

Delaware Weekly Influenza Report MMWR Week 42 (October 13- October 19, 2019) Delaware Division of Public Health

National Influenza Synopsis 2019-2020:

National data are updated Friday of each week. Please visit http://www.cdc.gov/flu/weekly/ for the most current information. Geographic spread of influenza during MMWR Week 42 (October 13- October 19, 2019) was reported as follows:

- No Activity was reported in one state (Rhode Island)
- Sporadic Influenza Activity was reported in District of Columbia, Puerto Rico, the U.S. Virgin Islands and 40 states (Alabama, Alaska, Arkansas, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Maine, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, South Dakota, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming).
- Local Influenza Activity in six states (Arizona, California, Kentucky, Mississippi, South Carolina, and Tennessee).
- Regional Influenza Activity was reported in one state (Louisiana)
- Widespread Activity was reported in one state (Maryland)
- Guam and one state (Nevada) did not report.

Summary of International Influenza Activity:

- In the temperate zones of the southern hemisphere, influenza activity was low in most countries, and appeared to decrease in Chile after a second wave of influenza activity of predominately B viruses.
- In the Caribbean, and tropical South American countries, influenza activity was low overall. In Central American countries, influenza activity increased in El Salvador and Nicaragua.
- In tropical Africa, influenza activity was low across reporting countries except for some countries in Western Africa.
- In Southern Asia, influenza activity was low across reporting countries except in Bhutan where influenza activity continued to be reported above alert threshold.
- In South East Asia, influenza activity was low in most reporting countries but appeared to increase in Lao PDR.
- In the temperate zone of the northern hemisphere, influenza activity remained at inter-seasonal levels in most countries. Influenza season appeared to have started across the countries of the Arabian Peninsula.
- Worldwide, seasonal influenza A viruses continued to account for the majority of detections, though the proportion of influenza B viruses increased in recent weeks.

Reference: World Health Organization (WHO), 2017. Influenza Update number 352 (10/14/2019). Retrieved October 18, 2019, from

http://www.who.int/influenza/surveillance monitoring/updates/latest update GIP surveillance/en/

Reports are updated biweekly.

Delaware Influenza Surveillance 2019-2020:

During MMWR Week 42, there were five laboratory-confirmed cases of influenza reported among Delaware Residents. Reports of influenza-like-illness (ILI) received from participating providers, facilities, and institutions in Delaware show ILI is 0.00% compared to Delaware's 2019-2020 baseline of 1.9%. Nationally, 1.7% of visits to a healthcare provider were for ILI, which an increase from last week but still below the 2019-2020 national baseline of 2.4%

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.

CDC Definitions:

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.

¹2018-2019 Region 3 (DE, DC, MD, PA, VA and WV) Baseline = 1.9%.

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 does not apply to states with ≤ four counties.

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Table 1A: Comparison of the 2018-2019 MMWR Week 42 and the 2019-2020 MMWR Week 42 Confirmed¹ Influenza Cases Reported Statewide by County and Age Group

			2018-20	119 Influenza Se		2019-2020 Influenza Season					
Confirmed Flu Cases by Age Group		Week 42	Total Counts	County Percentage (%)	YTD ²	YTD County Percentage (%)	Week 42	Total Counts	County Percentage (%)	YTD ²	YTD County Percentage (%)
	0-4	1			15		1	5		11	
lë	5-24	2					1				
STATEWIDE	25-49	0	5				1				
	50-64	2					1				
.,	65+	0					1				
	0-4	0	0	0	3	20	1	4	80	7	63.64
New Castle County	5-24	0					1				
	25-49	0					0				
	50-64	0					1				
	65+	0					1				
Kent County	0-4	0	4	80	9	60	0	0	0	1	9.09
	5-24	2					0				
	25-49	0					0				
× ပိ	50-64	2					0				
	65+	0					0				
	0-4	1	1	20	3	20	0	1	20	3	27.27
Sussex	5-24	0					0				
Sour	25-49	0					1				
,, 0	50-64	0					0				
	65+	0					0				

¹Influenza Cases are confirmed via PCR testing

²YTD stands for "Year to Date" and represents the cumulative number of cases through the current MMWR Week being assessed for the 2018-19 and 2019-20 influenza seasons, respectively.

Table 1B: Comparison of the 2018-2019 MMWR Week 42 and the 2019-2020 MMWR Week 42 Confirmed¹ Influenza Cases Reported Statewide by County and subtype/lineage

Confirmed Flu Cases by Subtype / Lineage		2018-2019 Inf	luenza Season	2019-2020 Influenza Season			
		Week 42	Total Counts	Week 42	Total Counts		
	A / 2009 H1N1	1		0			
	A / 2012 H3N2	0		1			
DE	A / no subtype	2		0			
STATEWIDE	Co-infection	0	5	0	5		
ſAŢ	B / Yamagata	2		0			
S	B / Victoria	0		2			
	B / no lineage	0		2			
	A / 2009 H1N1	1		0			
	A / 2012 H3N2	0		1			
tle '	A / no subtype	0		0			
New Castle County	Co-infection	0	0	0	4		
န္	B / Yamagata	0		0			
	B / Victoria	0		2			
	B / no lineage	0		1			
	A / 2009 H1N1	0		0			
	A / 2012 H3N2	0		0			
# #	A / no subtype	2		0			
Kent	Co-infection	0	4	0	0		
	B / Yamagata	2		0			
	B / Victoria	0		0			
	B / no lineage	0		0			
	A / 2009 H1N1	1		0			
	A / 2012 H3N2	0		0			
ex nty	A / no subtype	0		0			
Sussex	Co-infection	0	1	0	1		
0	B / Yamagata	0		0			
	B / Victoria	0		0			
	B/ no lineage	0		1			

¹Influenza Cases are confirmed via PCR testing

Confirmed Cases of Influenza by Type and Subtype/Lineage, Delaware 2019-2020 Influenza Season

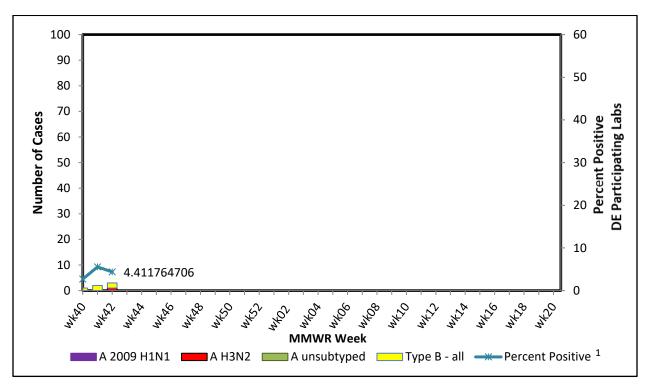


Figure 1: During MMWR Week 42 for the 2019-2020 Influenza season, there were three confirmed case of Influenza reported by ILINet providers. Two were identified as subtype B/Victoria and one was identified as subtype A/H3N2. The percent positive for samples tested was 4.41%.

¹Percent Positive represents the amount of specimens that tested positive for influenza out of all samples tested for that MMWR week.

Table 2: Comparison of the 2018-2019 MMWR Week 42 and the 2019-2020 MMWR Week 42 Influenza-related Hospitalizations and Deaths Statewide

Hospitalizations and Deaths due	2018-2018 Influenza Season				2019-2020 Influenza Season			
to Influenza	Week 42	YTD Totals ¹	Percentage of Confirmed Cases (%) ²	YTD Percentage of Confirmed Cases (%) ³	Week 42	YTD Totals ¹	Percentage of Confirmed Case(%) ²	YTD Percentage of Confirmed Cases (%) ³
Hospitalizations	2	3	40	20	0	0	0	0
Deaths	0	0	0	0	0	0	0	0

¹YTD stands for "Year to Date" and represents the cumulative number of cases through the current MMWR Week that were hospitalized or died

Table 3: Annual Number of Influenza Cases Reported by Flu Season, Delaware 2004-05 through 2019-

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	6,387
2019 – 2020 (YTD)	11

²Percentage of cases confirmed during the single MMWR Week

³Percentage of cases for the cumulative count of confirmed cases through the influenza season to the current MMWR Week.

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.

Percentage of Visits for Influenza-Line Illness Reported by Sentinel Providers¹ participating in the U.S. Outpatient ILI Surveillance Network (ILINet), Delaware 2019-2020

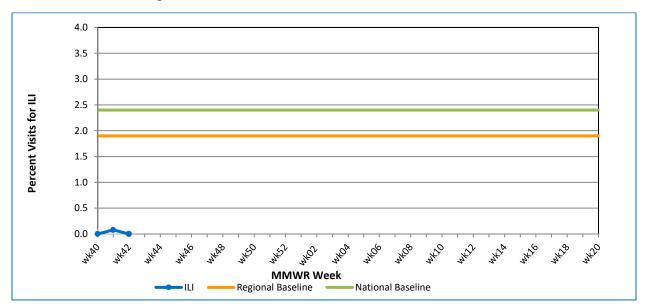


Figure 2: Delaware's regional baseline² for healthcare visits relating to ILI symptoms in the 2019-2020 Influenza Season is 1.9% and the national baseline³ is 2.4%. In MMWR Week 42, the amount of ILI related visits reported by sentinel providers decreased from 0.08% to 0.00%.

¹Five of twelve sentinel providers reported

²The regional baseline is calculated by the CDC using non-influenza weeks from the previous three influenza seasons. Delaware is in Region 3, which also includes DC, MD, PA, VA, and WV.

³The National baseline is calculated by the CDC using non-influenza weeks from the previous three influenza seasons.

Percentage of Emergency Department (ED) Visits Due to ILI/Influenza by MMWR Week, Delaware 2019-2020

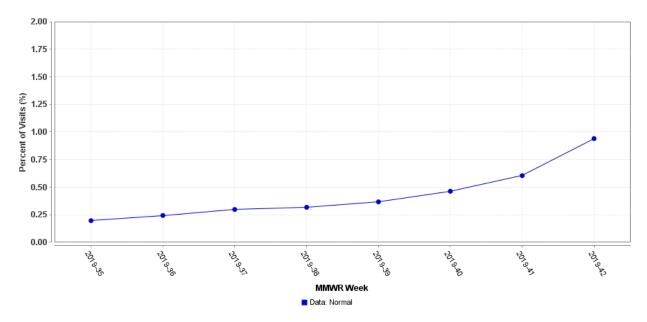


Figure 3A: Syndromic data collected from ESSENCE shows that in the weeks preceding the start of the 2019-2020 Influenza season and through MMWR Week 42, there was an increase in the percentage of ED visits due to ILI/Flu symptoms.

County-Specific Percentage of ED visits Due to ILI/Influenza by MMRW Week, Delaware 2019-2020

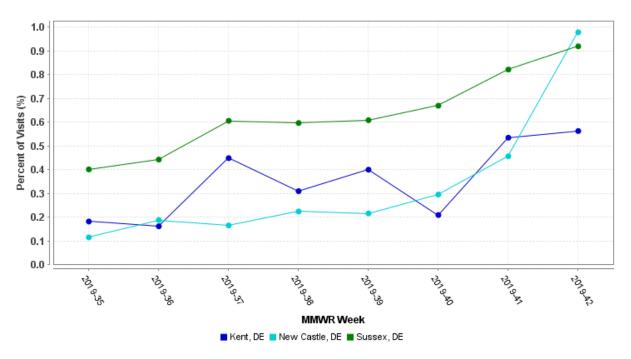


Figure 3B: Syndromic data collected from ESSENCE shows that in the weeks preceding the start of the 2019-2020 Influenza season and through MMWR Week 42, there was an increase in the percentage of ED visits due to ILI/Flu symptoms for each Delaware County. The largest increase was observed in New Castle County for MMWR Week 42.

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 http://dhss.delaware.gov/dhss/dph/fluclinics.html.
- For questions on Delaware's weekly flu report, call the DPH Office of Infectious Disease Epidemiology at 302-744-4990.
- For questions regarding influenza vaccination, please call 302-744-1060.