

Respiratory Virus Surveillance Report¹



New Jersey Department of Health Communicable Disease Service

Week ending April 27, 2013 (MMWR week 17)

SYNOPSIS

Influenza Activity Level ²						
State Activi	State Activity Week ending 04/27:					
N	IODERATE	Sussey Pica Sarah				
Current week	Last year: MODERATE	community bloms and				
Re	egional ³ Data	Puriter of Mary Mary Mary Mary Mary Mary Mary Mary				
Northwest	LOW	Mercer mouth Ocean				
Northeast	LOW	Curington				
Central West	MODERATE	calcul micror cyster Salem Atlantio				
Central East	LOW	Comberland Comp				
South	LOW					

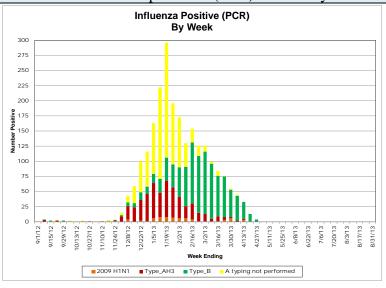
ILI Activity ⁴								
	P	Baselines						
	Current week (range by county)							
Long Term Care Facilities	0.58 (0.00, 2.21)	1.05	0.22	0.59 (0.62, 0.85)				
Schools (absenteeism)	3.47 (0.00, 6.22)	3.92	4.14	3.85 (4.75, 4.85)				
Emergency Departments	2.55 (0.00, 7.32)	2.31	2.14	2.59 (3.43, 4.34)				

Viral Activity ⁷					
	Current Week	Past 3 Weeks	Cumulative Total		
Influenza H1N1 (2009)	0	3	69		
Influenza H3N2	0	3	485		
Influenza B	4	44	926		
Respiratory Syncytial Virus (RSV)	7	58	3231		
Rapid Influenza Tests	22	112	5612		

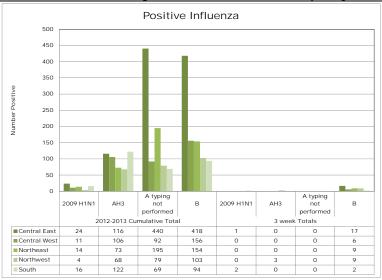
ILINet Providers						
Current W	'eek	Previous Week				
#of reporters	%ILI	#of reporters	%ILI			
4	0.92	12	0.93			

Virologic Surveillance⁷

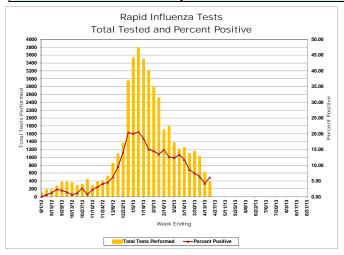
Influenza Positive Specimens (PCR) - Result by Week



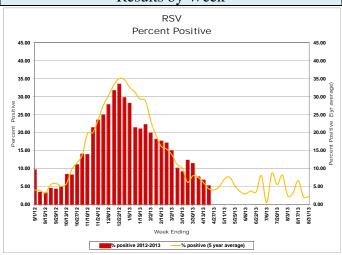
Influenza Positive Specimens (PCR)- Result by Region³



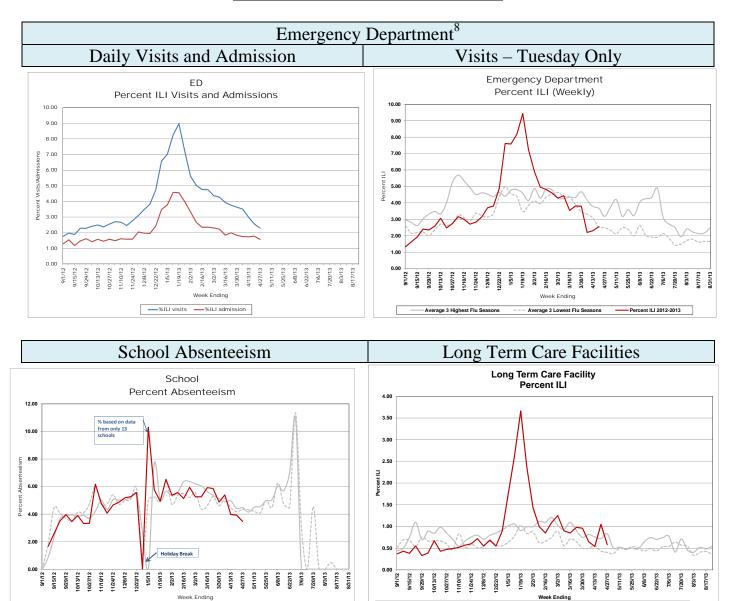
Influenza Rapid Antigen Result by Week



Respiratory Syncytial Virus (RSV) Results by Week

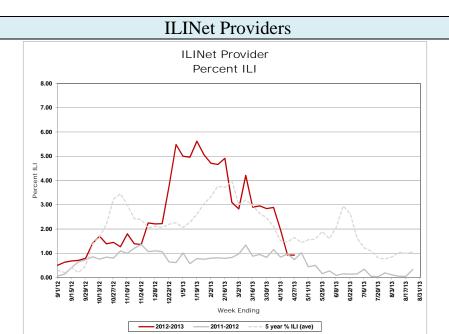


Influenza-like Illness Surveillance



Respiratory Outbreaks in Long Term Care Facilities9

Cumulative outbreaks 2012-2013 season	84
No. outbreaks last 3 weeks	1
Regions with recent	S (1)
outbreaks	S (1)



Additional Information

A second report containing information about age specific illness, hospitalization and deaths will be produced on a monthly basis or as needed when important information needs to be disseminated. For additional information regarding influenza surveillance please visit the following websites. http://nj.gov/health/flu/surveillance.shtml http://www.cdc.gov/flu/

Footnotes:

- 1. This report represents activity occurring in New Jersey related to influenza and RSV. In addition, reports of other circulating respiratory viruses will be included when available.
- 2. Activity levels for the state and region are defined in Table 1 and 2 at the end of this document.
- 3. The following is a breakdown of counties contained within each public health region: Northwest: Morris, Passaic, Sussex, Warren; Northeast: Bergen, Essex, Hudson; Central west: Hunterdon, Mercer, Somerset; Central East: Middlesex, Monmouth, Ocean, Union; South: Atlantic, Burlington, Camden, Cape May, Salem, Cumberland, Gloucester
- 4. Influenza-like illness (ILI) is defined as fever (> 100°F [37.8°C], oral or equivalent) and cough and/or sore throat (in the absence of a known cause other than influenza). For long term care facilities, fever is defined as 2° above baseline temperature.
- 5. Non-season baseline is calculated by taking the average of statewide percentages of ILI for a 7 year (2006, 2007, 2008, 2009, 2010, 2011, 2012) period during months when influenza is less likely to be circulating (May-August).
- 6. Three year seasonal averages are determined by calculating the average percent ILI/absenteeism for each influenza season (October to May). These averages are ranked and the three highest and lowest overall season averages were selected. The three highest and lowest numbers were then averaged to obtain a single high and single low value. The season which contribute to the high and low value vary by entity type and are as follows: LTCF (High: 06-07, 07-08, 08-09; Low: 09-10, 10-11,11-12), ED (High: 06-07, 08-09, 09-10; Low: 07-08, 10-11, 11-12) and schools (High: 06-07, 07-08, 08-09; Low: 09-10, 10-11,11-12). A week by week average was also calculated using the average of the seasons listed above for each entity type.
- 7. Viral activity: Real-time polymerase chain reaction (PCR) results are obtained from electronic laboratory transmission submitted by acute care, commercial and public health laboratories to CDRSS. Rapid influenza test data and respiratory syncytial virus data are acquired from facilities reporting rapid influenza tests via the National Respiratory and Enteric Virus Surveillance System (NREVSS) or CDRSS ILI module. Counts for cumulative totals begin with week ending October 6, 2012. Three week count data includes current week and two prior weeks. Data presented for RSV and rapid influenza testing represent information for the week prior to the current report week.
- 8. Daily visits and admission associated with ILI from emergency department data is collected via EpiCenter and Hippocrates. Prior to these systems, data on ILI visits were only recorded one day per week usually on Tuesday. This system is maintained as a large amount of historical data allows for better seasonal comparisons.

9.

<u>Table 1</u> Influenza Activity Level – Definitions for State Activity							
NJ Level	<u>CSTE Level</u> <u>Definition</u>						
		ILI Activity/Outbreaks		Lab Activity			
	No Activity	ILI activity at or below baseline AND no detected outbreaks	AND	No lab confirmed cases			
Low	Sporadic	Low ILI activity detected OR one lab confirmed outbreaks anywhere in the state	AND	Sporadic isolation of laboratory confirmed influenza			
	Local	Increase in ILI activity OR two or more lab confirmed outbreaks in one public health region (Other regions not experiencing increased ILI activity)	AND	Recent (within 3 weeks) laboratory activity in the region with increased ILI			
Moderate	Regional	Increase in ILI activity OR two or more lab confirmed outbreaks in at least 2 public health regions (Other regions not experiencing increased ILI activity)	AND	Recent (within 3 weeks) laboratory activity in the region with increased ILI			
High	Widespread	Increase in ILI activity OR two or more lab confirmed outbreaks in > 2 public health regions	AND	Recent (within 3 weeks) laboratory activity in the region with increased ILI			

<u>Table 2</u> Influenza Activity Level – Definitions for Public Health Regions								
NJ Level	Definition							
NJ Level	ILI Activity/Outbreaks		Lab Activity					
Low	Low ILI activity detected OR one lab confirmed outbreaks anywhere in the region	AND	Sporadic isolation of laboratory confirmed influenza anywhere in the region					
Moderate	Increased ILI activity in less than half of the counties in the region OR two lab confirmed outbreaks in the public health region	AND	Recent (within 3 weeks) laboratory activity in same counties of the region with increased ILI					
High	Increased ILI activity in more than half of the counties in the region OR three or more lab confirmed outbreaks in the region	AND	Recent (within 3 weeks) laboratory activity in more than half of the counties in the region with increased ILI					

Notes:

ILI activity: Systems used to detect increases in ILI activity include: ILINet (i.e., sentinel providers), school absenteeism data, ED ILI visits and admission collected via Hippocrates and EpiCenter systems, LTCF ILI data, LTCF outbreak data, and information on influenza mortality (122 city, influenza associated death report).

Lab Activity: Virologic surveillance data from PHEL and commercial laboratories will be used as the primary data source for the above levels. However, rapid influenza test data will also be considered when determining the appropriate activity levels.

Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 04/23/2013 to 04/23/2013



HEÅLTH

							SENIOR SERVICES		
	Long Term Care			Schools			Hospital Emergency Department		
County	# Enrolled	# Reports Rec'd	% ILI	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% ILI
April, 23, 2013 12:00 AM MMRW	WEEK 17								
ATLANTIC	4	1	0.56	51	20	1.47	5	4	1.58
BERGEN	7	4	0.00	36	12	4.66	5	5	2.59
BURLINGTON	6	1	0.00	115	52	4.08	4	2	0.44
CAMDEN	5	0	0.00	17	0	0.00	7	7	2.29
CAPE MAY	7	2	0.00	11	8	4.51	1	1	1.89
CUMBERLAND	2	2	1.83	12	5	5.50	3	3	1.41
ESSEX	11	3	0.00	22	3	2.98	11	8	2.85
GLOUCESTER	5	4	0.98	6	6	2.91	2	2	0.85
HUDSON	16	1	0.00	90	53	4.80	6	6	3.19
HUNTERDON	4	4	0.46	8	8	2.22	1	1	7.32
MERCER	10	2	0.00	27	15	4.03	5	5	5.50
MIDDLESEX	20	6	0.56	35	24	3.21	6	6	2.57
MONMOUTH	15	5	0.74	26	15	6.22	5	5	1.49
MORRIS	4	0	0.00	5	0	0.00	4	4	1.99
OCEAN	23	13	0.64	24	18	5.90	4	4	3.88
PASSAIC	13	5	0.15	68	15	3.59	3	3	3.32
SALEM	2	0	0.00	14	4	2.07	1	1	0.00
SOMERSET	7	3	2.21	92	21	3.38	1	1	3.68
SUSSEX	6	3	1.91	24	10	3.86	2	2	1.02
UNION	4	0	0.00	195	0	0.00	5	4	0.28
UNKNOWN	0	0	0.00	1	1	0.00	0	0	0.00
WARREN	4	1	0.00	27	9	4.42	2	1	1.92
NW Region	27	9	0.57	124	34	3.78	11	10	2.56
NE Region	34	8	0.00	148	68	4.72	22	19	2.86
CW Region	21	9	0.96	127	44	3.40	7	7	5.37
CE Region	62	24 10	0.64 0.97	280	57	4.97	20	19	2.28
South Region State Total	31 175	60	0.97 0.58	226 905	95 298	2.47 3.47	23 83	20 75	1.61 2.55
State 10tal	1/3	00	0.30	903	290	3.47	03	13	2.33
Hear Name: THOMAS DEEDAM	I	I			l	I	l	<u> </u>	Page 1 of 1

User Name: THOMAS, DEEPAM

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Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 04/23/2013 to 04/23/2013



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					SENIOR SERVICES
	RSV	Tests	Flu	Tests	
		<u> </u>		i	
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
April, 23, 2013 12:00 AM MMRV	WEEK 17				
ATLANTIC	1	27	1	19	
BERGEN	0	0	6	78	
BURLINGTON	0	0	0	5	
CAMDEN	1	5	0	20	
CAPE MAY	0	1	0	7	
CUMBERLAND	0	9	0	0	
ESSEX	1	14	1	50	
GLOUCESTER	0	5	0	17	
HUDSON	1	7	0	0	
HUNTERDON	0	9	2	36	
MERCER	0	10	1	7	
MIDDLESEX	2	29	0	0	
MONMOUTH	0	20	8	78	
MORRIS	0	0	0	0	
OCEAN	0	3	3	35	
PASSAIC	0	0	0	0	
SALEM	0	0	0	0	
SOMERSET	0	0	0	0	
SUSSEX	1	4	0	8	
UNION	0	0	0	0	
WARREN	0	0	0	0	
NW Region NE Region CW Region CE Region South Region	1 2 0 2 2	4 21 19 52 47	0 7 3 11 1	8 128 43 113 68	
State Total	7	143	22	360	
	1				