

### SURVEILLANCE WEEKS 26&27 (June 27, 2010– July 10, 2010)

This issue of the Ontario Influenza Bulletin provides information on the surveillance period from June 27, 2010 to July 10, 2010 (Weeks 26 & 27). **All data are for weeks 26 & 27 unless otherwise specified.** Data extraction and analysis for this issue of the Bulletin occurred on July 14, 2010.

In order to enable our readers to better assess influenza activity in Ontario, we have combined various sources of information in the following table.

#### Assessment of Influenza Activity in Ontario

| Measure                                                 | Assessment of measure compared to previous week (Lower, Similar, Higher)       | Reasoning behind assessment                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Laboratory Confirmed Cases                              | Similar                                                                        | Zero influenza cases (0 pH1N1) reported in weeks 26/27 compared to one reported in weeks 24/25 (0 pH1N1)*. The percent positivity of laboratory tests for influenza A at the Toronto Public Health Laboratory was 0% for week 26. This is the same as weeks 24/25 (0%).                       |
| Influenza Outbreaks                                     | Lower                                                                          | No new institutional influenza outbreaks were reported for the current reporting week.                                                                                                                                                                                                        |
| Influenza Activity Levels Reported by Health Units      | Similar                                                                        | Health units reported either no influenza activity or did not report for week 27.                                                                                                                                                                                                             |
| ILI Consultation Rate reported by Sentinel Physicians   | Similar                                                                        | The overall ILI consultation rate has increased slightly from 9.57/1,000 patient visits in Week 25 to 9.94/1,000 patient visits in Week 27.<br><br>The ILI rate is slightly higher than the average rate for week 27 from previous years but within the expected range for the summer months. |
| Hospitalizations Among Lab Confirmed Cases of Influenza | No change                                                                      | No new hospitalizations in influenza cases were reported from July 4 to July 10, which is the same as the previous week (June 26 to July 3).                                                                                                                                                  |
| Deaths Among Lab Confirmed Cases of Influenza           | No change                                                                      | No new deaths in influenza cases were reported from July 4 to July 10, which is the same as the previous week (June 26 to July 3).                                                                                                                                                            |
| OVERALL ASSESSMENT                                      | Influenza activity in Ontario is <i>similar</i> compared to the previous week. | Overall, the indicators show that influenza activity was similar in weeks 26/27 compared to weeks 24/25.                                                                                                                                                                                      |

\*Counts from previous weeks may be updated and therefore may not match reports in earlier Bulletins

# Ontario Influenza Bulletin, 2009-2010

## Surveillance Weeks 26&27 (June 27, 2010 – July 10, 2010)

Overall, influenza activity in Ontario during weeks 26 and 27, 2010, was **similar** when compared to weeks 24 and 25, 2010. Ontario health units reported no new confirmed case of influenza for the current two weeks through the integrated Public Health Information System (iPHIS). During weeks 26 and 27, 2010, no new laboratory confirmed case of pH1N1 was seen in the province. No new institutional influenza outbreaks were reported for Weeks 26 and 27. A total of 536 respiratory infection outbreaks have been reported in 2010 up to Week 27, which includes 58 influenza outbreaks. For week 27, health units either reported no influenza activity or did not report their activity level. The ILI rate is higher than the average rate for week 27 from previous years but within the expected range for the summer months.

### Publication of the Ontario Influenza Bulletin

An abbreviated version of the Ontario Influenza Bulletin will be produced during the summer months. If there is an increase in influenza activity before the expected increase in the fall, the full version will be produced. The Bulletin will be published on alternate weeks until October 2010. Influenza activity level maps will be available during weeks the Bulletin is not published at:

[http://www.health.gov.on.ca/english/providers/program/pubhealth/flu/flu\\_09/flumap\\_mn.html](http://www.health.gov.on.ca/english/providers/program/pubhealth/flu/flu_09/flumap_mn.html)

For a definition of ILI activity levels and links to websites providing current influenza information from other sources, please refer to the attached Appendix- I. If you would like to provide feedback on the Bulletin, please contact Christine D'Souza ([christine.dsouza1@ontario.ca](mailto:christine.dsouza1@ontario.ca), 416-212-5323) or Michael Whelan ([michael.whelan@ontario.ca](mailto:michael.whelan@ontario.ca), 416-327-9174).

**Table 1:** Summary of confirmed influenza cases and institutional influenza outbreaks by health region (Weeks 26 & 27, 2009-2010)

| Confirmed influenza cases*†                                                | HEALTH REGION |            |          |              |          |            |              | TOTAL    |
|----------------------------------------------------------------------------|---------------|------------|----------|--------------|----------|------------|--------------|----------|
|                                                                            | North West    | North East | Eastern  | Central East | Toronto  | South West | Central West |          |
| Pandemic (H1N1) 2009                                                       | 0             | 0          | 0        | 0            | 0        | 0          | 0            | 0        |
| Influenza A (Not Subtyped/No Subtype)                                      | 0             | 0          | 0        | 0            | 0        | 0          | 0            | 0        |
| Influenza A (Seasonal H1)                                                  | 0             | 0          | 0        | 0            | 0        | 0          | 0            | 0        |
| Influenza A (Seasonal H3)                                                  | 0             | 0          | 0        | 0            | 0        | 0          | 0            | 0        |
| Influenza A** (Other)                                                      | 0             | 0          | 0        | 0            | 0        | 0          | 0            | 0        |
| Influenza B                                                                | 0             | 0          | 0        | 0            | 0        | 0          | 0            | 0        |
| Influenza A & B                                                            | 0             | 0          | 0        | 0            | 0        | 0          | 0            | 0        |
| <b>Total new cases</b>                                                     | <b>0</b>      | <b>0</b>   | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b>   | <b>0</b>     | <b>0</b> |
| <b>Institutional outbreaks of pandemic (H1N1) 2009 ‡</b>                   | <b>0</b>      | <b>0</b>   | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b>   | <b>0</b>     | <b>0</b> |
| <b>Institutional outbreaks of Influenza (Other Subtypes/Not Subtyped)‡</b> | <b>0</b>      | <b>0</b>   | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b>   | <b>0</b>     | <b>0</b> |

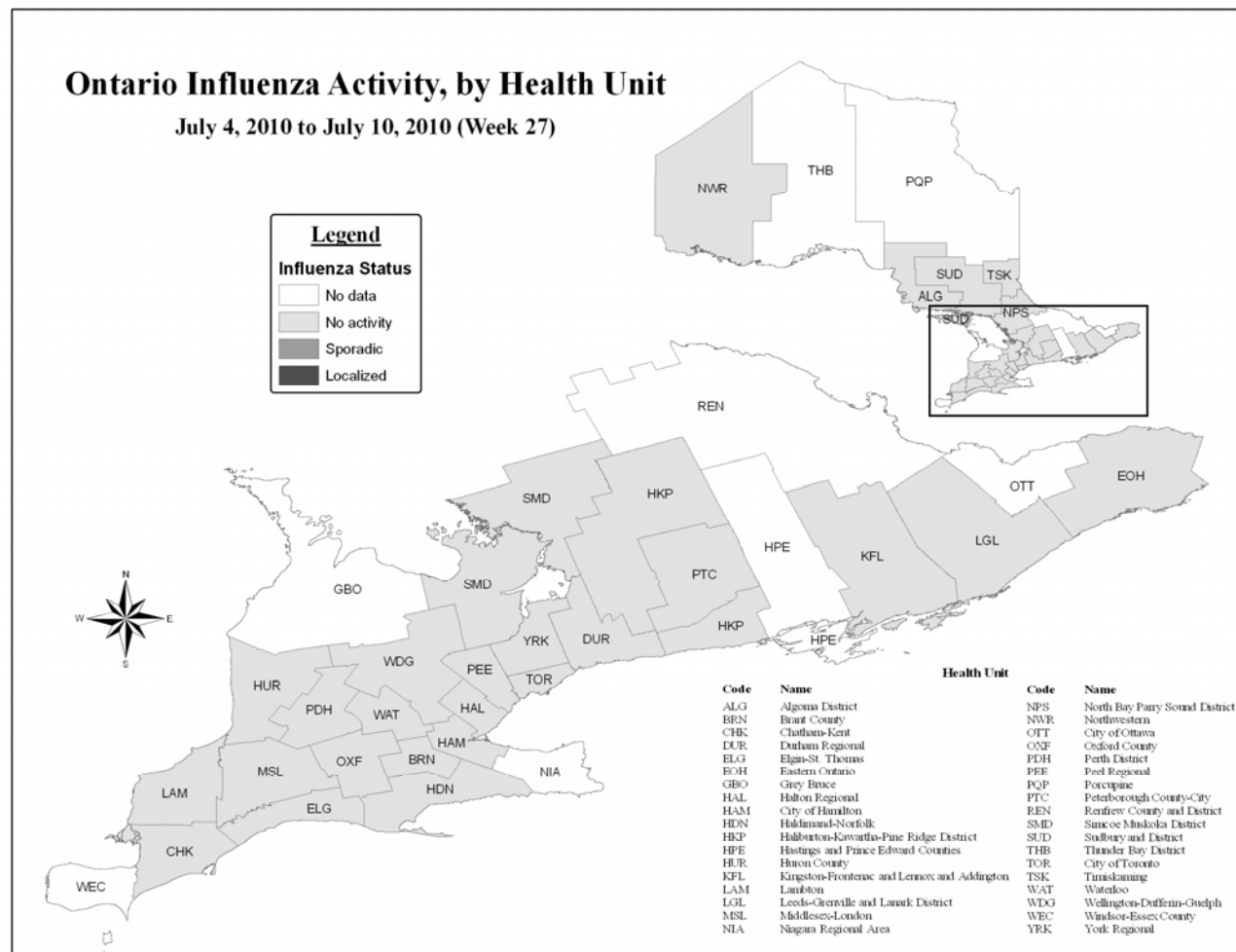
**SOURCE:** Ontario Ministry of Health and Long-Term Care, integrated Public Health Information System (iPHIS) database, extracted [14/07/2010].

\* Includes reports of confirmed influenza through iPHIS, as well as cases in institutional outbreaks, with dates of onset for the first case in the surveillance period.

‡ Confirmed outbreaks in institutions with onset date of symptoms during the surveillance period.

\*\* Includes indeterminate, untypeable and other subtypes.

**Figure 9:** Influenza Activity\* levels in Ontario by health unit for Week 27, 2010



**SOURCE:** MOHLTC [Provincial Influenza Activity Report (Appendix C) Database]

\* Influenza activity levels are assigned by local public health units and reported to the MOHLTC by the Tuesday following the end of the surveillance week at 4 pm. Activity levels are assigned based on laboratory confirmations, ILI reports from various sources, and laboratory confirmed institutional outbreaks. Please refer to detailed definitions for the 2009-2010 season included in the Appendix-1]

#### **FURTHER INFORMATION**

1. Ontario Ministry of Health and Long-Term Care  
Previous issues of the *Ontario Influenza Bulletin* can be accessed at:  
[http://www.health.gov.on.ca/english/providers/program/pubhealth/flu/flu\\_09/flubul\\_mn.html](http://www.health.gov.on.ca/english/providers/program/pubhealth/flu/flu_09/flubul_mn.html)  
  
When referencing material from the Ontario Influenza Bulletin please use the following format:  
Ontario Ministry of Health and Long-Term Care, Ontario Influenza Bulletin 2009-2010 Season, Surveillance Week ##. <URL>
2. Ontario Agency for Health Protection and Promotion  
OAHPP Weekly Laboratory Surveillance Update  
<http://www.oahpp.ca/SRI%20Bulletin.php>
3. Public Health Agency of Canada  
Issues of FluWatch can be accessed at:  
[www.phac-aspc.gc.ca/fluwatch/](http://www.phac-aspc.gc.ca/fluwatch/)
4. United States Centers for Disease Control and Prevention  
<http://www.cdc.gov/flu/weekly/fluactivity.htm>
5. European Influenza Surveillance Scheme  
[http://www.eiss.org/cgi-files/bulletin\\_v2.cgi](http://www.eiss.org/cgi-files/bulletin_v2.cgi)

#### **INFORMATION ABOUT H1N1 INFLUENZA (HUMAN SWINE INFLUENZA)**

1. CDC (Human swine flu investigation)  
<http://www.cdc.gov/swineflu/investigation.htm>
2. PHAC (Human swine flu investigation)  
[http://www.phac-aspc.gc.ca/alert-alerte/swine\\_200904-eng.php](http://www.phac-aspc.gc.ca/alert-alerte/swine_200904-eng.php)
3. WHO Swine Flu general info  
<http://www.who.int/csr/disease/swineflu/en/index.html>
4. Ontario Ministry of Health (Important Health Notices)  
<http://www.health.gov.on.ca/english/providers/program/emu/ihn.html>

#### **INFORMATION ABOUT AVIAN INFLUENZA**

For latest information on the status of avian influenza worldwide please use the following link:  
**Public Health Agency of Canada**  
<http://www.phac-aspc.gc.ca/h5n1/index.html>

Influenza Surveillance Weeks 2009-2010 and date of submission of Appendix C

| <b>WEEKS</b> | <b>START</b> | <b>END</b> | <b>Appendix C Submission to MOHLTC</b> |
|--------------|--------------|------------|----------------------------------------|
| WK28         | 11-Jul-10    | 17-Jul-10  | 20-Jul-10                              |
| WK29         | 18-Jul-10    | 24-Jul-10  | 27-Jul-10                              |
| WK30         | 25-Jul-10    | 31-Jul-10  | 3-Aug-10                               |
| WK31         | 1-Aug-10     | 7-Aug-10   | 10-Aug-10                              |
| WK32         | 8-Aug-10     | 14-Aug-10  | 17-Aug-10                              |
| WK33         | 15-Aug-10    | 21-Aug-10  | 24-Aug-10                              |
| WK34         | 22-Aug-10    | 28-Aug-10  | 31-Aug-10                              |
| WK35         | 29-Aug-10    | 4-Sep-10   | 7-Sep-10                               |

## APPENDIX - I

### Definitions for influenza activity levels:

**No Data:** No activity report corresponding to the surveillance week was received at the Ministry of Health and Long-Term Care Call Centre by the Tuesday (at 4 p.m.) following the end of the surveillance period.

**No Activity:** **No laboratory-confirmed\* influenza and NO outbreaks detected** within the health unit/ influenza surveillance area, within the prior week, although sporadically occurring ILI may or may not be present.†

**Sporadic:** Sporadically (infrequently) occurring **ILI and at least one lab-confirmed influenza\* case with NO outbreaks** detected within the health unit area.†

**Localized:** sporadically occurring **ILI and lab-confirmed influenza\* together with outbreaks of ILI** in schools§ and work sites, or laboratory-confirmed influenza in residential institutions occurring in < 50% of the health unit. Outbreaks affect a single and/or adjacent geographic area within the health unit jurisdiction, e.g. outbreaks in a nursing home and a school in close proximity to each other.†

**Widespread:** sporadically occurring **ILI and lab-confirmed influenza\* together with outbreaks of ILI** in schools and work sites, or laboratory-confirmed influenza in residential institutions occurring in > 50% of the health unit. Outbreaks affect multiple and non-adjacent geographic areas within the health unit jurisdiction, such as two or more regions of the health unit, two or more municipalities, two or more electoral wards, etc.†

\* Confirmation of influenza within the surveillance region at any time within the prior week

† Sub-regions within the province or territory as defined by the provincial/territorial epidemiologist

§Health units have been requested to consider laboratory confirmed pH1N1 outbreaks in camps in their region when evaluating ILI activity levels

### Influenza-Like Illness (ILI) Definitions:

#### A) ILI in the general population:

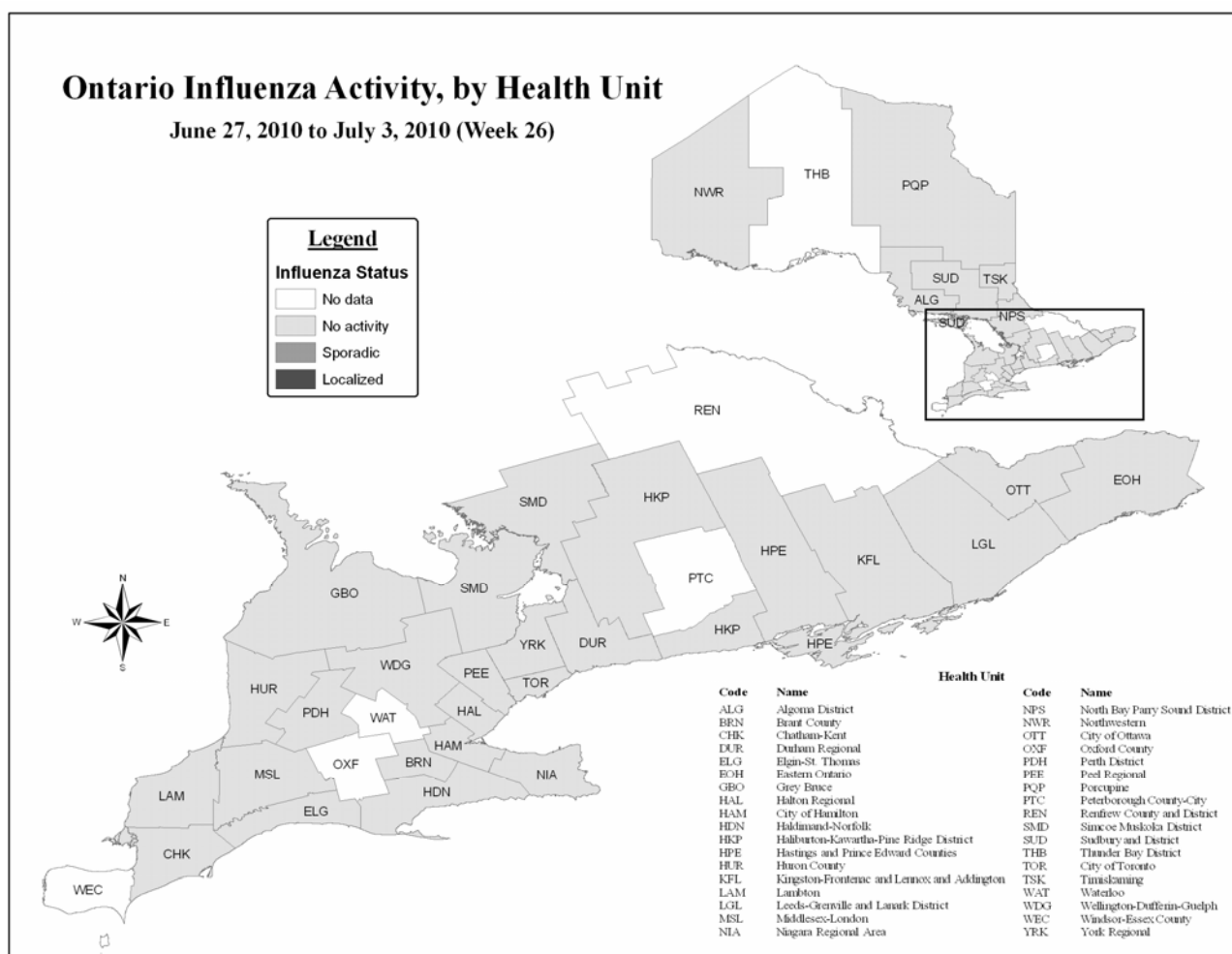
Acute onset of respiratory illness with fever and cough and with one or more of the following - sore throat, arthralgia, myalgia, or prostration which could be due to influenza virus. In children under 5, gastrointestinal symptoms may also be present. In patients under 5 or 65 and older, fever may not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

#### B) ILI/Influenza outbreaks:

**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.**

# Weekly Ontario Influenza Activity Map



**SOURCE:** MOHLTC [Provincial Influenza Activity Report (Appendix C) Database]

Influenza Activity levels are assigned by local public health units and reported to the MOHLTC every week. Activity levels are assigned based on laboratory confirmation of influenza, influenza like illness (ILI) reports from various sources including hospitals, institutions experiencing respiratory infection outbreaks, physicians' offices, etc.

Activity level definitions for the 2009-10 influenza season are as follows:

**No Data:** No activity report corresponding to the surveillance week was received at the Ministry of Health and Long-Term Care Call Centre by the Tuesday (at 4 p.m.) following the end of the surveillance period. **No Activity:** No laboratory-confirmed\* influenza and NO outbreaks detected within the health unit/ influenza surveillance area, within the prior week, although sporadically occurring ILI may or may not be present.† **Sporadic:** Sporadically (infrequently) occurring ILI and at least one lab-confirmed influenza\* case with NO outbreaks detected within the health unit area.† **Localized:** sporadically occurring ILI and lab-confirmed influenza\* together with outbreaks of ILI in schools§ and work sites, or laboratory-confirmed influenza in residential institutions occurring in < 50% of the health unit. Outbreaks affect a single and/or adjacent geographic area within the health unit jurisdiction, e.g. outbreaks in a nursing home and a school in close proximity to each other.† **Widespread:** sporadically occurring ILI and lab-confirmed influenza\* together with outbreaks of ILI in schools and work sites, or laboratory-confirmed influenza in residential institutions occurring in > 50% of the health unit. Outbreaks affect multiple and non-adjacent geographic areas within the health unit jurisdiction, such as two or more regions of the health unit, two or more municipalities, two or more electoral wards, etc.†

\* Confirmation of influenza within the surveillance region at any time within the prior week

† Sub-regions within the province or territory as defined by the provincial/territorial epidemiologist

§ Health units have been requested to consider laboratory confirmed pH1N1 outbreaks in camps in their region when evaluating ILI activity levels

**Note:** The Weekly Ontario Influenza Activity Map will be posted on this site bi-weekly, alternating with the *Ontario Influenza Bulletin* (which contains the Influenza Activity map), until the end of October, 2010. As of November 5, 2010, the *Ontario Influenza Bulletin* will be published weekly.