

Delaware Weekly Influenza Report MMWR Week 51 (December 19, 2021-December 25, 2021)

Delaware Division of Public Health

National Influenza Synopsis 2021-2022:

National influenza data is updated Friday of each week. Please visit https://www.cdc.gov/flu/weekly/ for the most current information. The percentage of national respiratory specimens testing positive was at 6.2% this week. No new influenza-associated pediatric deaths were reported to the CDC this week. The total for the 2021-2022 season is two influenza associated pediatric deaths. This week, National Outpatient ILI data showed 12 jurisdictions experienced moderate influenza-like-illness activity and 19 jurisdictions experienced high or very high influenza-like-illness activity.





A Weekly Influenza Surveillance Report Prepared by the Influenza Division

Outpatient Respiratory Illness Activity Map Determined by Data Reported to ILINet

This system monitors visits for respiratory iliness that includes fever plus a cough or sore throat, also referred to as ILI, not laboratory confirmed influenza and may capture patient visits due to other respiratory pathogens that cause similar symptoms.

2021-22 Influenza Season Week 51 ending Dec 25, 2021



- does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.
- *Data collected in ILINet may disproportionately represent certain populations within a state, and therefore may not accurately depict the ful picture of influenza activity for the whole state.
- *Data displayed in this map are based on data collected in ILINet, whereas the State and Territorial flu activity map are based on reports from
- state and territorial epidemiologists. The data presented in this map is preliminary and may change as more data is received.

 "Differences in the data presented by CDC and state health departments likely represent differing levels of data completeness with data presented by the state likely being the more complete.

Summary of International Influenza Activity:

- The current influenza surveillance data should be interpreted with caution as the ongoing COVID-19 pandemic has influenced to varying
 extents health seeking behaviors, staffing/routines in sentinel sites, as well as testing priorities and capacities in Member States. The various
 hygiene and physical distancing measures implemented by Member States to reduce SARS-CoV-2 virus transmission have likely played a
 role in reducing influenza virus transmission.
- Globally, influenza activity continued to increase but remains well below levels observed in previous seasons.
- In the temperate zones of the northern hemisphere, influenza activity remained at inter-seasonal levels. Both influenza A and B were detected. Detections of respiratory syncytial virus (RSV) were higher than expected in Canada.
- In the Caribbean and Central American countries, sporadic influenza A and B virus detections, as well as elevated RSV activity were reported in some countries.
- In tropical South America, Influenza A(H3N2) detections were reported from Brazil. RSV activity continued to be elevated in some countries.
- In tropical Africa, influenza A predominated with some detections of influenza B. The number of influenza detections remained within inter-seasonal levels.
- In Southern Asia, the number of influenza virus detections reported continued on a decreasing trend, with detections of both influenza A
 and B viruses reported.
- In South-East Asia, no new influenza detections were reported.
- In the temperate zones of the southern hemisphere, influenza activity remained low in Oceania and temperate South America but was increased in South Africa. RSV activity remained elevated in some countries.

Influenza Surveillance 2021-2022:

During MMWR Week 51, there were **98** 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 the ILI rate is at 1.86% which is below Delaware's 2021-2022 baseline rate of 2.0%. Nationally, 3.8% of visits to a healthcare provider were for ILI, which is above the 2021-2022 national baseline of 2.5%.

Past Influenza Surveillance from 2020-2021:

Last Season, during MMWR Week 51, there were 2 laboratory confirmed cases of influenza among Delaware Residents. The ILI rate was at 0.71% compared to Delaware's 2020-2021 baseline of 1.9%. The rate nationally for the 2020-2021 season, MMWR Week 51, was 1.6% of visits to a healthcare provider were for ILI compared to the 2020-2021 national baseline of 2.6%.

Past Influenza Surveillance from 2019-2020:

The previous season, during MMWR Week 51, there were 233 laboratory confirmed cases of influenza among Delaware Residents. The ILI rate was 1.38% compared to Delaware's 2019-2020 baseline of 1.9%. The rate nationally for the 2019-2020 season, MMWR Week 51, was 5.1% of visits to a healthcare provider were for ILI compared to the 2019-2020 national baseline of 2.4%.

Level of Influenza Activity in Delaware, MMWR Week 51

WIDESPREAD

CDC Definitions:

No Activity: No laboratory-confirmed cases² 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.

Influenza-like illness (ILI) is defined as patients presenting with fever of 100° F or greater, cough and/or sore throat.

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 1: Comparison the MMWR Week 51 of the 2019-2020 Influenza Season, 2020-2021 Influenza Season, and current 2021-2022 Influenza Season Confirmed¹ Influenza Cases Reported Statewide by County

	20	19-2020 Influenza S	2020-202	21 Influenza	Season	Current 2021-2022 Influenza Season ³			
Confirmed Flu Cases by County	Week 51	YTD²	YTD County Percentage (%)	Week 51	YTD ²	YTD County Percentage (%)	Week 51	YTD²	YTD County Percentage (%)
STATEWIDE	470	1083		2	7		98	471	
New Castle County	190	494	45.6%	1	3	43%	70	339	71.97%
Kent County	139	320	29.5%	1	3	43%	11	51	10.83%
Sussex County	26	269	24.8%	0	1	14%	17	81	17.20%

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 2020-21 and 2021-22 influenza seasons, respectively.

³ There may be technical discrepancies of reporting numbers week to week due to retroactive reporting or reclassification of cases.

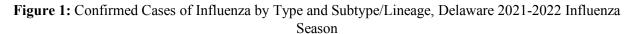
Table 2: Comparison of MMWR Week 51 of the 2019-2020 Influenza Season, 2020-2021 Influenza Season, and current 2021-2022 Influenza Season Confirmed¹ Influenza Cases Reported Statewide by Age

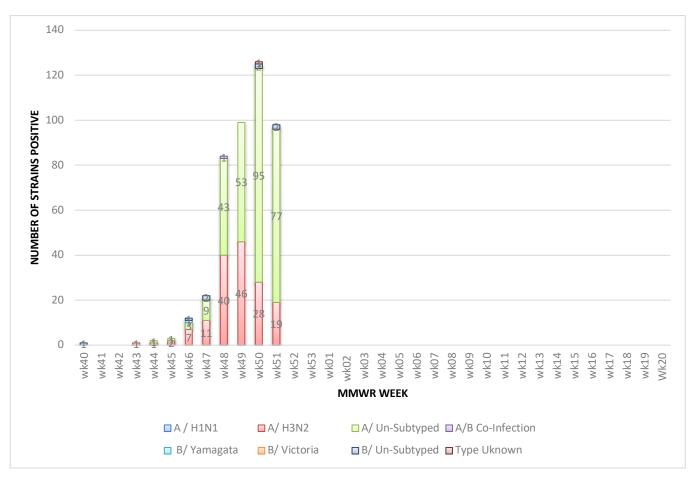
		2019-2020 Influenza Season			2020-202	21 Influenza So	Current 2021-2022 Influenza Season			
Confirmed Flu Cases by Age Group*		Week 51	Total Count	YTD²	Week 51	Total Count	YTD²	Week 51	Total Count	YTD²
	0-4 years	131			-	_	7	22	98	471
	5-11 years	92	470		-			14		
IDE	12-17 years	92			-			-		
STATEWIDE	18-34 years	49		1083	-	2		31		
ST	35-49 years	50			-			-		
	50-64 years	33			-			-		
	65+years	23			-			14		

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 2020-21 and 2021-22 influenza seasons, respectively.

^{*}Cell counts with less than 10 cases are suppressed for smaller age groups. Due to suppression guidelines, stratification by age group, within each county, is not shown in the table above.





During MMWR Week 51 for the 2021-2022 Delaware Influenza season, there were **98** confirmed cases of Influenza. Currently in this season the predominate strain of influenza in Delaware is Influenza A (unsubtyped) followed by Influenza A(H3N2).

Table 3: Comparison of the 2019-2020 MMWR Week 51 and the 2010-2022 MMWR Week 51 Influenza-related Hospitalizations and Deaths Statewide

Hospitalizations and Deaths due	201	2019-2020 Influenza Season			2020-2021 Influenza Season				Current 2021-2022 influenza Season			
to Influenza	Week 51	YTD Totals ¹	Percentage of Confirmed Cases (%) ²	YTD Percentage of Confirmed Cases (%) ³	Week 51	YTD Totals ¹	Percentage of Confirmed Case (%) ²	YTD Percentage of Confirmed Cases (%) ³	Week 51	YTD Totals ¹	Percentage of Confirmed Cases (%) ²	YTD Percentage of Confirmed Cases (%) ³
Hospitalizations	31	65	6.5%	6%	0	1	0	14.3%	4	14	4.08%	2.97%
Deaths	0	0	0	0	1	1	50%	14.3%	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

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.

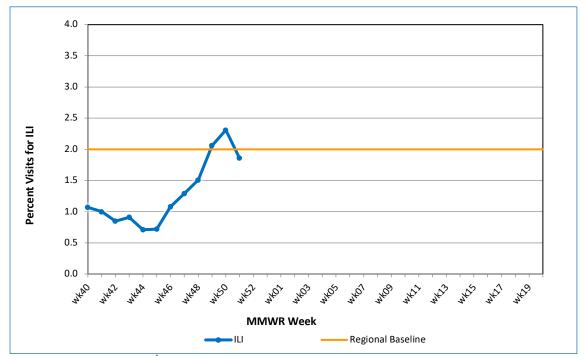
Table 4: Annual Number of Influenza Cases Reported by Flu Season, Delaware 2004-05 through 2021-22

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	1,843		
2014 - 2015	2,390		
2015 - 2016	1,843		
2016 - 2017	4,590		
2017 - 2018	9,050		
2018 - 2019	6,387		
2019 - 2020	7,075		
2020-2021	26		
2021-2022 (YTD)	471		

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.

Figure 2: Percentage of Visits for Influenza-Like Illness Reported by Sentinel Providers¹ participating in the U.S. Outpatient ILI Surveillance Network (ILINet), Delaware 2021-2022

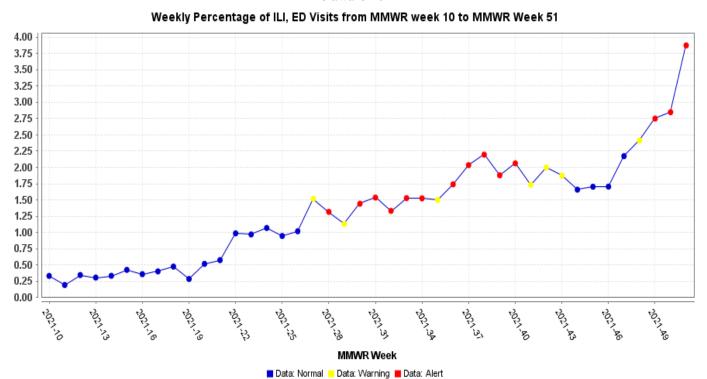


Delaware's regional baseline¹ for healthcare visits relating to ILI symptoms in the 2021-2022 Influenza Season is 2.0 % and the national baseline² is 2.5%. In MMWR Week 51, the amount of ILI related visits reported by sentinel providers in Delaware increased to 1.86% and is below regional and national baselines.

¹The 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.

²The National baseline is calculated by the CDC using non-influenza weeks from the previous three influenza seasons.

Figure 3: Percentage of Emergency Care Visits Due to Influenza-Like Illness MMWR Week 1-Week 51, Delaware 2021



Syndromic data collected from ESSENCE shows that from Week 10 through Week 51, the percentage of ED visits due to ILI symptoms has been increasing from past weeks and is significantly higher than last year's season. The percentage of ED visits for ILI for Week 51 was highest in Sussex County (4.79%), followed by New Castle County (3.70%), and Kent County (3.36%).

Additional Respiratory Virus Surveillance

Table 5: Current 2021-2022 Respiratory syncytial virus (RSV) Season Confirmed¹ Influenza Cases Reported Statewide by County

Confirmed RSV	Cur	rent 2021-2022 Respiratory syncyti	ial virus (RSV) Cases
Cases by County ³	Week 51	YTD²	YTD County Percentage (%)
STATEWIDE	0	23	-
New Castle County	0	2	8.70%
Kent County	0	20	86.95%
Sussex	0	1	4.35%

¹Respiratory syncytial virus, (RSV) Cases are confirmed via PCR testing

Table 6: Current 2021-2022 Respiratory syncytial virus (RSV) Confirmed¹ Influenza Cases Reported Statewide by Age

		Current 2021-2022 Respiratory syncytial virus (RSV) Cases						
	RSV Cases by Age Group*	YTD by Age Group	Total Count Week 51	YTD ²				
	0-4 years	14						
	5-11 years	-						
MDE	12-17 years	-		23				
STATEWIDE	18-34 years	-	0	23				
ST/	35-49 years	-						
	60-64 years	-						
	65+years	-						

¹Respiratory syncytial virus, (RSV) Cases are confirmed via PCR testing

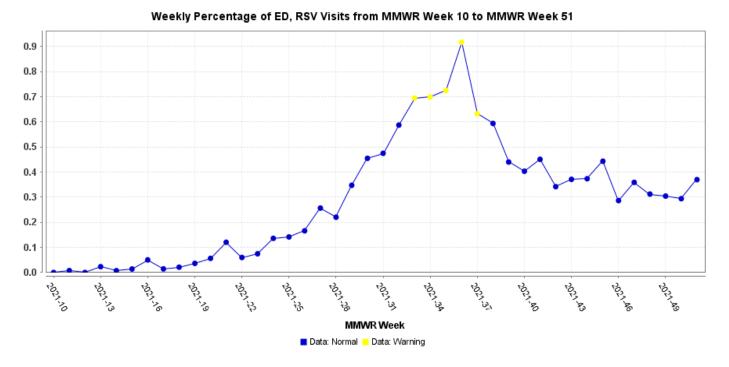
²YTD stands for "Year to Date" and represents the cumulative number of cases through the current MMWR Week being assessed for the 2020-21 and 2021-22 ¹Respiratory syncytial virus, respectively.

³ There may be technical discrepancies of reporting numbers week to week due to retroactive reporting or reclassification of cases.

²YTD stands for "Year to Date" and represents the cumulative number of cases through the current MMWR Week being assessed for the 2020-21 and 2021-22 Respiratory syncytial virus seasons, respectively.

^{*}Cell counts with less than 10 cases are suppressed. Due to suppression guidelines, stratification by age group, within each county, is not shown in the table above.

Figure 4: Percentage of Emergency Care Visits Due to Respiratory Syncytial Virus RSV MMWR Week 1 to Week 51, Delaware 2021



Syndromic data collected from ESSENCE shows that from Week 10 through Week 51, the percentage of ED visits due to RSV-related ED* visits has decreased from past weeks. The percentage of ED visits for RSV for Week 49 was highest in Kent County (0.62%), followed by New Castle County (0.53%), and Sussex County (0.13%).

^{*}The syndrome is defined a combination of chief complaints and discharge diagnoses

NOTE: Data provided do not reflect the total number of individuals who have been infected with the Influenza virus or Respiratory Syncytial 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 http://dhss.delaware.gov/dhss/dph/dpc/immunize-flu.html.
- For more information on Respiratory syncytial virus (RSV) visit: https://www.cdc.gov/rsv/index.html
- 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.