

# Delaware Weekly Influenza Report MMWR Week 41 (October 7 – 13, 2018) Delaware Division of Public Health

# National Influenza Synopsis 2018-2019:

National data are updated Friday of each week. Please visit <a href="http://www.cdc.gov/flu/weekly/">http://www.cdc.gov/flu/weekly/</a> for the most current information. Influenza activity in the United States remains low. Influenza A(H1N1)pdm09, influenza A(H3N2), and influenza B viruses continue to co-circulate, with influenza A(H1N1)pdm09 viruses reported most commonly by public health laboratories during the most recent three weeks. Geographic spread during MMWR Week 41 (October 7 - 13, 2018): Local influenza activity was reported by Guam, Massachusetts and North Dakota. Sporadic influenza activity was reported by the District of Columbia, the U.S. Virgin Islands and 40 states (Alabama, Alaska, Arizona, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Missouri, Montana, Nevada, New Hampshire, New Jersey, New Mexico, New York, Ohio, Oklahoma, Oregon, Pennsylvania, South Carolina, South Dakota, Texas, Utah, Vermont, Washington, West Virginia, Wisconsin and Wyoming). No influenza activity was reported by eight states (Colorado, Illinois, Mississippi, Nebraska, North Carolina, Rhode Island, Tennessee, and Virginia). Puerto Rico did not report. Both national and state data are provisional and subject to change as additional reports are received.

## Delaware Influenza Surveillance 2018-2019:

During MMWR Week 41, there were four laboratory-confirmed cases of influenza reported among Delaware residents, bringing the total to 10 for the 2018-2019 season. Reports of influenza-like illness (ILI) received from participating providers, facilities and institutions in Delaware show ILI is 0.09% compared with Delaware's 2018-2019 baseline of 2.0%. Nationally, ILI is 1.4%, below the 2018-2019 national baseline of 2.2%.

#### Level of Influenza Activity in Delaware, MMWR Week 41:

 Sporadic
 Small numbers of laboratory-confirmed influenza cases or a single laboratory-confirmed influenza outbreak has been reported, but there is no increase in cases of ILI.

 Influenza-like illness (ILI) is defined as patients presenting with fever of 100° F or greater, 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 reported increase in the number of cases of ILI.

 Sporadic:
 Small numbers of laboratory-confirmed influenza cases or a single laboratory-confirmed influenza outbreak has been reported, but there is no increase in cases of ILI.

 Local:
 Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in a single region of the state.

Regional: Outbreaks of influenza or increases in ILI and recent laboratory-confirmed influenza in at least two but less than half the regions of the state with recent laboratory evidence of influenza in those regions.<sup>3</sup>

Widespread: Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in at least half the regions of the state with recent laboratory evidence of influenza in the state.

<sup>1</sup> 2018-2019 Region 3 (DE, DC, MD, PA, VA and WV) baseline = 2.0%.

<sup>2</sup> Laboratory-confirmed case = case confirmed by viral culture or PCR.

<sup>3</sup> Region = population under surveillance in a defined geographical subdivision of a state. Regions typically include several counties. Regional doesn't apply to states with < four counties.

#### In this report: page Table 1a. Influenza positive cases reported statewide and county, by subtype / lineage and MMWR week, Delaware 2018-19 2 2 Table 1b. Influenza positive cases reported statewide and county, by age group and MMWR week, Delaware 2018-19 3 Figure 1. Confirmed cases of influenza by type and subtype / lineage, by MMWR week, Delaware 2018-19 Table 2. Influenza-related hospitalizations, statewide and county, by age group and MMWR week, Delaware 2018-19 3 3 Table 3. Influenza-related deaths by MMWR week, Delaware 2018-19 Table 4. Numbers of influenza cases reported by flu season, Delaware 2004-05 through 2018-19 4 4 Figure 2. Percentage of visits for influenza-like illness reported by sentinel providers participating in CDC's ILINet, Delaware 2018-19 Figure 3. Influenza-like illness reported by ILI reporting partners by MMWR week, Delaware 2018-19 5 5 Figure 4a. Percentage of emergency department (ED) visits due to ILI/Flu by MMWR week, Delaware 2018-19 5 Figure 4b. County-specific percentages of ED visits due to ILI/Flu by MMWR week, Delaware 2018-19

Summary of International Influenza Activity 6

Table 1a. Influenza positive <sup>1</sup> cases reported <sup>2</sup> statewide and county by subtype (A) or lineage (B) <sup>3</sup> , Delaware	2018-19
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Confirmed Flu Cases by Subtype / Lineage		Week 40	Week 41	Y =TD	YTD Total	YTD County %
STATEWIDE	A / 2009 H1N1	1	0	1		
	A / 2012 H3N2	0	0	0		
	A / no subtype	4	3	7		
	Co-infection	0	1*	1	10	
	B / Yamagata	0	0	0		
Ś	B / Victoria	0	0	0		
	B / no lineage	1	0	1		
	A / 2009 H1N1	1	0	1		
	A / 2012 H3N2	0	0	0		
stle V	A / no subtype	1	1	2		
New Castle County	Co-infection	0	0	0	3	30%
s of lev	B / Yamagata	0	0	0		
2	B / Victoria	0	0	0		
	B / no lineage	0	0	0		
	A / 2009 H1N1	0	0	0		
	A / 2012 H3N2	0	0	0		
t d	A / no subtype	3	2	5		
Kent County	Co-infection	0	0	0	5	50%
0	B / Yamagata	0	0	0		
	B / Victoria	0	0	0		
	B / no lineage	0	0	0		
	A / 2009 H1N1	0	0	0		
	A / 2012 H3N2	0	0	0		
sex nty	A / no subtype	0	0	0		
Sussex County	Co-infection	0	1	1	2	20%
	B / Yamagata	0	0	0		
	B / Victoria	0	0	0		
	B / no lineage	1	0	1		

\* - Coinfection: B:Yamagata and B:Victoria

# Table 1b. Influenza positive<sup>1</sup> cases reported<sup>2</sup> statewide and county by age group, Delaware 2018-19

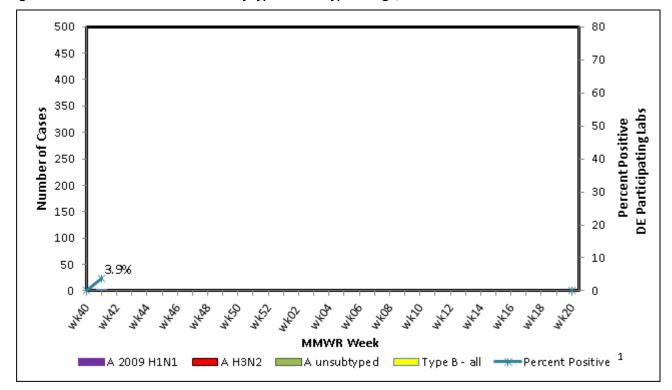
	rmed Flu s by Age o	Week 40	Week 41	YTD	YTD Total	YTD County %
STATEWIDE	0-4 years	0	1	1	10	
	5-24 years	1	1	2		
ΤĒV	25-49 years	3	1	4		
TA.	50-64 years	0	1	1		
s	65+ years	2	0	2		
	0-4 years	0	0	0		30%
New Castle County	5-24 years	0	0	0	3	
	25-49 years	2	0	2		
	50-64 years	0	1	1		
	65+ years	0	0	0		
	0-4 years	0	0	0	5	50%
	5-24 years	0	1	1		
Kent County	25-49 years	1	1	2		
δ×	50-64 years	0	0	0		
	65+ years	2	0	2		
Sussex County	0-4 years	0	1	1		
	5-24 years	1	0	1		
	25-49 years	0	0	0	2	20%
	50-64 years	0	0	0		
	65+ years	0	0	0		

<sup>1</sup>Based on patients with positive nucleic acid or viral culture test results reported to the Division of Public Health.

<sup>2</sup> Reports are by the date the laboratory results are obtained. As a result, prior weeks' counts may be adjusted to reflect additional cases received.

<sup>3</sup> The Division of Public Health Laboratory now has the capability to identify lineage for Influenza B. Since some laboratories in the state do not have this capability, those influenza cases are categorized as Influenza B, no lineage identified.

MMWR Week 41 = October 7 - 13, 2018



	italized Flu s by Age p	Week 40	Week 41	YTD	YTD Total	YTD County %
STATEWIDE	0-4 years	0	0	0		
	5-24 years	0	0	0		
	25-49 years	0	1	1	1	
	50-64 years	0	0	0		
	65+ years	0	0	0		
New Castle County	0-4 years	0	0	0		
	5-24 years	0	0	0		
	25-49 years	0	0	0	0	0
	50-64 years	0	0	0		
	65+ years	0	0	0		
	0-4 years	0	0	0	1	
	5-24 years	0	0	0		
Kent County	25-49 years	0	1	1	1	100%
ĕĕ	50-64 years	0	0	0		
-	65+ years	0	0	0		
Sussex County	0-4 years	0	0	0		
	5-24 years	0	0	0		
	25-49 years	0	0	0	0	0
	50-64 years	0	0	0		
	65+ years	0	0	0		

## Table 3. Influenza-related deaths, Delaware 2018-19

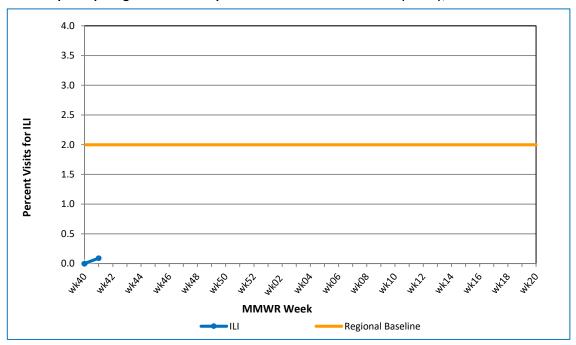
Influenza-	Week	Week	YTD
Related	40	41	
Deaths	0	0	0

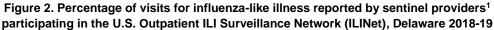
Influenza Season	Total Annual Influenza Cases				
2004 – 2005	995				
2005 – 2006	541				
2006 – 2007	508				
2007 – 2008	1,401				
2008 – 2009	738				
2009 – 2010	2,247				
2010 – 2011	1,479				
2011 – 2012	267				
2012 – 2013	1,781				
2013 – 2014	1,842				
2014 – 2015	2,390				
2015 – 2016	1,842				
2016 – 2017	4,590				
2017 – 2018	9,051				
2018 – 2019 (YTD)	10				

# Table 4. Annual number of influenza cases reported by flu season, Delaware 2004-05 through 2018-19

# U.S. Outpatient Influenza-Like Illness Surveillance Network (ILINet) Sentinel Providers

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





<sup>1</sup> Ten of 12 sentinel providers reported.

<sup>2</sup> Regional baseline is calculated by CDC using non-influenza weeks from the previous three influenza seasons. Delaware is in Region 3 that also includes DC, MD, PA, VA and WV.

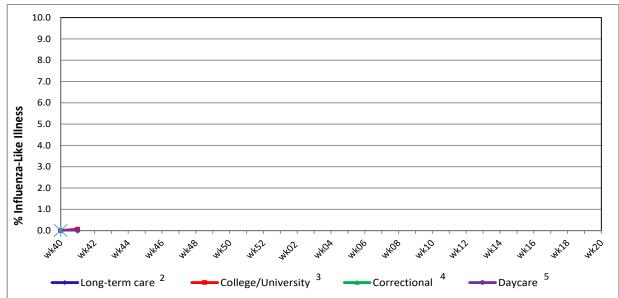


Figure 3. Influenza-like illness reported by influenza surveillance ILI reporting partners<sup>1</sup>, Delaware 2018-19

<sup>1</sup> ILINet reporting partners include long-term care facilities, colleges / universities, correctional facilities and daycare facilities.

<sup>2</sup> % ILI= percentage of residents with ILI symptoms. Five long-term care facilities reported.

 $^3$  % ILI= percentage of student visits for ILI; Two universities reported.

<sup>4</sup> % ILI= percentage of visits for ILI at the correctional facility; Nine correctional facilities reported.

 $^5$  % ILI= percentage of children absent with ILI; One daycare provider reported.

Figure 4a. Percentage of emergency department (ED) visits due to ILI/Flu by MMWR Week, Delaware, 2018-19

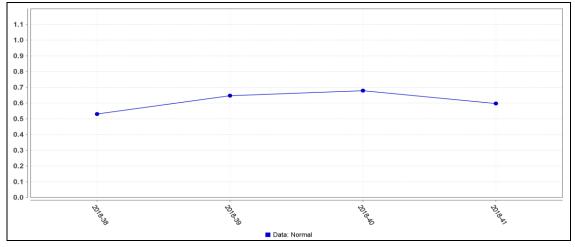
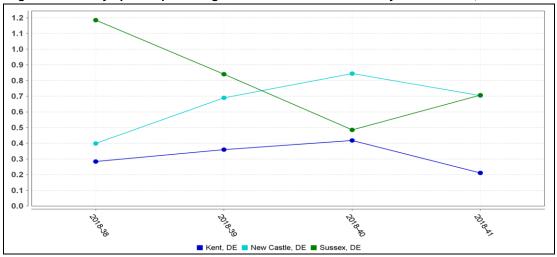


Figure 4b. County-specific percentages of ED visits due to ILI/Flu by MMWR Week, Delaware 2018-19



# Summary of International Influenza Activity

Worldwide, seasonal influenza subtype A viruses accounted for the majority of detections.

For North America, influenza activity was at low levels in the United States and Canada, with influenza B predominating. In México, low influenza and SARI activity was reported with influenza A(H1N1)pdm09 predominating.

In the Caribbean, influenza virus activity increased, and low RSV activity was reported throughout most of the sub-region. In Central America: Epidemiological indicators remained at moderate levels and influenza circulation was reported to increase throughout the sub-region.

Throughout the European Region, influenza activity was low, both influenza A and B type viruses were detected.

Increased influenza detections were reported in some countries of Southern and South-East Asia.

In the temperate zones of the southern hemisphere, influenza activity appeared to decrease overall though influenza percent positivity remained elevated in Southern Africa. In Australia and New Zealand, influenza activity remained at low levels and even below seasonal threshold during the entire season

Reference: World Health Organization (WHO), 2017. Influenza Update number 326 (10/15/2018). Retrieved October 19, 2018, from <a href="http://www.who.int/influenza/surveillance\_monitoring/updates/latest\_update\_GIP\_surveillance/en/">http://www.who.int/influenza/surveillance\_monitoring/updates/latest\_update\_GIP\_surveillance/en/</a> Reports are updated biweekly.

**NOTE:** Data provided do not reflect the total number of individuals who have been infected with the influenza virus in Delaware during the reporting period due to the following factors:

- Many people ill with influenza-like symptoms do not seek medical care.
- > Many who do seek medical care are not tested for influenza.
- The Delaware Public Health Laboratory is limited by capacity to processing a maximum of three specimens per day from each reporting entity.

The Delaware Division of Public Health (DPH) is committed to serving you better by providing the most accurate, up-to-date influenza data available.

- > For general information on influenza, visit <u>flu.delaware.gov</u> or <u>http://dhss.delaware.gov/dhss/dph/dpc/immunize-flu.html.</u>
- For specific information on DPH flu clinics, visit <u>http://dhss.delaware.gov/dhss/dph/fluclinics.html</u>.
- ▶ For questions on Delaware's weekly flu report, call the DPH Office of Infectious Disease Epidemiology: 302-744-4990.
- > For questions regarding influenza vaccination, please call 302-744-1060.