

Respiratory Virus Surveillance Report¹



New Jersey Department of Health Communicable Disease Service

Week ending December 29, 2012 (MMWR week 52)

SYNOPSIS

Influenza Activity Level ²						
State Activi	ty Week ending 12/29:					
	HIGH	Sussee PS gale Bright				
Current w	eek Last year: LOW	Hurte of Miles				
Re	egional ³ Data	Moreon mouth				
Northwest	HIGH	Gutington				
Northeast	MODERATE	calou Ca mider				
Central West	MODERATE	Salem Atlantio Cumbertand				
Central East	HIGH	Cape				
South	MODERATE					

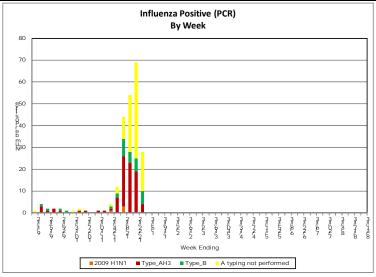
	ILI Activity ⁴					
	P	ercent ILI/Absente	eeism	Baselines		
	Current week (range by county)	Last week Current year	Current week Last year	Non-season ⁵ Season ⁶ (3 low, 3 high)		
Long Term Care Facilities	0.89 (0.00, 2.31)	0.55	0.41	0.59 (0.62, 0.85)		
Schools (absenteeism)	0.00	5.56	0.00	3.85 (4.75, 4.85)		
Emergency Departments	7.61 (0.00, 7.38)	4.87	3.88	2.59 (3.43, 4.34)		

Viral Activity ⁷						
	Current Week	Past 3 Weeks	Cumulative Total			
Influenza H1N1 (2009)	0	0	4			
Influenza H3N2	4	46	88			
Influenza B	6	17	32			
Respiratory Synctial Virus (RSV)	266	669	1155			
Rapid Influenza Tests	244	398	491			

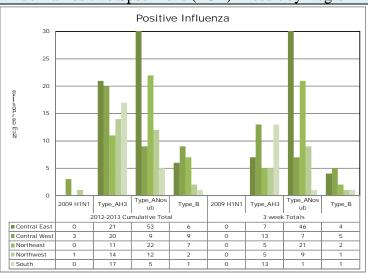
ILINet Providers						
Current W	eek	Previous Week				
#of reporters	%ILI	#of reporters	%ILI			
8	5.30	9	4.18			

Virologic Surveillance⁷

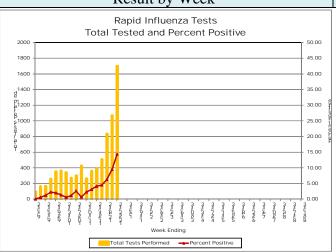
Influenza Positive Specimens (PCR) - Result by Week



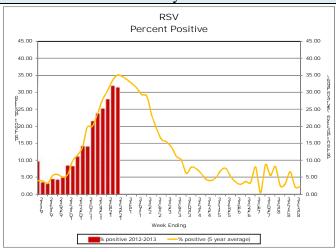
Influenza Positive Specimens (PCR)- Result by Region³



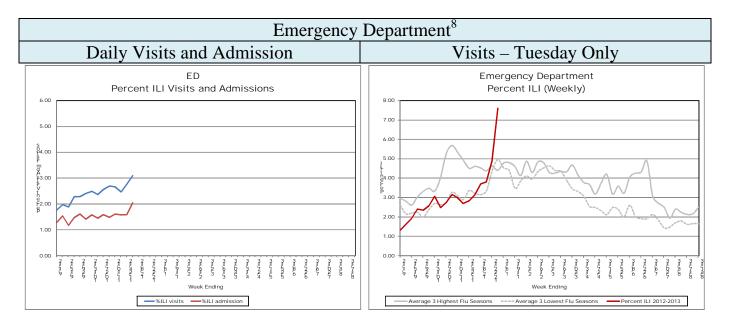
Influenza Rapid Antigen Result by Week

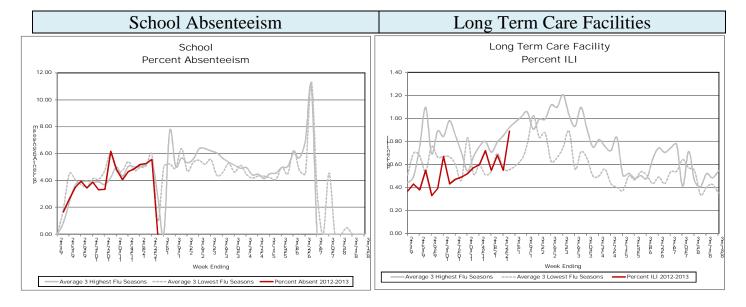


Respiratory Syncytial Virus (RSV) Results by Week



Influenza-like Illness Surveillance

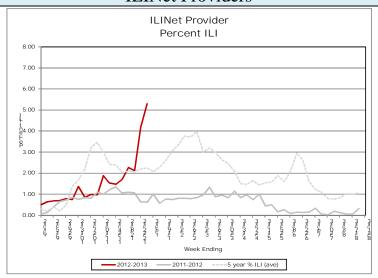




Respiratory Outbreaks in Long Term Care Facilities9

Cumulative outbreaks	17
2012-2013 season	
No. outbreaks last 3 weeks	10
Regions with recent	NW(1), NE(1),
outbreaks	CW(4), $CE(2)$,
	S(2)

ILINet Providers



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. Only LTCF outbreaks reported to NJDOH that received an outbreak number are recorded in this report.

	<u>Table 1</u> Influenza Activity Level – Definitions for State Activity						
NJ Level	CSTE Level	Definition					
		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			

Table 2 Influenza Activity Level – Definitions for Public Health Regions					
NJ Level	Def				
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: 12/25/2012 to





	Long Term Care			Schools			Hospital Emergency Department		
County	# Enrolled	# Reports Rec'd	% IL1	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% IL1
	MMRW WEEK 52								
ATLANTIC	4	1	2.31	51	0	0.00	5	4	3.23
BERGEN	6	1	0.00	36	0	0.00	5	5	6.47
BURLINGTON	6	1	0.00	115	0	0.00	4	3	7.03
CAMDEN	5	0	0.00	17	0	0.00	7	7	6.58
CAPE MAY	7	2	1.19	11	0	0.00	1	1	10.42
CUMBERLAND	2	2	0.90	11	0	0.00	3	3	7.36
ESSEX	10	2	0.00	20	0	0.00	11	8	7.91
GLOUCESTER	5	0	0.00	6	0	0.00	2	2	8.79
HUDSON	16	3	1.33	88	0	0.00	6	6	7.83
HUNTERDON	4	0	0.00	8	0	0.00	1	1	15.00
MERCER	10	1	0.00	27	0	0.00	5	5	15.38
MIDDLESEX	20	0	0.00	34	0	0.00	6	6	8.48
MONMOUTH	14	1	0.92	26	0	0.00	5	5	7.90
MORRIS	4	0	0.00	5	0	0.00	4	4	4.44
OCEAN	8	2	2.31	16	0	0.00	4	3	10.97
PASSAIC	9	3	0.55	51	0	0.00	3	3	9.40
SALEM	2	0	0.00	10	0	0.00	1	1	1.92
SOMERSET	6	2	0.41	87	0	0.00	1	1	11.48
SUSSEX	5	3	0.88	24	0	0.00	2	2	1.01
UNION	3	0	0.00	195	0	0.00	5	5	2.35
UNKNOWN	0	0	0.00	1	0	0.00	0	0	0.00
WARREN	4	0	0.00	27	0	0.00	2	2	9.56
NW Region	22	6	0.71	107	0	0.00	11	11	6.81
NE Region	32	6	0.76	144	0	0.00	22	19	7.44
CW Region	20	3	0.40	122	0	0.00	7	7	14.63
CE Region South Region	45 31	3 6	1.85 1.04	271 221	0	0.00 0.00	20 23	19 21	7.50 6.38
State Total	150	24	0.89	865	0	0.00	83	77	7.61
State I Stat	130	27	0.07	- 003		0.00			7.01

User Name: MCHUGH, LISA

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NEW JERSEY DEPARTMENT HEÄLTH SENIOR SERVICES

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 12/25/2012

	RSV	Tests	Flu Tests		
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
December, 25, 2012 12:00 AM M	MRW WEEK:	52			
ATLANTIC	30	84	22	134	
BERGEN	19	34	67	444	
BURLINGTON	17	41	14	101	
CAMDEN	41	106	8	78	
CAPE MAY	7	16	1	23	
CUMBERLAND	20	57	0	0	
ESSEX	15	54	32	280	
GLOUCESTER	0	0	0	0	
HUDSON	14	32	0	0	
HUNTERDON	5	10	20	76	
MERCER	4	13	0	0	
MIDDLESEX	43	193	0	0	
MONMOUTH	40	166	49	387	
MORRIS	0	0	0	0	
OCEAN	7	27	7	57	
PASSAIC	0	0	0	0	
SALEM	0	0	0	0	
SOMERSET	0	0	0	0	
SUSSEX	4	27	13	71	
UNION	0	0	0	0	
WARREN	0	2	11	49	
NW Region	4	29	24	120	
NE Region	48	120	99	724	
CW Region	9	23	20	76	
CE Region	90	386	56 45	444	
South Region State Total	115 266	304 862	45 244	336 1700	
State I stat	200	002		1700	