



# Dallas County Health and Human Services 2019–2020 Influenza Surveillance Report

Week 48 ending November 30, 2019

## Epidemiologic Summary

- The first confirmed influenza-associated adult death in Dallas County has been reported in week 49.
- Influenza activity is increasing in Dallas County, with 20.4% of tests returning positive during week 48.
- Over the past week (Week 49), daily number of emergency department visits for chief complaints of influenza-like illness in Dallas County are continuing to increase. Twenty-nine (29) new influenza-associated hospitalizations were reported during week 48.
- RSV activity is circulating with 32.3% of tests from the surveillance sites reported as positive.

**Table 1.** Summary of Influenza Surveillance from Dallas County Hospitals and Hospital Laboratories

Week Ending	10/26	11/02	11/09	11/16	11/23	11/30	9/08/19 – Present
<b>CDC Week</b>	<b>43</b>	<b>44</b>	<b>45</b>	<b>46</b>	<b>47*</b>	<b>48*</b>	
<b>Total Influenza PCR Tests</b>	833	934	1,383	1,089	1,332	1,396	<b>10,301</b>
Number of positive PCR tests	27	47	84	99	250	266	<b>811</b>
Percent of positive PCR tests	3.2	5.0	6.1	9.1	19.0	19.1	
<b>Total Rapid Influenza Diagnostic Tests</b>	1,231	1,525	1,598	2,389	2,986	2,525	<b>16,207</b>
Number of positive RIDTs	66	130	265	352	722	532	<b>2,246</b>
Percent of positive RIDTs	5.4	8.5	16.6	14.7	24.2	21.1	
<b>Total Influenza Tests Performed</b>	2,064	2,459	2,981	3,478	4,318	3,921	<b>26,514</b>
Total positive influenza tests <sup>1</sup>	93	177	349	451	972	798	<b>3,057</b>
Percent positive influenza tests	4.5	7.2	11.7	13.0	22.5	20.4	
Positive influenza A tests <sup>2</sup>	16	12	23	23	48	86	<b>233</b>
Positive influenza B tests	77	165	326	428	924	712	<b>2,824</b>
Non-differentiated influenza tests <sup>3</sup>	0	0	0	2	2	0	<b>4</b>

<sup>1</sup> Includes positive rapid antigen, PCR, DFA, or culture results

<sup>2</sup> Further subtyping is performed only by select hospital laboratories for specimens referred to DCHHS by institutions for PCR-testing

<sup>3</sup> Non-differentiated refers to rapid test results which did not differentiate between influenza A and B

**Table 2.** Summary of Influenza Hospitalizations and Deaths from Dallas County Hospitals, Vital Statistics and Medical Examiner's Office

Week Ending	10/19	10/26	11/02	11/09	11/16	11/23	11/30	12/7	9/08/19– Present
<b>CDC Week</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>	<b>46</b>	<b>47*</b>	<b>48*</b>	<b>49*</b>	
Influenza hospitalizations <sup>4</sup>	4	4	5	7	15	33	29	<b>N/A</b>	<b>107</b>
Influenza ICU admissions <sup>4</sup>	1	1	1	3	2	2	2	<b>N/A</b>	<b>14</b>
Confirmed pediatric deaths <sup>5</sup>	0	0	0	0	0	0	0	0	<b>0</b>
Confirmed adult deaths <sup>6</sup>	0	0	0	0	0	0	0	1	<b>1</b>
Possible influenza-associated deaths <sup>7</sup>	0	0	0	0	0	0	0	1	<b>1</b>

<sup>4</sup> Reflects all influenza-associated hospitalizations reported from 14 hospitals located within Dallas County by week of any positive influenza tests.

<sup>5</sup> Confirmed influenza-associated deaths of Dallas County residents <18 years of age

<sup>6</sup> Confirmed influenza-associated deaths as defined by a positive laboratory test and any of the following: (1) death certificate denotation, (2) medical record documentation of compatible symptoms and clear progression from illness to death, or (3) determination by the County Medical Examiner's office (ME) of no alternate cause of death. Deaths occurring outside of influenza season require a positive PCR result in order to meet laboratory criteria. Positive RIDT will meet laboratory criteria after the start of flu season.

<sup>7</sup> Possible influenza-associated deaths are defined as cases with laboratory-confirmed influenza, but pending final autopsy results for determination of primary cause of death

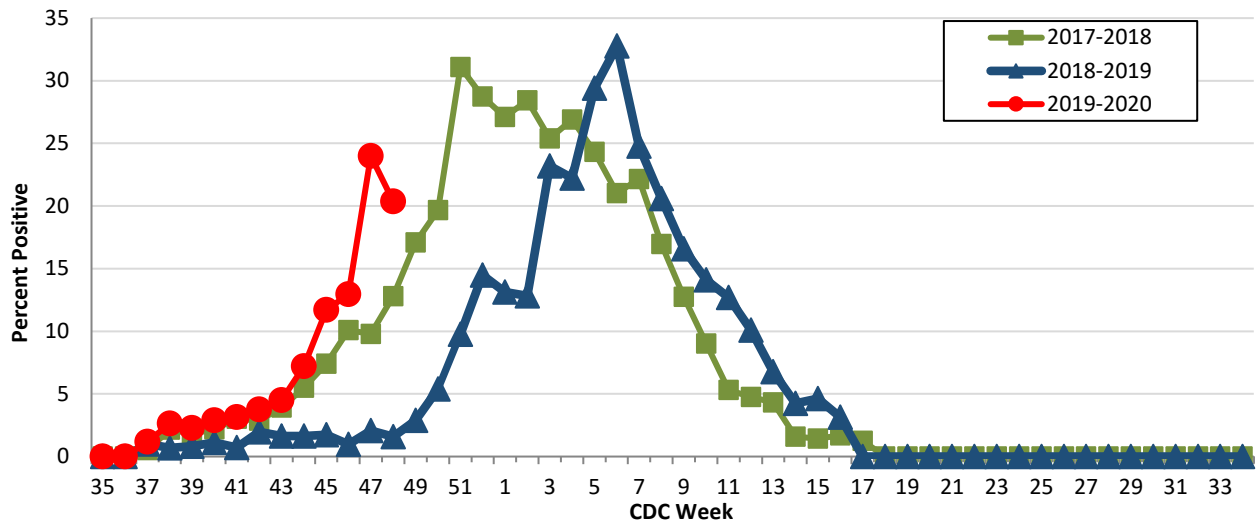
**Table 3.** Confirmed Influenza-associated Pediatric and Adult Deaths, Dallas County: 2014–2020 Seasons

	2014–2015	2015–2016	2016–2017	2017–2018	2018–2019	2019–2020
Pediatric	0	1	1	4	1	0
Adult	19	14	16	79	21	1

Data source(s): Reports of confirmed influenza-associated deaths, as defined in Table 2.

\*Indicates preliminary results which are subject to change with late-arriving data from surveillance sites designated for DCHHS' seasonal influenza program

**Figure 1.** Influenza Positive Tests Reported to DCHHS by Hospital Laboratories: 2017–2020 Seasons



**Table 4.** Influenza Typing and Subtyping from Cumulative Dallas County, Texas, and U.S. Laboratory Surveillance Data: 2019–2020 Season

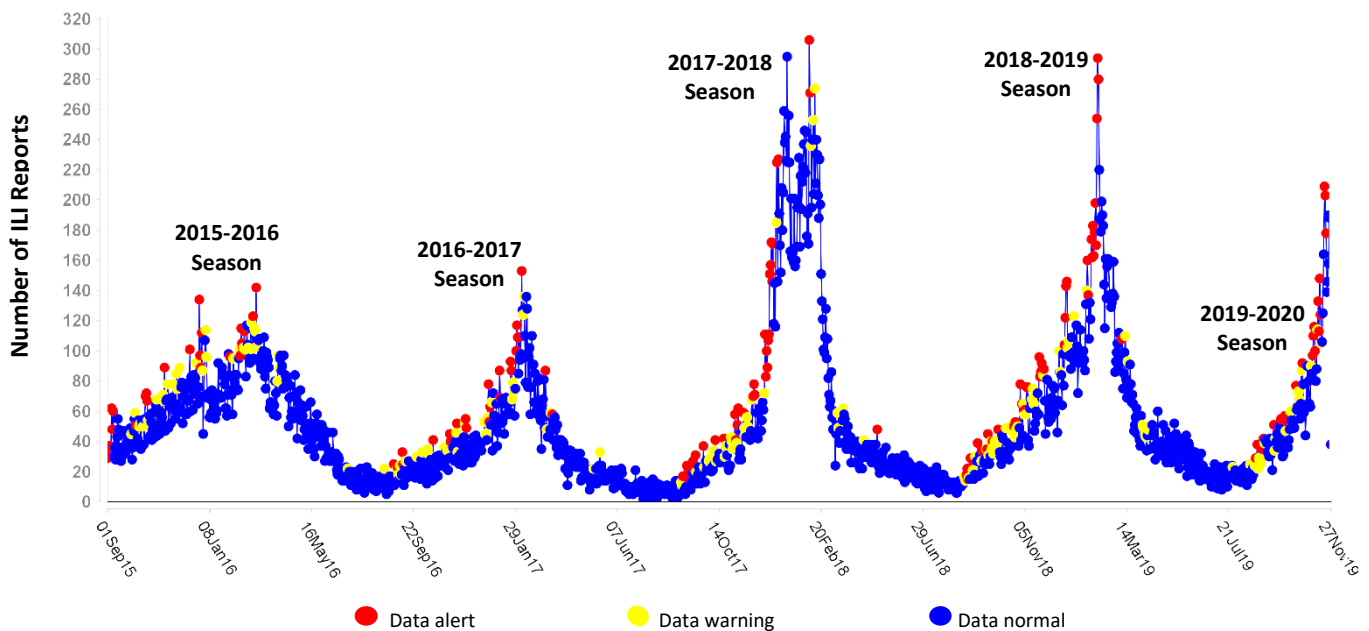
	Dallas <sup>1</sup> (n=85)	Texas <sup>2</sup> (n=536)	U.S. <sup>3</sup> (n=12,256)
Influenza A	6 (13.3%)	67 (31.0%)	1,380 (42.4%)
H1N1 2009 subtype	6 (13.3%)	56 (88.9%)	731 (57.6%)
H3N2 subtype	0 (0.0%)	7 (11.1%)	538 (42.4%)
Not subtyped	0	4	111
Influenza B	39 (86.7%)	149 (69.0%)	1,871 (57.6%)
Yamagata strain	0 (0.0%)	0 (0.0%)	44 (*3.1%)

<sup>1</sup> DCHHS LRN laboratory PCR testing of designated Dallas County surveillance site isolates; counts may not sum to total as samples can test positive for multiple subtypes

<sup>2</sup> DSHS 2019–2020 Texas Influenza Surveillance Information Activity Report available at <https://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/>

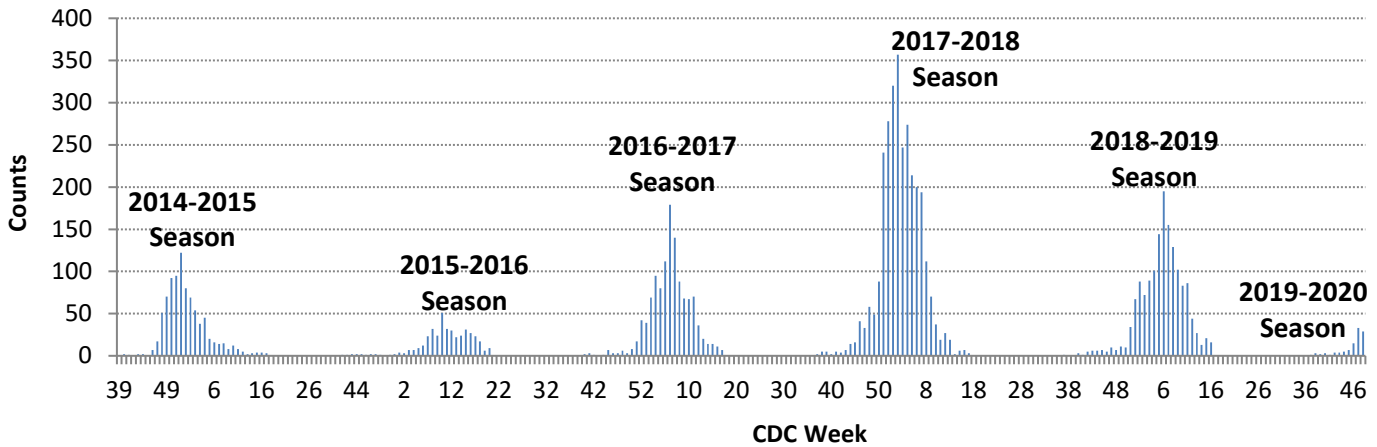
<sup>3</sup> CDC FluView Weekly Influenza Surveillance Report available at <http://www.cdc.gov/flu/weekly/>; \*Only a subset of influenza B had lineage testing performed.

**Figure 2.** Syndromic Surveillance of Emergency Department Visits for Influenza-like Illness (ILI), Dallas County: September 01, 2015 – November 30, 2019

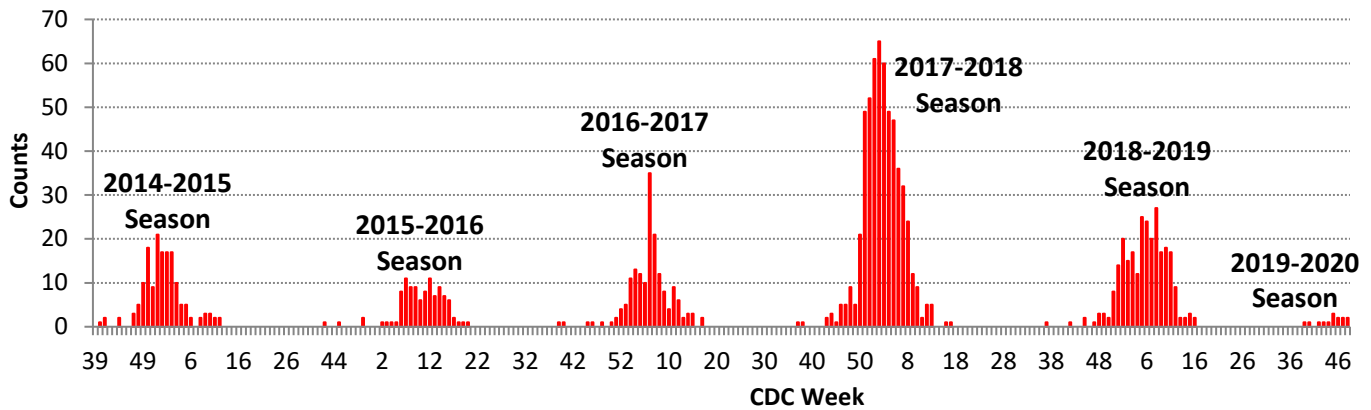


Data source: 18 emergency departments in Dallas County hospitals participating in the Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE) voluntarily reporting the numbers of persons presenting with self-reported chief complaints of ILI.

**Figure 3.** Influenza Hospitalizations by Week of Admission, Dallas County: 2014–2020 Seasons



**Figure 4.** Intensive Care Unit Hospitalizations for influenza by Week of Admission, Dallas County: 2014–2020 Seasons



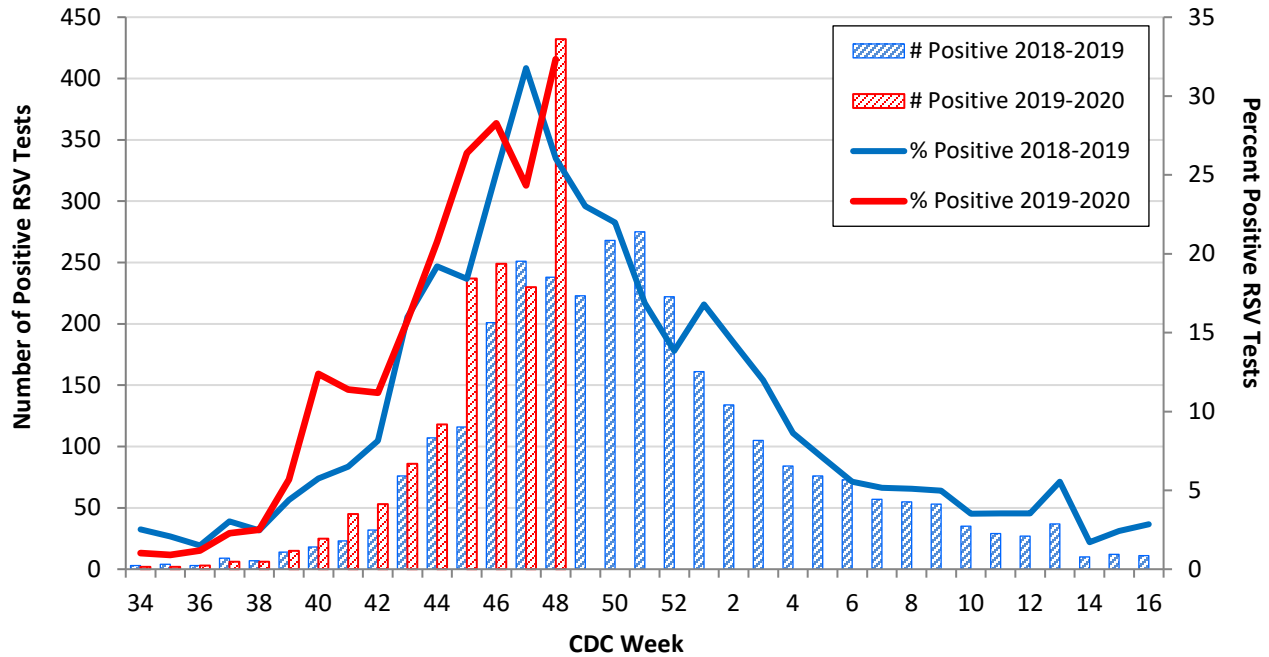
**Table 5.** Non-Influenza Respiratory Virus Testing by North Texas Laboratories Reported to NREVSS, Week 48

Virus	Number of Laboratories Reporting*	Tests Performed	Total Positive Tests	Percentage of Tests Positive
Adenovirus (respiratory)	2	288	6	2.1
HMPV	2	288	1	0.4
Parainfluenza virus	2	288	20	7.0
Rhinovirus/Enterovirus	2	288	58	20.1
RSV	2	1,336	432	32.3

Data source: National Respiratory and Enteric Virus Surveillance System (NREVSS) and hospitals reporting directly to DCHHS

\*Data from 2 reporting laboratories are unavailable as of December 6, 2019

**Figure 5.** Number and Percent Positive RSV Rapid Antigen and PCR Tests by Week, NREVSS Surveillance Data, North Texas: August 18, 2017 – November 30, 2019



Data source: National Respiratory and Enteric Virus Surveillance System (NREVSS) and hospitals reporting directly to DCHHS

**Table 6.** Number and Percent Positive RSV Rapid Antigen and PCR Tests by Week, NREVSS Surveillance Data, North Texas: August 18, 2019 – November 30, 2019

Week Ending	10/19	10/26	11/02	11/09	11/16	11/23	11/30	8/18/18–Present
CDC Week	42	43	44	45	46	47*	48*	
RSV tests performed weekly	474	546	568	898	881	945	1,336	7,680
Total positive RSV tests	53	86	118	237	249	230	432	1,509
Percent positive RSV tests	11.2	15.8	20.8	26.4	28.3	24.3	32.3	

\*Indicates preliminary results which are subject to change as adjustments are made for late-arriving data

Data source: National Respiratory and Enteric Virus Surveillance System (NREVSS)

**Please report any of the following patients to DCHHS within 1 working day:**

- **Hospitalized patients with influenza** (any subtype). Confirmation can be by any laboratory test, rapid antigen, culture, PCR, DFA/IFA, or performed in an outpatient or inpatient laboratory.
- **Deaths of persons with confirmed influenza** (any subtype). We are requesting all pediatric influenza-associated deaths to be reported *immediately* to facilitate specimen procurement and testing.
- Suspected influenza infections involving institutional outbreaks or a resident of any **Long Term Care facility** (please report *immediately*).

Phone: **(214) 819-2004**Email: **[influenza@dallascounty.org](mailto:influenza@dallascounty.org)**