

## Texas Department of State Health Services



# Texas Influenza Surveillance Report 2020-2021 Season/2021 MMWR Week 20

(May16, 2021 – May 22, 2021) Report produced on 5/28/2021

#### Summary

\*Please note, some aspects of influenza surveillance may be affected by current COVID-19 response activities. For information about COVID-19 in Texas, please visit www.dshs.texas.gov/coronavirus.

Influenza activity is low across the state of Texas. Compared to the previous week, the percentage of specimens testing positive for influenza reported by hospital laboratories has decreased. The percentage of patient visits due to influenza-like illness (ILI) has increased. No influenza-associated pediatric deaths were reported. One influenza-associated institutional outbreak was reported.

Table 1: Summary of Texas Influenza (Flu) and Influenza-like Illness (ILI) Activity for the Current Week

Change from Previous Week	Current Week	Previous Week <sup>†</sup>	Page of Report
No Change	Minimal	Minimal	
▼0.11%	0.12%	0.23%	1
▲0.14%	1.71%	1.57%	4
No change	1	1	7
▲2	3	1	7
No cases reported	0	0	7
<b>▲</b> 1	1	0	7
No change	0	0	7
	Previous Week  No Change  ▼ 0.11%  ▲ 0.14%  No change  ▲ 2  No cases reported  ▲ 1	Previous Week         Week           No Change         Minimal           ▼ 0.11%         0.12%           ▲ 0.14%         1.71%           No change         1           ▲ 2         3           No cases reported         0           ▲ 1         1	Previous Week         Week         Week†           No Change         Minimal         Minimal           ▼ 0.11%         0.12%         0.23%           ▲ 0.14%         1.71%         1.57%           No change         1         1           ▲ 2         3         1           No cases reported         0         0           ▲ 1         1         0

## **Laboratory Results**

Influenza

\*In response to the COVID-19, influenza testing at Texas Public Health Laboratories has significantly decreased to increase capacity for SARS-CoV-2 testing. Please note, this will affect data in Table 3 and Figure 2.

Hospital laboratories across Texas voluntarily report influenza tests (antigen, culture, and PCR) to the National Respiratory and Enteric Virus Surveillance System (NREVSS). Providers throughout Texas also submit specimens for influenza testing (PCR) to Texas public health laboratories, including the Texas Department of State Health Services (DSHS) state laboratory in Austin and the nine Texas Laboratory Response Network (LRN) laboratories. The results reported by Texas NREVSS participants and public health laboratories for the current week are summarized in the two tables below. Additional influenza test results (rapid tests, culture, PCR) and ILI activity were reported from providers and public health departments throughout the state (see county map at the end of this report).

Table 2: Influenza Testing Performed by Texas Hospital Laboratories for the Current Week

	Week 20	Season to Date Week Ending: May 22, 2021
Number of labs reporting flu tests	15	
Number of specimens tested	1650	79453
Number of positive specimens (%) <sup>†</sup>	2 (0.12%)	858 (1.08%)
Percentage of total tests that were antigen detection tests	11.03%	
Positive specimens by type/subtype [n	(%)]	
Influenza A	0 (0.00%)	204 (23.78%)
Subtyping performed	0 (0.00%)	7 (3.43%)
A (H1N1)	0 (0.00%)	3 (42.86%)
A (H3N2)	0 (0.00%)	4 (57.14%)
Subtyping not performed	0 (0.00%)	197 (96.57%)
Influenza B	2 (100.00%)	654 (76.22%)

Figure 1: Number and Percentage of Tests (Antigen, Culture, PCR) Positive for Influenza by Type and Subtype Reported by Texas Hospital Laboratories, 2020-2021 Season

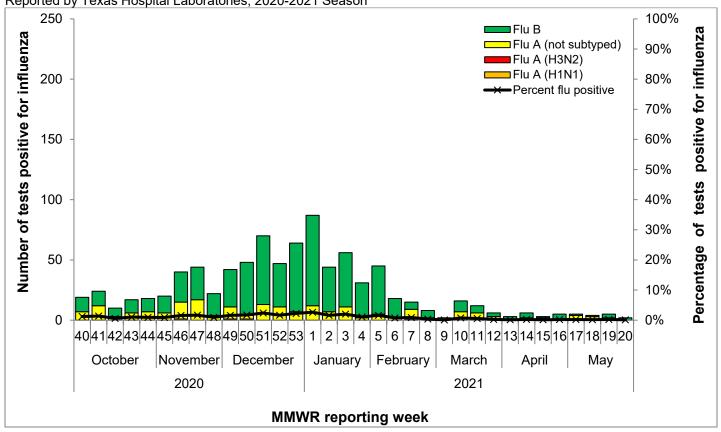


Table 3: Influenza Testing Performed by Texas Public Health Laboratories for the Current Week

	Week 20	Season to Date Week Ending: May 22, 2021
Number of labs reporting flu tests	3	
Number of specimens tested	18	8458
Number of positive specimens (%) <sup>†</sup>	5 (27.78%)	5 (0.06%)
Positive specimens by type/subty	pe/lineage [n (%)]	
Influenza A	0 (0.00%)	0 (0.00%)
Subtyping performed	0 (0.00%)	0 (0.00%)
A (H1N1)	0 (0.00%)	0 (0.00%)
A (H3N2)	0 (0.00%)	0 (0.00%)
Subtyping not performed	0 (0.00%)	0 (0.00%)
Influenza B	5 (100.00%)	5 (100.00%)
Lineage testing performed	5 (100.00%)	5 (100.00%)
B/Victoria	5 (100.00%)	5 (100.00%)
B/Yamagata	0 (0.00%)	0 (0.00%)
Lineage testing not performed	0 (0.00%)	0 (0.00%)
Other	0 (0.00%)	0 (0.00%)

<sup>\*</sup>Other denotes specimens with coinfections (i.e. one specimen was positive for both influenza A (H1N1) and influenza A (H3N2))

Health Laboratories, 2020-2021 Season 120 Other\* ■Flu B (Victoria) ■Flu B (Yamagata) 100 ■ Flu B (lineage not determined) Number of tests positive for influenza □Flu A (not subtyped) ■Flu A (H3N2) 80 □ Flu A (H1N1) 60 40 20 0 40 41 42 43 44 45 46 47 48 49 50 51 52 53 1 2 3 5 | 6 | 7 | 8 9 10 11 12 13 14 15 16 17 18 19 20

January

MMWR reporting week

February

March

2021

April

May

Figure 2: Number of Tests (PCR) Positive for Influenza by Type, Subtype, and Lineage Reported by Texas Public

\*Other denotes specimens with coinfections (i.e. one specimen was positive for both influenza A (H1N1) and influenza A (H3N2))

December

November

2020

#### Other Respiratory Viruses

October

The NREVSS system collects information on a variety of respiratory viruses in addition to influenza including parainfluenza virus, respiratory syncytial virus (RSV), rhinovirus, human metapneumovirus (HMPV), seasonal coronavirus, and respiratory adenovirus. The results for the current week are summarized below.

Table 4: Non-Influenza Respiratory Virus Testing Performed by Texas NREVSS Laboratories for the Current Week

Virus	Number of Laboratories Testing	Tests Performed	Positive Tests	Percentage of Tests Positive
Adenovirus (respiratory)	9	1200	37	3.08%
HMPV	8	1191	4	0.34%
Parainfluenza virus	9	1200	201	16.75%
Rhino/enterovirus	7	1168	322	27.57%
RSV <sup>†</sup>	11	1389	70	5.04%
Seasonal coronavirus (does not include MERS-CoV or COVID-19)	6	1132	68	6.01%

<sup>†</sup>RSV tests displayed in the table are a combination of antigen detection, PCR, and culture tests. Some non-NREVSS reporters also contribute to the RSV data.

#### Antigenic Characterization

No antigenic characterization data for Texas specimens are available at this time. The DSHS Laboratory sends a representative sample of influenza viruses to the CDC throughout the flu season.

#### Antiviral Resistance

No antiviral resistance testing data for Texas specimens are available presently.

<sup>^</sup>Numbers and percentage may differ from the weekly RSV report. The weekly RSV report may be accessed at https://www.dshs.state.tx.us/RSV/disease/rsv-Data.aspx.

## U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

\* Please note, the COVID-19 pandemic is affecting healthcare seeking behavior. The number of persons and their reasons for seeking care in the outpatient and ED settings is changing. These changes impact data from ILINet in ways that are difficult to differentiate from changes in illness levels, therefore ILINet data should be interpreted with caution.

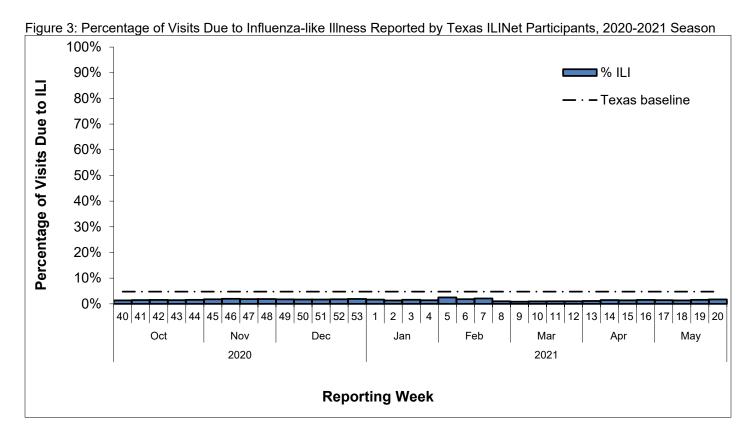
Table 6: Texas ILINet Reporting and Patient Visit Summary for the Current Week

	Week 20
Number of providers reporting	51
Number of providers reporting patient visits	51
Number (%) of providers with at least one ILI case	42 (82.35%)
Percentage of all visits due to ILI	1.71%
Texas ILINet baseline <sup>‡</sup> , 2020-2021	5.26%

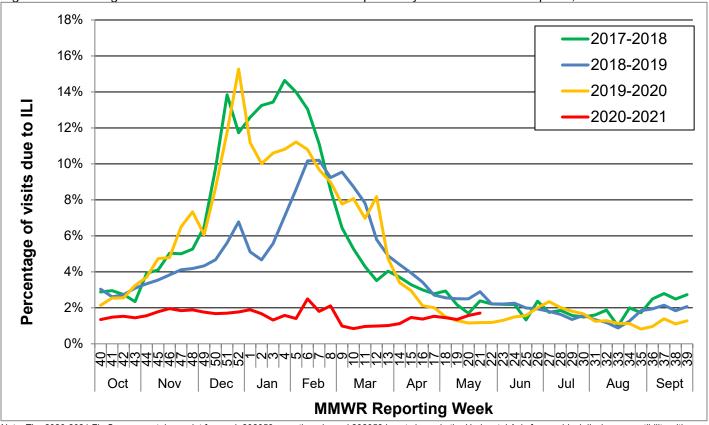
<sup>&</sup>lt;sup>‡</sup>The baseline is the mean percentage of patient visits for ILI during non-influenza weeks for the previous three seasons plus two standard deviations. A "non-influenza week" is defined as a week that accounted for less than 2% of the season's total number of specimens that tested positive for influenza.

Table 7: Percentage of Visits for Influenza-like Illness Reported by Texas ILINet Providers (as of 5/26/2021 2:45 PM)

	Providers Number of ILI Cases by Age Group (Y			(Years)	Total ILI Total				
Week	Reporting	0-4	5-24	25-49	50-64	65+	(all ages)	Patients	% ILI
202040	64	97	203	158	69	38	565	41895	1.35%
202041	78	108	220	231	116	68	743	50085	1.48%
202042	74	138	218	227	104	58	745	48710	1.53%
202043	63	107	203	183	75	46	614	42438	1.45%
202044	75	120	204	244	99	53	720	46097	1.56%
202045	81	141	270	320	109	65	905	50720	1.78%
202046	78	154	286	353	146	99	1038	53093	1.96%
202047	77	140	256	328	130	82	936	50833	1.84%
202048	79	96	206	281	145	73	801	42465	1.89%
202049	70	127	208	284	108	67	794	45041	1.76%
202050	80	123	201	290	122	98	834	49791	1.68%
202051	64	122	166	204	87	59	638	37464	1.70%
202052	75	114	143	256	122	87	722	40748	1.77%
202053	65	116	146	258	115	104	739	39032	1.89%
202101	78	125	194	303	178	72	872	52190	1.67%
202102	65	111	124	159	82	63	539	40826	1.32%
202103	76	112	203	258	126	67	766	48475	1.58%
202104	74	87	175	199	86	47	594	42244	1.41%
202105	79	146	357	433	166	50	1152	46119	2.50%
202106	39	37	62	31	18	2	150	8328	1.80%
202107	38	11	6	14	6	7	44	2088	2.11%
202108	60	114	128	98	38	29	407	41201	0.99%
202109	75	89	124	89	36	25	363	42939	0.85%
202110	57	97	105	74	23	19	318	32972	0.96%
202111	71	125	133	100	36	23	417	42217	0.99%
202112	70	103	120	109	40	21	393	38775	1.01%
202113	71	153	215	99	42	16	525	46901	1.12%
202114	70	206	271	156	49	21	703	48078	1.46%
202115	72	192	251	212	56	24	735	53435	1.38%
202116	56	198	228	132	28	27	613	40023	1.53%
202117	69	238	252	195	64	26	775	53418	1.45%
202118	68	257	245	157	50	30	739	54721	1.35%
202119	67	302	246	170	72	21	811	51523	1.57%
202120	51	369	209	143	45	23	789	46187	1.71%







Note: The 2020-2021 Flu Season contains a plot for week 202053 even though week202053 is not shown in the Horizontal Axis for graphical display compatibility with seasons containing 52 weeks.

## Reports from Health Service Regions

Reports were received from seven Health Service Regions (HSRs) during week 20.

Table 8: Influenza Activity Compared to week 19 by Health Service Region (HSR)

Influenza Activity Comparison	Health Service Region (HSR)
Increased	8
Same	2/3 and 11
Decreased	6/5S 7, 9/10
Unsure	1

#### Variant Influenza Viruses

No variant or novel influenza viruses have been detected in Texas during the 2020-2021 season.

#### Institutional Outbreaks and School Closures

1 institutional outbreak was reported in week 20 during the 2020-2021 season. During week 20, one influenza outbreak was reported at a housing facility in HSR 9/10. Five patients tested positive for influenza B/Victoria. Two were also found to be coinfected with SARS-Cov-2. The investigation is ongoing. No school outbreaks or closures were reported.

## **P&I Mortality Surveillance Data**

\*Deaths due to COVID-19 may be classified as pneumonia deaths or influenza deaths (deaths due to "flu" or "flu-like illness") in the absence of positive SARS-CoV-2 test results.

Pneumonia and influenza (P&I) death data are obtained from death certificates of Texas residents whose underlying or contributing cause(s) of death is reported as pneumonia or influenza. P&I deaths are identified based on ICD-10 multiple cause of death codes. P&I deaths are based on ICD-10 pneumonia and influenza mortality codes.

Six thousand three hundred and fifty-six (6,356) P&I deaths have been reported in Texas during the 2020-2021 influenza season.

Table 8: Texas P&I Deaths Occurring September 27, 2020 - May 22, 2021\* by Age

Age Category	Number of P&I	Mortality Rate
(years)	Deaths⁺	(per 100,000)
0 - 4	15	0.69
5 - 17	<10	0.16
18 - 49	402	2.98
50 - 64	1166	22.12
65 +	4764	118.68
Overall	6,356	20.81

<sup>\*</sup>NOTE: Data are provisional and subject to change, errors, and duplicates

Table 9: Texas P&I Deaths Occurring September 27, 2020 – May 22, 2021\* by Health Service Region (HSR)

HSR	Number of P&I	Mortality Rate (per
пок	Deaths	100,000)
1	234	24.83
2/3	1839	20.80
4/5N	562	33.94
6/5S	1507	18.81
7	662	17.61
8	637	20.23
9/10	336	20.70
11	579	22.61
Unknown	0	0
Overall	6,356	20.81

<sup>\*</sup>NOTE: Data are provisional and subject to change, errors, and duplicates

<sup>&</sup>lt;sup>†</sup> If the cell count is less than 10, the number of P&I deaths is suppressed and <10 is written in the cell.

## **Influenza-Associated Pediatric Mortality**

No influenza-associated pediatric deaths were reported during week 20.

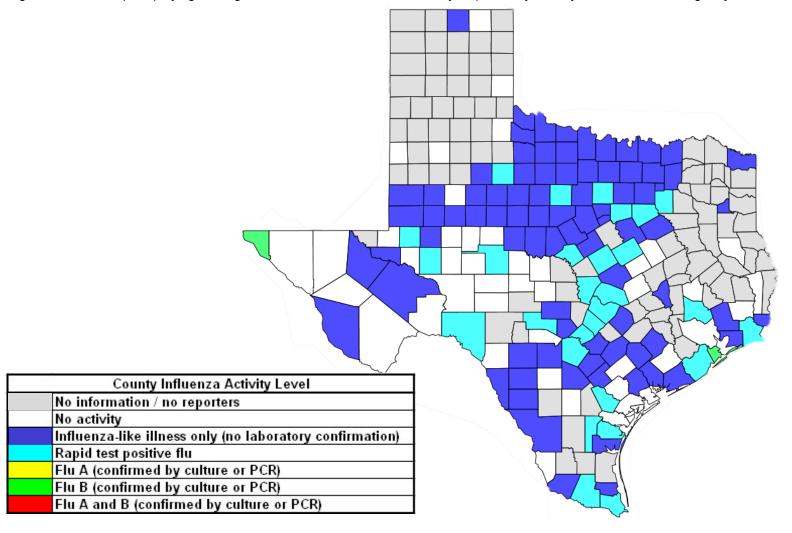
No influenza-associated pediatric mortalities have been reported in Texas during the 2020-2021 influenza season. Cases of influenza-associated pediatric mortality (children <18 years of age) are reportable year-round by law in Texas.

Table 10: Influenza-Associated Pediatric Deaths Reported in Texas during the 2020-2021 Season

Month of Pediatric Death	Influenza A (H1N1)	Influenza A (H3N2)	Influenza A (Not Subtyped)	Influenza B	Influenza, Not Typed / Not Differentiated	Influenza virus co-infection: A (not subtyped) and B	Total, All Influenza Types / Subtypes
2020							<u>-</u> -
October	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0
January	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0

## **Statewide Influenza Activity Map**

Figure 5: Texas Map Displaying the Highest Level of Influenza or ILI Activity Reported by County for the Week Ending May 22, 2021 (MMWR Week 20)



Please note: The majority of influenza cases are not reportable by law in Texas. This map contains data from sentinel sites and only displays influenza and ILI cases that were reported to public health. Positive laboratory results are reported according to specimen collection date, or date received in the laboratory if the former is unknown.

## **Texas Influenza Surveillance Components and Measures**

Activity codes (see http://www.cdc.gov/flu/weekly/overview.htm)

Statewide influenza activity level

A code reported weekly by states and territories to CDC indicating the geographic spread of influenza in the state. Levels are no activity, sporadic, local, regional, and widespread.

**ILINet Activity Indicator** 

A statewide level of influenza-like illness intensity (on a scale of 1-10, with 1 being the lowest level) assigned to each state weekly by CDC based on data reported through ILINet.

#### Morbidity

Novel/variant influenza

Thorough investigations are performed on all cases of novel/variant influenza. This condition is reportable by law in Texas.

Texas II INet

Providers voluntarily report weekly to CDC's ILINet system on the number of outpatient visits for ILI and total outpatient visits. Providers may submit up to 5 specimens per month for influenza testing. See <a href="http://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/ILINet/">http://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/ILINet/</a> for information on how to become an ILINet provider.

ILI activity

Non-ILINet providers report ILI or influenza data weekly to local or regional health departments.

Outbreaks

Healthcare, schools, childcare, and correctional facilities report ILI and influenza outbreaks to health departments in Texas. *This condition is reportable by law in Texas*.

#### Mortality

Pneumonia and Influenza (P&I) Mortality Surveillance

The DSHS Vital Statistics Unit collects death certificate information for all deaths on Texas residents from various partners such as funeral homes and local registrars around the state. The death certificates are then sent to the National Center for Health Statistics (NCHS) where the cause of death and underlying causes of death on the death certificates are coded with ICD-10 mortality codes. Once death certificates are coded, the information is sent back to DSHS Center for Health Statistics (CHS). CHS produces a Weekly Pneumonia and Influenza (P&I) Death Report and sends it to the State Influenza Surveillance Coordinator for inclusion in the Texas Weekly Flu Report. P&I deaths are identified based on ICD-10 multiple cause of death codes, and in particular, pneumonia and influenza mortality codes. Delays inherent in death reporting and coding practices may cause the number of reported P&I deaths to vary considerably each week.

Influenza-associated pediatric deaths

Deaths that are associated with influenza in children < 18 years of age are reported to health departments in Texas. *This condition is reportable by law in Texas*. <a href="http://www.dshs.state.tx.us/idcu/disease/IAPM/">http://www.dshs.state.tx.us/idcu/disease/IAPM/</a>

#### Laboratory

**DSHS** Austin laboratory

Providers voluntarily submit specimens to the DSHS Austin laboratory for influenza PCR testing throughout the season. Providers sign up for this program through their local health departments.

Laboratory Response Network (LRN) laboratories

Providers voluntarily submit specimens to one of the 9 Texas LRNs for influenza PCR testing throughout the season. Providers sign up for this program through their local health departments.

**NREVSS** 

Laboratories voluntarily report influenza and other respiratory virus data weekly through the CDC's online NREVSS reporting system.

Laboratories sign up for this program by contacting DSHS. <a href="https://www.cdc.gov/surveillance/nrevss/">https://www.cdc.gov/surveillance/nrevss/</a>

#### **Recommended Resources**

Texas Department of State Health Services DSHS influenza page: <a href="http://www.texasflu.org/">http://www.texasflu.org/</a>

Influenza surveillance data and reports: <a href="http://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/">http://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/</a>

Map of Texas Health Service Regions: <a href="http://www.dshs.state.tx.us/regions/state.shtm">http://www.dshs.state.tx.us/regions/state.shtm</a>

Centers for Disease Control and Prevention

National FluView weekly flu report: <a href="http://www.cdc.gov/flu/weekly/">http://www.cdc.gov/flu/weekly/</a> Variant influenza viruses: <a href="http://www.cdc.gov/flu/swineflu/variant.htm">http://www.cdc.gov/flu/swineflu/variant.htm</a> Avian influenza viruses: <a href="http://www.cdc.gov/flu/avianflu/index.htm">http://www.cdc.gov/flu/avianflu/index.htm</a> Swine influenza viruses: <a href="http://www.cdc.gov/flu/swineflu/index.htm">http://www.cdc.gov/flu/swineflu/index.htm</a>

Infection Control in Healthcare Facilities: http://www.cdc.gov/flu/professionals/infectioncontrol/

Seasonal Flu Information for Schools and Childcare Providers: http://www.cdc.gov/flu/school/index.htm

World Health Organization

Influenza page: <a href="http://www.who.int/topics/influenza/en/">http://www.who.int/topics/influenza/en/</a>
Disease Outbreak News: <a href="http://www.who.int/csr/don/en/">http://www.who.int/csr/don/en/</a>