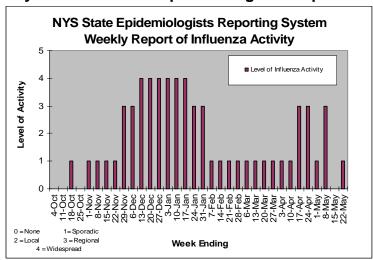
Statewide Summary 2003-2004 Influenza Season

New York State Department of Health Bureau of Communicable Disease Control Regional Epidemiology and Infection Control Program

1. Weekly New York State Epidemiologist's Report To CDC:



Definition of Influenza Activity Levels:

Activity Level	ILI ¹ activity/Outbreaks		Laboratory data						
0 - No activity	Low	And	No lab-confirmed ² cases						
•	Not increased	And	Isolated lab-confirmed cases						
1 - Sporadic	Or								
	Not increased	And	Lab-confirmed outbreak in one institution ³						
	Increased ILI in one region; ILI		Recent (within the past 3 weeks) lab evidence of						
	activity in other regions is not	And	influenza in region with increased ILI						
	increased								
2 - Local		Or							
2 - Locai	2 or more institutional outbreaks (ILI		Recent (within the past 3 weeks) lab evidence of						
	or lab- confirmed) in one region; ILI	And	influenza in region with the outbreaks; virus						
	activity in other regions is not	11114	activity is no greater than sporadic in other regions						
	increased								
	Increased ILI in ≥ two but less than	And	Recent (within the past 3 weeks) lab confirmed						
	half of the regions		influenza in the affected regions						
3 - Regional		Or							
3 - Regionar	Institutional outbreaks (ILI or lab		Recent (within the past 3 weeks) lab confirmed						
	confirmed) in \geq two and less than	And	influenza in the affected regions						
	half of the regions								
	Increased ILI and/or institutional		Recent (within the past 3 weeks) lab confirmed						
4 - Widespread	outbreaks (ILI or lab confirmed) in at	And	influenza in the state.						
	least half of the regions								

Nationwide summary of the 2003-2004 influenza season : http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5325a1.htm.

 $^{^{1}}$ ILI = influenza-like illness, defined as temperature $\geq 100^{\circ}$ F with cough or sore throat in the absence of a known cause

² Lab-confirmed = positive rapid antigen test or culture

³ Institution includes nursing home, hospital, prison, school, etc.

2. Nosocomial Influenza Reporting:

Nosocomial Influenza Reports⁴ Received by NYSDOH, by Week of Report, 2003-2004 Influenza Season

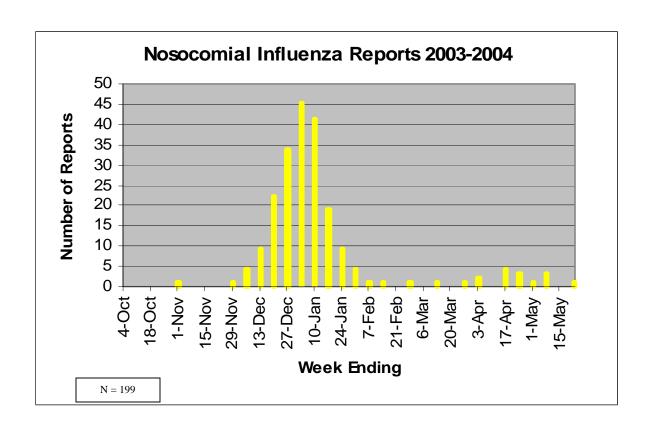
NYSDOH received reports of laboratory-confirmed nosocomial influenza activity as noted in the table below. Influenza type A was responsible for activity prior to late February. After February 21, the influenza type responsible for each report is indicated in parentheses.

Week Ending	Count of Nosocomial Reports Received	County of Location					
May 22, 2004	none						
May 15	none						
May 8	3	New York (B), Sullivan (2 reports; flu type not tested for)					
May 1	1	New York (B)					
April 24	3	Bronx (A & B), Dutchess (A), Orange (A)					
April 17	4	Queens, Suffolk, Westchester (2) (all B)					
April 10	none						
April 3	2	New York, Westchester (both B)					
March 27	1	Westchester (B)					
March 20	none	. ,					
March 13	1	Richmond (B)					
March 6	none	. ,					
February 28	1	Queens (B)					
February 21	none						
February 14	1	Monroe					
February 7	1	Richmond					
January 31	4	Cattaraugus, Erie, Kings, Rockland					
January 24	9	Bronx, Dutchess (2), Erie (3), Kings, Nassau, Rensselaer					
January 17	18	Albany, Bronx, Broome, Delaware (2), Erie (2), Fulton, Kings, Nassau, New York (2), Oneida, Onondaga, Steuben, Suffolk (2), Westchester					
January 10	39	Allegany, Bronx, Broome (2), Cattaraugus, Chautauqua, Chenango (2), Cortland, Dutchess, Erie (4),Fulton, Livingston, Monroe (2), Nassau (2), New York, Oneida (2), Onondaga (2), Queens, Rensselaer, Saratoga, Seneca, Schenectady, St. Lawrence, Steuben, Sullivan, Ulster (2), Warren, Washington, Westchester (2)					
January 3	43	Albany, Chautauqua (2), Chemung, Erie (6), Jefferson, Kings (2), Monroe (5), Nassau (2), New York (2), Oneida, Onondaga (2), Orange (2), Queens (4), Rensselaer, Richmond, Saratoga (2), Schoharie, Seneca, Suffolk (3), Wayne, Westchester (2)					
December 27, 2003	32	Albany (2), Bronx, Broome (3), Chemung, Chenango, Erie (2), Herkimer, Kings, Lewis, Monroe (2), Nassau, New York, Oneida, Onondaga (3), Orange, Queens, St. Lawrence, Steuben, Suffolk (3), Ulster, Washington, Wayne (2)					

⁴ facilities reporting one or more laboratory-confirmed nosocomial influenza cases

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December 20	21	Broome, Erie (3), Essex, Kings, Monroe (2), Montgomery (2), New York (2), Onondaga (2), Ontario, Orange, Richmond, Schenectady (2), Suffolk, Warren					
December 13	9	Bronx, Monroe (2), New York, Richmond, Rockland, St. Lawrence, Suffolk, Westchester					
December 6	4	Bronx, Steuben, Suffolk, Wyoming					
November 29	1	Monroe					
November 22	none						
November 15	none						
November 8	none						
November 1	1	Warren					
Oct 4 - October 25	none						
Total	199	(5 hospitals and 194 long-term care facilities)					



Nosocomial Influenza Reports⁵ Received by NYSDOH, by County, 2003-2004 Influenza Season

County/Region	Reports Received
Capital District	
Region	
Albany	4
Clinton	0
Columbia	0
Delaware	2
Essex	1
Franklin	0
Fulton	2
Greene	0
Hamilton	0
Montgomery	2
Otsego	0
Rensselaer	3
Saratoga	3
Schenectady	3
Schoharie	1
Warren	3
Washington	2
Region Total Nosocomial	26

County/Region	Reports Received					
Western Region						
Allegany	1					
Cattaraugus	2					
Chautauqua	3					
Chemung	2					
Erie	21					
Genesee	0					
Livingston	1					
Monroe	15					
Niagara	0					
Ontario	1					
Orleans	0					
Schuyler	0					
Seneca	2					
Steuben	4					
Wayne	3					
Wyoming	1					
Yates	0					
Region Total Nosocomial	56					

Syracuse Region	
Broome	7
Cayuga	0
Chenango	3
Cortland	1
Herkimer	1
Jefferson	1
Lewis	1
Madison	0
Oneida	5
Onondaga	10
Oswego	0
St. Lawrence	3
Tioga	0
Tompkins	0
Region Total Nosocomial	32

MARO – excluding New York City	
Dutchess	4
Nassau	7
Orange	5
Putnam	0
Rockland	2
Suffolk	12
Sullivan	3
Ulster	3
Westchester	10
Region Total Nosocomial	46

MARO - New York	
<u>City</u>	
Bronx	7
Kings	7
New York	12
Queens	8
Richmond	5
Region Total Nosocomial	39

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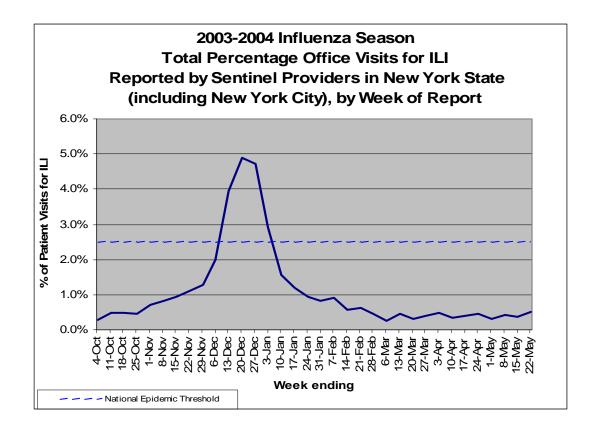
⁵ facilities reporting one or more laboratory-confirmed nosocomial influenza cases

3. Sentinel Physician Surveillance:

Fifty-four (73%) of 74 New York State and New York City sentinel physicians for influenza surveillance submitted 186 respiratory specimens to the NYSDOH Wadsworth Center for testing. Of those, 82 (44%) tested positive for influenza as noted in the table below. All specimens were influenza A(H3N2). Numbers in parentheses refer to number of specimens submitted.

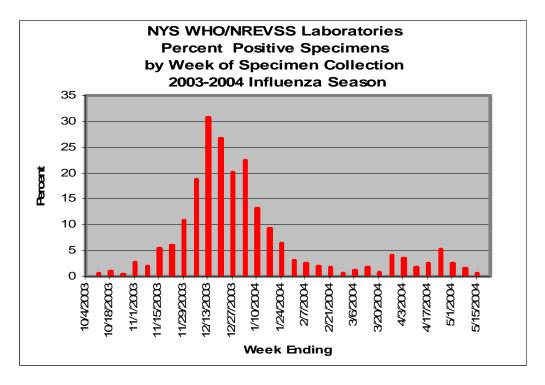
Date Specimen	County in which						
Received by	Sentinel Provider						
NYSDOH	is Located						
02/09/04	Westchester						
01/08/04	Niagara (3)						
01/08/04	Tompkins						
01/06/04	Rensselaer						
01/05/04	Niagara						
01/02/04	Westchester						
12/30/03	Oneida (3)						
12/24/03	Rockland						
12/24/03	Westchester						
12/23/03	Oneida (2)						
12/22/03	Cattaraugus						
12/22/03	Yates						
12/19/03	Dutchess						
12/19/03	Herkimer (2)						
12/19/03	Kings						
12/19/03	Saratoga						
12/18/03	Clinton						
12/18/03	Dutchess						
12/18/03	Oneida						
12/18/03	Rensselaer						
12/17/03	Nassau						
12/16/03	Putnam						
12/15/03	Allegany						
12/15/03	Tompkins						
12/12/03	Cattaraugus (2)						
12/12/03	Chautauqua						
12/12/03	Otsego						
12/12/03	Richmond						
12/12/03	Westchester (2)						
12/11/03	Cortland (2)						
12/11/03	Delaware						
12/11/03	Essex (2)						
12/10/03	Allegany (2)						
12/10/03	St. Lawrence (2)						
12/9/03	Essex (3)						
12/9/03	Ontario (3)						
12/9/03	Saratoga (2)						
12/8/03	Chautauqua						
12/5/03	Columbia						
12/5/03	Cortland						
12/5/03	Madison						
12/5/03	Ontario						

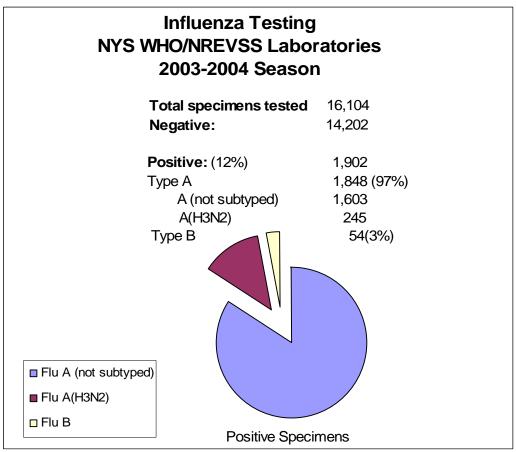
12/5/03	Tompkins (2)
12/4/03	Erie (2)
12/4/03	Rensselaer
12/4/03	Richmond
12/3/03	Essex
12/3/03	Tompkins (2)
12/2/03	Broome
12/2/03	Queens
12/2/03	Tompkins
12/1/03	Saratoga (2)
11/20/03	Queens
11/14/03	Erie
11/14/03	Madison
11/14/03	Schoharie
11/6/03	Kings
11/6/03	Richmond
10/30/03	Kings (2)
10/29/03	Tompkins



Additional information regarding the New York State Sentinel Physician Influenza Surveillance Program is available at: http://www.health.state.ny.us/nysdoh/flu/recruit.htm

4. WHO⁶ / NREVSS⁷ Laboratory Reporting:





⁶ World Health Organization collaborating laboratory for influenza virus surveillance

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⁷ National Respiratory and Enteric Virus Surveillance System collaborating laboratory

Strain Characterization of Influenza Viruses in New York State, 2003-2004 Influenza Season

Nationally, of 949 influenza A(H3N2) virus isolates that were characterized by CDC, 11.2% were similar antigenically to the vaccine strain A/Panama/2007/99 (H3N2), and 88.8% were similar to the drift variant, A/Fujian/411/2002 (H3N2). New York State WHO laboratories located in Albany, Buffalo, New Rochelle and New York City submitted 67 influenza A(H3N2) isolates to CDC for strain characterization. Five (7%) were similar to the vaccine strain, A/Panama, and 62 (93%) were similar to the drift variant A/Fujian.

Nationally, of 71 influenza B virus isolates that were characterized by CDC, 7% were similar antigenically to the vaccine strain B/Hong Kong/330/2001, and 93% were similar to B/Sichuan/379/99. New York State WHO laboratories located in Albany and New Rochelle submitted eighteen influenza B virus isolates to CDC for strain characterization. Two (11%) were similar to the vaccine strain, B/Hong Kong, and 16 (89%) were similar to B/Sichuan.

Influenza Vaccine Components

2003-2004	2004-2005
A(H3N2)Moscow/10/99	A(H3N2)Fujian/411/2002
(Panama/2007/99)*	(Wyoming/3/2003)*
A(H1N1)New Caledonia/20/99	A(H1N1)New Caledonia/20/99
B/Hong Kong/330/2001	B/Shanghai/361/2002
(B/Hong Kong/1434/2002)*	(B/Jilin/20/2003)*
	(B/Jiangsu/10/2003)*

^{*}Antigenically-equivalent components used by U.S. vaccine manufacturers

Human Avian Influenza Virus Infection

During the 2003-2004 influenza season, a human case of avian influenza A(H7N2) virus infection was detected in New York State. This strain is **not** the same as the avian flu strain (H5Ni) that has sickened people in southeast Asia. The case was a resident of Westchester County who was hospitalized for upper and lower respiratory tract illness in November 2003. Influenza A(H7N2) virus was isolated from a respiratory specimen from the patient, who recovered from his respiratory illness. Investigation by state and local health department staff was unable to determine a source of infection. No persons in contact with the case became infected with the virus.

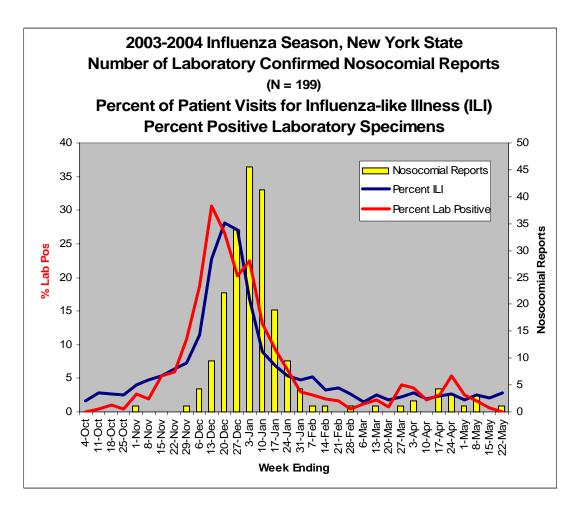
This case represented the second confirmed case of human infection with avian influenza A(H7N2) virus reported in the United States. One previous case was reported by the Virginia Department of Health. The person was involved in culling activities, when an outbreak of H7N2 occurred among turkeys and chickens at commercial farms in Virginia during 2002. In that case, also, no person-to-person transmission of H7N2 virus was evident, and the person made a full recovery from his acute respiratory illness. ¹⁰

⁸ CDC. Update: Influenza Activity --- United States and Worldwide, 2003-04 Season, and Composition of the 2004-05 Influenza Vaccine. MMWR 2004;53:547-552.

⁹ Ibid.

¹⁰ Ibid. 8

5. Comparison Chart* - Three Sources Of Influenza Surveillance:



* % ILI and nosocomial reports have been scaled to % lab positives for comparison purposes only.

NOTE: The influenza reporting season begins the first week in October and ends the third week in May. This report is available on NYSDOH's Influenza website at www.health.state.ny.us/nysdoh/flu/index.htm. CDC's nationwide influenza surveillance report is available at www.cdc.gov/flu/weekly/weeklyarchives2003-2004/03-04summary.htm.

Influenza Testing Results, New York State W.H.O. And Nrevss Laboratories, Influenza Season 2003-04

(# positive for influenza / # specimens tested) as of July 31, 2004

Week Ending	Albany	Buffalo Lab A	Buffalo Lab B	Rochester Lab A	Rochester Lab B	New Rochelle	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, '03	0/13	0/31	0/3	0/27	0/13	0/15	0/5	0/8	0/14	0/37	0/10	0/13	0/27	0/216	0
Oct. 11	0/7	0/28	0/6	0/21	0/11	0/15	0/7	0/5	0/20	1/37	0/13	0/13	0/20	1/203	0.5
Oct. 18	0/9	0/11	0/13	0/29	0/9	0/15	1/8	0/11		1/36	0/10	0/25	0/31	2/207	1.0
Oct. 25	0/3	0/18	0/9	0/34	0/10	0/8	0/7	0/8	0/25	0/43	0/27	0/11	0/48	0/251	0
Nov. 1	0/2	0/24	0/3	0/31	0/10	0/7	0/7	0/11		0/46	0/19	0/10	0/36	0/206	0
Nov. 8	0/14	0/29	0/5	0/26	0/8	0/10	0/4	0/9	0/33	0/54	1/24	0/16	1/31	2/263	08
Nov. 15	0/15	0/49	0/3	0/47	0/3	2/11	0/16	0/8	1/33	4/56	0/12	1/10	2/32	10/295	3.4
Nov. 22	0/11	1/45	0/5	1/53	1/9	0/13	3/27	3/12	1/31	5/76	0/12	0/14	2/48	17/356	4.8
Nov. 29	4/14	0/47	0/6	6/45	0/6	2/20	0/23	1/19	3/38	17/139	1/10	0/15	5/59	39/441	8.8
Dec. 6	0/15	1/61	0/3	17/99	4/36	3/24	5/24	3/18	10/37	21/170	8/36	0/20	10/90	82/633	13.0
Dec. 13	1/10	28/86	1/15	76/217	11/38	4/70	7/40	6/30	8/41	40/184	12/42	0/12	47/134	241/919	26.2
Dec. 20	4/18	22/119	3/13	120/316	23/50	4/83	10/44	9/35	17/63	41/224	17/64	0/29	73/290	343/1348	25.5
Dec. 27	0/6	39/117	19/38	77/329	3/3	11/65	15/62	8/32	12/44	44/243	17/63	0/35	5/236	250/1273	19.6
Jan. 3, '04	6/29	31/141	17/52	116/350	17/34	32/146	19/64	3/19	7/45	46/163	18/73	6/58	15/273	333/1447	23.0
Jan. 10	4/38	30/141	4/31	28/258	6/32	30/140	12/53	4/19	3/26	14/177	8/60	11/48	13/331	167/1354	12.3
Jan. 17	29/56	9/97	2/26	11/136	9/42	9/67	1/38	1/29	0/17	2/118	2/47	4/36	17/161	96/870	11.0
Jan. 24	33/44	3/57	0/23	7/126	1/30	9/39	1/27	0/12	0/23	1/118	1/39	6/36	9/102	71/676	10.5
Jan. 31	43/44	3/84	1/8	3/76	3/24	0/24	0/14	2/21	0/17	1/109	1/24		2/114	59/559	10.6
Feb. 7	26/29	1/69	0/14	5/75	0/37	1/24	0/6	0/8	0/24	2/96	1/43	0/19		36/444	8.1
Feb.14	27/33	1/76	0/13	9/108	0/51	0/22	1/12	0/23	0/18	0/92	2/23	3/26		43/497	8.7
Feb.21	6/11	1/63	0/10	5/95	1/48	0/14	0/4	0/7	0/27	1/61	2/29	0/18		16/387	4.1
Feb. 28	25/36	0/73	0/8	0/92	0/34	0/12	0/7	0/7	1/31	1/91	0/23	0/25		27/439	6.2
Mar. 6	4/9	1/65	0/10	0/69	1/52	0/8	0/7		0/28	0/65	1/12	1/24		8/349	2.3
Mar. 13	2/12	0/56	0/5	1/72	0/20	0/13	0/13	1/14	2/25	1/74	0/21	1/14		7/339	2.1
Mar. 20	0/4	1/52	0/3	1/45	0/19	0/12	0/6	0/15	0/29	0/71	0/25	0/19		2/300	0.7
Mar. 27	0/2	0/54	0/8	0/26	0/10	8/15	0/10	0/10	0/28	1/71		0/16		9/250	3.6
Apr. 3	0/2	0/45	0/5	0/49	0/28	4/21	1/5		1/24	2/67		0/12		8/258	3.1
Apr. 10	0/2	0/40	0/6	1/39	0/22	1/7	0/6	1/11	1/18	0/57	0/21	0/16		4/245	1.6
Apr. 17	0/6	0/40	0/2	0/49	0/30	2/17	1/4	2/14	1/22	0/35		0/17		6/236	2.5
Apr. 24	0/4	0/39	0/7	0/33	0/19	8/15	1/10	0/12	0/12	1/41	0/13	0/11		10/216	4.6
May 1	2/4	0/15	0/5	0/19	0/24	0/20	1/8	1/7	1/12	2/44	0/22	0/10		7/190	3.7
May 8	0/6	0/23	0/2	0/26	0/15	1/19	0/2	0/3	1/20	0/53	0/26	0/13		2/208	1.0
May 15	0/8	0/12	0/3	0/30	0/4	0/11	0/5	0/4	0/17	0/46	0/30	0/20		0/190	0.0
May 22	0/3	0/23	0/6		0/7	0/7	0/4	0/2	0/12		0/18	0/16		0/98	0.0