



# Delaware Weekly Influenza Surveillance Report

Week 15 (April 10 – April 16, 2011)

Delaware Division of Public Health

## National Synopsis-2010-2011:

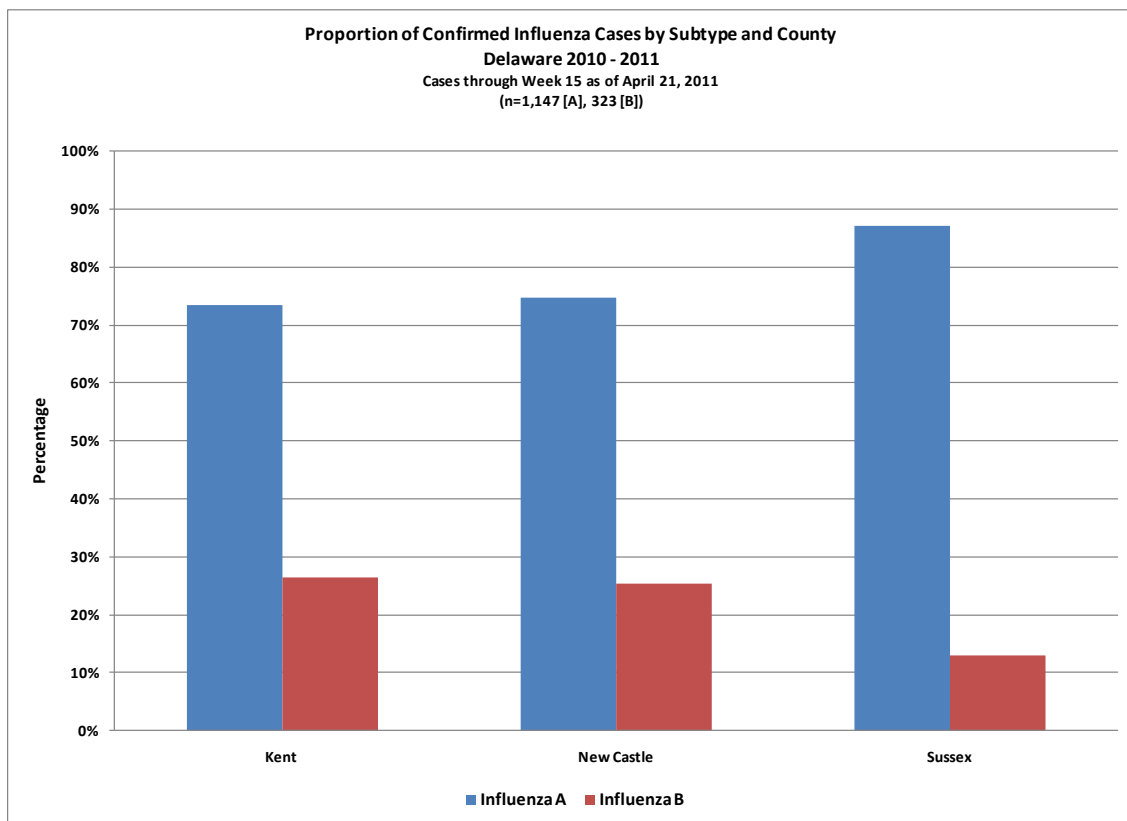
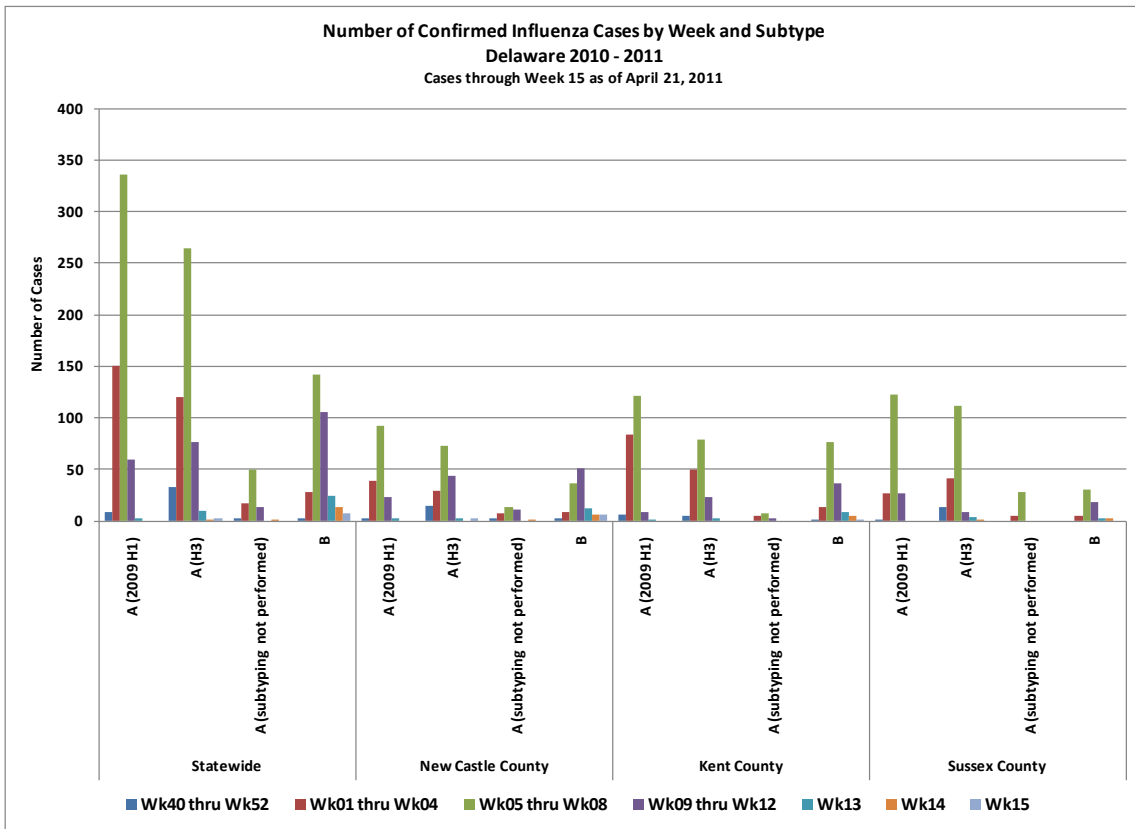
**NOTE:** National data is updated Friday of each week. Please visit <http://www.cdc.gov/flu/weekly/> for the most current information.

## Delaware Influenza Surveillance-2010-2011:

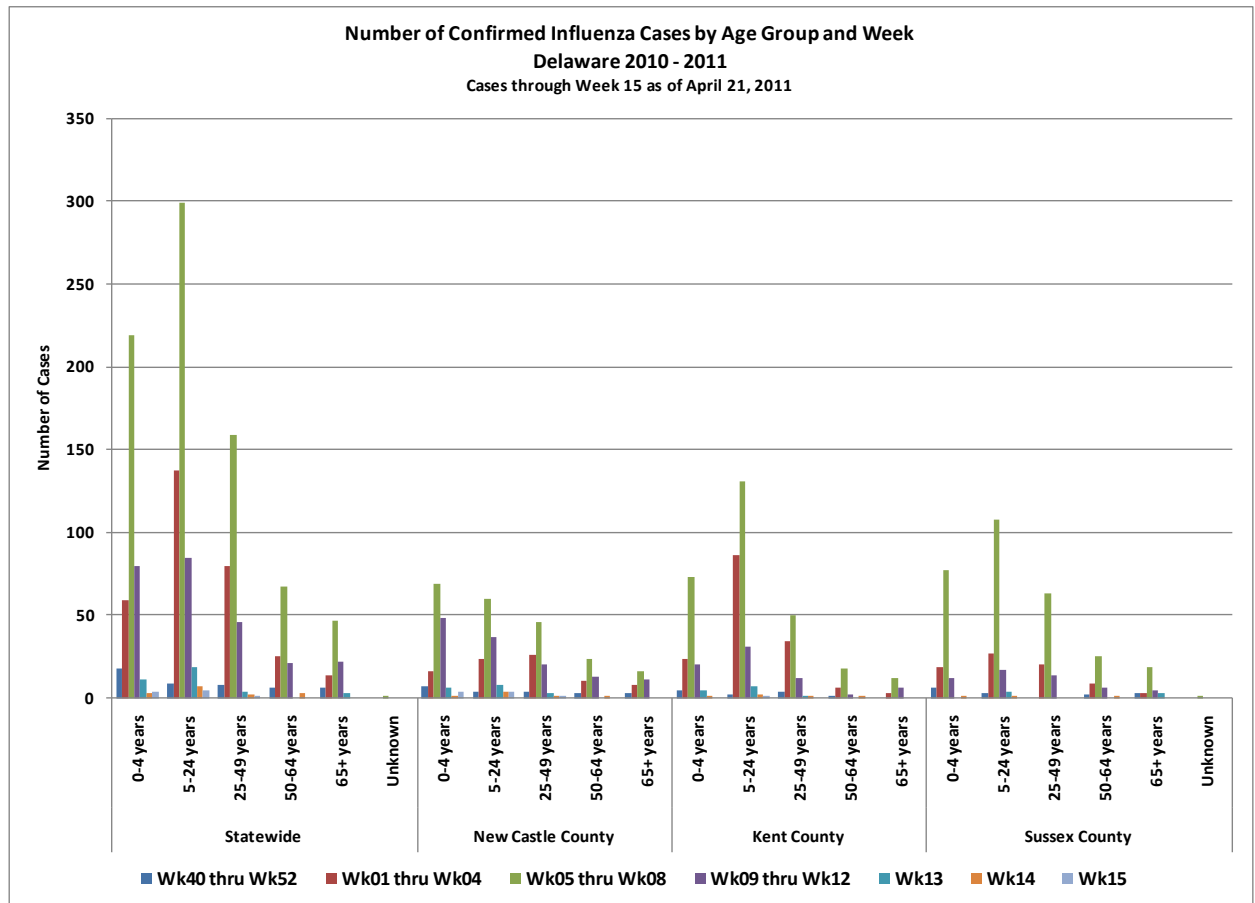
### † Influenza Positive and Confirmed Cases Reported through Week 15 (Week ending April 16, 2011)

Confirmed Flu Cases by Subtype		2010		2011							
		Wk40	Wk01	Wk05	Wk09						YTD Cnty
		thru	thru	thru	thru	Wk13	Wk14	Wk15	YTD	YTD Total	%
		Wk52	Wk04	Wk08	Wk12						
Statewide	A (2009 H1)	9	150	336	59	3	0	0	557	1470	
	A (H3)	33	120	264	76	10	1	3	507		
	A (subtyping not performed)	2	17	50	13	0	1	0	83		
	B	3	28	142	106	24	13	7	323		
New Castle County	A (2009 H1)	2	39	92	23	2	0	0	158	482	32.8%
	A (H3)	15	29	73	44	3	0	3	167		
	A (subtyping not performed)	2	7	14	11	0	1	0	35		
	B	2	9	36	51	12	6	6	122		
Kent County	A (2009 H1)	6	84	121	9	1	0	0	221	539	36.7%
	A (H3)	5	50	79	23	3	0	0	160		
	A (subtyping not performed)	0	5	8	2	0	0	0	15		
	B	1	14	76	37	9	5	1	143		
Sussex County	A (2009 H1)	1	27	123	27	0	0	0	178	449	30.5%
	A (H3)	13	41	112	9	4	1	0	180		
	A (subtyping not performed)	0	5	28	0	0	0	0	33		
	B	0	5	30	18	3	2	0	58		

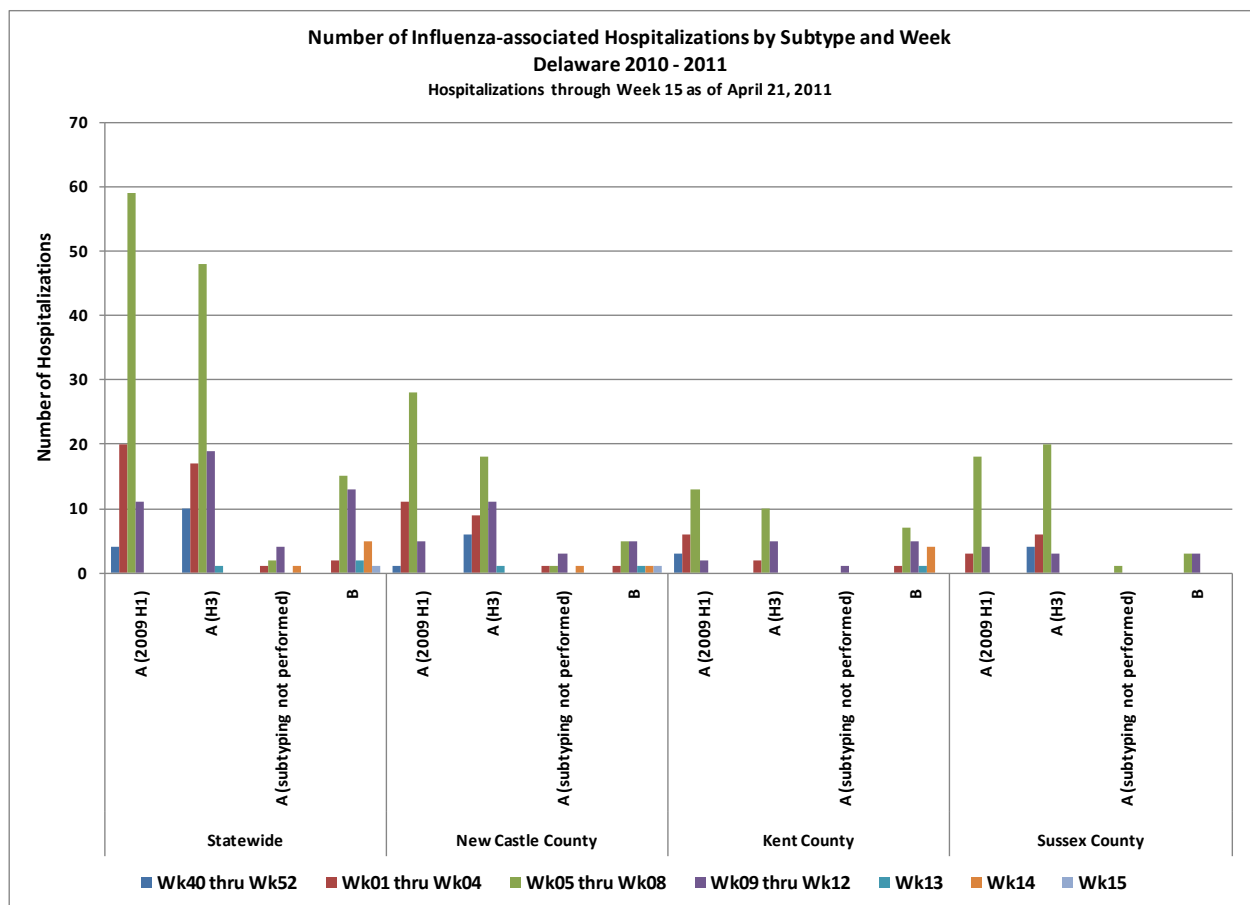
- Distribution of confirmed influenza cases across subtypes was as follows:
  - 1,147 of the 1,470 (78.0%) confirmed influenza cases were type A.
    - Of these, 557 (48.6%) were subtype 2009 H1, and
    - 507 (44.2%) were subtype H3N2.
    - The remaining 83 (7.2%) were of unknown subtype.
  - 323 of the 1,470 (22.0%) confirmed influenza cases were type B.
- Distribution of confirmed influenza cases across counties is reflected in the above table and is depicted in the graphic on the following page. Also depicted is the proportion of influenza A and influenza B cases within each county.



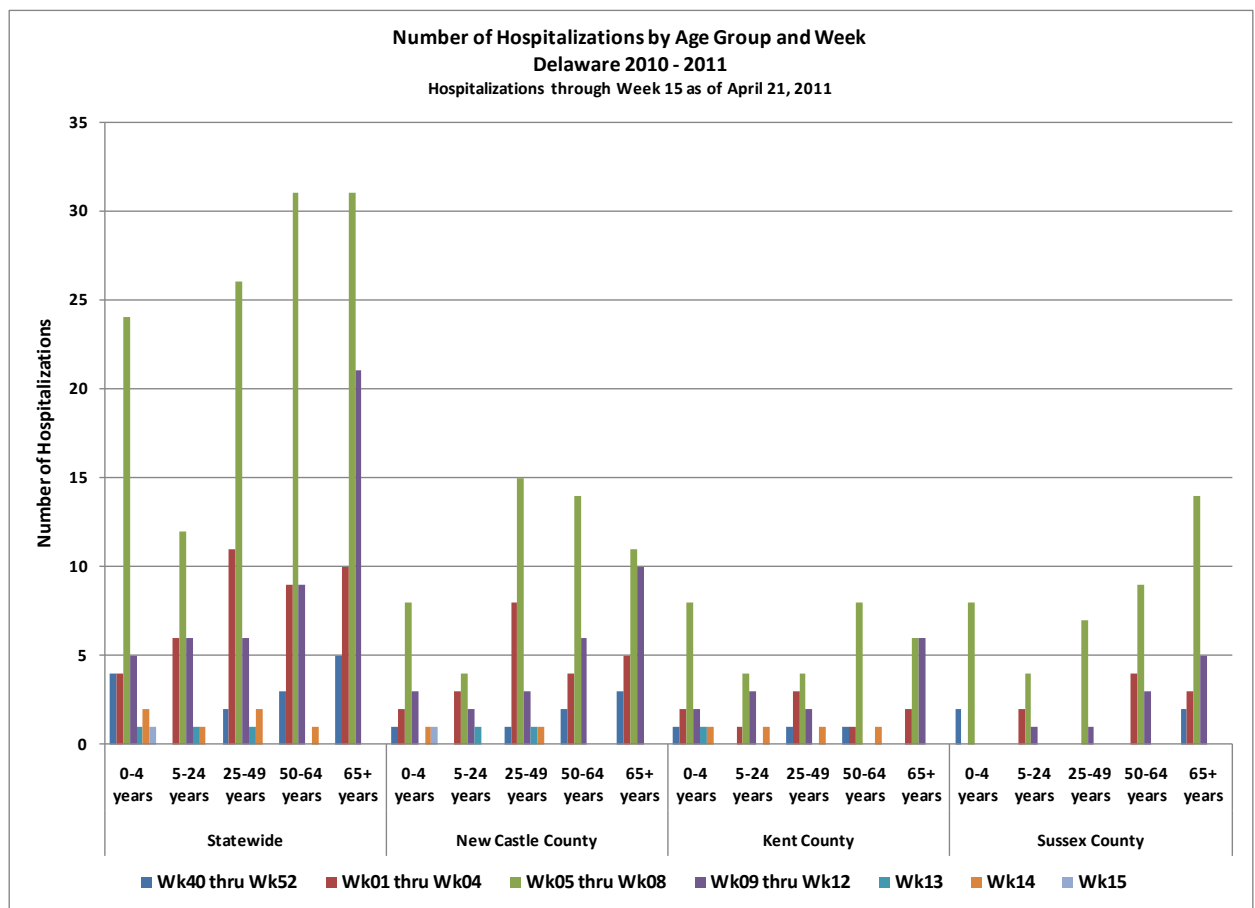
Confirmed Flu Cases by Age Group		2010		2011								
		Wk40 thru Wk52	Wk01 thru Wk04	Wk05 thru Wk08	Wk09 thru Wk12	Wk13	Wk14	Wk15	YTD	YTD Total	YTD Cnty %	
Statewide	0-4 years	18	59	219	80	11	3	4	394	1470		
	5-24 years	9	137	299	85	19	7	5	561			
	25-49 years	8	80	159	46	4	2	1	300			
	50-64 years	6	25	67	21	0	3	0	122			
	65+ years	6	14	47	22	3	0	0	92			
	Unknown	0	0	1	0	0	0	0	1			
New Castle County	0-4 years	7	16	69	48	6	1	4	151	482	32.8%	
	5-24 years	4	24	60	37	8	4	4	141			
	25-49 years	4	26	46	20	3	1	1	101			
	50-64 years	3	10	24	13	0	1	0	51			
	65+ years	3	8	16	11	0	0	0	38			
Kent County	0-4 years	5	24	73	20	5	1	0	128	539	36.7%	
	5-24 years	2	86	131	31	7	2	1	260			
	25-49 years	4	34	50	12	1	1	0	102			
	50-64 years	1	6	18	2	0	1	0	28			
	65+ years	0	3	12	6	0	0	0	21			
Sussex County	0-4 years	6	19	77	12	0	1	0	115	449	30.5%	
	5-24 years	3	27	108	17	4	1	0	160			
	25-49 years	0	20	63	14	0	0	0	97			
	50-64 years	2	9	25	6	0	1	0	43			
	65+ years	3	3	19	5	3	0	0	33			
	Unknown	0	0	1	0	0	0	0	1			



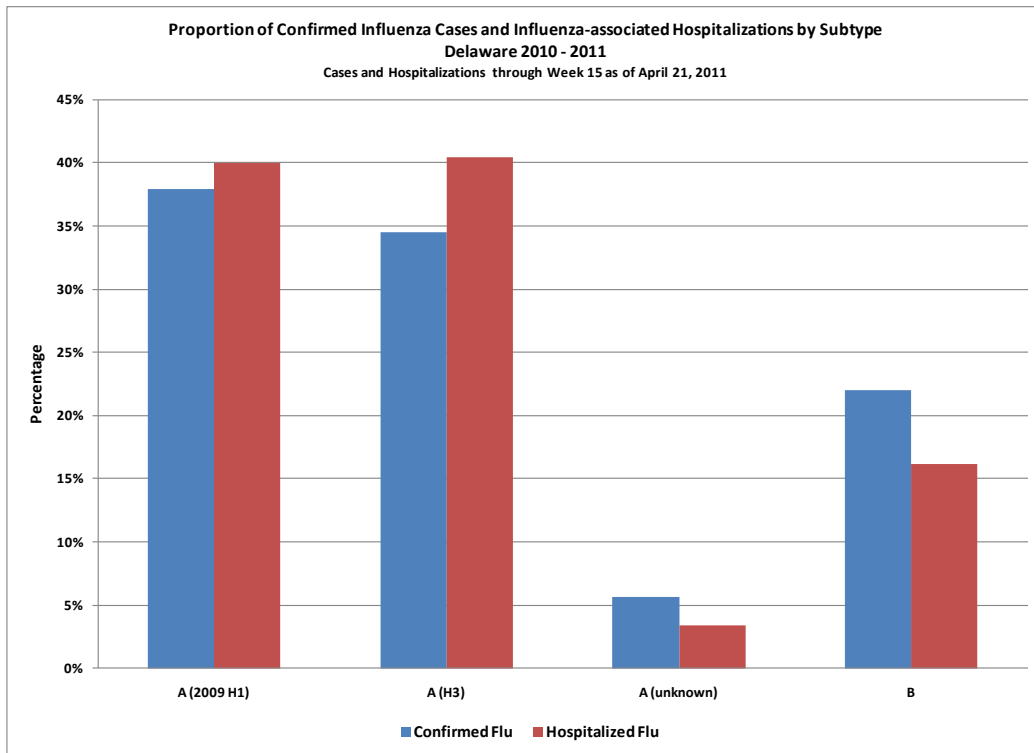
Flu Hospitalizations by Subtype		2010		2011							YTD Cnty %
		Wk40 thru Wk52	Wk01 thru Wk04	Wk05 thru Wk08	Wk09 thru Wk12	Wk13	Wk14	Wk15	YTD	YTD Total	
Statewide	A (2009 H1)	4	20	59	11	0	0	0	94	235	
	A (H3)	10	17	48	19	1	0	0	95		
	A (subtyping not performed)	0	1	2	4	0	1	0	8		
	B	0	2	15	13	2	5	1	38		
New Castle County	A (2009 H1)	1	11	28	5	0	0	0	45	110	46.8%
	A (H3)	6	9	18	11	1	0	0	45		
	A (subtyping not performed)	0	1	1	3	0	1	0	6		
	B	0	1	5	5	1	1	1	14		
Kent County	A (2009 H1)	3	6	13	2	0	0	0	24	60	25.5%
	A (H3)	0	2	10	5	0	0	0	17		
	A (subtyping not performed)	0	0	0	1	0	0	0	1		
	B	0	1	7	5	1	4	0	18		
Sussex County	A (2009 H1)	0	3	18	4	0	0	0	25	65	27.7%
	A (H3)	4	6	20	3	0	0	0	33		
	A (subtyping not performed)	0	0	1	0	0	0	0	1		
	B	0	0	3	3	0	0	0	6		



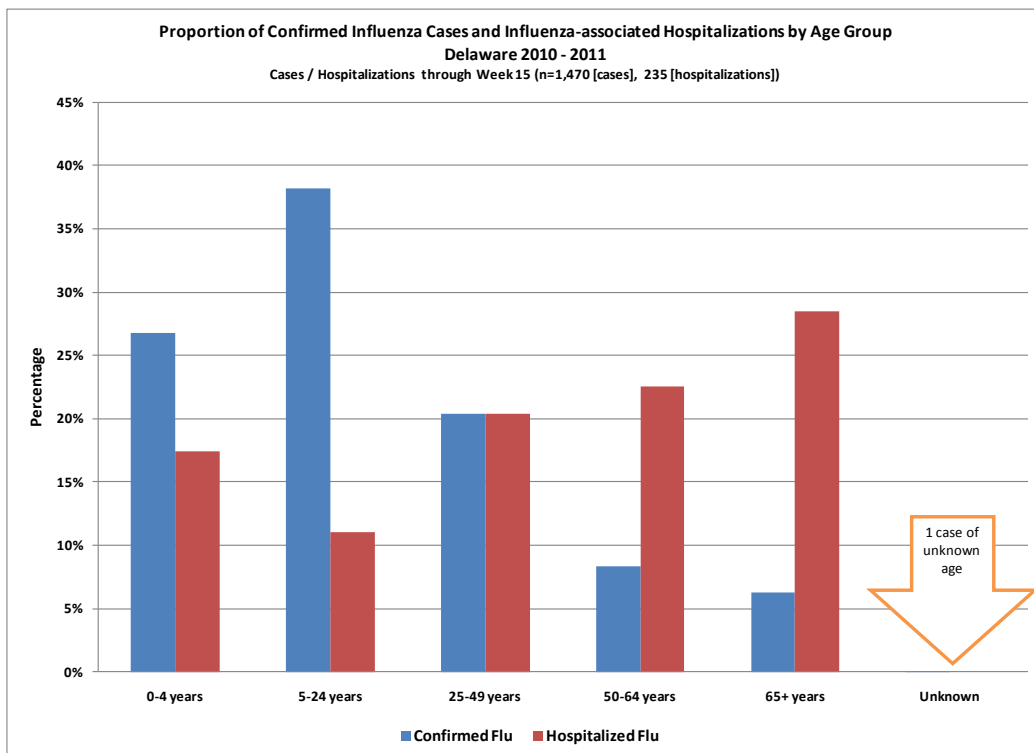
Flu Hospitalizations by Age Group		2010		2011								
		Wk40 thru Wk52	Wk01 thru Wk04	Wk05 thru Wk08	Wk09 thru Wk12	Wk13	Wk14	Wk15	YTD	YTD Total	YTD Cnty %	
Statewide	0-4 years	4	4	24	5	1	2	1	41	235		
	5-24 years	0	6	12	6	1	1	0	26			
	25-49 years	2	11	26	6	1	2	0	48			
	50-64 years	3	9	31	9	0	1	0	53			
	65+ years	5	10	31	21	0	0	0	67			
New Castle County	0-4 years	1	2	8	3	0	1	1	16	110	46.8%	
	5-24 years	0	3	4	2	1	0	0	10			
	25-49 years	1	8	15	3	1	1	0	29			
	50-64 years	2	4	14	6	0	0	0	26			
	65+ years	3	5	11	10	0	0	0	29			
Kent County	0-4 years	1	2	8	2	1	1	0	15	60	25.5%	
	5-24 years	0	1	4	3	0	1	0	9			
	25-49 years	1	3	4	2	0	1	0	11			
	50-64 years	1	1	8	0	0	1	0	11			
	65+ years	0	2	6	6	0	0	0	14			
Sussex County	0-4 years	2	0	8	0	0	0	0	10	65	27.7%	
	5-24 years	0	2	4	1	0	0	0	7			
	25-49 years	0	0	7	1	0	0	0	8			
	50-64 years	0	4	9	3	0	0	0	16			
	65+ years	2	3	14	5	0	0	0	24			



- The proportion of confirmed influenza cases and influenza-associated hospitalizations by subtype is depicted below:



- The proportion of confirmed influenza cases and influenza-associated hospitalizations by age group is depicted below:



Total Flu-related Deaths in Delaware 2010 – 2011 Influenza Season	Wk40 thru Wk52	Wk01 thru Wk15	YTD
	0	5	5

Annual Seasonal Flu Case Totals	
2004	995
2005	541
2006	508
2007	1401
2008	738
2009-2010	2,247
2010-2011	1,470

\* Based on patients with positive nucleic acid and viral culture test results reported to the Division of Public Health.

† Reports are by date of specimen collection, not the date the results are obtained. As a result, prior weeks may be adjusted to reflect additional cases.

§§ Confirmed Influenza cases from all reporting sources (including State Lab)

**NOTE:** The data provided may not be a true reflection of the total number of people who have been infected with influenza virus in Delaware, chiefly due to the following:

- Many people ill with influenza-like symptoms do not seek medical care; and
- Many who do seek medical care are not tested for influenza.

### Level of Influenza Activity in Delaware, Week 15:

<b>Sporadic</b>	➔ Isolated laboratory confirmed cases <b>OR</b> a laboratory confirmed outbreak in one institution but no increase in reports of ILI from the regional baseline for the season.
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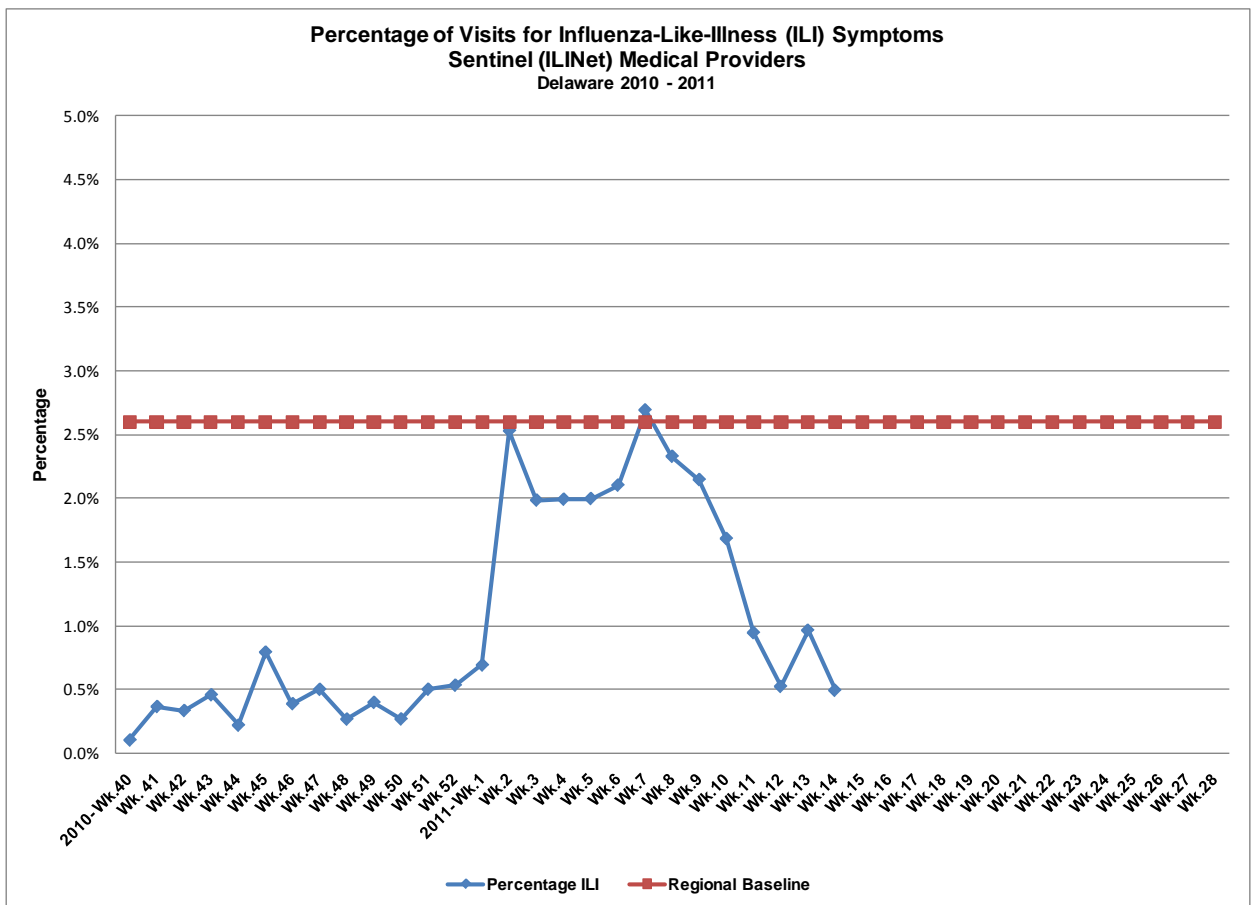
Influenza-like illness (ILI) is defined as patients presenting with fever over 100° F, cough and/or sore throat in the absence of a known cause other than influenza.

- ➔ **No Activity:** No laboratory confirmed cases of influenza and no increase in the number of reports of ILI above regional baseline for the season.
- ➔ **Sporadic:** Isolated laboratory confirmed cases **OR** a laboratory confirmed outbreak in one institution but no increase in reports of ILI from the regional baseline for the season.
- ➔ **Local:** Increased ILI above the regional baseline for the season in a single county; ILI activity in other counties is not increased above baseline AND recent (within the past three weeks) laboratory evidence of influenza in the county with increased ILI **OR** two or more institutional outbreaks (ILI or laboratory confirmed flu) in a single county AND recent (within the past three weeks) laboratory evidence of influenza in the county with the outbreaks; virus activity is no greater than sporadic in other counties.
- ➔ **Regional:** Outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in at least 2 but less than half the regions of the state. (This level of activity does not apply for small states with 4 or fewer regions.)
- ➔ **Widespread:** Increase in ILI reports above the regional baseline and/or institutional outbreaks of influenza (ILI or lab confirmed) AND recent (within the past 3 weeks) laboratory confirmed influenza in at least two of the three counties.

**ILINet (Sentinel) Provider Surveillance Network:**

An ILINet (Sentinel) provider conducts surveillance for influenza-like illness (ILI) in collaboration with the state health department and the Centers for Disease Control and Prevention. Data reported by ILINet (Sentinel) providers, in combination with other influenza surveillance data, provide a national and statewide picture of influenza virus and ILI activity in the U.S.

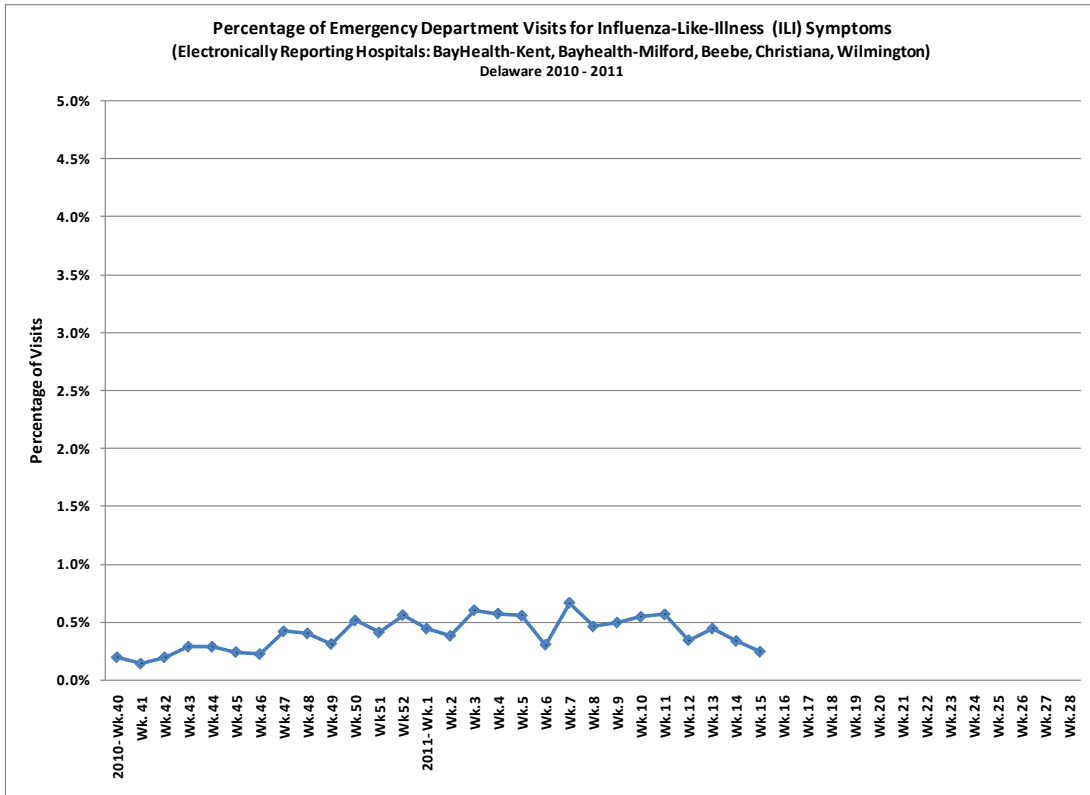
**Influenza-like illness reported from ILINet (Sentinel) Providers  
Delaware 2010-2011  
9 of 17 Sentinels reporting**



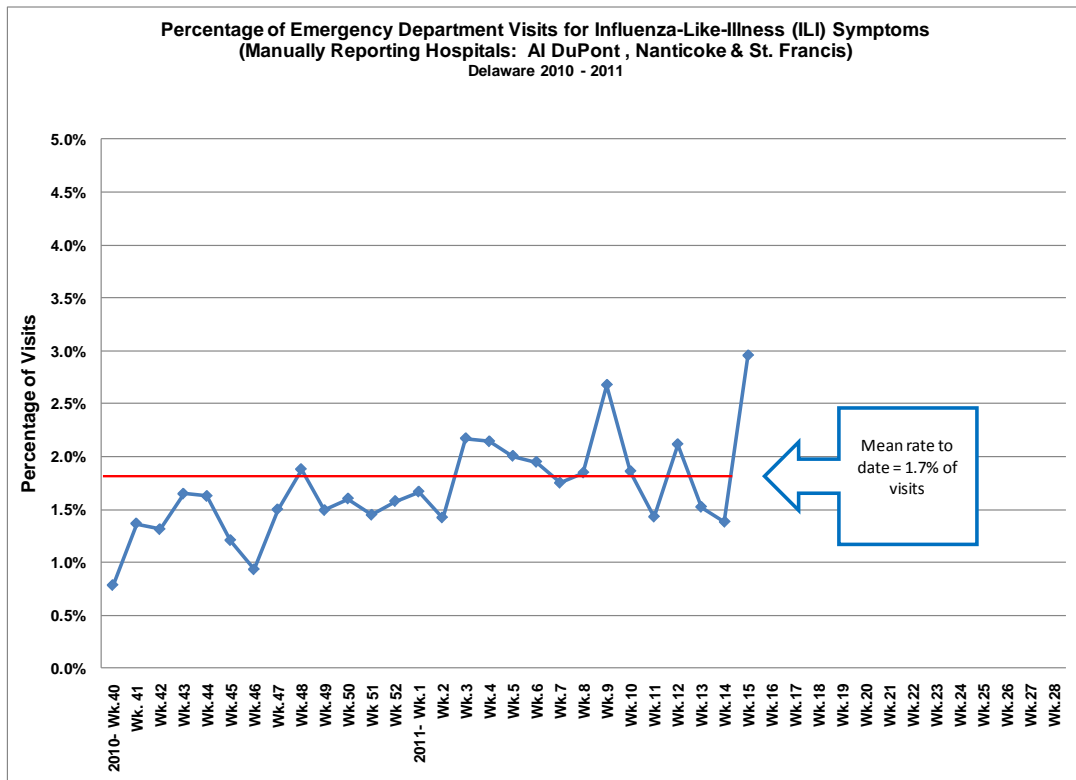
**Regional Baseline for 2010-2011 applicable to: Region 3 (Delaware, District of Columbia, Maryland, Pennsylvania, Virginia & West Virginia); baseline= 2.6%.**



## Hospital Electronic Surveillance Data: Delaware 2010-2011 5 of 5 hospitals reporting



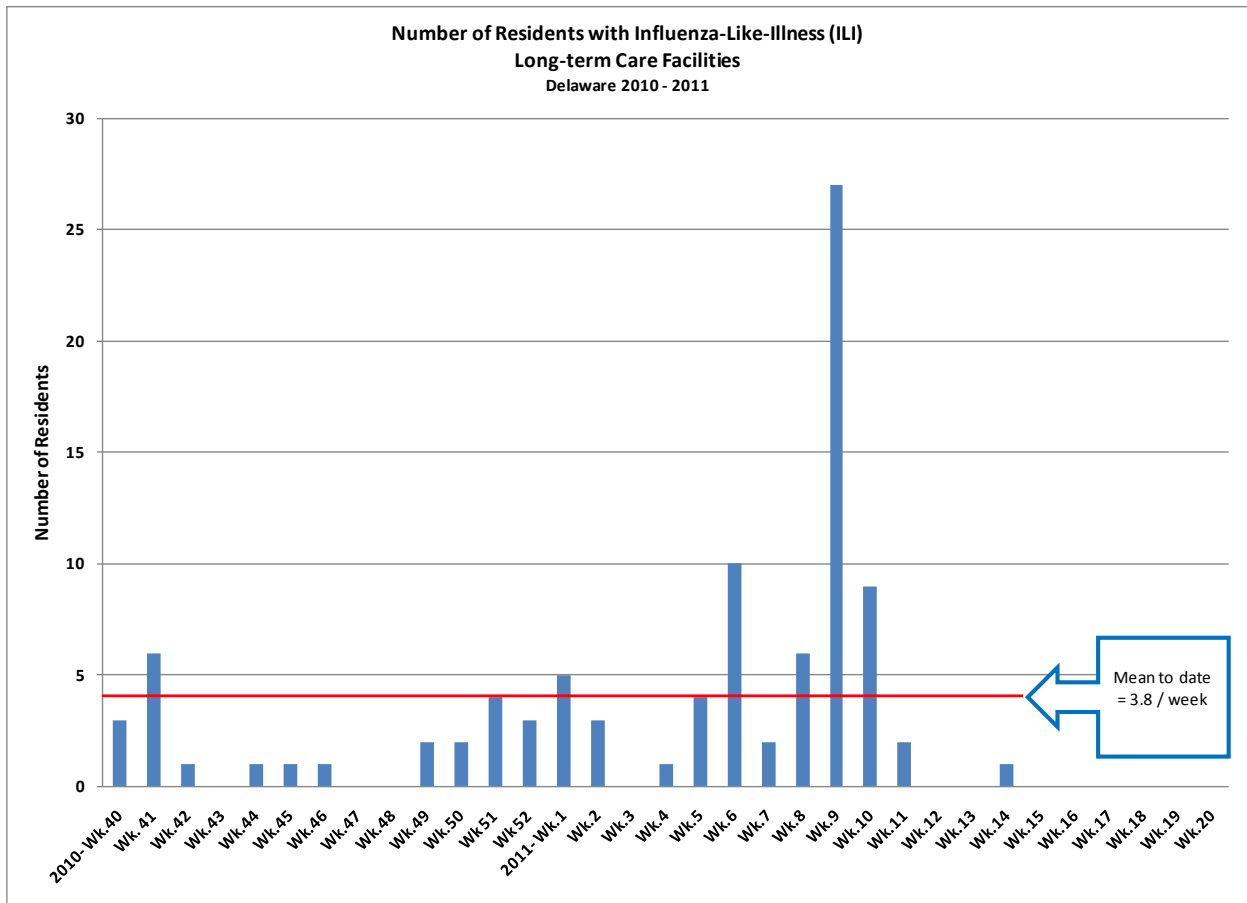
## Hospital Manual Surveillance Data: Delaware 2010-2011 2 of 3 hospitals reporting (Al DuPont & St. Francis)



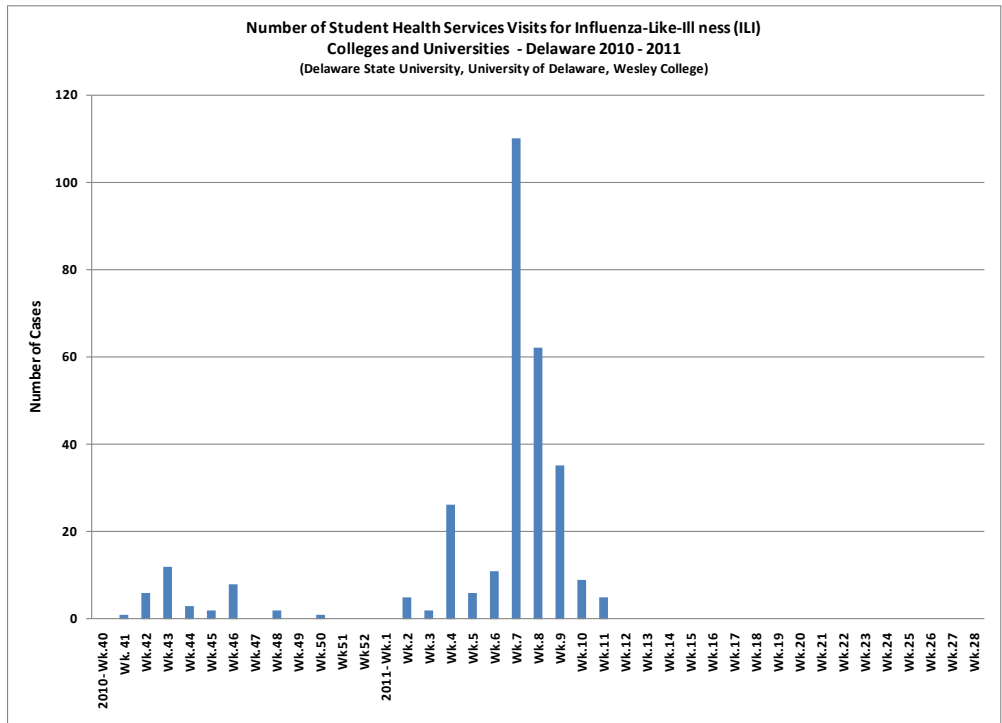
Influenza-like illness reported from Federally Qualified Health Centers (FQHCs):  
Delaware 2010-2011

No Week 15 reports had been received at the time this report was compiled.

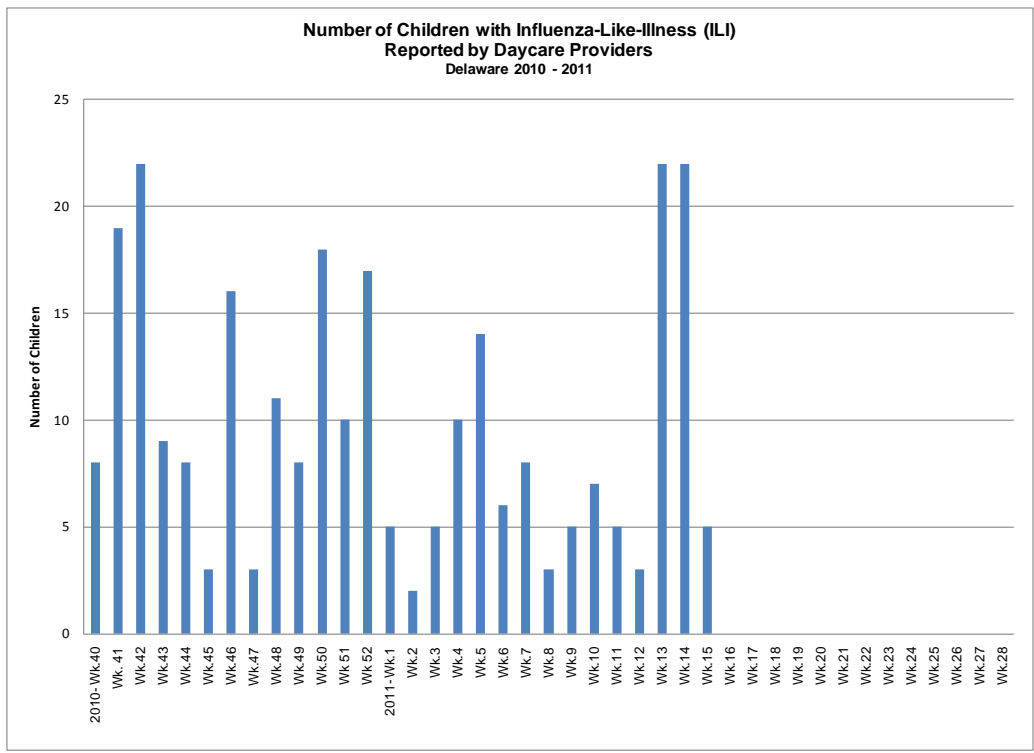
Influenza-like illness reported from Long-Term Care Facilities (LTCFs):  
Delaware 2010-2011  
6 of 19 facilities reporting



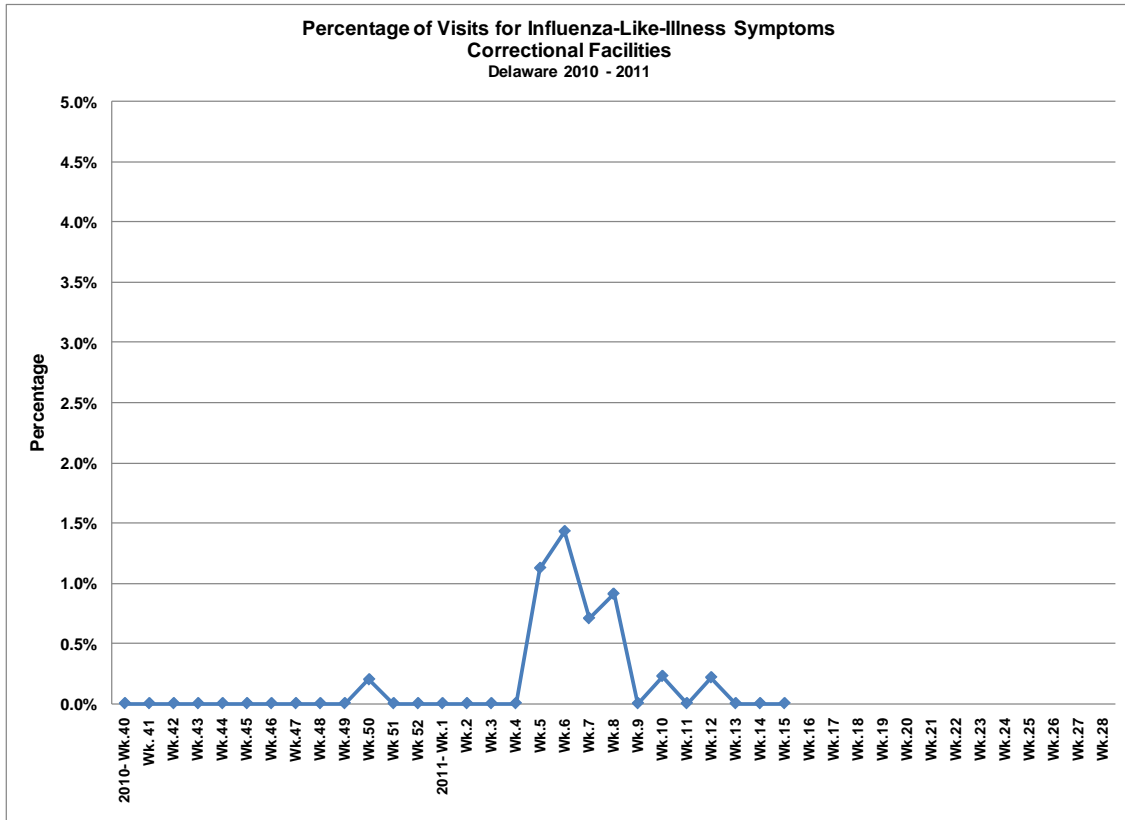
**Influenza-like illness reported from Colleges/Universities:  
Delaware 2010 – 2011  
1 of 3 schools reporting (University of Delaware)**



**Influenza-like illness reported from Daycare Providers: Delaware 2010-2011  
2 of 13 providers reporting**



**Influenza-like illness reported from DE Correctional Facilities:  
 Delaware 2010-2011  
 2 of 3 facilities reporting (Howard R. Young & Sussex Correctional)**



The Division of Public Health is committed to serving you better. If you have not found the answers to your questions, please visit [flu.delaware.gov](http://flu.delaware.gov) or call (302) 744-4704.