## FluWatch |



Agence de santé publique du Canada

#### October 15, 2006 to October 21, 2006 (Week 42)

### Sporadic influenza activity reported in a few regions of the country

During week 42, sporadic activity continued to be reported in Alberta (northern region) and Ontario (Toronto and central east regions), while the rest of the country reported no activity (see map). In week 42, 5 (0.4%) of the 1,329 specimens tested for influenza virus were positive (see table). Ten (67%) of the 15 influenza detections so far this season were influenza A viruses. The ILI consultation rate remained low with a rate of 13 per 1,000 patient visits in week 42 (see ILI graph) with a sentinel response rate of 63%. There have been no influenza outbreaks reported so far this season.

#### **Antigenic Characterization:**

The National Microbiology Laboratory (NML) has characterized four influenza viruses for the 2006-2007 influenza season, one A/Wisconsin/67/2005(H3N2)-like virus from Ontario and three A/New Caledonia/20/99(H1N1)-like from Alberta. Both strains are included in the composition of the 2006-2007 Canadian influenza vaccine.

#### **Antiviral Resistance**

The NML has tested three influenza A isolates for amantadine resistance this season and found that one influenza A(H3N2) was resistant to amantadine. The other isolates were influenza A/H1N1 which remain sensitive to amantadine. Because approximately 80% of the influenza A isolates from the 2005-2006 influenza season were resistant to amantadine, the Public Health Agency of Canada does not recommend the use of this drug for treatment or prophylaxis against influenza for the 2006-2007 season. This recommendation will be revisited if new information becomes available.

#### For further information:

<a href="http://www.phac-aspc.gc.ca/media/advisories\_avis/2006/statment060115.html">http://www.phac-aspc.gc.ca/publicat/ccdr-rmtc/06vol32/acs-07/index.html">http://www.phac-aspc.gc.ca/publicat/ccdr-rmtc/06vol32/acs-02/index.html</a>

#### Influenza-associated Paediatric Hospitalizations:

During week 42, no new laboratory-confirmed influenza-associated pediatric hospitalizations were reported through the Immunization Monitoring Program Active (IMPACT) network. One case has been reported to IMPACT since the start of this influenza season.

#### International:

**CDC:** During week 41, low levels of influenza activity were reported in the United States. Nine (1%) of the specimens tested were positive for influenza: six influenza A(H1) and three influenza B viruses. The proportion of patient visits for ILI and the proportion of deaths due to pneumonia and influenza remained below baseline levels. <a href="http://www.cdc.gov/flu/weekly/fluactivity.htm">http://www.cdc.gov/flu/weekly/fluactivity.htm</a>

**EISS:** In week 42, low levels of influenza activity were reported in Europe with only sporadic cases of influenza being reported. Consultations rates for ILI remained at baseline levels. Of note, all four influenza A cases in France were in children. <a href="http://www.eiss.org/cgi-files/bulletin\_v2.cgi">http://www.eiss.org/cgi-files/bulletin\_v2.cgi</a>

**Human Avian Influenza:** No new cases of avian influenza have been reported to the WHO since 16 October 2006.

Since the beginning of 2004, there have been a total of 256 laboratory confirmed cases of avian influenza including 151 deaths reported to WHO from Asia, Europe and Africa.

<a href="http://www.who.int/csr/disease/avian\_influenza/country/cases\_table\_2006\_10\_16/en/index.html">http://www.who.int/csr/disease/avian\_influenza/country/cases\_table\_2006\_10\_16/en/index.html</a>

# Total number of influenza tests performed and number of positive tests by province/territory of testing laboratory, Canada, 2006-2007

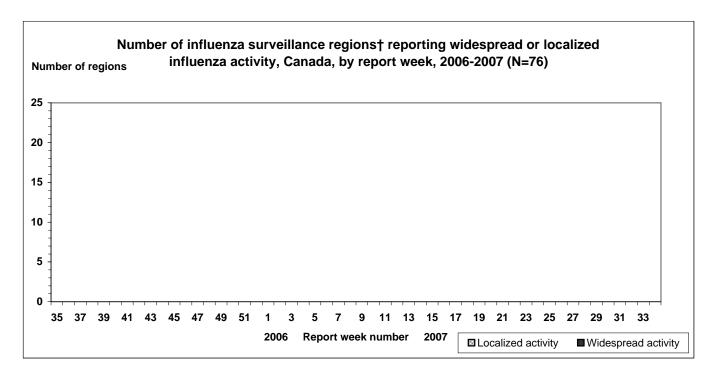
	Report Period: October 15, 2006 to October 21, 2006				Season to Date: August 27, 2006 to October 21, 2006			
Province of reporting	Total # of	# of positive tests			Total # of	# of positive tests		
	influenza				influenza			
laboratories	tests	Influenza A	Influenza B	Total	tests	Influenza A	Influenza B	Total
NL	4	0	0	0	20	0	0	0
PE	2	0	0	0	2	0	0	0
NS	20	0	0	0	101	0	0	0
NB	14	0	0	0	113	0	0	0
QC	238	0	0	0	1378	0	0	0
ON	446	0	0	0	2458	2	0	2
MB	42	0	0	0	239	0	0	0
SK	150	0	0	0	710	0	0	0
AB	363	1	0	1	2540	6	1	7
ВС	50	0	4	4	358	2	4	6
Canada	1329	1	4	5	7919	10	5	15

Specimens from NT, YT, and NU are sent to reference laboratories in other provinces.

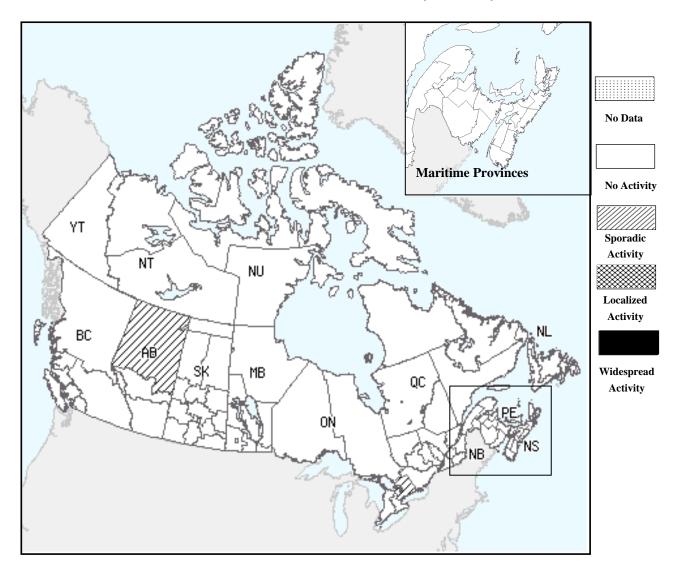
**Note:** Cumulative data includes updates to previous weeks; due to reporting delays, the sum of weekly report totals do not add up to cumulative totals.

Abbreviations: Newfoundland/Labrador (NL), Prince Edward Island (PE), New Brunswick (NB), Nova Scotia (NS), Quebec (QC), Ontario (ON), Manitoba (MB), Saskatchewan (SK), Alberta (AB), British Columbia (BC), Yukon (YT), Northwest Territories (NT), Nunavut (NU)

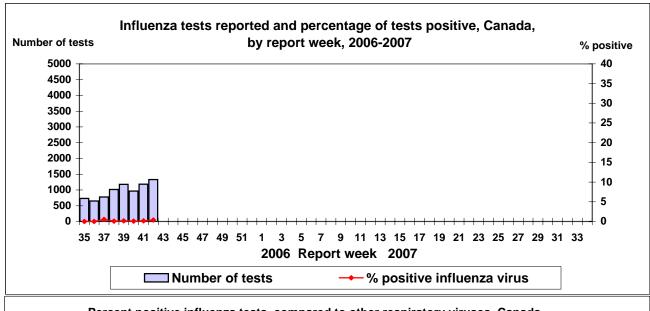
Respiratory virus laboratory detections in Canada, by geographic regions, are available weekly on the following website: <a href="http://www.phac-aspc.gc.ca/bid-bmi/dsd-dsm/rvdi-divr/index.html">http://www.phac-aspc.gc.ca/bid-bmi/dsd-dsm/rvdi-divr/index.html</a>

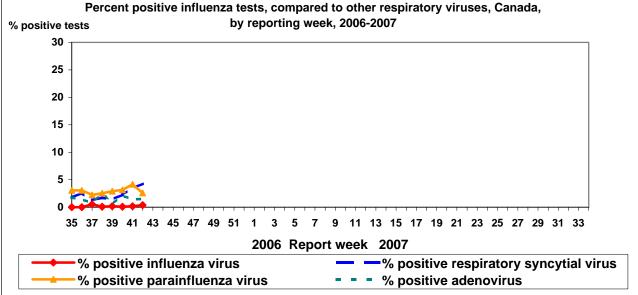


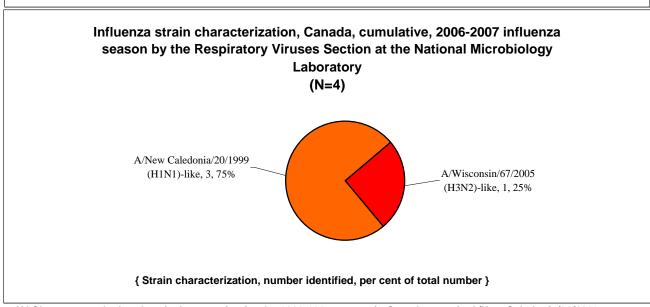
# Influenza Activity Level by Provincial and Territorial Influenza Surveillance Regions, Canada; October 15, 2006 to October 21, 2006 (Week 42)

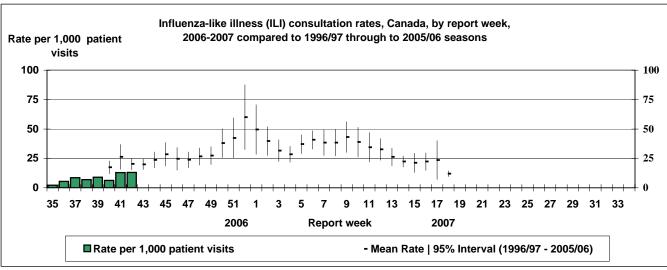


**Note:** Influenza activity levels, as represented on this map, are assigned and reported by Provincial and Territorial Ministries of Health, **based on laboratory confirmations**, **sentinel ILI rates (see graphs and tables) and outbreaks**. Please refer to detailed definitions on the last page. For areas where no data is reported, late reports from these provinces and territories will appear on the FluWatch website. Select single maps by report week to get this updated information. <a href="http://dsol-smed.hc-sc.gc.ca/dsol-smed/fluwatch/fluwatch.phtml?lang=e">http://dsol-smed.hc-sc.gc.ca/dsol-smed/fluwatch/fluwatch.phtml?lang=e</a> >

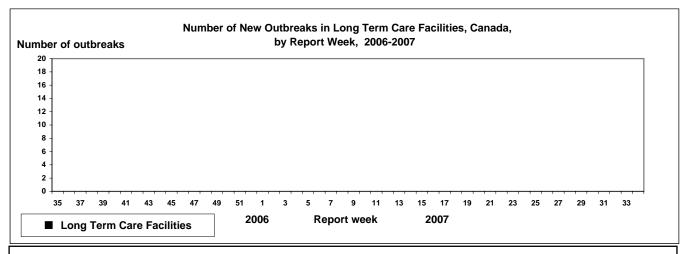








Note: No data available for mean rate in previous years for weeks 19 to 39 (1996-1997 through 2002-2003 seasons).



FluWatch reports include data and information from five main sources: laboratory reports of positive influenza tests in Canada; sentinel physician reporting of influenza-like illness (ILI); provincial/territorial assessment of influenza activity based on various indicators, including laboratory surveillance, ILI reporting, school and work site absenteeism, and outbreaks; influenza-associated pediatric hospitalizations; WHO and other international reports of influenza activity.

The map shows influenza activity in the "influenza surveillance regions" † within each jurisdiction, as determined by the provincial/territorial epidemiologists.

#### ILI definitions for the 2006-2007 season

**ILI in the general population:** Acute onset of respiratory illness with fever and cough and with one or more of the following - sore throat, arthralgia, myalgia, or prostration which could be due to influenza virus. In children under 5, gastrointestinal symptoms may also be present. In patients under 5 or 65 and older, fever may not be prominent.

#### Definitions of ILI/Influenza outbreaks for the 2006-2007 season

Schools and work sites: greater than 10% absenteeism on any day most likely due to ILI

**Residential institutions:** two or more cases of ILI within a seven-day period, **including at least one laboratory confirmed case.** Institutional outbreaks should be reported within 24 hours of identification.

#### Influenza Activity levels are defined as:

- 1 = No activity: i.e. no laboratory-confirmed influenza detections during the past four weeks, however, sporadically occurring ILI may be reported
- 2 = Sporadic: sporadically occurring **ILI** and **lab confirmed influenza\* with NO outbreaks** detected within the influenza surveillance region†
- 3 = Localized: sporadically occurring **ILI** and **lab confirmed influenza\* together with outbreaks of ILI** in schools and worksites or laboratory confirmed influenza in residential institutions occurring in less than 50% of the influenza surveillance region(s)†
- 4 = Widespread: sporadically occurring **ILI** and **lab confirmed influenza\* together with outbreaks of ILI** in schools and worksites or laboratory confirmed influenza in residential institutions occurring **in greater than or equal to 50% of the influenza surveillance region(s)†**
- \* confirmation of influenza within the surveillance region at any time within the prior four weeks
- † sub-regions within the province or territory as defined by the provincial/territorial epidemiologist

We would like to thank all the Fluwatch surveillance partners who are participating in this year's influenza surveillance program. This report is available on the Public Health Agency website at the following address: http://www.phac-aspc.gc.ca/fluwatch/index.html Ce rapport est disponible dans les deux langues officielles. Pour en recevoir un exemplaire dans l'autre langue chaque semaine, veuillez communiquer avec Estelle Arseneault, Division de l'immunisation et des infections respiratoires au (613) 952-8484