

BUREAU OF COMMUNICABLE DISEASE CONTROL STATEWIDE INFLUENZA SURVEILLANCE REPORT FOR WEEK ENDING February 9, 2013

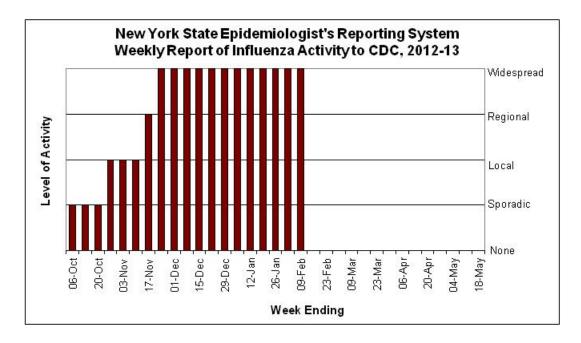
The New York State Department of Health (NYSDOH) collects, compiles, and analyzes information on influenza activity year round in New York State (NYS) and produces this weekly report during the influenza season (October through the following May).¹

During the week ending February 9, 2013:

- Influenza activity level was categorized as widespread.²
- Laboratory-confirmed influenza was reported in **45 counties** plus New York City. There were **1,605** total reports, a **26% decrease** over last week.
- Nine of 16 specimens submitted to the NYSDOH laboratory were positive for influenza. One was **influenza** A (H1) and eight were **influenza** A (H3).
- Reports of percent of patient visits for influenza-like illness (IL1³) from ILINet providers was **3.74%**, which is above the regional baseline of 2.0%.
- The number of patients admitted to the hospital with laboratory-confirmed influenza or hospitalized patients newly diagnosed with laboratory-confirmed influenza was **384**, a **38% decrease** over last week.
- There was one influenza-associated pediatric deaths reported this week. There have been **six** influenza-associated pediatric deaths reported this season.

NYS Epidemiologist's Report to the Centers for Disease Control and Prevention (CDC)

Geographic spread of influenza activity in NYS (including NYC).



¹ Information about influenza monitoring in New York City (NYC) is available from the NYC Department of Health and Mental Hygiene website at:

Sporadic: Small numbers of lab-confirmed cases of influenza reported.

http://www.nyc.gov/html/doh/html/home/home.shtml. National influenza surveillance data is available on CDC's FluView website at http://www.cdc.gov/flu/weekly/. ² No Activity: No laboratory-confirmed cases of influenza reported to the NYSDOH.

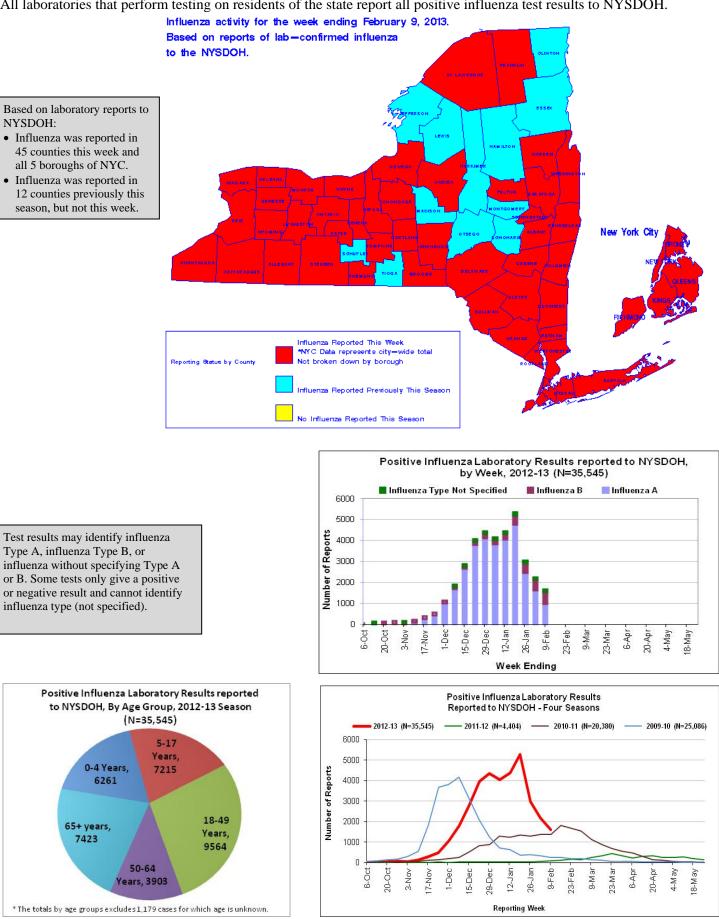
Local: Increased or sustained numbers of lab-confirmed cases of influenza reported in a single region of New York State; sporadic in rest of state.

Regional: Increased or sustained numbers of lab-confirmed cases of influenza reported in at least three regions but in fewer than 31 of 62 counties. **Widespread:** Increased or sustained numbers of lab-confirmed cases of influenza reported in at least 31 of the 62 counties.

³ ILI = influenza-like illness, defined as temperature $\geq 100^{\circ}$ F with cough and/or sore throat in the absence of a known cause other than influenza.

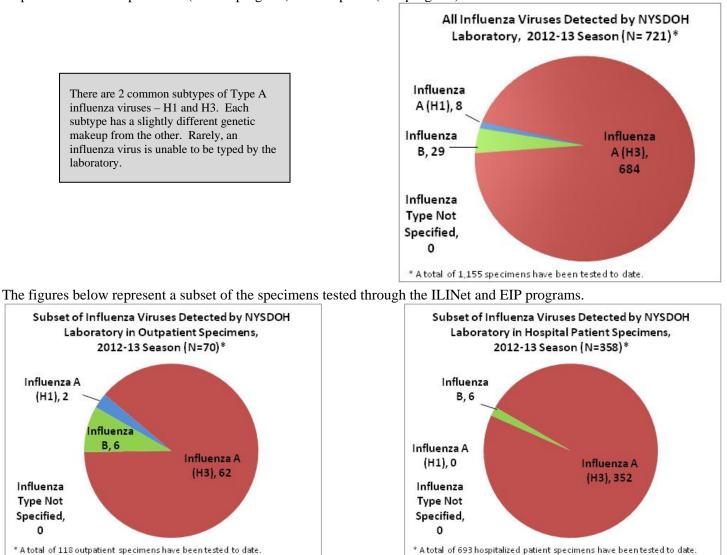
Laboratory Reports of Influenza (including NYC)

All laboratories that perform testing on residents of the state report all positive influenza test results to NYSDOH.



Influenza Virus Types and Subtypes (excluding NYC)

Wadsworth Center, the NYSDOH public health laboratory, tests specimens from sources including, but not limited to, outpatient healthcare providers (ILINet program) and hospitals (EIP program).



Influenza Antiviral Resistance Testing

The Wadsworth Center Virology Laboratory performs surveillance testing for antiviral drug resistance.

		Oseltamivir	Zanamivir					
	Samples tested	Resistant Viruses, Number (%)	Samples tested	Resistant Viruses, Number (%)				
Influenza A (H3N2) ⁱ	127	0 (0.0)	12	0 (0.0)				
Influenza B ⁱⁱ	11	0 (0.0)	11	0 (0.0)				
2009 Influenza A (H1N1) ⁱⁱⁱ	6	0 (0.0)	0	0 (0.0)				

i. All samples tested for oseltamivir resistance by pyrosequencing for E119V, R292K, and N294S in the neuraminidase gene (NA), and a subset tested by NA dideoxy sequencing for other variations known to cause, or suspected of causing, resistance to neuraminidase inhibitor drugs including zanamivir and oseltamivir.

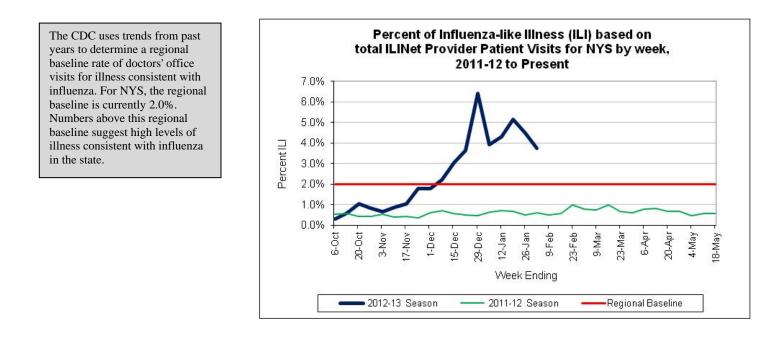
ii. Samples tested by whole gene dideoxysequencing of the neuraminidase gene. Sequence data reviewed for variations known to cause, or suspected of causing, resistance to neuraminidase inhibitor drugs including zanamivir and oseltamivir.

iii. All samples tested by pyrosequencing for the H275Y variant in the neuraminidase gene which confers resistance to oseltamivir, and a subset tested by NA dideoxy sequencing for other variations known to cause, or suspected of causing, resistance to neuraminidase inhibitor drugs including zanamivir and oseltamivir.

Additional information regarding national antiviral resistance testing, as well as recommendations for antiviral treatment and chemoprophylaxis of influenza virus infection, can be found at <u>http://www.cdc.gov/flu/weekly/</u>.

Outpatient Doctors' Office Visits for ILI - ILINet Surveillance Program (excluding NYC)

The NYSDOH works with ILINet healthcare providers who report the total number of patients seen and the total number of those patients with complaints of ILI every week.

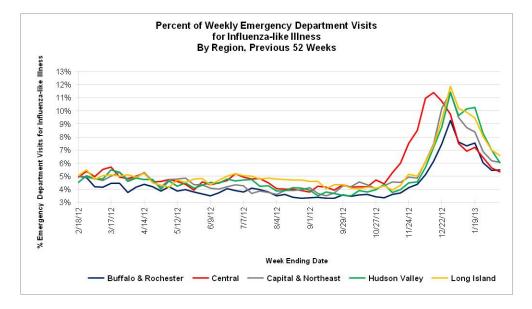


Emergency Department Visits for ILI - Syndromic Surveillance (excluding NYC)

Hospitals around NYS report the number of patients seen in their emergency departments with complaints of ILI. This is called syndromic surveillance.

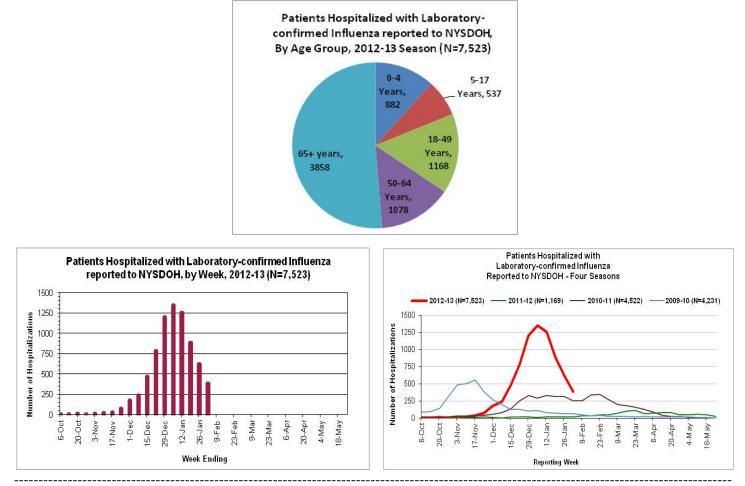
An increase in visits to hospital emergency departments for ILI can be one sign that influenza has arrived in that part of NYS.

Visits for symptoms including fever plus sore throat or cough are counted. Syndromic surveillance does not reveal the actual cause of illness, but is thought to correlate with emergency department visits for influenza.



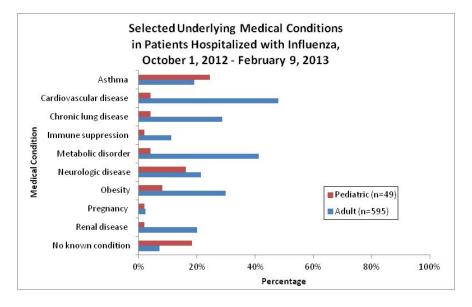
Patients Hospitalized with Laboratory-Confirmed Influenza (including NYC)

Hospitals in NYS and NYC report the number of hospitalized patients with laboratory-confirmed influenza to NYSDOH.⁴



Underlying Health Conditions among Hospitalized Patients

As part of the CDC's Influenza Hospitalization Network, the NYS Emerging Infections Program (EIP) conducts enhanced surveillance for hospitalized cases of laboratory-confirmed influenza among residents of 15 counties.⁵ Medical chart reviews are completed on all identified cases from October 1 through April 30 of the following year.



⁴ 144 (68%) of 213 hospitals reported this week.

⁵ Counties include, in the Capital District: Albany, Columbia, Greene, Montgomery, Rensselaer, Saratoga, Schenectady, and Schoharie; in the Western Region: Genesee, Livingston, Monroe, Ontario, Orleans, Wayne, and Yates.

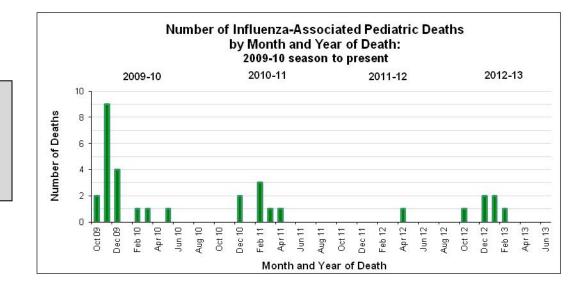
Healthcare-associated Influenza Activity (including NYC)

Hospitals and nursing homes in New York State self-report outbreaks of influenza. A healthcare-associated outbreak of influenza is defined as one or more confirmed or two or more suspect cases in persons who were admitted to the facility with no signs or symptoms of influenza infection; that is, influenza infections acquired within the facility. Outbreaks are considered confirmed only with positive laboratory testing. This may include a positive rapid antigen test if no other more advanced testing (polymerase chain reaction, viral culture) is performed. Outbreaks are reported based on the date of onset of symptoms in the first identified case.⁶

NYS Hea	lthcar	e-Ass	ociate	d Infl	uenza	Surve	illanc	e, 201	2-2013						
Week-to-Date	Capital Region		Central Region		Metropolitan Region		Western Region			S	le				
Week Ending 2/9/13 (CDC wk 6)	ACF	LTCF	Total	ACF	LTCF	Total	ACF	LTCF	Total	ACF	LTCF	Total	ACF	LTCF	Total
# Outbreaks Confirmed Influenza A	1	1	2		3	3	7	10	17		3	3	8	17	25
# Outbreaks Confirmed Influenza B			0			0			0			0	0	0	0
# Outbreaks Confirmed Mixed Influenza A & B			0			0			0			0	0	0	0
Total # Outbreaks Confirmed Influenza	1	1	2	0	3	3	7	10	17	0	3	3	8	17	25
Total # Outbreaks Suspect Viral Resp Disease			0		1	4		2	2		1	1	_	4	
(not including confirmed influenza)			0		1	1		2	2		1	1	0	4	4
Grand Total # Outbreaks Viral Resp Disease	4						_	42	10					24	20
(including suspect and confirmed influenza)	1	1	2	0	4	4	7	12	19	0	4	4	8	21	29
Season-to-Date	Capital Region		Central Region		Metropolitan Region		Western Region			Statewide (Total)					
Week Ending 2/9/13 (CDC wk 6)	ACF	LTCF	Total	ACF	LTCF	Total	ACF	LTCF	Total	ACF	LTCF	Total	ACF	LTCF	Total
# Outbreaks Confirmed Influenza A	9	60	69	9	78	87	57	146	203	12	84	96	87	368	455
# Outbreaks Confirmed Influenza B		1	1			0	3	2	5		3	3	3	6	9
# Outbreaks Confirmed Mixed Influenza A & B		1	1		3	3		8	8		1	1	0	13	13
Total # Outbreaks Confirmed Influenza	9	62	71	9	81	90	60	156	216	12	88	100	90	387	477
Total # Outbreaks Suspect Viral Resp Disease		7	7		•			10	10	4	0	10	4		45
(not including confirmed influenza)		7	7		9	9		19	19	1	9	10	1	44	45
Grand Total # Outbreaks Viral Resp Disease		60	70		00	00	<u> </u>	475	225	10	07	110	01	424	522
(including suspect and confirmed influenza)	8	69	78	9	90	99	60	175	235	13	97	110	91	431	522
ACF = Acute Care Facilities															
LTCF = Long Term Care Facilities															

Pediatric influenza-associated deaths reported (including NYC)

Local health departments report pediatric influenza-associated deaths to NYSDOH.



Flu-associated deaths in children younger than 18 years old are reportable.

All pediatric flu-associated deaths included in this report are laboratory-confirmed.

⁶ For more information on reporting of healthcare-associated influenza, visit http://goo.gl/siL6W