

Delaware Weekly Influenza Report MMWR Week 47 (November 18 – 24, 2018) Delaware Division of Public Health

National Influenza Synopsis 2018-2019:

National data are updated Friday of each week. Please visit <u>http://www.cdc.gov/flu/weeklv/</u> for the most current information. During MMWR Week 47,influenza activity in the United States increased slightly. The increase in percentage of patient visits for ILI may be influenced in part by a reduction in routine healthcare visits during the Thanksgiving holidays, as has occurred in previous seasons. 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 since September 30, 2018. Geographic spread during week 47 (November 18 - 24) is: <u>Regional influenza activity</u> was reported by five states (Connecticut, Kentucky, Massachusetts, Oregon and Utah). <u>Local influenza activity</u> was reported by 16 states (Alaska, Arizona, California, Florida, Georgia, Idaho, Louisiana, New Hampshire, **New Jersey**, New York, Ohio, Oklahoma, **Pennsylvania**, South Carolina, Tennessee and Texas). <u>Sporadic influenza activity</u> was reported by the District of Columbia, Puerto Rico, the U.S. Virgin Islands and 28 states (Alabama, Arkansas, Colorado, **Delaware**, Hawaii, Illinois, Indiana, Iowa, Kansas, Maine, **Maryland**, Michigan, Minnesota, Vermont, Washington, West Virginia, Wisconsin and Wyoming). <u>No influenza activity</u> was reported by Guam and Virginia. Both national and state data are provisional and subject to change as additional reports are received.

Delaware Influenza Surveillance 2018-2019:

During MMWR Week 47, there were 21 laboratory-confirmed cases of influenza reported among Delaware residents, bringing the total to 71 93 for the 2018-2019 season. Reports of influenza-like illness (ILI) received from participating providers, facilities and institutions in Delaware show ILI is 0.26% compared with Delaware's 2018-2019 baseline of 2.0%. Nationally, ILI increased to 2.3%, above the 2018-2019 national baseline of 2.2%.

Level of Influenza Activity in Delaware, MMWR Week 47:

 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.³

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.

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

² Laboratory-confirmed case = case confirmed by viral culture or PCR.

³ 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.

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Summary of International Influenza Activity 6

Table 1a. Influenza positive¹ cases reported² statewide and county by subtype (A) or lineage (B)³, Delaware 2018-19

	rmed Flu s by Subtype / ge	Week 40	Week 41	Week 42	Week 43	Week 44	Week 45	Week 46	Week 47	YTD	YTD Total	YTD County %
	A / 2009 H1N1	1	0	1	4	4	3	3	5	21		
	A / 2012 H3N2	0	0	0	0	1	2	0	0	23		
DE	A / no subtype	4	3	2	3	14	15	7	16	64	93	
STATEWIDE	Co-infection	0	1	0	1	0	0	0	0	2		
TAT	B / Yamagata	0	0	2	0	0	0	0	0	2		
ν	B / Victoria	0	0	0	0	0	0	0	0	0		
	B / no lineage	1	0	0	0	0	0	0	0	1		
	A / 2009 H1N1	1	0	0	3	2	2	1	4	13		
	A / 2012 H3N2	0	0	0	0	1	0	0	0	1	29	31.2%
/ tle	A / no subtype	1	1	0	3	3	4	2	1	15		
New Castle County	Co-infection	0	0	0	0	0	0	0	0	0		
န္ခရင္စ	B / Yamagata	0	0	0	0	0	0	0	0	0		
z	B / Victoria	0	0	0	0	0	0	0	0	0		
	B / no lineage	0	0	0	0	0	0	0	0	0		
	A / 2009 H1N1	0	0	0	1	2	1	2	1	7	51	
	A / 2012 H3N2	0	0	0	0	1	1	0	0	2		54.8%
두 주	A / no subtype	3	2	2	0	7	10	5	11	40		
Kent County	Co-infection	0	0	0	0	0	0	0	0	0		
0	B / Yamagata	0	0	2	0	0	0	0	0	2		
	B / Victoria	0	0	0	0	0	0	0	0	0		
	B / no lineage	0	0	0	0	0	0	0	0	0		
	A / 2009 H1N1	0	0	1	0	0	0	0	0	1		
Sussex County	A / 2012 H3N2	0	0	0	0	0	0	0	0	0	13	
	A / no subtype	0	0	0	0	4	1	0	4	9		14.0%
	Co-infection	0	1	0	1	0	0	0	0	2		
	B / Yamagata	0	0	0	0	0	0	0	0	0		
	B / Victoria	0	0	0	0	0	0	0	0	0		
	B / no lineage	1	0	0	0	0	0	0	0	1		

Table 1b. Influenza positive¹ cases reported² statewide and county by age group, Delaware 2018-19

	rmed Flu s by Age p	Week 40	Week 41	Week 42	Week 43	Week 44	Week 45	Week 46	Week 47	YTD	YTD Total	YTD County %
STATEWIDE	0-4 years	0	1	1	0	3	7	2	5	19		
	5-24 years	1	1	2	1	4	6	5	10	30		
ΓEV	25-49 years	3	1	0	2	5	3	2	5	21	93	
TA.	50-64 years	0	1	2	2	3	1	0	1	10		
S	65+ years	2	0	0	3	5	2	1	0	13		
	0-4 years	0	0	0	0	1	3	0	2	6		
<pre>tle</pre>	5-24 years	0	0	0	0	1	2	2	1	6		
ew Cast County	25-49 years	2	0	0	2	1	0	1	1	7	29	31.2%
New Castle County	50-64 years	0	1	0	1	2	1	0	1	6		
z	65+ years	0	0	0	3	1	0	0		4		
	0-4 years	0	0	0	0	0	3	2	2	7		
	5-24 years	0	1	2	0	3	4	3	6	19		
Kent County	25-49 years	1	1	0	0	3	3	1	4	13	51	54.8%
Sou K	50-64 years	0	0	2	1	0	0	0	0	3		
-	65+ years	2	0	0	0	4	2	1	0	9		
	0-4 years	0	1	1	0	2	1	0	1	6		
ity	5-24 years	1	0	0	1	0	0	0	3	5	13	
Sussex County	25-49 years	0	0	0	0	1	0	0	0	1		14.0%
ပေ	50-64 years	0	0	0	0	1	0	0	0	1		
	65+ years	0	0	0	0	0	0	0	0	0		

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

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

³ 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 47 = November 18 - 24, 2018

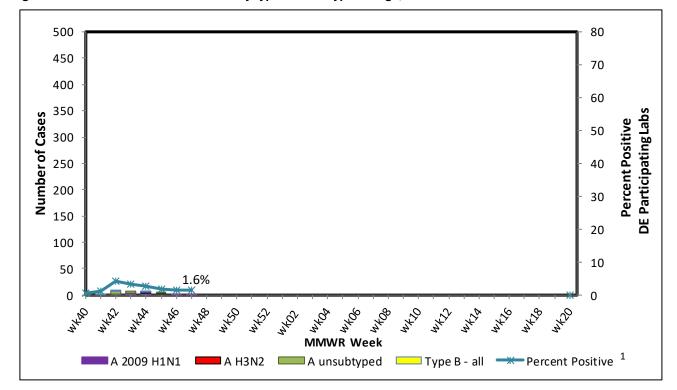


Figure 1. Confirmed cases¹ of influenza by type and subtype/lineage, Delaware 2018-2019 influenza season*

Table 2. Influenza-related hospitalizations statewide and county, by age group, Delaware 2018-19

	italized Flu s by Age p	Week 40	Week 41	Week 42	Week 43	Week 44	Week 45	Week 46	Week 47	YTD	YTD Total	YTD County %
	0-4 years	0	0	1	0	0	0	0	0	1		
STATEWIDE	5-24 years	0	0	0	0	0	0	0	0	0		
Ē	25-49 years	0	1	0	1	1	1	0	1	5	21	
TA.	50-64 years	0	0	1	2	2	0	0	0	5		
0	65+ years	0	0	0	2	5	2	1	0	10		
	0-4 years	0	0	0	0	0	0	0	0	0		
v tle	5-24 years	0	0	0	0	0	0	0	0	0	6	
New Castle County	25-49 years	0	0	0	1	0	0	0	0	1		28.6%
န္မ	50-64 years	0	0	0	1	1	0	0	0	2		
z	65+ years	0	0	0	2	1	0	0	0	3		
	0-4 years	0	0	0	0	0	0	0	0	0		
	5-24 years	0	0	0	0	0	0	0	0	0		
ent	25-49 years	0	1	0	0	1	1	0	1	4	13	61.9%
Kent County	50-64 years	0	0	1	1	0	0	0	0	2		
_	65+ years	0	0	0	0	4	2	1	0	7		
	0-4 years	0	0	1	0	0	0	0	0	1		
ty ex	5-24 years	0	0	0	0	0	0	0	0	0		
Sussex County	25-49 years	0	0	0	0	0	0	0	0	0	2	9.5%
လပ	50-64 years	0	0	0	0	1	0	0	0	1		
	65+ years	0	0	0	0	0	0	0	0	0		

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

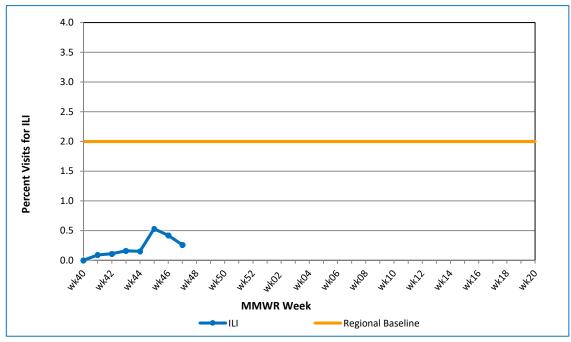
Influenza-	Week	YTD							
Related	40	41	42	43	44	45	46	47	
Deaths	0	0	0	0	0	0	0	0	0

Total Annual Influenza Cases
995
541
508
1,401
738
2,247
1,479
267
1,781
1,842
2,390
1,842
4,590
9,051
93

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 Delaware 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.





¹ Ten of 12 sentinel providers reported.

² 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.

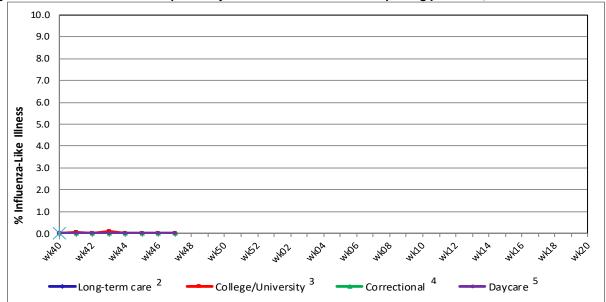


Figure 3. Influenza-like illness reported by influenza surveillance ILI reporting partners¹, Delaware 2018-19

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

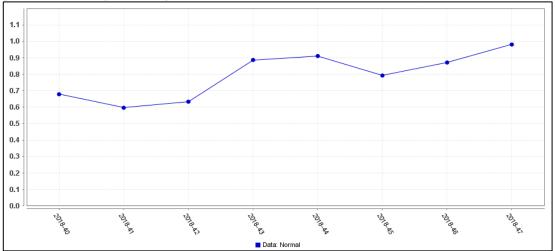
 2 % ILI= percentage of residents with ILI symptoms. Six long-term care facilities reported.

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

⁴ % 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,



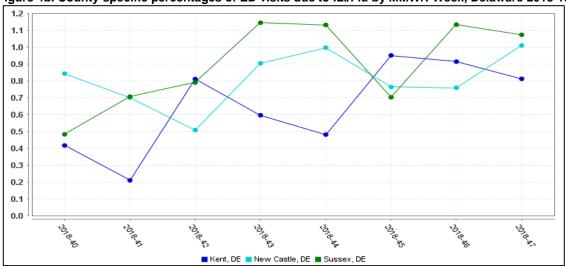


Figure 4b. County-specific percentages of ED visits due to ILI/Flu by MMWR Week, Delaware 2018-19

Summary of International Influenza Activity

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

In the temperate zone of the northern hemisphere influenza activity started to increase although overall influenza activity remained low.

influenza activity began to increase in the United States and Canada, with influenza A(H1N1)pdm09 and B co-circulating.

In México, increased influenza and SARI activity was reported with influenza A(H1N1)pdm09 and B co-circulating.

In the Caribbean, influenza virus activity increased, and higher RSV activity was reported throughout most of the sub-region.

In Central America, epidemiologic 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 in low numbers.

Increased influenza detections were reported in some countries of South-East Asia and Central America

In the temperate zones of the southern hemisphere, influenza activity returned to inter-seasonal levels.

Reference: World Health Organization (WHO), 2017. Influenza Update number 329 (11/26/2018). Retrieved November 27, 2018, from http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/ 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.