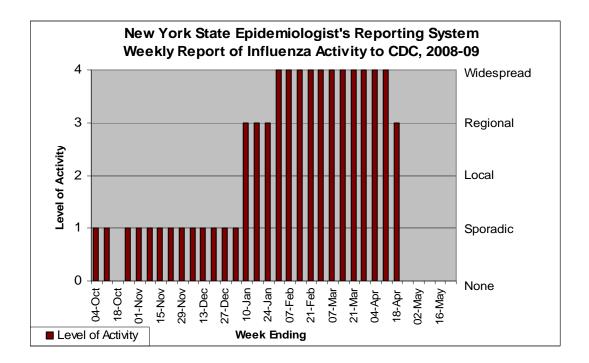
## NEW YORK STATE DEPARTMENT OF HEALTH BUREAU OF COMMUNICABLE DISEASE CONTROL REGIONAL EPIDEMIOLOGY PROGRAM

#### STATEWIDE INFLUENZA SURVEILLANCE REPORT

**April 21, 2009** 

**1. New York State Epidemiologist's Report to CDC:** For the week ending April 18, 2009, influenza activity was **regional**.



# CDC Definition of Influenza Activity Levels:

| Activity<br>Level | ILI <sup>1</sup> activity/Outbreaks   |     | Laboratory data  |  |
|-------------------|---|-----|--|--|
| No activity       | Low   | And | No lab-confirmed cases   |  |
| _                 | Not increased   | And | Isolated lab-confirmed cases   |  |
| Sporadic          |   | (   | OR   |  |
|                   | Not increased   | And | Lab-confirmed outbreak in one institution <sup>2</sup>   |  |
|                   | Increased ILI in one region; ILI activity in other regions is not increased   | And | Recent (within the past 3 weeks) lab evidence of influenza in region with increased ILI  |  |
|                   |   | . ( | OR   |  |
| Local             | 2 or more institutional outbreaks (ILI or lab- confirmed) in one region; ILI activity in other regions is not increased | And | Recent (within the past 3 weeks) lab evidence of influenza in region with the outbreaks; virus activity is no greater than sporadic in other regions |  |
|                   | Increased ILI in ≥ two but less than half of the regions  | And | Recent (within the past 3 weeks) lab confirmed influenza in the affected regions   |  |
| Regional          |   | (   | OR   |  |
| Regional          | Institutional outbreaks (ILI or lab confirmed) in ≥ two and less than half of the regions  And                          |     | Recent (within the past 3 weeks) lab confirmed influenza in the affected regions   |  |
| Widespread        | Increased ILI and/or institutional outbreaks (ILI or lab confirmed) in at least half of the regions                     | And | Recent (within the past 3 weeks) lab confirmed influenza in the state.   |  |

<sup>&</sup>lt;sup>1</sup> ILI = influenza-like illness, defined as temperature ≥ 100° F with cough and/or sore throat in the absence of a known cause other than influenza.

<sup>2</sup> Institution includes nursing home, hospital, correctional facility, school, etc.

# **2. Nosocomial Influenza Activity:** NYSDOH has received reports of laboratory-confirmed nosocomial influenza activity as noted in the table below.

| Week Ending                            | # of Nosocomial<br>Reports Received | County of Location  |  |  |
|--|-------------------------------------|---|--|--|
| April 18, 2009                         | 1                                   | Suffolk   |  |  |
| April 11                               | 1                                   | Chenango  |  |  |
| April 4                                | 6                                   | Broome, Chenango, Monroe (3), Onondaga  |  |  |
| March 28                               | 5                                   | Broome, Nassau, New York (2), Queens  |  |  |
| March 21                               | 4                                   | Erie (2), Queens, Tompkins  |  |  |
| March 14                               | 5                                   | Albany, Erie, Herkimer, Washington, Westchester                                     |  |  |
| March 7                                | 10                                  | Chenango, Erie, Lewis, Monroe, New York, Oneida,<br>Rensselaer (2), Suffolk, Ulster |  |  |
| February 28                            | 3                                   | Dutchess, New York, Queens  |  |  |
| February 21                            | 4                                   | Nassau, New York, Suffolk, Westchester  |  |  |
| February 14                            | 5                                   | Orange, Rensselaer, Suffolk, Westchester (2)  |  |  |
| February 7                             | 9                                   | Bronx (2), Dutchess, Monroe, Nassau, New York (2), Sullivan, Ulster                 |  |  |
| January 31                             | 5                                   | Bronx, Kings, New York, Suffolk, Westchester  |  |  |
| January 24                             | 1                                   | Nassau  |  |  |
| January 17                             | 2                                   | Suffolk (2)   |  |  |
| January 10                             | 0                                   |   |  |  |
| January 3                              | 1                                   | Monroe  |  |  |
| Weeks ending<br>Oct. 4 - Dec. 27, 2008 | 1                                   | Jefferson   |  |  |
| TOTAL                                  | 63                                  |   |  |  |

## 3. Local Health Department / Laboratory Reports:

NYSDOH has received reports of one or more laboratory-confirmed influenza cases from laboratories in the community that report results via the Electronic Clinical Laboratory Reporting System (ECLRS) and/or from local health departments as noted in the table below.

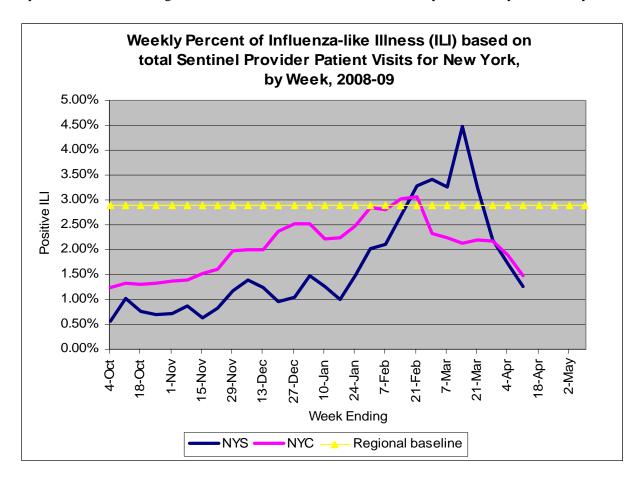
| Week Ending    | County of Location   |
|----------------|--|
| April 18, 2009 | Activity reported in 36 counties, as follows: Albany, Bronx, Broome, Chautauqua, Chemung, Chenango, Columbia, Cortland, Dutchess, Erie, Fulton, Kings, Livingston, Monroe, Montgomery, Nassau, New York, Niagara, Oneida, Onondaga, Ontario, Orange, Oswego, Queens, Richmond, Rockland, St. Lawrence, Saratoga, Schuyler, Steuben, Suffolk, Tioga, Tompkins, Warren, Wayne, Westchester |
| April 11       | Activity reported in 45 counties. No activity reported in the following 17 counties: Cattaraugus, Clinton, Essex, Franklin, Hamilton, Kings, Orange, Otsego, Richmond, St. Lawrence, Schenectady, Schoharie, Schuyler, Ulster, Washington, Wyoming, Yates  |
| April 4        | Activity reported in 50 counties. No activity reported in the following 12 counties: Allegany, Cattaraugus, Essex, Franklin, Greene, Hamilton, Jefferson, Richmond, Schenectady, Sullivan, Wyoming, Yates  |
| March 28       | Activity reported in 59 counties. No activity reported in the following 3 counties: Essex, Hamilton, Herkimer  |
| March 21       | Activity reported in 57 counties. No activity reported in the following 5 counties: Hamilton, Lewis, Schuyler, Sullivan, Wyoming   |

| Week Ending       | County of Location  |
|-------------------|---|
| March 14          | Activity reported in 59 counties. No activity reported in the following 3 counties: Essex, Hamilton, Lewis  |
| March 7           | Activity reported in 57 counties. No activity reported in the following 5 counties: Cayuga, Schuyler, Seneca, Steuben, Wyoming  |
| February 28       | Activity reported in 51 counties. No activity reported in the following 11 counties: Chemung, Franklin, Fulton, Genesee, Montgomery, Otsego, Schoharie, Seneca, Steuben, Washington, Yates  |
| February 21       | Activity reported in 55 counties. No activity reported in the following 7 counties: Cayuga, Franklin, Hamilton, Orleans, Schoharie, Tompkins, Wyoming   |
| February 14       | Activity reported in 49 counties. No activity reported in the following 13 counties: Chemung, Clinton, Essex, Fulton, Genesee, Greene, Lewis, Montgomery, Niagara, Schuyler, Tompkins, Warren, Wyoming  |
| February 7        | Activity reported in 39 counties. No activity reported in the following 23 counties:<br>Cayuga, Chenango, Clinton, Essex, Franklin, Fulton, Genesee, Hamilton, Livingston,<br>Montgomery, Niagara, Ontario, Otsego, St. Lawrence, Schenectady, Schoharie,<br>Schuyler, Seneca, Tioga, Warren, Washington, Wyoming, Yates  |
| January 31        | Activity reported in 35 counties: Albany, Bronx, Broome, Cattaraugus, Chemung, Chenango, Delaware, Dutchess, Erie, Essex, Genesee, Herkimer, Jefferson, Kings, Livingston, Madison, Monroe, Nassau, New York, Oneida, Onondaga, Orange, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Steuben, Suffolk, Sullivan, Tompkins, Wayne, Westchester, Yates |
| January 24        | Activity reported in 29 counties: Bronx, Chautauqua, Dutchess, Erie, Essex, Jefferson, Kings, Livingston, Monroe, Montgomery, Nassau, New York, Onondaga, Orange, Oswego, Otsego, Putnam, Queens, Rensselaer, Richmond, Rockland, St.Lawrence, Saratoga, Suffolk, Tioga, Tompkins, Ulster, Wayne, Westchester   |
| January 17        | Activity reported in 23 counties: Bronx, Chautauqua, Clinton, Columbia, Dutchess, Erie, Kings, Livingston, Monroe, Montgomery, Nassau, New York, Onondaga, Ontario, Putnam, Queens, Richmond, Rockland, St. Lawrence, Suffolk, Wayne, Westchester, Yates  |
| January 10        | Activity reported in 23 counties: Bronx, Broome, Cattaraugus, Clinton, Dutchess, Erie, Kings, Lewis, Madison, Monroe, Nassau, New York, Onondaga, Orleans, Otsego, Putnam, Queens, Rensselaer, Richmond, Rockland, Suffolk, Westchester, Yates  |
| January 3         | Activity reported in 17 counties: Bronx, Chemung, Chenango, Delaware, Erie, Kings, Monroe, Nassau, New York, Onondaga, Ontario, Queens, Richmond, Rockland, Seneca, Suffolk, Westchester  |
| December 27, 2008 | Activity reported in 18 counties: Allegany, Bronx, Broome, Columbia, Kings, Madison, Monroe, Nassau, New York, Oneida, Onondaga, Ontario, Otsego, Queens, Richmond, Rockland, Suffolk, Westchester  |
| December 20       | Activity reported in 14 counties: Bronx, Broome, Dutchess, Erie, Kings, Nassau, New York, Niagara, Onondaga, Queens, Rensselaer, Rockland, Suffolk, Westchester   |
| December 13       | Activity reported in 9 counties: Kings, Nassau, New York, Oneida, Onondaga, Queens, Rockland, Suffolk, Westchester  |
| December 6        | Activity reported in 12 counties: Bronx, Broome, Chenango, Monroe, Nassau, New York, Onondaga, Queens, Richmond, Rockland, Suffolk, Westchester   |
| November 29       | Activity reported in 12 counties: Bronx, Chenango, Columbia, Erie, Kings, Nassau, New York, Onondaga, Queens, Rockland, Suffolk, Westchester  |

| Week Ending | County of Location   |
|-------------|--|
| November 22 | Activity reported in 8 counties:<br>Allegany, Chenango, Kings, Nassau, New York, Oneida, Rockland, Suffolk |
| November 15 | Activity reported in 8 counties:<br>Allegany, Bronx, Kings, Livingston, New York, Oneida, Queens, Suffolk  |
| November 8  | Activity reported in 3 counties:<br>Bronx, New York, Suffolk   |
| November 1  | Activity reported in 6 counties:<br>Broome, Nassau, Oneida, Rensselaer, Rockland, Suffolk                  |
| October 25  | Activity reported in 3 counties:<br>Bronx, Nassau, Suffolk   |
| October 18  | No laboratory-confirmed activity reported  |
| October 11  | Activity reported in 4 counties:<br>Bronx, Kings, New York, Suffolk  |
| October 4   | Activity reported in 2 counties:<br>Bronx, New York  |

### 4. Sentinel provider reports:

For the week ending April 11, 2009, the percent of patient visits for influenza-like illness (ILI) for the entire state was 1.37% (1.27% in NYS outside of NYC, 1.47% in NYC). The Mid-Atlantic regional baseline, as calculated by CDC, is 2.9%. The regional baseline generally correlates with epidemic seasonal influenza activity. The Mid-Atlantic region includes New York State, New York City, New Jersey, and Pennsylvania.



Since October 1, 2008, sentinel providers have submitted 69 respiratory specimens to the NYSDOH Wadsworth Center Virology Laboratory for testing. Of the specimens submitted, 42 (61%) have tested positive for influenza as noted in the table below.

| <b>Date Specimen</b> | County in which   | Positive for |
|----------------------|-------------------|--------------|
| Received by          | Sentinel Provider | Influenza    |
| NYSDOH               | is Located        |              |
| 04/02/2009           | Tompkins          | Influenza B  |
| 04/02/2009           | Tompkins          | Influenza B  |
| 03/31/2009           | Erie              | Influenza B  |
| 03/24/2009           | Onondaga          | Influenza B  |
| 03/25/2009           | Livingston        | Influenza B  |
| 03/18/2009           | Cayuga            | Influenza B  |
| 03/18/2009           | Schoharie         | Influenza A  |
| 03/13/2009           | Erie              | Influenza B  |
| 03/13/2009           | Erie              | Influenza A  |
| 03/12/2009           | St. Lawrence      | Influenza A  |
| 03/06/2009           | Schoharie         | Influenza B  |
| 03/06/2009           | Schoharie         | Influenza B  |
| 03/03/2009           | Clinton           | Influenza B  |
| 03/03/2009           | Essex             | Influenza B  |
| 03/03/2009           | Tompkins          | Influenza B  |
| 03/03/2009           | Tompkins          | Influenza B  |
| 03/03/2009           | Tompkins          | Influenza A  |
| 03/03/2009           | Tompkins          | Influenza A  |
| 03/02/2009           | Niagara           | Influenza A  |
| 02/27/2009           | Hamilton          | Influenza A  |
| 02/26/2009           | Essex             | Influenza A  |
| 02/24/2009           | Clinton           | Influenza B  |
| 02/24/2009           | Tompkins          | Influenza B  |
| 02/24/2009           | Tompkins          | Influenza A  |
| 02/20/2009           | Cortland          | Influenza A  |
| 02/20/2009           | Cortland          | Influenza A  |
| 02/19/2009           | Clinton           | Influenza B  |
| 02/19/2009           | Clinton           | Influenza A  |
| 02/19/2009           | Niagara           | Influenza A  |
| 02/19/2009           | St. Lawrence      | Influenza A  |
| 02/13/2009           | Cortland          | Influenza B  |
| 02/12/2009           | Madison           | Influenza A  |
| 02/11/2009           | Westchester       | Influenza A  |
| 02/10/2009           | Hamilton          | Influenza B  |
| 02/03/2009           | Cortland          | Influenza B  |
| 01/30/2009           | Erie              | Influenza B  |
| 01/29/2009           | Albany            | Influenza A  |
| 01/28/2009           | Erie              | Influenza A  |
| 01/28/2009           | Delaware          | Influenza A  |
| 01/28/2009           | Delaware          | Influenza A  |
| 01/28/2009           | Albany            | Influenza A  |
| 01/23/2009           | Essex             | Influenza A  |

# Influenza Testing Results, New York State W.H.O.<sup>3</sup> and NREVSS<sup>4</sup> Laboratories, Week Ending April 11, 2009

| Reporting Site      | Total # Specimens Tested | Total #<br>Positive | Influenza A, not subtyped | Influenza A,<br>subtype<br>H3N2 | Influenza A, subtype H1 | Influenza B |
|---------------------|--------------------------|---------------------|---------------------------|---------------------------------|-------------------------|-------------|
| Albany              |                          |                     |                           |                                 |                         |             |
| Buffalo – Lab A     | 63                       | 2                   | 1                         | 0                               | 0                       | 1           |
| Buffalo – Lab B     | 10                       | 0                   | 0                         | 0                               | 0                       | 0           |
| Rochester – Lab A   |                          |                     |                           |                                 |                         |             |
| Rochester – Lab B   |                          |                     |                           |                                 |                         |             |
| Westchester         | 57                       | 2                   | 0                         | 0                               | 0                       | 2           |
| Bronx               | 75                       | 3                   | 1                         | 0                               | 0                       | 2           |
| Brooklyn – Lab A    |                          |                     |                           |                                 |                         |             |
| Brooklyn - Lab B    |                          |                     |                           |                                 |                         |             |
| Manhattan - Lab A   | 119                      | 4                   | 2                         | 0                               | 0                       | 2           |
| Manhattan - Lab B   | 40                       | 2                   | 1                         | 0                               | 0                       | 1           |
| Long Island - Lab A | 19                       | 0                   | 0                         | 0                               | 0                       | 0           |
| Long Island - Lab B |                          |                     |                           |                                 |                         |             |
| TOTALS              | 383                      | 13                  | 5                         | 0                               | 0                       | 8           |

Blank cells = no report received

Data is preliminary and may change as more reports are received

# Week Ending April 4, 2009

| Reporting Site      | Total # Specimens Tested | Total #<br>Positive | Influenza A, not subtyped | Influenza A,<br>subtype<br>H3N2 | Influenza A,<br>subtype H1 | Influenza B |
|---------------------|--------------------------|---------------------|---------------------------|---------------------------------|----------------------------|-------------|
| Albany              | 1                        | 0                   | 0                         | 0                               | 0                          | 0           |
| Buffalo – Lab A     | 61                       | 3                   | 1                         | 0                               | 0                          | 2           |
| Buffalo – Lab B     | 29                       | 2                   | 1                         | 0                               | 0                          | 1           |
| Rochester – Lab A   | 138                      | 25                  | 18                        | 0                               | 0                          | 7           |
| Rochester – Lab B   | 30                       | 6                   | 3                         | 0                               | 0                          | 3           |
| Westchester         | 45                       | 5                   | 2                         | 0                               | 0                          | 3           |
| Bronx               | 102                      | 6                   | 0                         | 0                               | 0                          | 6           |
| Brooklyn – Lab A    | 13                       | 0                   | 0                         | 0                               | 0                          | 0           |
| Brooklyn - Lab B    | 10                       | 0                   | 0                         | 0                               | 0                          | 0           |
| Manhattan - Lab A   | 124                      | 4                   | 2                         | 0                               | 0                          | 2           |
| Manhattan - Lab B   | 56                       | 0                   | 0                         | 0                               | 0                          | 0           |
| Long Island - Lab A | 26                       | 0                   | 0                         | 0                               | 0                          | 0           |
| Long Island - Lab B |                          |                     |                           |                                 |                            |             |
| TOTALS              | 635                      | 51                  | 27                        | 0                               | 0                          | 24          |

Blank cells = no report received

Data is preliminary and may change as more reports are received

<sup>3</sup> World Health Organization collaborating laboratory for influenza virus surveillance

<sup>&</sup>lt;sup>4</sup> National Respiratory and Enteric Virus Surveillance System collaborating laboratory

Week Ending March 28, 2009

| Reporting Site      | Total # Specimens Tested | Total<br>Positive | Influenza A, not subtyped | Influenza A,<br>subtype<br>H3N2 | Influenza A, subtype H1 | Influenza B |
|---------------------|--------------------------|-------------------|---------------------------|---------------------------------|-------------------------|-------------|
| Albany              | 2                        | 2                 | 0                         | 0                               | 0                       | 2           |
| Buffalo – Lab A     | 61                       | 5                 | 5                         | 0                               | 0                       | 0           |
| Buffalo – Lab B     | 19                       | 3                 | 3                         | 0                               | 0                       | 0           |
| Rochester – Lab A   | 61                       | 5                 | 5                         | 0                               | 0                       | 0           |
| Rochester – Lab B   | 47                       | 7                 | 4                         | 0                               | 0                       | 3           |
| Westchester         | 63                       | 11                | 3                         | 0                               | 0                       | 8           |
| Bronx               | 108                      | 6                 | 0                         | 0                               | 0                       | 6           |
| Brooklyn – Lab A    | 11                       | 1                 | 0                         | 0                               | 0                       | 1           |
| Brooklyn - Lab B    | 9                        | 0                 | 0                         | 0                               | 0                       | 0           |
| Manhattan - Lab A   | 138                      | 2                 | 2                         | 0                               | 0                       | 0           |
| Manhattan - Lab B   | 55                       | 6                 | 0                         | 0                               | 0                       | 6           |
| Long Island - Lab A |                          |                   |                           |                                 |                         |             |
| Long Island - Lab B |                          |                   |                           |                                 |                         |             |
| TOTALS              | 574                      | 48                | 22                        | 0                               | 0                       | 26          |

Blank cells = no report received
Data is preliminary and may change as more reports are received

# LABORATORY-CONFIRMED INFLUENZA, ALL REPORT SOURCES, BY COUNTY, AS OF THE WEEK ENDING April 18, 2009

| COUNTY/REGION           | Activity  | COUNTY/REGION | Activity       |  |  |
|-------------------------|-----------|---------------|----------------|--|--|
| Capital District Region |           | Western I     | Western Region |  |  |
| Albany                  | Current   | Allegany      | Previous       |  |  |
| Clinton                 | Previous  | Cattaraugus   | Previous       |  |  |
| Columbia                | Current   | Chautauqua    | Current        |  |  |
| Delaware                | Previous  | Chemung       | Current        |  |  |
| Essex                   | Previous  | Erie          | Current        |  |  |
| Franklin                | Previous  | Genesee       | Previous       |  |  |
| Fulton                  | Current   | Livingston    | Current        |  |  |
| Greene                  | Previous  | Monroe        | Current        |  |  |
| Hamilton                | Previous  | Niagara       | Current        |  |  |
| Montgomery              | Current   | Ontario       | Current        |  |  |
| Otsego                  | Previous  | Orleans       | Previous       |  |  |
| Rensselaer              | Previous  | Schuyler      | Current        |  |  |
| Saratoga                | Current   | Seneca        | Previous       |  |  |
| Schenectady             | Previous  | Steuben       | Current        |  |  |
| Schoharie               | Previous  | Wayne         | Current        |  |  |
| Warren                  | Current   | Wyoming       | Previous       |  |  |
| Washington              | Previous  | Yates         | Previous       |  |  |
| Syracu                  | se Region | MARO – Nev    | v Rochelle     |  |  |
| Broome                  | Current   | Dutchess      | Current        |  |  |
| Cayuga                  | Previous  | Nassau        | Current        |  |  |
| Chenango                | Current   | Orange        | Current        |  |  |
| Cortland                | Current   | Putnam        | Previous       |  |  |
| Herkimer                | Previous  | Rockland      | Current        |  |  |
| Jefferson               | Previous  | Suffolk       | Current        |  |  |
| Lewis                   | Previous  | Sullivan      | Previous       |  |  |
| Madison                 | Previous  | Ulster        | Previous       |  |  |
| Oneida                  | Current   | Westchester   | Current        |  |  |
| Onondaga                | Current   | MARO – New    | York City      |  |  |
| Oswego                  | Current   | Bronx         | Current        |  |  |
| St. Lawrence            | Current   | Kings         | Current        |  |  |
| Tioga                   | Current   | New York      | Current        |  |  |
| Tompkins                | Current   | Queens        | Current        |  |  |
|                         |           | Richmond      | Current        |  |  |

#### LEGEND:

Current = one or more laboratory-confirmed influenza cases reported during the current report week.

Previous = one or more laboratory-confirmed influenza cases reported on or after 9/28/08 but prior to the current report week.

No Report = no laboratory-confirmed influenza cases reported so far this season.

**NOTE:** This report is available on NYSDOH's Influenza website at http://www.health.state.ny.us/diseases/communicable/influenza/surveillance.htm.

CDC's nationwide influenza surveillance report is available at http://www.cdc.gov/flu/weekly/fluactivity.htm

#### **Antiviral Resistance Testing**

During the 2007-08 influenza season, a significant increase in the prevalence of resistance to the influenza antiviral medication oseltamivir (Tamiflu) was reported among influenza A (H1N1) viruses worldwide. In the United States, the Centers for Disease Control and Prevention (CDC) found oseltamivir resistance in 10.9% of influenza A (H1N1) viruses tested.

From October 1, 2008 through April 11, 2009, CDC has tested 748 influenza A (H1N1), 112 influenza A (H3N2), and 301 influenza B specimens from 44 states for resistance to the neuraminidase inhibitors (oseltamivir and zanamivir). CDC has tested 729 influenza A (H1N1) specimens and 108 influenza A (H3N2) specimens for resistance to the adamantanes (amantadine and rimantadine). Influenza B specimens were not tested for resistance to the adamantanes (amantadine and rimantadine) because adamantanes are not effective against influenza B viruses. The results of antiviral resistance testing performed by CDC are summarized in the table below.

**CDC** Antiviral Resistance Testing

|                    | Specimens<br>Tested | Resistant Viruses  Detected |   | Specimens<br>Tested | Resistant<br>Viruses<br>Detected |
|--------------------|---------------------|-----------------------------|---|---------------------|----------------------------------|
|                    |                     | Oseltamivir Zanamivir       |   |                     | Adamantanes                      |
| Influenza A (H1N1) | 748                 | 743                         | 0 | 729                 | 3                                |
| Influenza A (H3N2) | 112                 | 0                           | 0 | 108                 | 108                              |
| Influenza B        | 301                 | 0                           | 0 | N/A*                | N/A*                             |

<sup>\*</sup> The adamantanes (amantadine and rimantadine) are not effective against influenza B viruses.

From September 16, 2008 through March 12, 2009, the New York State Department of Health (NYSDOH) Wadsworth Center has tested influenza specimens from 295 patients for resistance to antiviral medications. Two hundred sixteen were influenza A (H1N1), 49 were influenza A (H3N2), and 30 were influenza B. The specimens were submitted from laboratories located in the regions listed in the tables below. The results of antiviral resistance testing performed by Wadsworth Center are summarized in the tables below.

NYSDOH Influenza A (H1N1) Antiviral Resistance Testing

|                                    | Patient<br>Specimens<br>Tested** | Resistant Viruses Detected         |           |             |  |  |
|------------------------------------|----------------------------------|------------------------------------|-----------|-------------|--|--|
| New York State<br>Region           |                                  | Oseltamivir                        | Zanamivir | Adamantanes |  |  |
| New York City                      | 34                               | 34                                 | pending   | 0           |  |  |
| Metropolitan Area (other than NYC) | 75                               | 75                                 | pending   | 0           |  |  |
| Capital District                   | 24                               | 24                                 | pending   | 0           |  |  |
| Central New York                   | 68                               | 62<br>(5 pending)<br>(1 sensitive) | pending   | 0           |  |  |
| Western New York                   | 15                               | 11<br>(4 pending)                  | pending   | 0           |  |  |

<sup>\*\*</sup> For patients with more than one specimen, only one result is reported.

NYSDOH Influenza A (H3N2) Antiviral Resistance Testing

|                                    | Patient<br>Specimens<br>Tested** | Resistant Viruses Detected |           |                  |  |  |  |  |
|------------------------------------|----------------------------------|----------------------------|-----------|------------------|--|--|--|--|
| New York State<br>Region           |                                  | Oseltamivir                | Zanamivir | Adamantanes      |  |  |  |  |
| New York City                      | 2                                | 0                          | pending   | 2                |  |  |  |  |
| Metropolitan Area (other than NYC) | 25                               | Pending                    | pending   | 25               |  |  |  |  |
| Capital District                   | 9                                | Pending                    | pending   | 7<br>(2 pending) |  |  |  |  |
| Central New York                   | 12                               | Pending                    | pending   | 12               |  |  |  |  |
| Western New York                   | 1                                | Pending                    | pending   | 1                |  |  |  |  |

<sup>\*\*</sup> For patients with more than one specimen, only one result is reported.

**NYSDOH Influenza B Antiviral Resistance Testing** 

|                                    | Patient<br>Specimens<br>Tested** | Resistant Viruses Detected |           |  |  |  |  |
|------------------------------------|----------------------------------|----------------------------|-----------|--|--|--|--|
| New York State<br>Region           |                                  | Oseltamivir                | Zanamivir |  |  |  |  |
| New York City                      | 0                                |                            |           |  |  |  |  |
| Metropolitan Area (other than NYC) | 3                                | pending                    | pending   |  |  |  |  |
| Capital District                   | 10                               | pending                    | pending   |  |  |  |  |
| Central New York                   | 16                               | pending                    | pending   |  |  |  |  |
| Western New York                   | 1                                | pending                    | pending   |  |  |  |  |

<sup>\*\*</sup> For patients with more than one specimen, only one result is reported.

NOTE: Specimens tested by Wadsworth Center for antiviral resistance do not necessarily reflect the proportion of influenza types/subtypes currently in circulation.

## **APPENDIX**

# INFLUENZA TESTING RESULTS,

# NEW YORK STATE W.H.O. AND NREVSS LABORATORIES, INFLUENZA SEASON 2008-09 (# positive for influenza / # specimens tested )

| Week Ending    | Albany | Buffalo Lab A | Buffalo Lab B | Rochester Lab A | Rochester Lab B | Westchester | Bronx  | Brooklyn Lab A | Brooklyn Lab B | Manhattan Lab A | Manhattan Lab B | L.I. Lab A | L. I. Lab B | Total    | Percent Positive |
|----------------|--------|---------------|---------------|-----------------|-----------------|-------------|--------|----------------|----------------|-----------------|-----------------|------------|-------------|----------|------------------|
| Oct 4<br>2008  | 0/8    | 0/34          | 0/3           | 0/27            | 0/0             | 0/29        | 0/37   | 0/6            | 0/2            | 0/80            | 0/27            |            | 0/206       | 0/459    | 0                |
| Oct 11         | 0/1    | 0/34          | 0/3           | 0/45            | 0/0             | 0/22        | 0/26   | 0/13           | 0/7            | 0/78            | 0/29            |            | 0/111       | 0/369    | 0                |
| Oct 18         | 0/3    | 0/30          | 0/8           | 0/37            | 0/10            | 0/21        | 0/24   | 0/6            | 0/5            | 0/99            | 0/25            |            | 0/140       | 0/408    | 0                |
| Oct 25         | 0/4    | 0/35          | 0/10          | 0/53            | 0/15            | 0/27        | 0/32   | 0/5            | 0/5            | 0/102           | 0/38            |            | 1/134       | 1/460    | 0.22             |
| Nov 1          | 0/7    | 0/38          | 0/2           | 0/37            | 0/10            | 0/47        | 0/32   | 0/5            | 0/9            | 1/94            | 0/39            | 0/16       | 0/151       | 1/487    | 0.21             |
| Nov 8          | 0/5    | 0/39          | 0/5           | 0/70            | 0/20            | 0/38        | 0/48   | 0/6            | 0/7            | 0/131           | 0/35            | 0/27       | 0/201       | 0/632    | 0                |
| Nov 15         | 0/8    | 0/38          | 0/2           | 0/67            | 0/11            | 0/34        | 0/34   | 0/11           | 0/10           | 0/114           | 0/22            | 0/24       | 1/165       | 1/540    | 0.19             |
| Nov 22         | 0/8    | 0/37          | 0/4           | 0/87            | 0/16            | 0/46        | 0/44   | 0/9            | 0/15           | 0/110           | 0/38            | 0/13       | 0/183       | 0/610    | 0                |
| Nov 29         | 1/3    | 0/30          | 0/8           | 0/72            | 0/12            | 0/46        | 0/81   | 0/9            | 0/13           | 0/126           | 0/43            | 0/29       | 2/207       | 3/679    | 0.44             |
| Dec 6          | 0/12   | 0/25          | 0/10          | 1/91            | 0/17            | 0/47        | 0/85   | 0/12           | 0/8            | 1/122           | 0/43            | 0/21       | 1/256       | 3/749    | 0.40             |
| Dec 13         | 0/6    | 0/40          | 0/19          | 0/110           | 0/12            | 0/56        | 0/96   | 0/20           | 0/8            | 0/149           | 1/50            | 0/19       | 5/302       | 6/887    | 0.68             |
| Dec 20         | 0/10   | 0/57          | 0/3           | 0/112           | 0/15            | 1/72        | 1/93   | 0/14           | 0/7            | 2/142           | 1/83            | 0/24       | 7/360       | 12/992   | 1.21             |
| Dec 27         | 0/4    | 0/46          | 0/10          | 0/112           | 0/13            | 0/53        | 1/89   | 0/9            | 0/12           | 0/136           | 2/94            | 0/2:       | 14/318      | 17/886   | 1.92             |
| Jan 3,<br>2009 | 0/1    | 0/66          | 0/14          | 4/134           | 0/19            | 0/45        | 3/98   | 0.7            | 0/14           | 5/157           | 1/68            | 0/19       | 15/408      | 28/1043  | 2.68             |
| Jan 10         | 0/2    | 0/62          | 0/9           | 5/115           | 0/43            | 3/91        | 0/96   | 0/14           | 0/13           | 3/133           | 4/95            | 0/22       | 34/440      | 49/1135  | 4.32             |
| Jan 17         | 0/3    | 2/74          | 0/8           | 4/98            | 0/63            | 6/75        | 8/96   | 0/14           | 2/8            | 5/127           | 8/68            | 1/17       | 41/374      | 77/1025  | 7.51             |
| Jan 24         | 3/3    | 2/113         | 1/12          | 3/125           | 1/74            | 10/101      | 7/80   | 0/13           | 1/16           | 4/168           | 4/47            | 0/27       | 54/447      | 90/1226  | 7.34             |
| Jan 31         | 10/12  | 4/102         | 0/17          | 9/116           | 0/62            | 11/114      | 6/87   | 0/13           | 2/15           | 16/208          | 8/83            | 6/20       | 84/447      | 156/1296 | 12.04            |
| Feb 7          | 8/12   | 0/69          | 1/47          | 22/166          | 5/71            | 26/154      | 4/97   | 0/13           | 2/16           | 14/194          | 13/79           | 3/15       | 130/682     | 228/1615 | 14.12            |
| Feb 14         | 6/14   | 0/96          | 0/17          | 39/192          | 10/66           | 34/150      | 14/164 | 0/11           | 0/14           | 14/194          | 12/83           | 1/31       | 0/609       | 130/1641 | 7.92             |
| Feb 21         | 18/20  | 0/77          | 0/17          | 35/187          | 6/49            | 23/141      | 6/123  | 0/12           | 0/8            | 17/178          | 14/91           | 1/28       | 0. 222      | 120/931  | 12.89            |
| Feb 28         | 13/14  | 1/77          | 2/13          | 29/176          | 7/40            | 25/137      | 9/147  | 0/13           | 0/4            | 17/178          | 13/103          | 1/18       |             | 117/920  | 12.72            |
| Mar 7          | 9/10   | 3/59          | 1/25          | 41/164          | 12/67           | 20/107      | 8/116  |                | 0/6            | 5/160           | 5/86            | 2/23       |             | 106/823  | 12.88            |
| Mar 14         | 8/11   | 5/78          |               | 40/146          | 13/52           | 14/90       | 11/101 | 2/11           | 0/12           | 5/151           | 1/51            |            |             | 99/703   | 14.08            |
| Mar 21         | 3/8    | 7/67          | 6/19          | 35/161          | 11/43           | 20/73       | 7/96   | 0/11           | 0/16           | 5/128           | 4/64            |            |             | 97/686   | 14.14            |
| Mar 28         | 2/2    | 5/61          | 3/19          | 5/61            | 7/47            | 11/63       | 6/108  | 1/11           | 0/9            | 2/138           | 6/55            |            |             | 48/574   | 8.36             |
| Apr 4          | 0/1    | 3/61          | 2/29          | 25/138          | 6/30            | 5/45        | 6/102  | 0/13           | 0/10           | 4/124           | 0/56            | 0/26       |             | 51/635   | 8.03             |
| Apr 11         |        | 2/63          | 0/10          |                 |                 | 2/57        | 3/75   |                |                | 4/119           | 2/40            | 0/19       |             | 13/383   | 3.39             |
| Apr 18         |        |               |               |                 |                 |             |        |                |                |                 |                 |            |             |          |                  |
| Apr 25         |        |               |               |                 |                 |             |        |                |                |                 |                 |            |             |          |                  |
| May 2          |        |               |               |                 |                 |             |        |                |                |                 |                 |            |             |          |                  |
| May 9          |        |               |               |                 |                 |             |        |                |                |                 |                 |            |             |          |                  |
| May 16         |        |               |               |                 |                 |             |        |                |                |                 |                 |            |             |          |                  |
| May 23         |        |               |               |                 |                 |             |        |                |                |                 |                 |            |             |          |                  |

Blank cells = no report received

Data is preliminary and will change as more reports are received