



Delaware Weekly Influenza Report

MMWR Week 1 (January 2, 2022-January 8, 2022)

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 2.2% this week. One new influenza-associated pediatric death was reported to the CDC this week. The total for the 2021-2022 season is three influenza associated pediatric deaths. This week, National Outpatient ILI data showed 14 jurisdictions experienced moderate influenza-like-illness activity and 21 jurisdictions experienced high or very high influenza-like-illness activity.

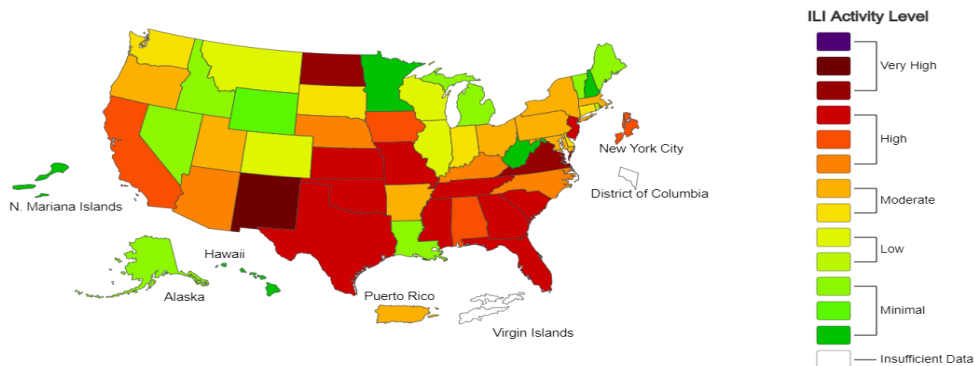


A Weekly Influenza Surveillance Report Prepared by the Influenza Division

Outpatient Respiratory Illness Activity Map Determined by Data Reported to ILINet

This system monitors visits for respiratory illness 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 1 ending Jan 08, 2022



*This map uses the proportion of outpatient visits to healthcare providers for influenza-like illness to measure the ILI activity level within a state. It 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 full 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. 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 remains low but continued to increase especially in the temperate zones of the northern hemisphere. In several countries' influenza activity reached the levels seen this time of year in pre-COVID-19 period.
- In the temperate zones of the northern hemisphere, influenza activity although still low appeared to increase in some countries with detections of mainly influenza A(H3N2) viruses and in China B-Victoria lineage viruses.
- In North America, influenza virus detections of predominately A(H3N2) among the subtyped increased and hospitalizations are increasing but remains low overall. RSV activity decreased in the USA and Canada.
- In Europe, influenza activity continued to increase. Influenza A(H3N2) predominated.
- In East Asia, influenza activity continued on an increasing trend in China, while influenza illness indicators and activity remained low in the rest of the subregion. Influenza B-Victoria lineage viruses predominated.
- In the Caribbean and Central American countries, influenza A(H3N2) and B virus detections increased in some countries.
- In tropical South America, influenza A(H3N2) detections increased overall. Severe acute respiratory infection (SARI) levels were reported at extraordinary levels in Bolivia (Plurinational State).
- In tropical Africa, overall influenza activity continued on a decreasing trend, with both influenza A and B detected.
- In Southern Asia, influenza virus detections of predominately influenza A(H3N2) increased overall, although decreasing in a few countries.
- In South-East Asia, sporadic influenza detections were reported in the Philippines.
- In the temperate zones of the southern hemisphere, influenza activity remained low overall, although increased detections of influenza A(H3N2) were reported in temperate South America.

Influenza Surveillance 2021-2022:

During MMWR Week 1, there were **28** 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 2.5% which is **above** Delaware’s 2021-2022 baseline rate of 2.0%. Nationally, 4.3% 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 1, there was 0 laboratory confirmed cases of influenza among Delaware Residents. The ILI rate was at 0.68% compared to Delaware’s 2020-2021 baseline of 1.9%. The rate nationally for the 2020-2021 season, MMWR Week 1, was 1.7% 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 1, there were 471 laboratory confirmed cases of influenza among Delaware Residents. The ILI rate was 1.5% compared to Delaware’s 2019-2020 baseline of 1.9%. The rate nationally for the 2019-2020 season, MMWR Week 1, was 5.8% 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 1

WIDESPREAD
<p>CDC Definitions:</p> <p>No Activity: No laboratory-confirmed cases² of influenza and no reported increase in the number of cases of ILI.</p> <p>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.</p> <p>Local: Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in a single region of the state.</p> <p>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</p> <p>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.</p> <p><i>Influenza-like illness (ILI) is defined as patients presenting with fever of 100° F or greater, cough and/or sore throat.</i></p>

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 1 of the 2019-2020 Influenza Season, 2020-2021 Influenza Season, and current 2021-2022 Influenza Season Confirmed¹ Influenza Cases Reported Statewide by County

Confirmed Flu Cases by County	2019-2020 Influenza Season			2020-2021 Influenza Season			Current 2021-2022 Influenza Season ³		
	Week 1	YTD ²	YTD County Percentage (%)	Week 1	YTD ²	YTD County Percentage (%)	Week 1	YTD ²	YTD County Percentage (%)
STATEWIDE	366	1920	--	0	7	--	28	579	--
New Castle County	191	897	46.7%	0	3	43%	16	405	69.95%
Kent County	78	512	26.7%	0	3	43%	6	73	12.61%
Sussex County	145	511	26.6%	0	1	14%	6	101	17.44%

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.

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

Table 2: Comparison of MMWR Week 1 of the 2019-2020 Influenza Season, 2020-2021 Influenza Season, and current 2021-2022 Influenza Season Confirmed¹ Influenza Cases Reported Statewide by Age

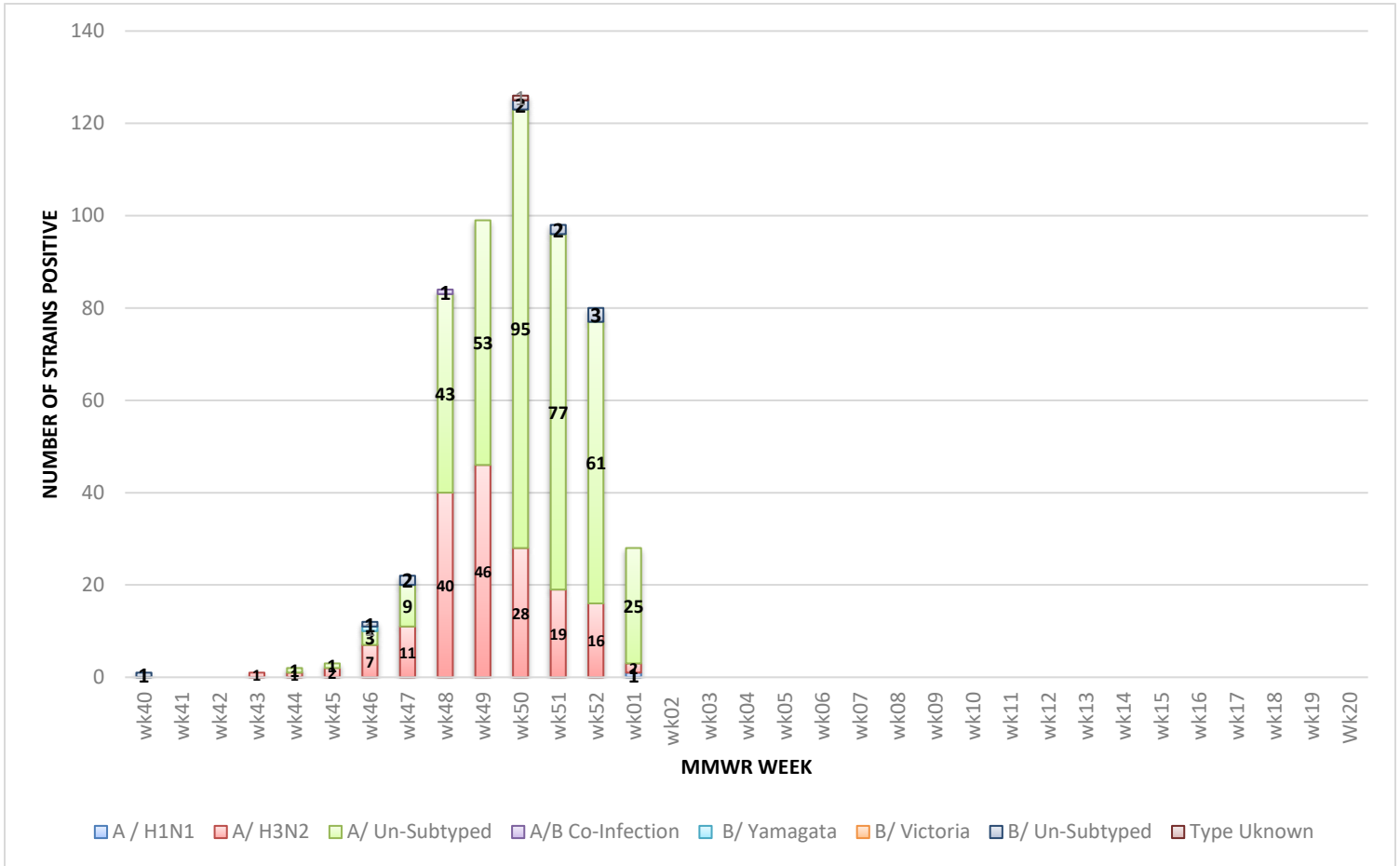
Confirmed Flu Cases by Age Group*		2019-2020 Influenza Season			2020-2021 Influenza Season			Current 2021-2022 Influenza Season		
		Week 1	Total Count	YTD ²	Week 1	Total Count	YTD ²	Week 1	Total Count	YTD ²
STATEWIDE	0-4 years	93	366	1920	-	0	7	-	28	579
	5-11 years	30			-			-		
	12-17 years	29			-			-		
	18-34 years	-			-			-		
	35-49 years	-			-			-		
	50-64 years	14			-			-		
	65+years	61			-			-		

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.

Figure 1: Confirmed Cases of Influenza by Type and Subtype/Lineage, Delaware 2021-2022 Influenza Season



During MMWR Week 1 for the 2021-2022 Delaware Influenza season, there were **28** confirmed cases of Influenza. Currently in this season the predominate strain of influenza in Delaware is Influenza A (un-subtyped) followed by Influenza A(H3N2).

Table 3: Comparison of the 2019-2020 MMWR Week 1 and the 2010-2022 MMWR Week 1 Influenza-related Hospitalizations and Deaths Statewide

Hospitalizations and Deaths due to Influenza	2019-2020 Influenza Season				2020-2021 Influenza Season				Current 2021-2022 influenza Season			
	Week 1	YTD Totals ¹	Percentage of Confirmed Cases (%) ²	YTD Percentage of Confirmed Cases (%) ³	Week 1	YTD Totals ¹	Percentage of Confirmed Case (%) ²	YTD Percentage of Confirmed Cases (%) ³	Week 1	YTD Totals ¹	Percentage of Confirmed Cases (%) ²	YTD Percentage of Confirmed Cases (%) ³
Hospitalizations	30	95	6.3%	6.1%	0	1	0	14.3%	2	27	7.14%	4.66%
Deaths	0	0	0	0	0	1	0	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.

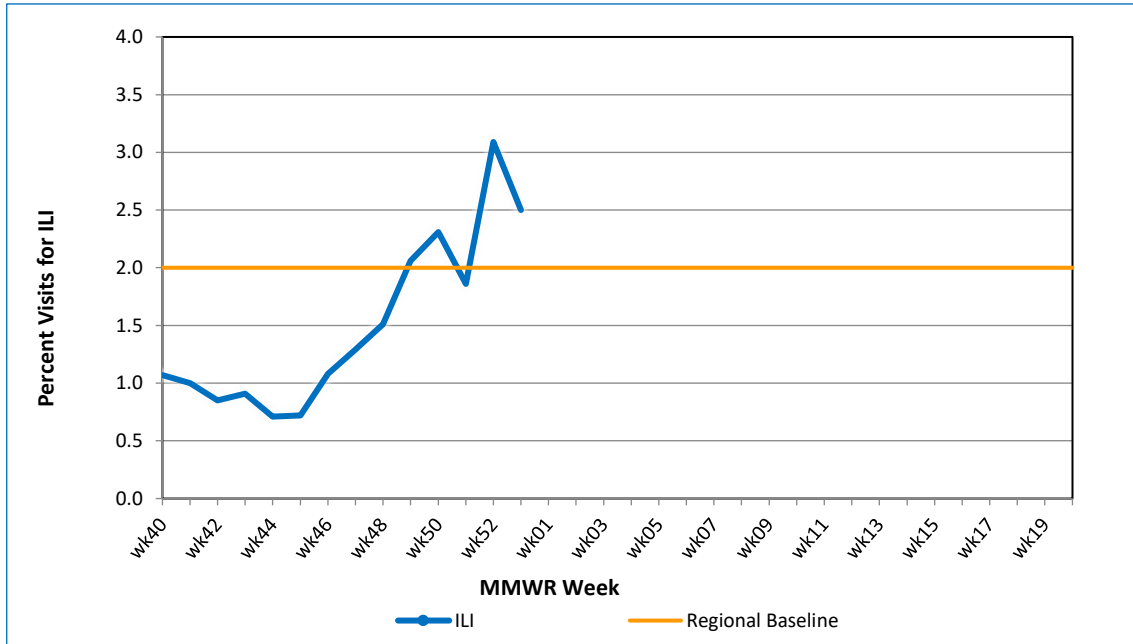
Table 4: Annual Number of Influenza Cases Reported by Flu Season, Delaware 2004-05 through 2021-22

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)	579

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

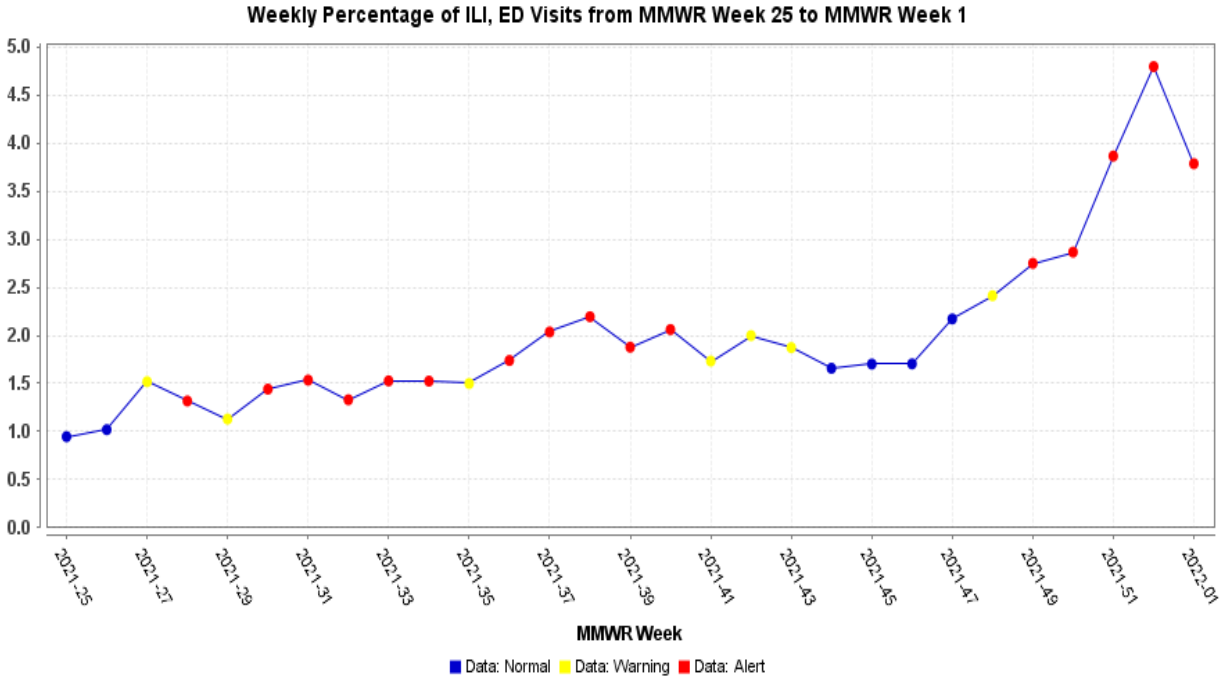


Delaware's regional baseline¹ for healthcare visits relating to ILI symptoms in the 2021-2022 Influenza Season is 2.0 % and the national baseline² is 2.5%. In MMWR Week 1, the amount of ILI related visits reported by sentinel providers in Delaware is at 2.5% and is **above** regional and national baselines.

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 25-Week 1, Delaware 2021-2022



Syndromic data collected from ESSENCE shows that from Week 10 through Week 1, the percentage of ED visits due to ILI symptoms has decreased from past weeks and is significantly higher than last year’s season. The percentage of ED visits for ILI for Week 1 was highest in Sussex County (6.79%), followed by New Castle County (3.36%), and Kent County (1.61%).

Additional Respiratory Virus Surveillance

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

Confirmed RSV Cases by County ³	Current 2021-2022 Respiratory syncytial virus (RSV) Cases		
	Week 1	YTD ²	YTD County Percentage (%)
STATEWIDE	0	23	-
New Castle County	0	2	8.70%
Kent County	0	20	86.95%
Sussex County	0	1	4.35%

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 2021-22¹Respiratory syncytial virus, respectively.

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

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

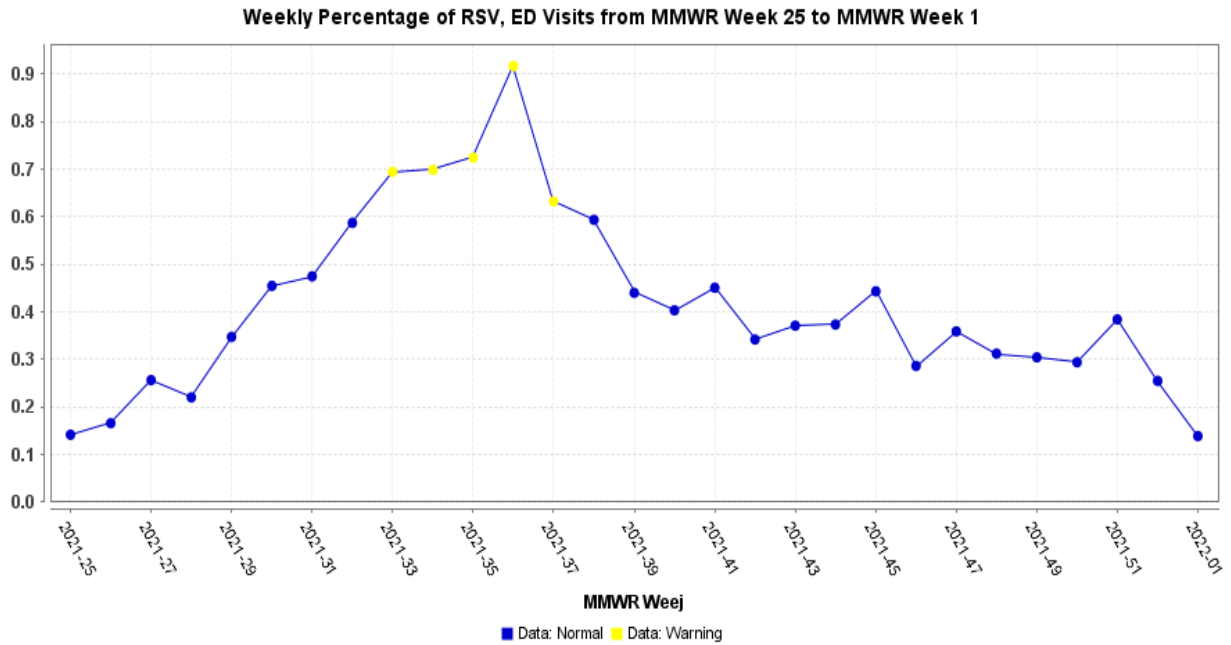
RSV Cases by Age Group*	Current 2021-2022 Respiratory syncytial virus (RSV) Cases		
	YTD by Age Group	Total Count Week 1	YTD ²
STATEWIDE	14	0	23
0-4 years	14		
5-11 years	-		
12-17 years	-		
18-34 years	-		
35-49 years	-		
60-64 years	-		
65+years	-		

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 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 25 to Week 1, Delaware 2021-2022



Syndromic data collected from ESSENCE shows that from Week 25 through Week 1, 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 1 was highest in New Castle County (0.26%), followed by Kent County (0.19%), and Sussex County (0.03%).

*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 flu.delaware.gov 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.