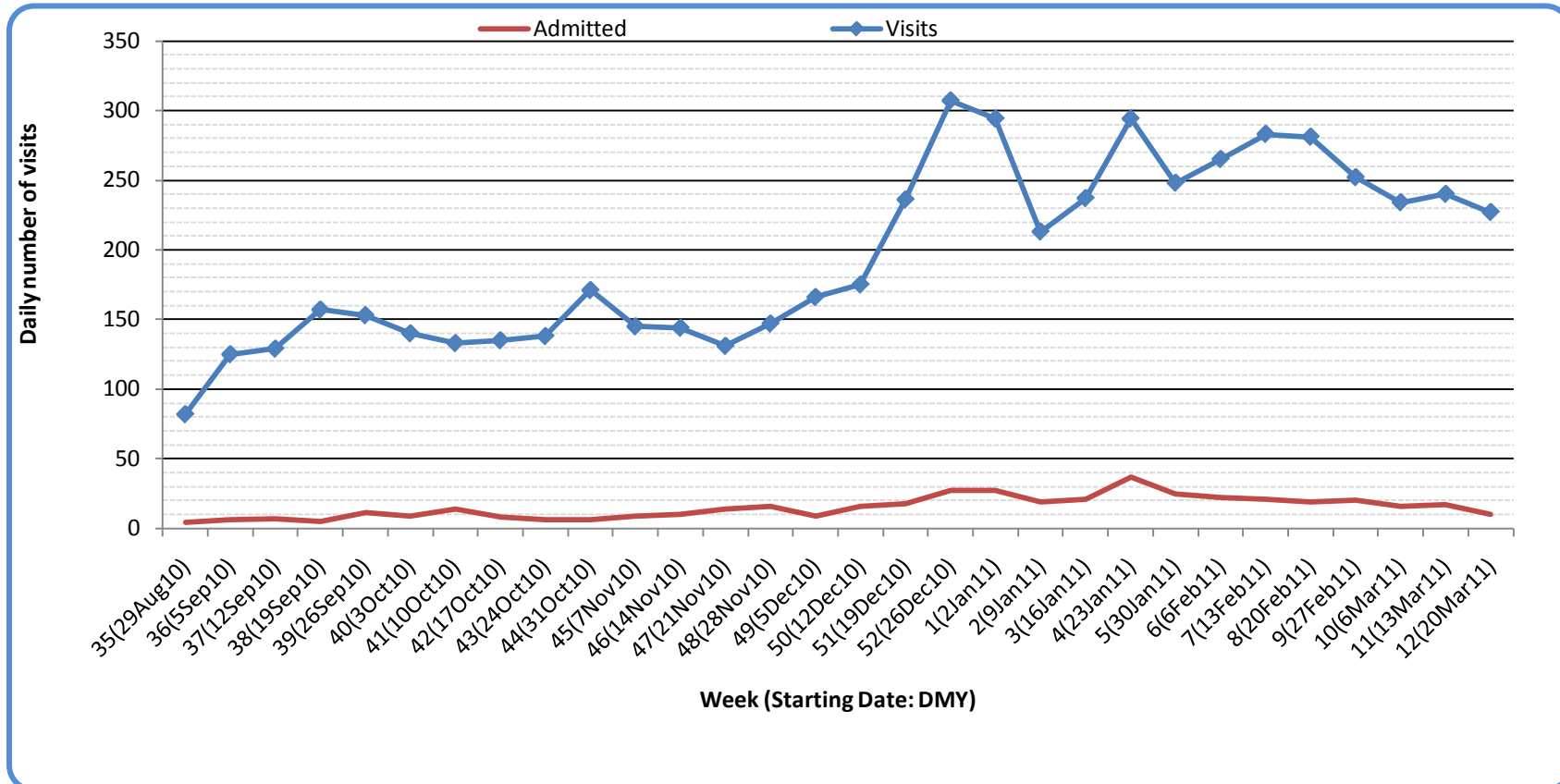
Public Health Surveillance

Report Date: March 29, 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 Mar 26, 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

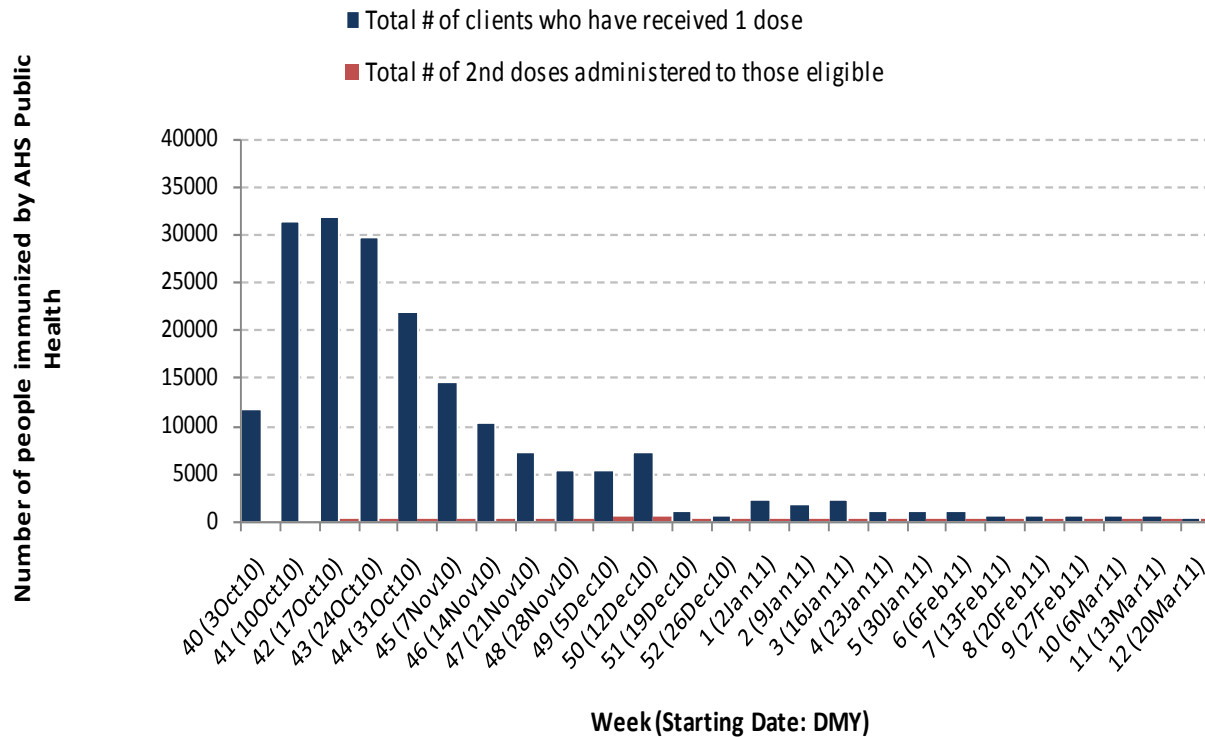
Public Health Surveillance

Report Date: March 29, 2011

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

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



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

**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

**Public Health Surveillance**

Report Date: March 29, 2011

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

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

| Priority Group   | Number Immunized<br>(Week 12 –<br>Mar20-26, 2011) | Cumulative Number<br>Immunized (since<br>Oct 3, 2010) |
|--|---|---|
| Long term care staff   | 0   | 452   |
| Health care workers  | 1   | 5,344   |
| Pregnant women   | 9   | 1,991   |
| Residents of long term care                                      | 0   | 706   |
| 65 years of age and over   | 4   | 44,710  |
| All children 6 months up to and including 23 months*             | Dose #1   | 271   |
|  | Dose #2   | 129   |
| All children 24 months up to and including 59 months*            | Dose #1   | 34  |
|  | Dose #2   | 10  |
| High risk: 5 years up to and including 8 years*                  | Dose #1   | 10  |
|  | Dose #2   | 2   |
| High risk: 9 years up to and including 64 years                  | 11  | 20,004  |
| Healthy: 5 years up to and including 8 years*                    | Dose #1   | 24  |
|  | Dose #2   | 5   |
| Healthy: 9 years up to and including 64 years                    | 119   | 84,264  |
| <b>Total number of clients who have received 1 dose</b>          | <b>483</b>  | <b>192,786</b>  |
| <b>Total number of 2nd doses administered to those eligible*</b> | <b>146</b>  | <b>4,991</b>  |

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: March 29, 2011

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

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

| Priority Group  | # Immunized<br>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                            |       |
| <b>Total number of clients who have received 1 dose</b>   | <b>120,408</b>                    |       |
| 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 2<sup>nd</sup> 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: March 29, 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

With the exception of an increasing trend in influenza type B, respiratory virus activity appears to be decreasing slowly in Central Zone.

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

Influenza B activity has been increasing for the past several weeks. As of the end of Week 12 (Mar 26, 2011), the total number of influenza cases confirmed this season is 143. At this point in the season, the age-specific rate for confirmed cases of influenza (all types) is highest for infants under the age of 2 years (at 14.5 per 10,000) and adults aged 75 years and over (at 10.5 per 10,000).

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

Since last week's update, one respiratory outbreak was confirmed in a Central Zone seniors' lodge. The onset of symptoms occurred during Week 8 (Feb 20-26, 2011) and the causative agent was coronavirus.

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

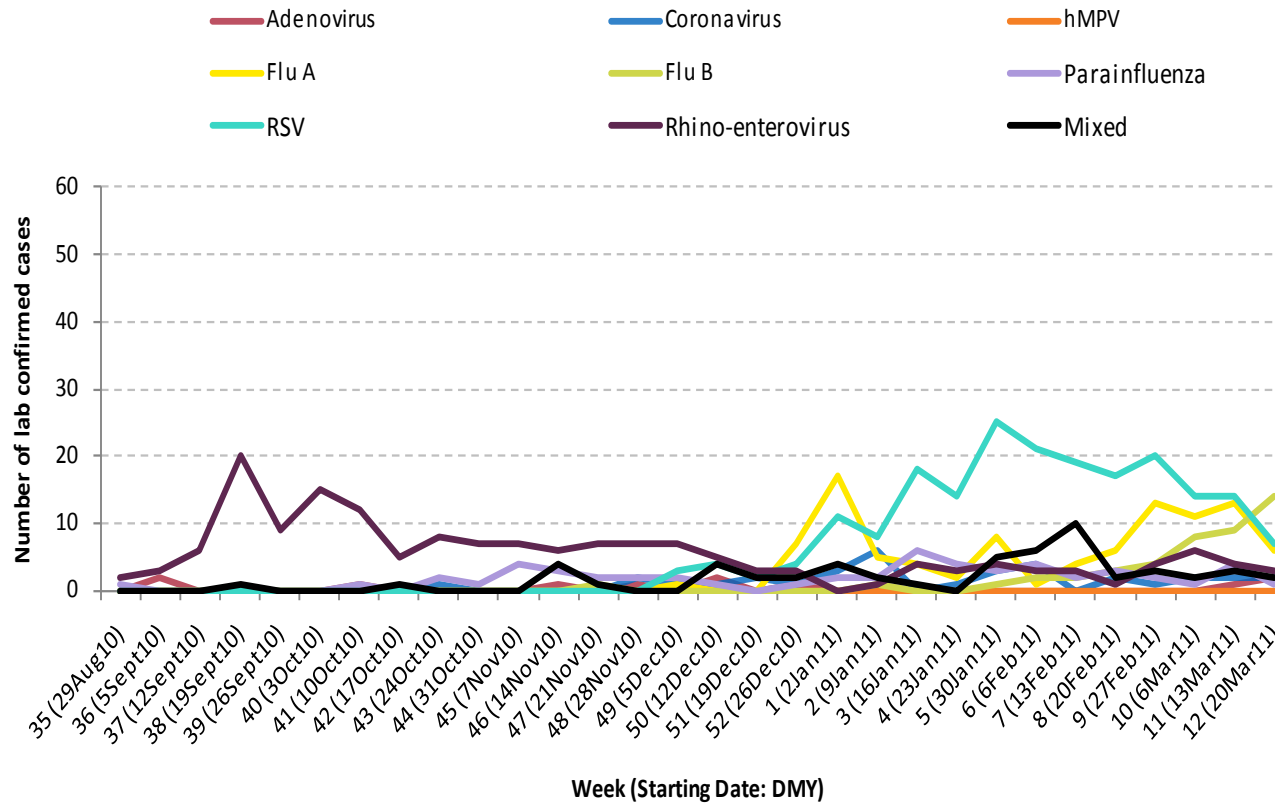
The number of calls to Health Link Alberta by residents of Central Zone for cough or breathing difficulties continues on a decreasing trend that started several weeks ago..

### Emergency Department/Urgent Care Center Visits and Hospital Admissions

There are no data available from this zone.

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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 Mar 26, 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**

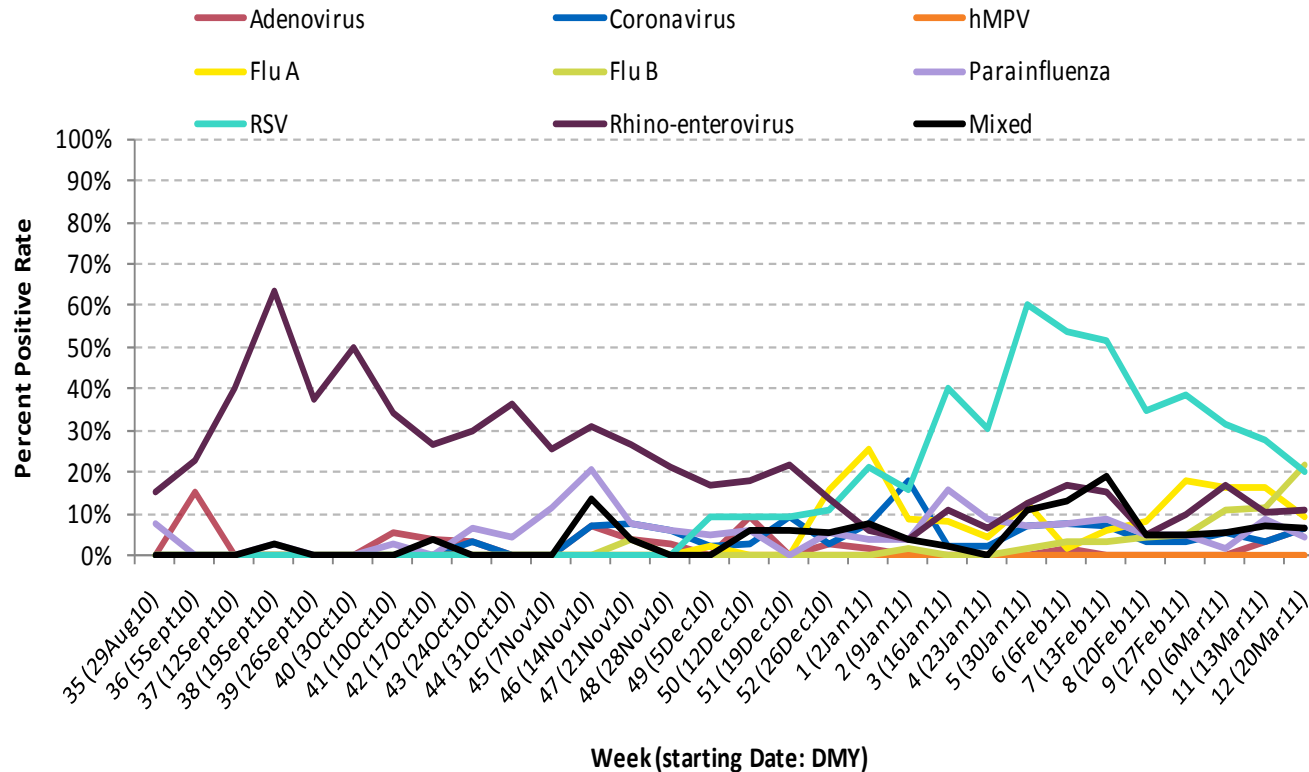
**Public Health Surveillance**

Report Date: March 29, 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 Mar 26, 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**

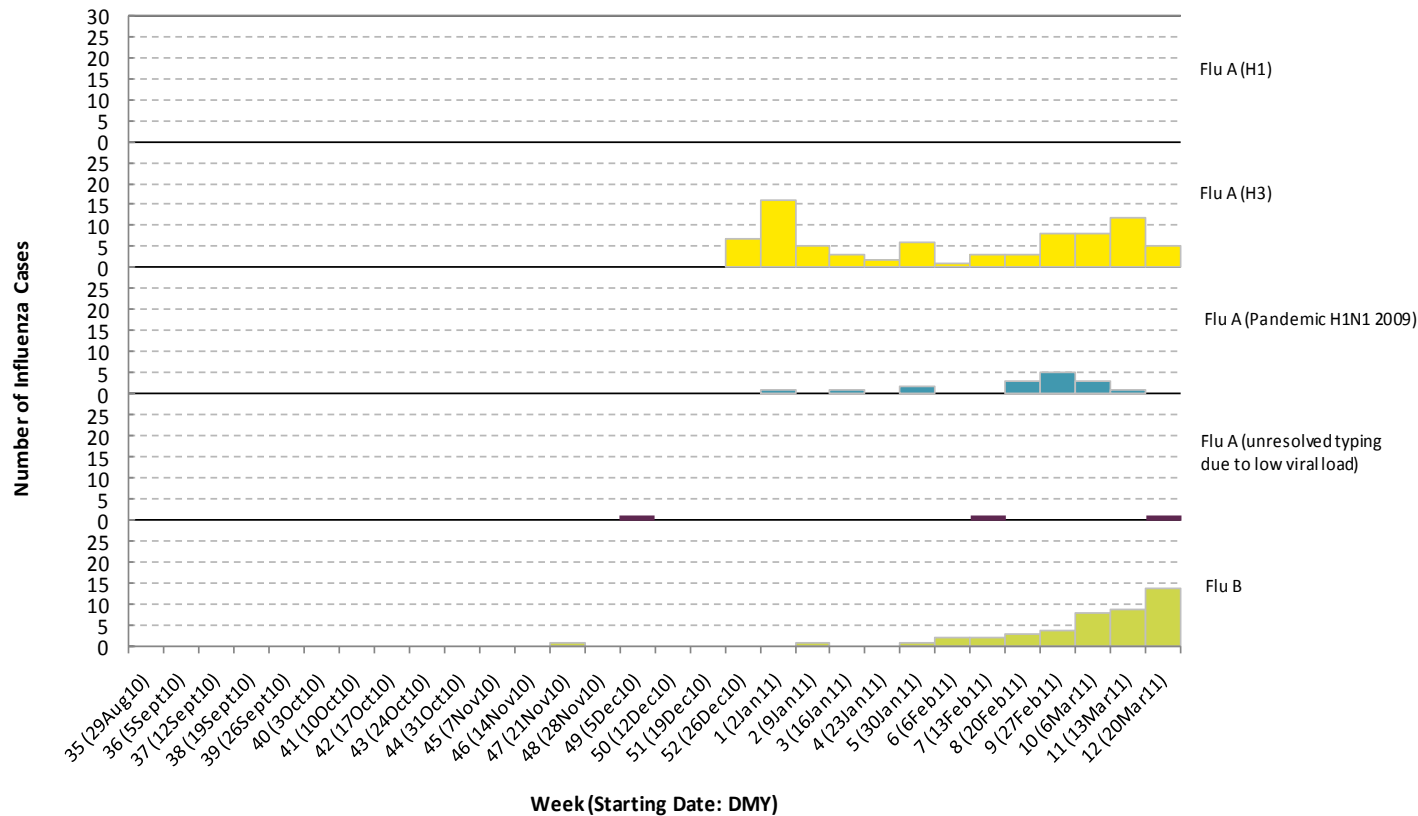
**Public Health Surveillance**

Report Date: March 29, 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 Mar 26, 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: March 29, 2011

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

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**Table 4A: New influenza cases (and age specific rates), by subtype, by age group, Central Zone (Week 12: Mar 20-26, 2011)**

|                 | Flu A (Seasonal-H1) |                   | Flu A (Seasonal-H3) |                   | Flu A (Pandemic H1N1 2009) |                   | Flu A (unresolved typing due to low viral load) |                   | Flu B     |                   | Total     |                   |
|-----------------|---------------------|-------------------|---------------------|-------------------|----------------------------|-------------------|---|-------------------|-----------|-------------------|-----------|-------------------|
|                 | #                   | Rate (per 10,000) | #                   | Rate (per 10,000) | #                          | Rate (per 10,000) | #   | Rate (per 10,000) | #         | Rate (per 10,000) | #         | Rate (per 10,000) |
| 0 to <2 years   | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 4         | 3.2               | 4         | 3.2               |
| 2 to <5 years   | 0                   | 0.0               | 1                   | 0.6               | 0                          | 0.0               | 0   | 0.0               | 0         | 0.0               | 1         | 0.6               |
| 5 to <9 years   | 0                   | 0.0               | 2                   | 0.9               | 0                          | 0.0               | 0   | 0.0               | 2         | 0.9               | 4         | 1.8               |
| 9 to <18 years  | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 2         | 0.4               | 2         | 0.4               |
| 18 to <65 years | 0                   | 0.0               | 2                   | <0.1              | 0                          | <0.1              | 0   | 0.0               | 3         | 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               | 0                   | 0.0               | 0                          | 0.0               | 1   | 0.4               | 2         | 0.7               | 3         | 1.1               |
| <b>Total</b>    | <b>0</b>            | <b>0.0</b>        | <b>5</b>            | <b>0.1</b>        | <b>0</b>                   | <b>&lt;0.1</b>    | <b>1</b>  | <b>0.0</b>        | <b>14</b> | <b>0.3</b>        | <b>20</b> | <b>0.4</b>        |

**Table 4B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Central Zone (Aug 29, 2010 – Mar 26, 2011)**

|                 | Flu A (Seasonal-H1) |                   | Flu A (Seasonal-H3) |                   | Flu A (Pandemic H1N1 2009) |                   | Flu A (unresolved typing due to low viral load) |                   | Flu B     |                   | Total      |                   |
|-----------------|---------------------|-------------------|---------------------|-------------------|----------------------------|-------------------|---|-------------------|-----------|-------------------|------------|-------------------|
|                 | #                   | Rate (per 10,000) | #                   | Rate (per 10,000) | #                          | Rate (per 10,000) | #   | Rate (per 10,000) | #         | Rate (per 10,000) | #          | Rate (per 10,000) |
| 0 to <2 years   | 0                   | 0.0               | 9                   | 7.3               | 0                          | 0.0               | 0   | 0.0               | 9         | 7.3               | 18         | 14.5              |
| 2 to <5 years   | 0                   | 0.0               | 2                   | 1.1               | 2                          | 1.1               | 0   | 0.0               | 5         | 2.8               | 9          | 5.0               |
| 5 to <9 years   | 0                   | 0.0               | 4                   | 1.8               | 0                          | 0.0               | 0   | 0.0               | 6         | 2.7               | 10         | 4.4               |
| 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               | 33                  | 1.2               | 12                         | 0.4               | 2   | 0.1               | 16        | 0.6               | 63         | 2.2               |
| 65 to <75 years | 0                   | 0.0               | 2                   | 0.6               | 0                          | 0.0               | 0   | 0.0               | 1         | 0.3               | 3          | 1.0               |
| 75+ years       | 0                   | 0.0               | 26                  | 9.5               | 0                          | 0.0               | 1   | 0.4               | 2         | 0.7               | 29         | 10.5              |
| <b>Total</b>    | <b>0</b>            | <b>0.0</b>        | <b>79</b>           | <b>1.8</b>        | <b>16</b>                  | <b>0.4</b>        | <b>3</b>  | <b>&lt;0.1</b>    | <b>45</b> | <b>1.0</b>        | <b>143</b> | <b>3.2</b>        |

Source for Tables 4A & 4B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before *Mar 26, 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

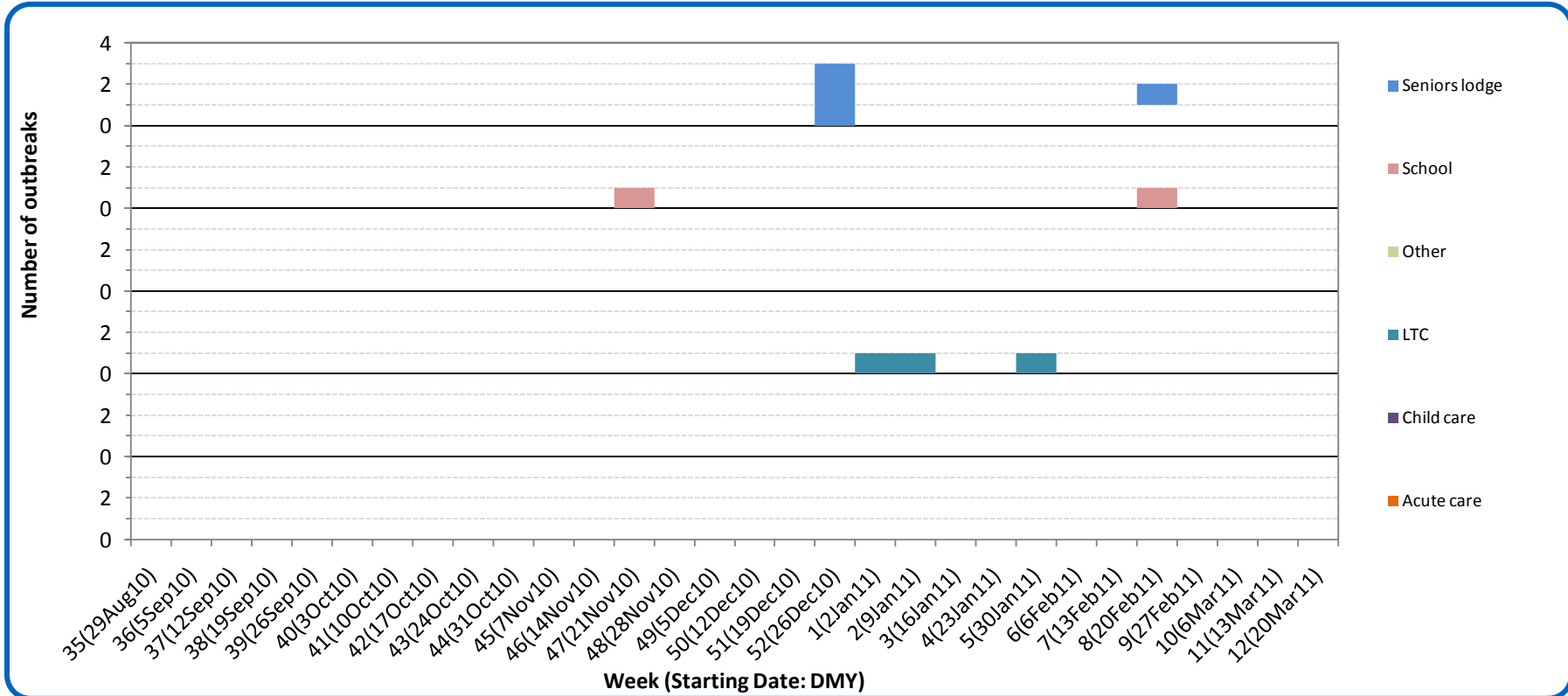
### Public Health Surveillance

Report Date: March 29, 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 Mar 26, 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

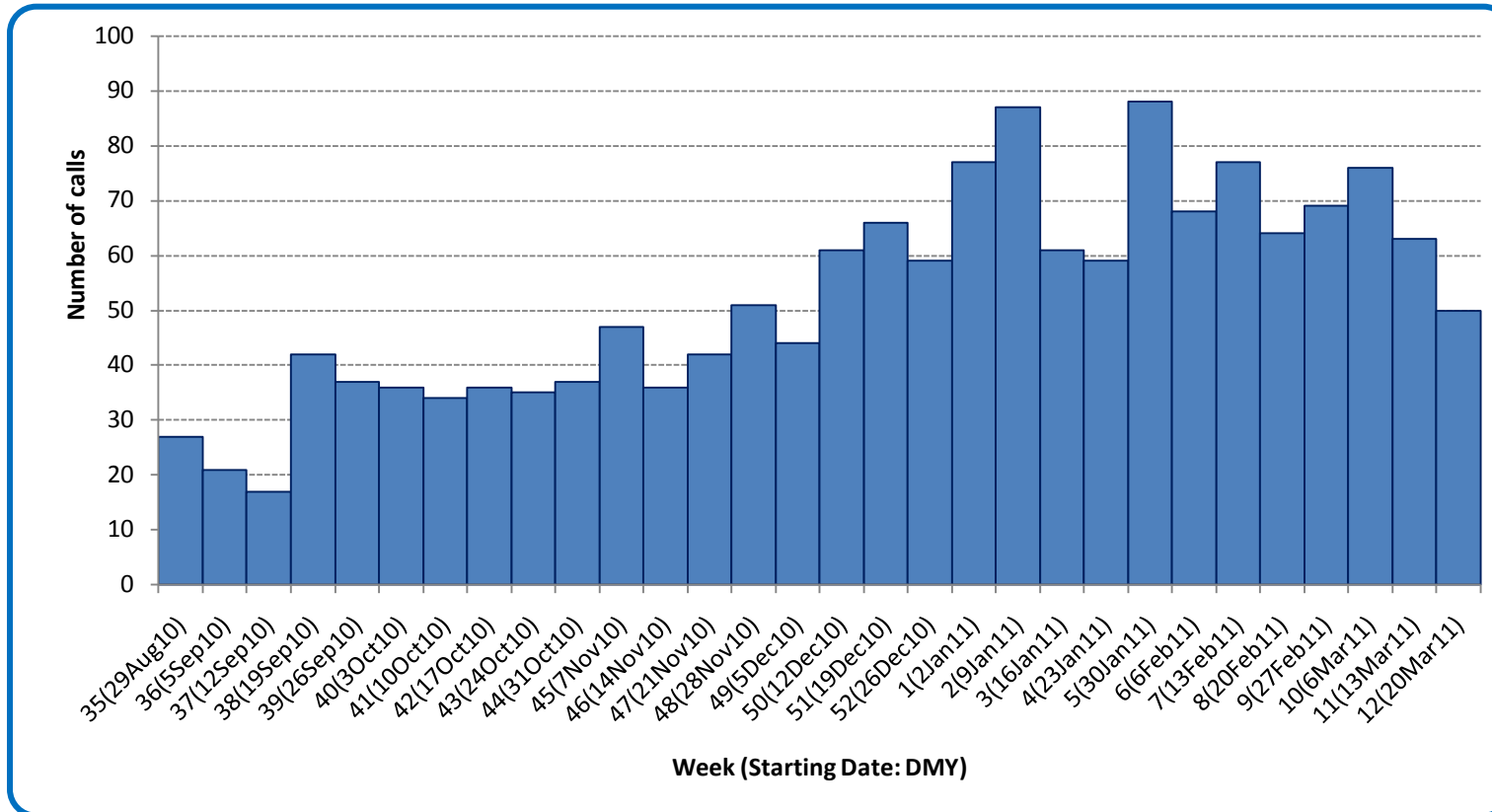
Public Health Surveillance

Report Date: March 29, 2011

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

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



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Mar 26, 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**

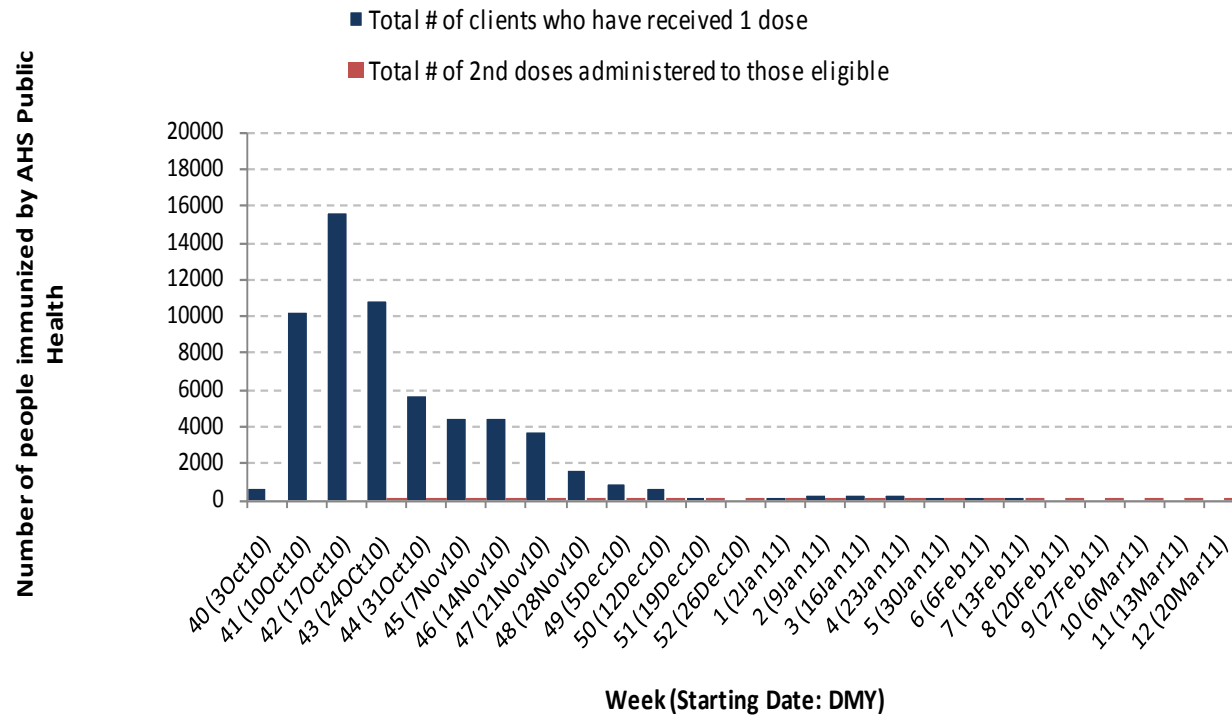
**Public Health Surveillance**

Report Date: March 29, 2011

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

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



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

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

| Priority Group   | Number Immunized<br>(Week 12 –<br>Mar20-26, 2011) | Cumulative Number<br>Immunized (since<br>Oct 3, 2010) |
|--|---|---|
| Long term care staff   | 4   | 427   |
| Health care workers  | 2   | 2,617   |
| Pregnant women   | 1   | 428   |
| Residents of long term care                                      | 0   | 1,105   |
| 65 years of age and over   | 0   | 22,160  |
| All children 6 months up to and including 23 months*             | Dose #1   | 45  |
|  | Dose #2   | 36  |
| All children 24 months up to and including 59 months*            | Dose #1   | 8   |
|  | Dose #2   | 3   |
| 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                  | 2   | 6,884   |
| Healthy: 5 years up to and including 8 years*                    | Dose #1   | 3   |
|  | Dose #2   | 1   |
| Healthy: 9 years up to and including 64 years                    | 17  | 20,820  |
| <b>Total number of clients who have received 1 dose</b>          | <b>82</b>   | <b>61,832</b>   |
| <b>Total number of 2nd doses administered to those eligible*</b> | <b>40</b>   | <b>1,409</b>  |

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: March 29, 2011

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

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

| Priority Group  | # Immunized<br>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                             |    |
| <b>Total number of clients who have received 1 dose</b>   | <b>17,789</b>                     |    |
| 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 2<sup>nd</sup> 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: March 29, 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

Generally, indicators show that transmission of several respiratory viruses continues in Edmonton Zone, most notably influenza type B.

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

Similar to other parts of the province, influenza B activity has been increasing in Edmonton Zone. The majority of new influenza cases identified in Week 12 (Mar 20-26, 2011) were identified as influenza B. As of the end of last week (Mar 26, 2011), the total number of influenza cases confirmed in this part of the province this season is 381. 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 20.0 per 10,000 (compared to 7.6 per 10,000 or lower for other age groups).

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

Since the last update, there have been two respiratory outbreak confirmed in Edmonton Zone, including one RSV outbreak in a long term care facility and one influenza B outbreak in a school. The symptom onset for these outbreaks occurred during Week 11 (Mar 13-19, 2011) and Week 12 (Mar 20-26, 2011), respectively.

In addition to those confirmed, there were also two new respiratory outbreaks reported in Edmonton Zone long term care facilities. The symptom onset for these occurred in Weeks 11 and 12 and the preliminary attack rates were 3% for both outbreaks.

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

The number of calls to Health Link Alberta by residents of Edmonton Zone for cough or breathing difficulties has remained stable since the beginning of March, 2011.

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

The number of visits to nine emergency departments/urgent care centers for ILI symptoms remained unchanged from Week 12 (Mar 20-26, 2011) from the previous week, however the number of hospital admissions increased by 42%. This increase breaks a declining trend that started in the middle of February, 2011.

The number of visits for symptoms of cough/congestion also increased in Week 12 compared to the previous week (by 10%). This indicator has been fluctuating for several weeks now. The number of hospital admissions for these symptoms increased as well (by 7%).

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

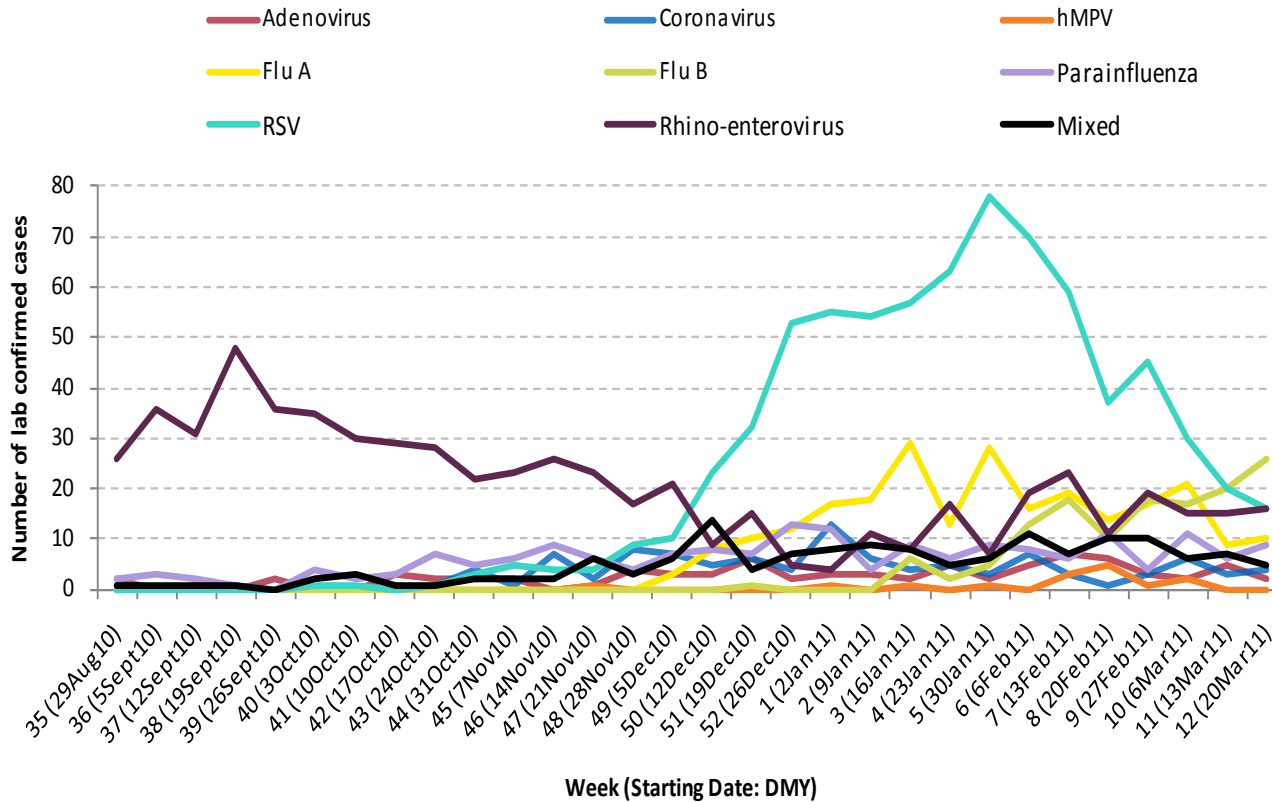
### Public Health Surveillance

Report Date: March 29, 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 Mar 26, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

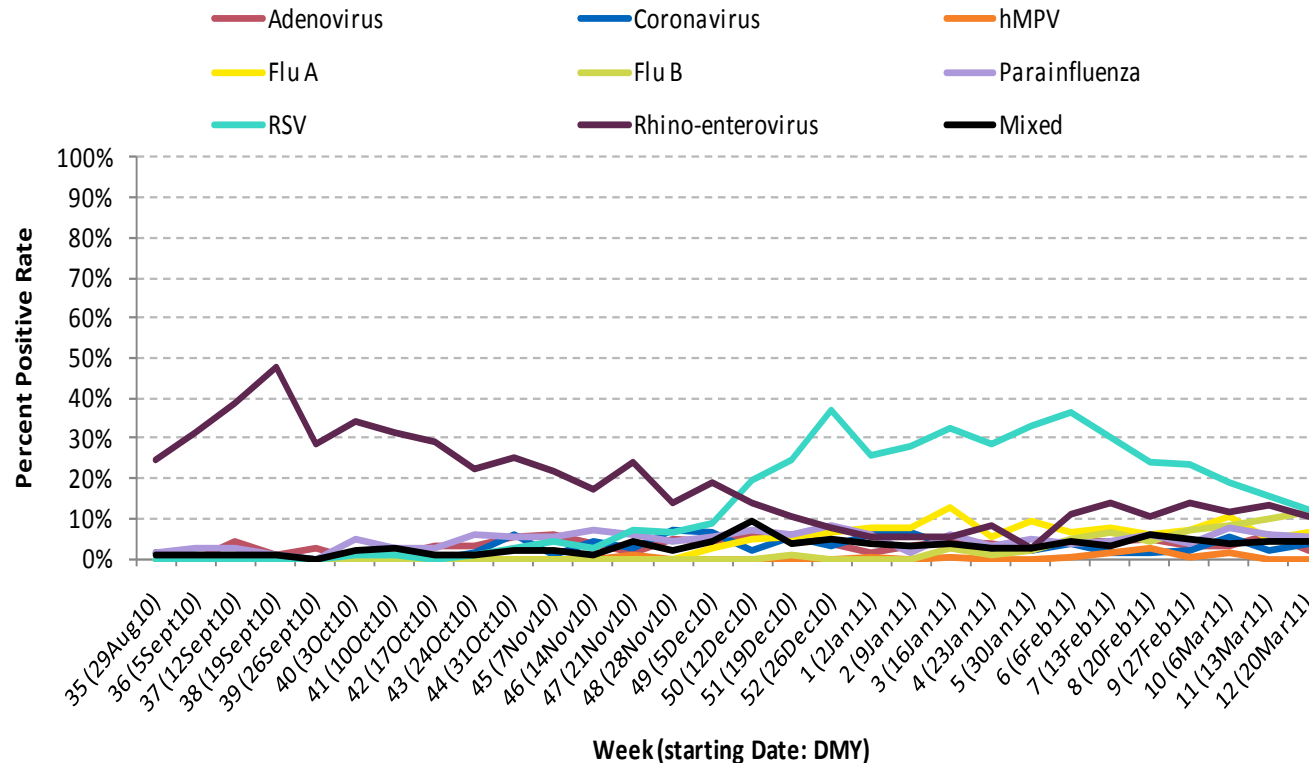
SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance  
Report Date: March 29, 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 Mar 26, 2011)  
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

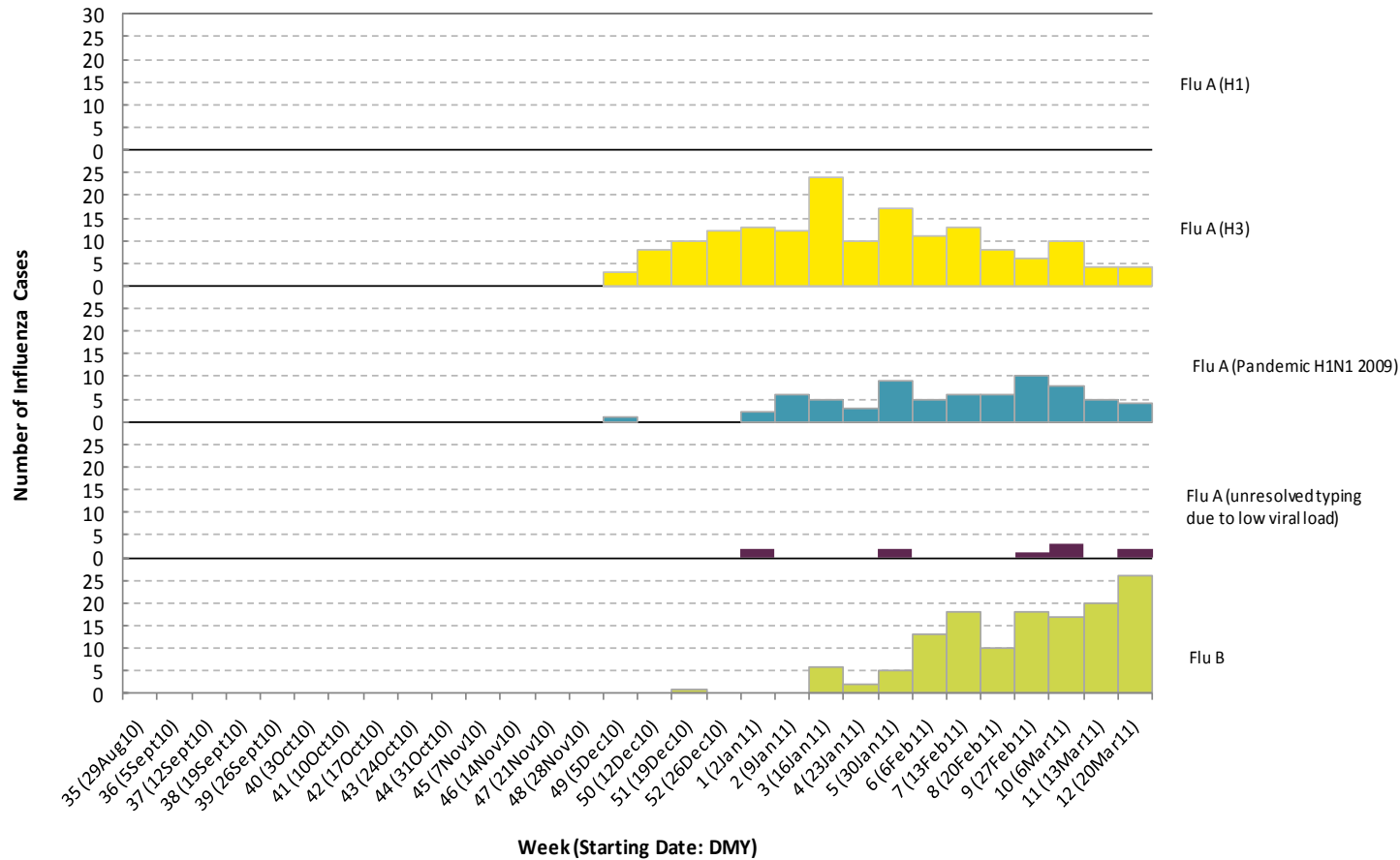
**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

Public Health Surveillance  
Report Date: March 29, 2011

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

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



\*Note: Six specimens were positive for influenza A or B and one or more other virus type(s). Two specimens were positive for both influenza A & B.  
 Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 26, 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: March 29, 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 12: Mar 20-26, 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         | 1.0               | 3         | 1.0               |
| 2 to <5 years   | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 5         | 1.1               | 5         | 1.1               |
| 5 to <9 years   | 0                   | 0.0               | 1                   | 0.2               | 1                          | 0.2               | 0   | 0.0               | 4         | 0.8               | 6         | 1.1               |
| 9 to <18 years  | 0                   | 0.0               | 0                   | 0.0               | 1                          | 0.1               | 1   | 0.1               | 5         | 0.4               | 7         | 0.6               |
| 18 to <65 years | 0                   | 0.0               | 1                   | <0.1              | 2                          | 0.0               | 1   | 0.0               | 7         | 0.0               | 11        | 0.1               |
| 65 to <75 years | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 1         | 0.1               | 1         | 0.1               |
| 75+ years       | 0                   | 0.0               | 2                   | 0.3               | 0                          | 0.0               | 0   | 0.0               | 1         | 0.2               | 3         | 0.5               |
| <b>Total</b>    | <b>0</b>            | <b>0.0</b>        | <b>4</b>            | <b>0.0</b>        | <b>4</b>                   | <b>0.0</b>        | <b>2</b>  | <b>0.0</b>        | <b>26</b> | <b>0.2</b>        | <b>36</b> | <b>0.3</b>        |

**Table 5B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Edmonton Zone (Aug 29, 2010 – Mar 26, 2011)**

|                 | Flu A (Seasonal-H1) |                   | Flu A (Seasonal-H3) |                   | Flu A (Pandemic H1N1 2009) |                   | Flu A (unresolved typing due to low viral load) |                   | Flu B      |                   | Total      |                   |
|-----------------|---------------------|-------------------|---------------------|-------------------|----------------------------|-------------------|---|-------------------|------------|-------------------|------------|-------------------|
|                 | #                   | Rate (per 10,000) | #                   | Rate (per 10,000) | #                          | Rate (per 10,000) | #   | Rate (per 10,000) | #          | Rate (per 10,000) | #          | Rate (per 10,000) |
| 0 to <2 years   | 0                   | 0.0               | 29                  | 9.5               | 8                          | 2.6               | 3   | 1.0               | 21         | 6.9               | 61         | 20.0              |
| 2 to <5 years   | 0                   | 0.0               | 14                  | 3.2               | 4                          | 0.9               | 1   | 0.2               | 13         | 3.0               | 32         | 7.3               |
| 5 to <9 years   | 0                   | 0.0               | 10                  | 1.9               | 4                          | 0.8               | 0   | 0.0               | 20         | 3.8               | 34         | 6.4               |
| 9 to <18 years  | 0                   | 0.0               | 6                   | 0.5               | 3                          | 0.2               | 1   | 0.1               | 38         | 3.1               | 48         | 3.9               |
| 18 to <65 years | 0                   | 0.0               | 62                  | 0.8               | 51                         | 0.7               | 4   | 0.0               | 29         | 0.4               | 146        | 1.9               |
| 65 to <75 years | 0                   | 0.0               | 9                   | 1.3               | 0                          | 0.0               | 0   | 0.0               | 5          | 0.7               | 14         | 2.0               |
| 75+ years       | 0                   | 0.0               | 35                  | 5.8               | 0                          | 0.0               | 1   | 0.2               | 10         | 1.6               | 46         | 7.6               |
| <b>Total</b>    | <b>0</b>            | <b>0.0</b>        | <b>165</b>          | <b>1.4</b>        | <b>70</b>                  | <b>0.6</b>        | <b>10</b>                                       | <b>0.1</b>        | <b>136</b> | <b>1.2</b>        | <b>381</b> | <b>3.3</b>        |

Source for tables 5A & 5B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before *Mar 26, 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

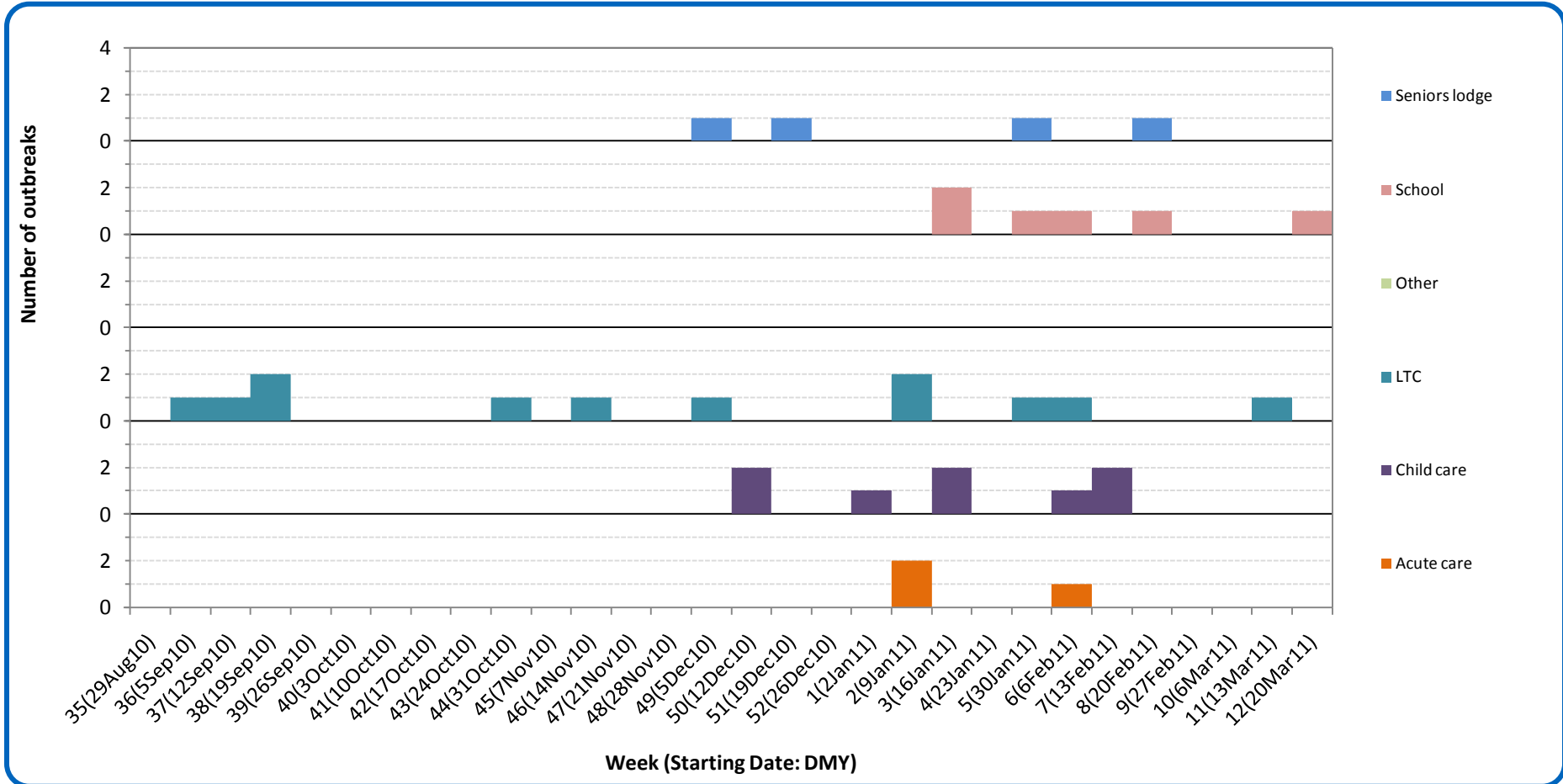
### Public Health Surveillance

Report Date: March 29, 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 Mar 26, 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**

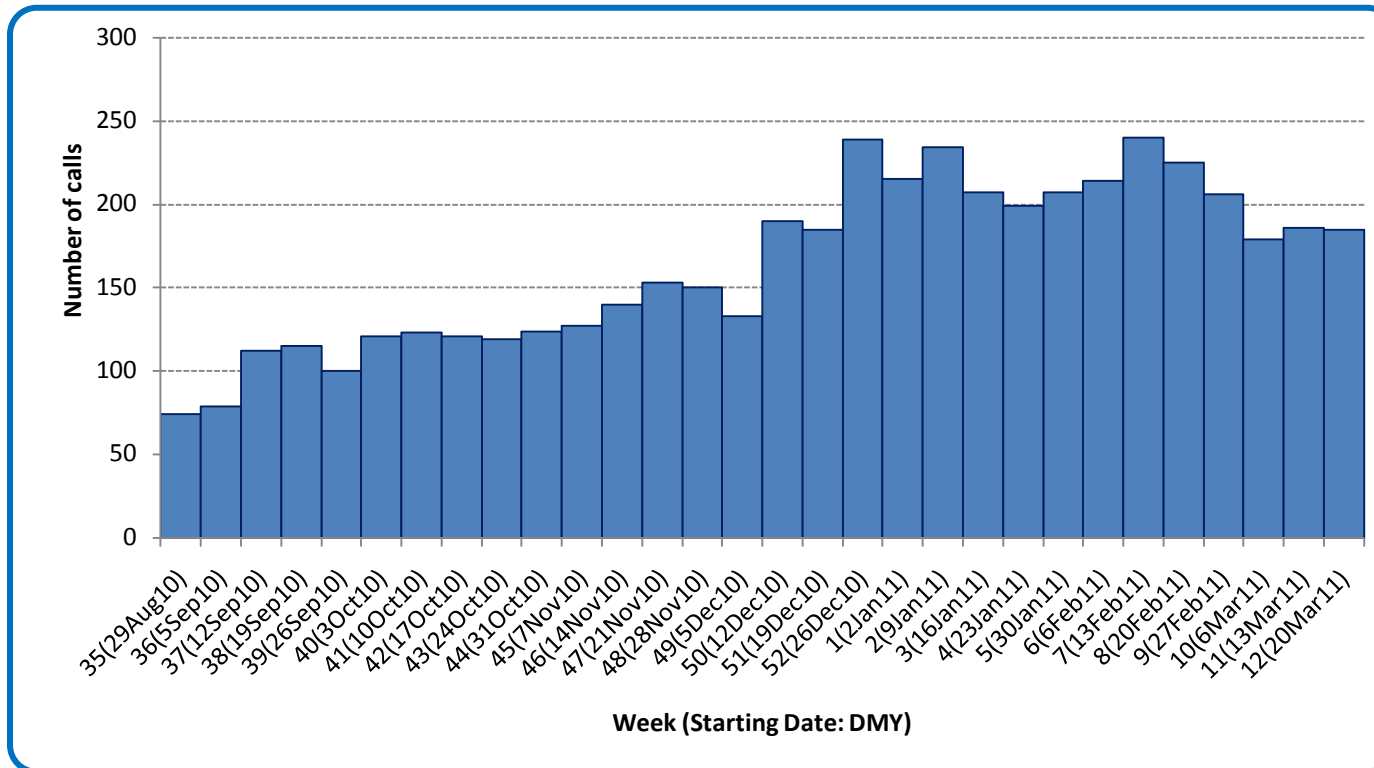
**Public Health Surveillance**

Report Date: March 29, 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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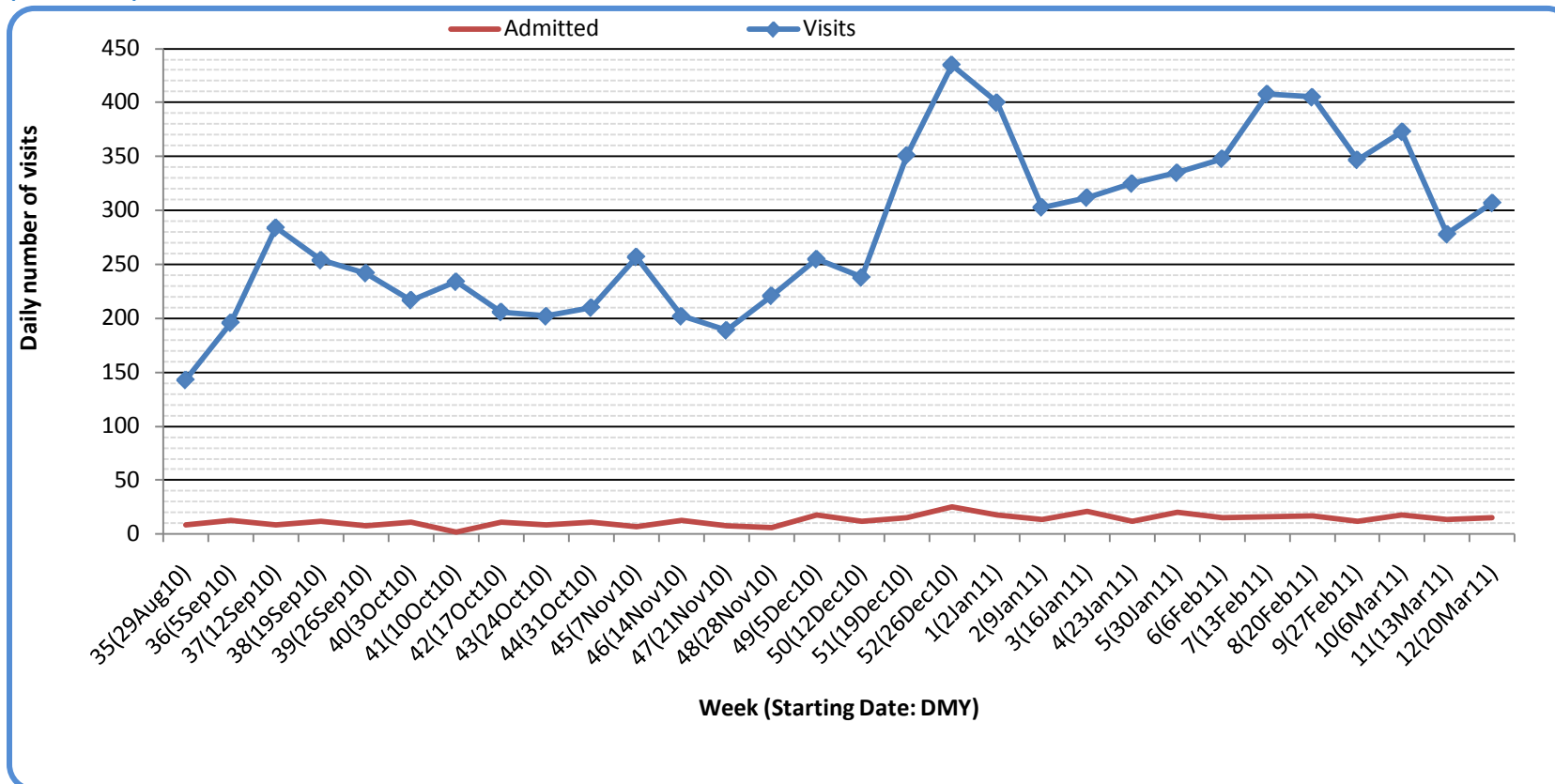
Figure 5E: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, Edmonton Zone (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Mar 26, 2011. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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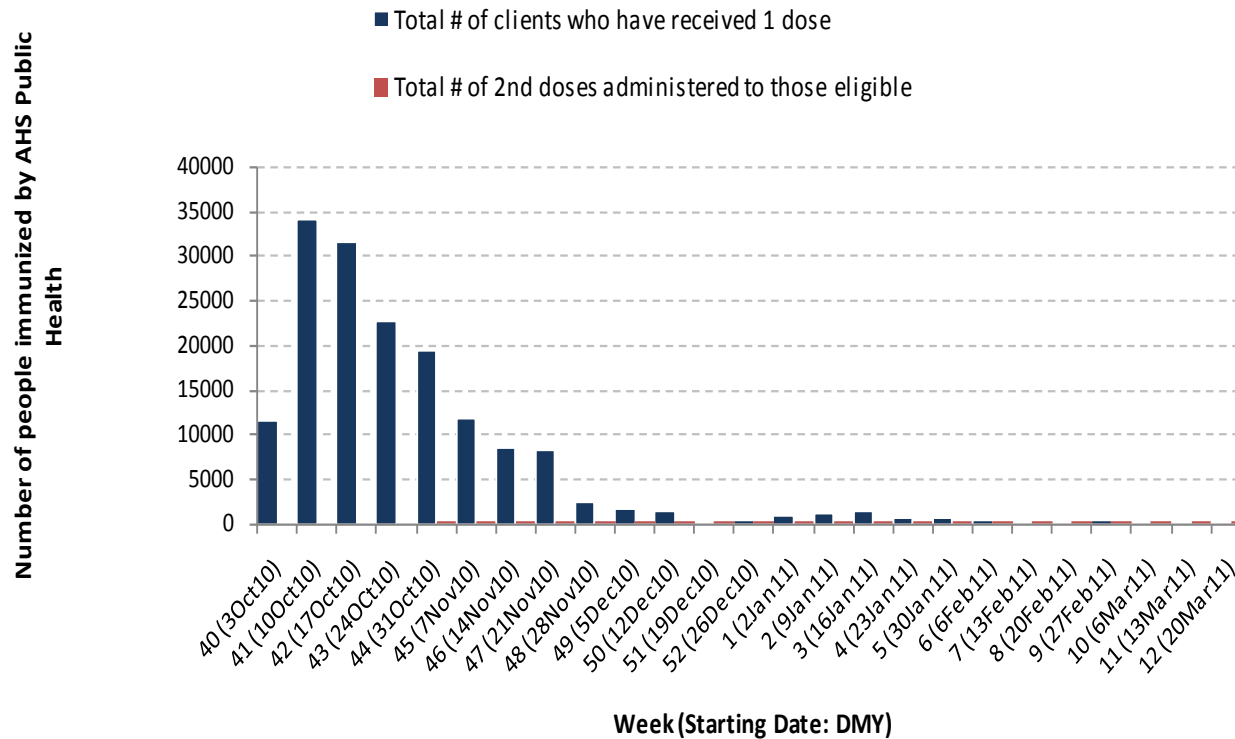
Figure 5F: Visits to emergency departments/urgent care centers for cough/congestion and admissions to hospitals, Edmonton Zone, by visit week (2010-2011)



Source: Alberta Real Time Syndromic Surveillance (ARTSSN) as of 23:59 on Mar 26, 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 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: March 29, 2011

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

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

| Priority Group   | Number Immunized<br>(Week 12 –<br>Mar20-26, 2011) | Cumulative Number<br>Immunized (since<br>Oct 3, 2010) |
|--|---|---|
| Long term care staff   | 1   | 328   |
| Health care workers  | 3   | 4,807   |
| Pregnant women   | 3   | 1,447   |
| Residents of long term care                                      | 0   | 1,051   |
| 65 years of age and over   | 2   | 48,506  |
| All children 6 months up to and including 23 months*             | Dose #1   | 43  |
|  | Dose #2   | 32  |
| All children 24 months up to and including 59 months*            | Dose #1   | 12  |
|  | Dose #2   | 4   |
| 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                  | 6   | 17,162  |
| Healthy: 5 years up to and including 8 years*                    | Dose #1   | 12  |
|  | Dose #2   | 1   |
| Healthy: 9 years up to and including 64 years                    | 81  | 67,923  |
| <b>Total number of clients who have received 1 dose</b>          | <b>164</b>  | <b>161,981</b>  |
| <b>Total number of 2nd doses administered to those eligible*</b> | <b>37</b>   | <b>2,857</b>  |

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: March 29, 2011

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

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

| Priority Group  | # Immunized<br>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                            |     |
| <b>Total number of clients who have received 1 dose</b>   | <b>62,481</b>                     |     |
| 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 2<sup>nd</sup> 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: March 29, 2011

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

## SECTION 6: ZONE 5 – NORTH

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### Summary

Transmission of several respiratory viruses, most notably influenza type B and rhino-enterovirus, continues in North Zone.

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

Influenza B, and to a lesser extent, rhino-enerovirus continue to increase in North Zone. The majority of the influenza cases confirmed in Week 12 (Mar 20-26, 2011) were identified as influenza type B. At this point in the season, 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 (28.8 per 10,000 compared to 11.3 per 10,000 or lower).

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

Since the last update, there have been two respiratory outbreaks confirmed in North Zone. One occurred in a seniors' lodge (attributed to RSV) and the other in a school (attributed to influenza B).

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

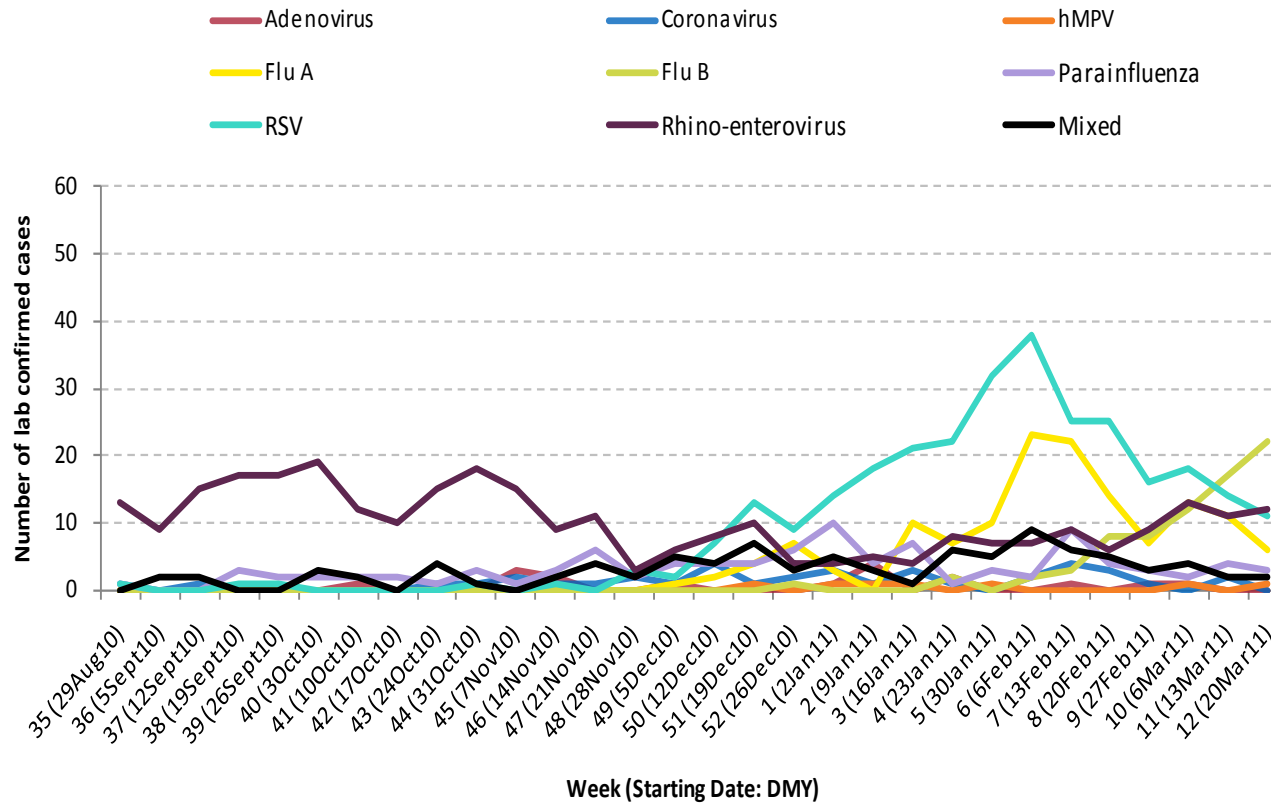
The number of calls to Health Link Alberta by residents of North Zone for cough or breathing difficulties has increased again for the second week in a row.

### Emergency Department/Urgent Care Center Visits and Hospital Admissions

There are no data available for the North Zone.

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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 Mar 26, 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**

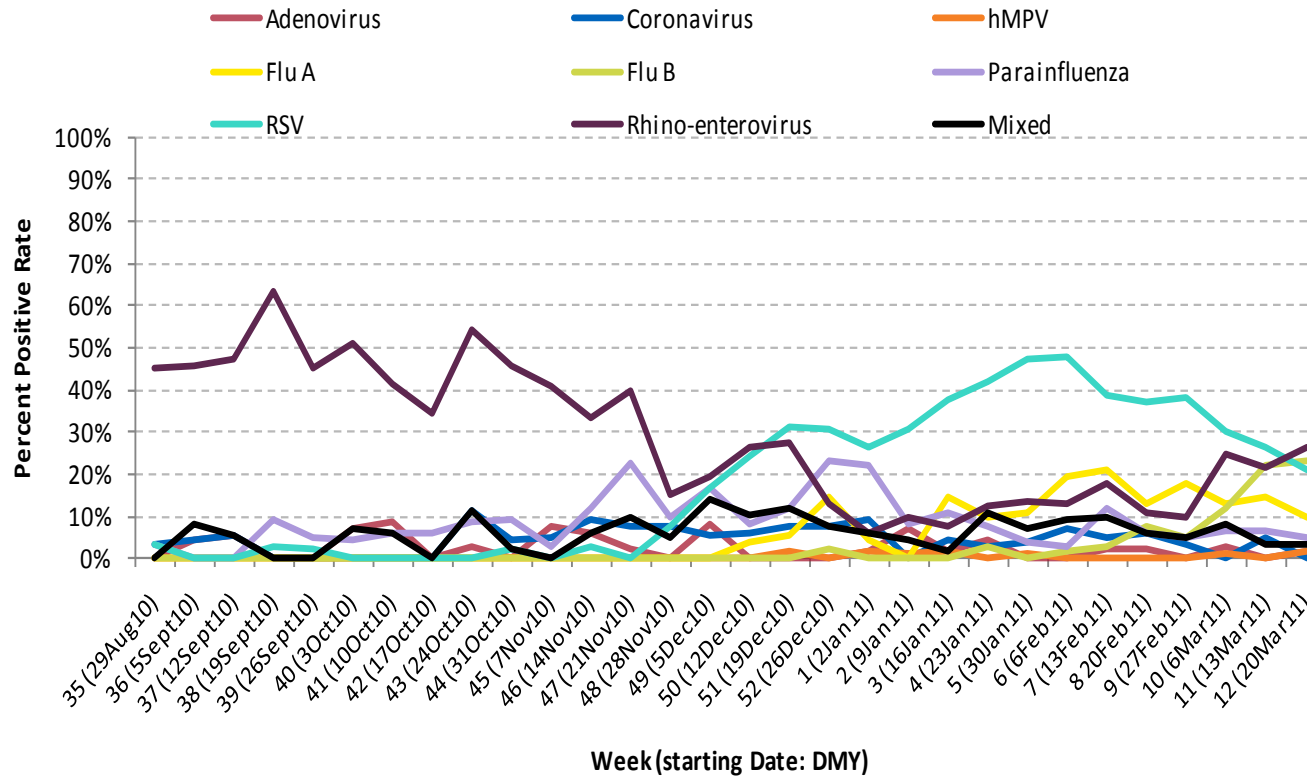
**Public Health Surveillance**

Report Date: March 29, 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 Mar 26, 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

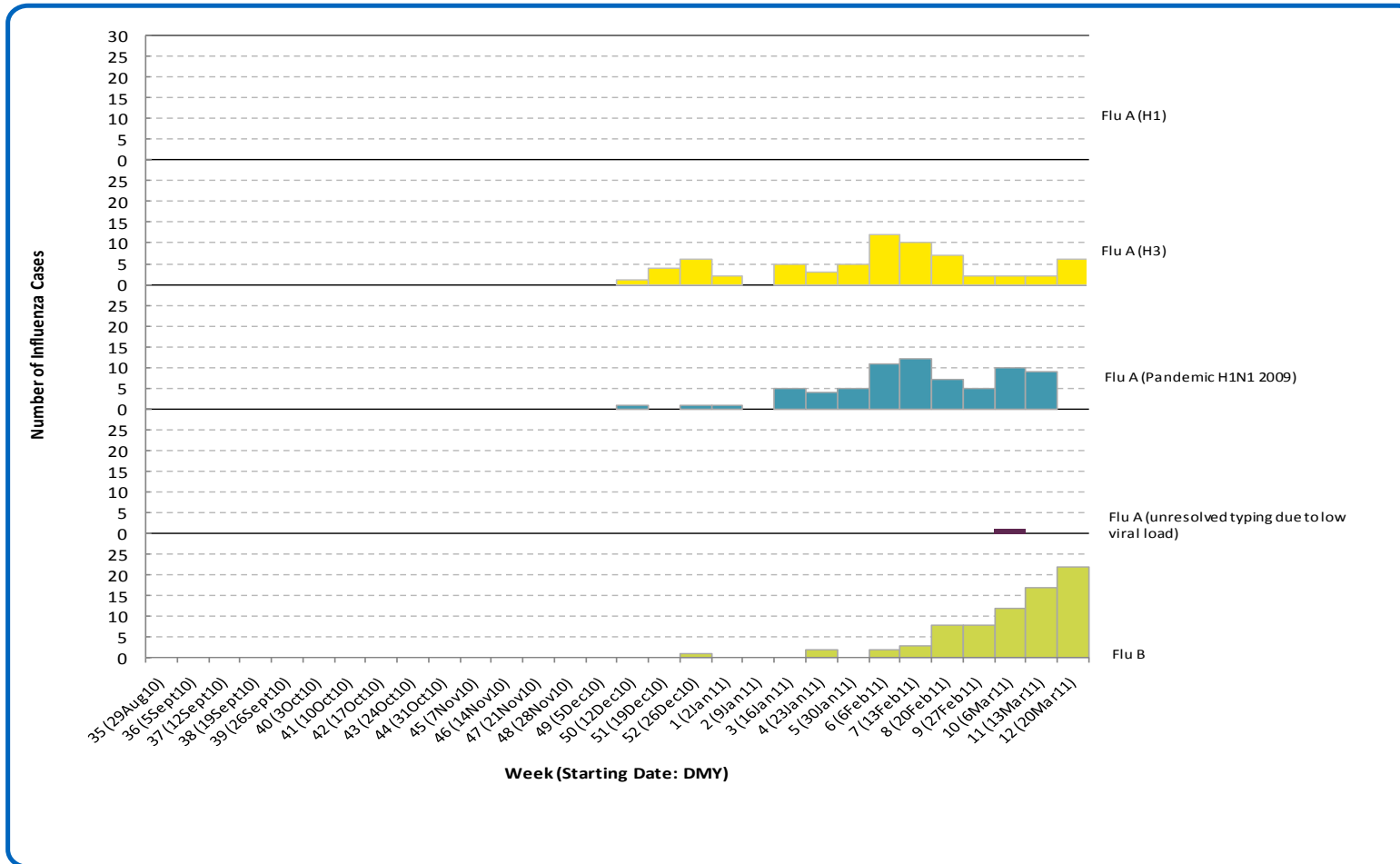
Public Health Surveillance

Report Date: March 29, 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 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 Mar 26, 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: March 29, 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 12: Mar 20-26, 2011)**

|                 | Flu A (Seasonal-H1) |                   | Flu A (Seasonal-H3) |                   | Flu A (Pandemic H1N1 2009) |                   | Flu A (unresolved typing due to low viral load) |                   | Flu B     |                   | Total     |                   |
|-----------------|---------------------|-------------------|---------------------|-------------------|----------------------------|-------------------|---|-------------------|-----------|-------------------|-----------|-------------------|
|                 | #                   | Rate (per 10,000) | #                   | Rate (per 10,000) | #                          | Rate (per 10,000) | #   | Rate (per 10,000) | #         | Rate (per 10,000) | #         | Rate (per 10,000) |
| 0 to <2 years   | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 2         | 1.4               | 2         | 1.4               |
| 2 to <5 years   | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 4         | 2.0               | 4         | 2.0               |
| 5 to <9 years   | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 2         | 0.8               | 2         | 0.8               |
| 9 to <18 years  | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 4         | 0.7               | 4         | 0.7               |
| 18 to <65 years | 0                   | 0.0               | 0                   | 0.0               | 5                          | 0.2               | 0   | 0.0               | 10        | 0.4               | 15        | 0.5               |
| 65 to <75 years | 0                   | 0.0               | 0                   | 0.0               | 1                          | 0.5               | 0   | 0.0               | 0         | 0.0               | 1         | 0.5               |
| 75+ years       | 0                   | 0.0               | 0                   | 0.0               | 0                          | 0.0               | 0   | 0.0               | 0         | 0.0               | 0         | 0.0               |
| <b>Total</b>    | <b>0</b>            | <b>0.0</b>        | <b>0</b>            | <b>0.0</b>        | <b>6</b>                   | <b>0.1</b>        | <b>0</b>  | <b>0.0</b>        | <b>22</b> | <b>0.5</b>        | <b>28</b> | <b>0.6</b>        |

**Table 6B: Cumulative influenza cases (and age specific rates), by subtype, by age group, North Zone (Aug 29, 2010-Mar 26, 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               | 12                  | 8.4               | 15                         | 10.5              | 1   | 0.7               | 13        | 9.1               | 41         | 28.8              |
| 2 to <5 years   | 0                   | 0.0               | 6                   | 3.0               | 4                          | 2.0               | 0   | 0.0               | 13        | 6.4               | 23         | 11.3              |
| 5 to <9 years   | 0                   | 0.0               | 10                  | 4.1               | 5                          | 2.1               | 0   | 0.0               | 10        | 4.1               | 25         | 10.3              |
| 9 to <18 years  | 0                   | 0.0               | 9                   | 1.6               | 10                         | 1.8               | 0   | 0.0               | 14        | 2.5               | 33         | 5.9               |
| 18 to <65 years | 0                   | 0.0               | 24                  | 0.9               | 37                         | 1.3               | 0   | 0.0               | 23        | 0.8               | 84         | 3.0               |
| 65 to <75 years | 0                   | 0.0               | 2                   | 0.9               | 0                          | 0.0               | 0   | 0.0               | 2         | 0.9               | 4          | 1.8               |
| 75+ years       | 0                   | 0.0               | 4                   | 2.5               | 0                          | 0.0               | 0   | 0.0               | 0         | 0.0               | 4          | 2.5               |
| <b>Total</b>    | <b>0</b>            | <b>0.0</b>        | <b>67</b>           | <b>1.5</b>        | <b>71</b>                  | <b>1.6</b>        | <b>1</b>  | <b>0.0</b>        | <b>75</b> | <b>1.7</b>        | <b>214</b> | <b>4.9</b>        |

Source for Tables 6A & 6B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before *Mar 26, 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

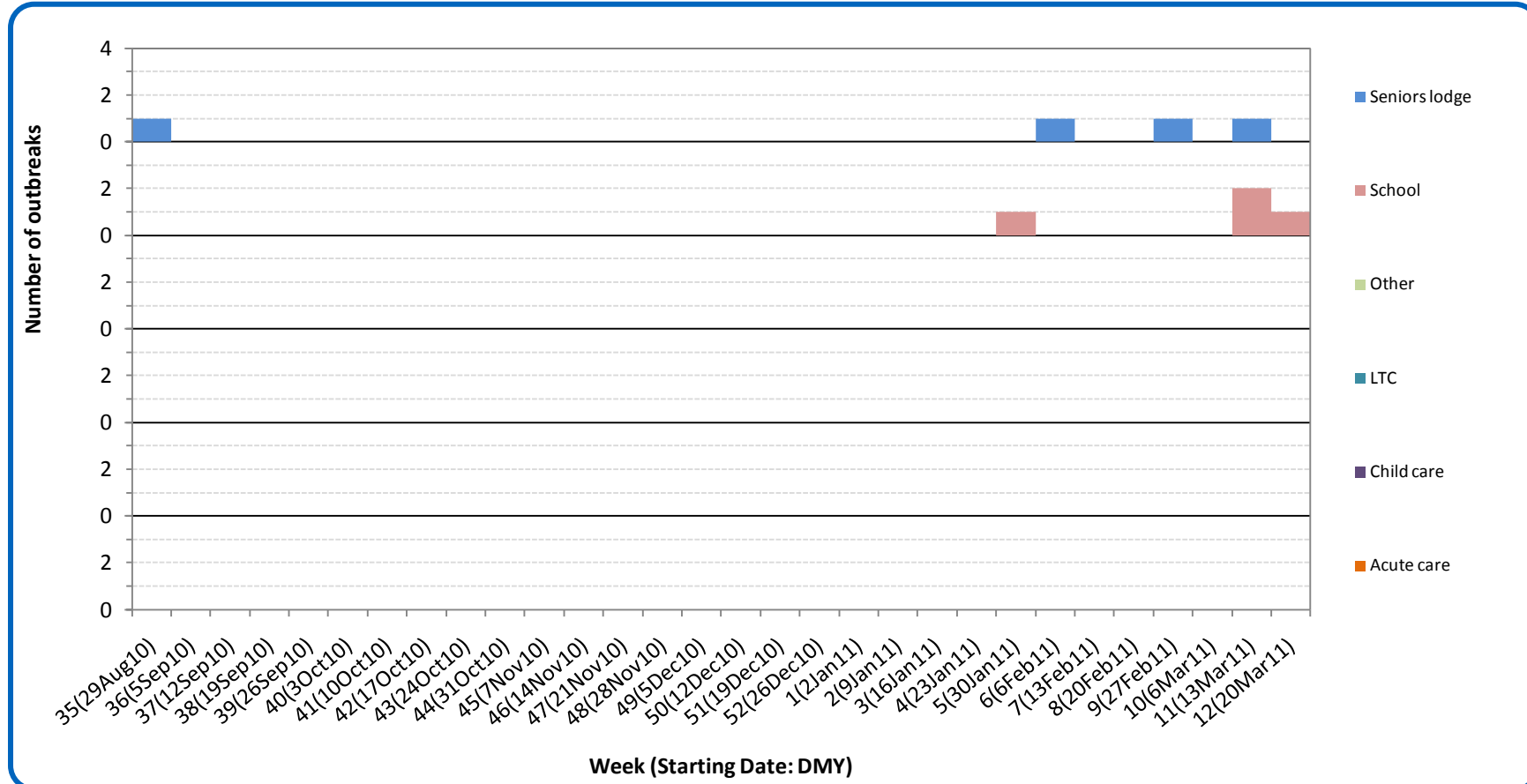
### Public Health Surveillance

Report Date: March 29, 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 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 Mar 26, 2011. LTC stands for long term care facility. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

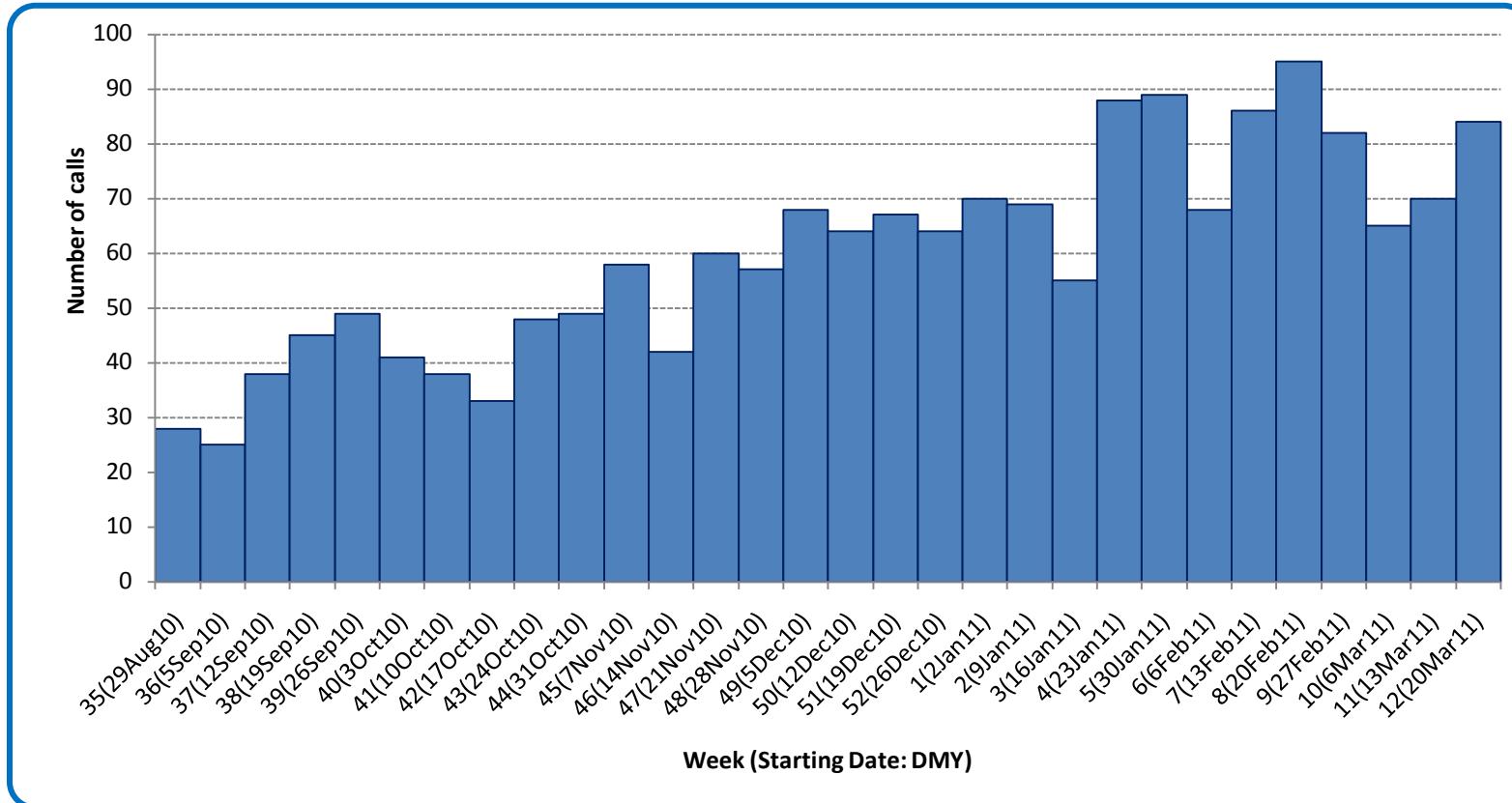
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Report Date: March 29, 2011

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 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 Mar 26, 2011. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

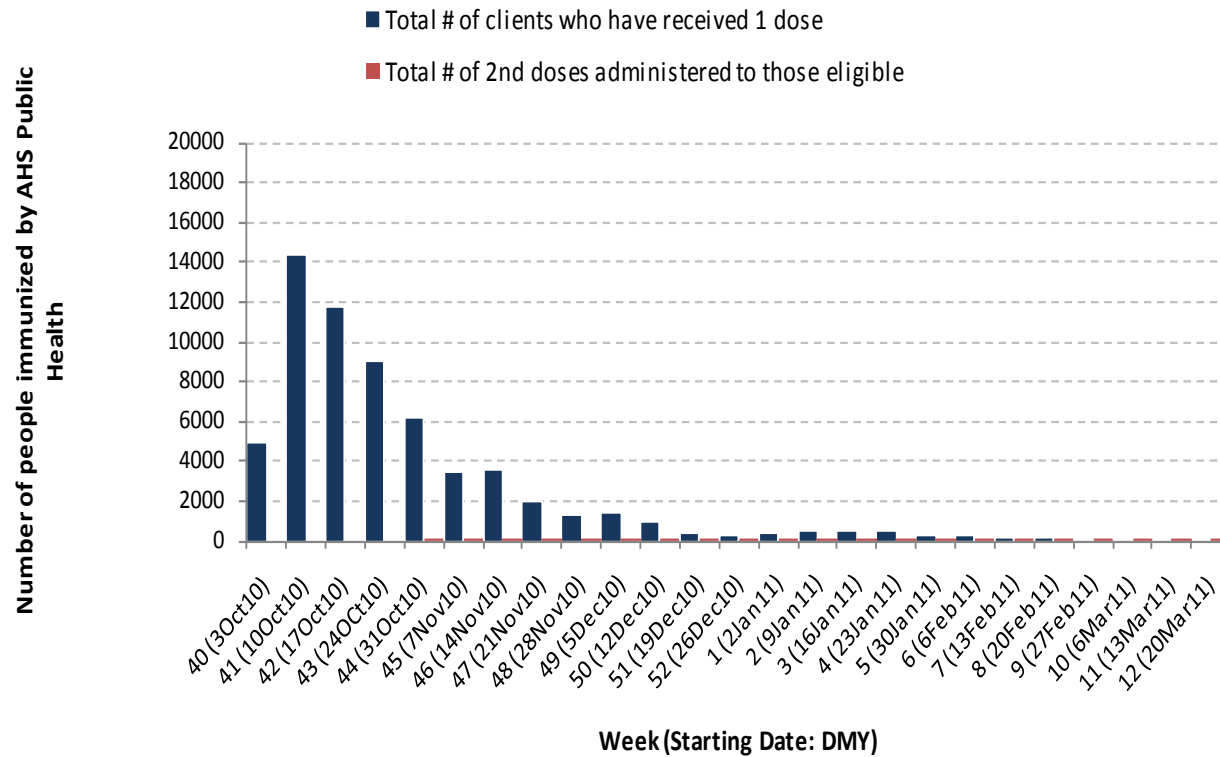
**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

**Public Health Surveillance**  
Report Date: March 29, 2011

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

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



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

**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

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 Report Date: March 29, 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 6C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, North Zone (2010-2011)

| Priority Group   | # Immunized<br>(Week 12 –<br>Mar20-26, 2011) | Cumulative Number<br>Immunized (since<br>Oct 3, 2010) |
|--|--|---|
| Long term care staff   | 2  | 817   |
| Health care workers  | 4  | 4,704   |
| Pregnant women   | 1  | 571   |
| Residents of long term care                                      | 0  | 1,248   |
| 65 years of age and over   | 2  | 15,798  |
| All children 6 months up to and including 23 months*             | Dose #1                                      | 2,414   |
|  | Dose #2                                      | 904   |
| All children 24 months up to and including 59 months*            | Dose #1                                      | 2,561   |
|  | Dose #2                                      | 140   |
| High risk: 5 years up to and including 8 years*                  | Dose #1                                      | 958   |
|  | Dose #2                                      | 12  |
| High risk: 9 years up to and including 64 years                  | 14   | 7,855   |
| Healthy: 5 years up to and including 8 years*                    | Dose #1                                      | 2,468   |
|  | Dose #2                                      | 63  |
| Healthy: 9 years up to and including 64 years                    | 47   | 23,548  |
| <b>Total number of clients who have received 1 dose</b>          | <b>95</b>                                    | <b>62,942</b>   |
| <b>Total number of 2nd doses administered to those eligible*</b> | <b>23</b>                                    | <b>1,119</b>  |

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: March 29, 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 6D: Influenza immunizations delivered by external partners, by priority group, North Zone (Oct 3-Dec 31, 2010)**

| Priority Group  | # Immunized<br>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                             |   |
| <b>Total number of clients who have received 1 dose</b>   | <b>5,075</b>                      |   |
| 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 2<sup>nd</sup> 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

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

## 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.

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

### Public Health Surveillance

Report Date: March 29, 2011

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## OUTBREAKS

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

## INFLUENZA IMMUNIZATIONS

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

## POPULATION NUMBERS

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

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

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