

## Week 14 ending April 8, 2017

## **Epidemiologic Summary**

- Influenza activity decreased in Dallas County with 5.4% of tests returning positive during week 14. Nationally, 15.2% of specimens reported to CDC were positive for influenza.
- Daily numbers of emergency department visits for influenza-like illness in Dallas County were at baseline levels and 14 influenza-associated hospitalizations were reported during week 14.
- No influenza-associated deaths were reported in week 14. One influenza-associated pediatric death has been reported during the 2016-2017 season in Dallas County.
- RSV activity decreased with 2.3% of tests from area surveillance sites testing positive.

Table 1. Summary of innuenza Surveinance from Danas County Hospitals and Hospital Laboratories								
Week Ending	3/4	3/11	3/18	3/25	4/1	4/8	9/11/16 -	
CDC Week	9	10	11	12	13*	14*	Present	
Total Influenza PCR Tests	903	840	723	726	666	555	18,948	
Number of positive PCR tests	156	138	101	84	57	19	2,363	
Percent of positive PCR tests	17.3	16.4	14.0	11.6	8.6	3.4		
Total Rapid Influenza Diagnostic Tests	1,460	1,025	887	638	485	494	23,318	
Number of positive RIDTs	293	241	151	104	79	39	3,988	
Percent of positive RIDTs	20.1	23.5	17.0	16.3	16.3	7.9		
Total Influenza Tests Performed	2,478	1,972	1,714	1,415	1,195	1,103	44,973	
Total positive influenza tests <sup>1</sup>	453	380	252	191	138	60	6,379	
Percent positive influenza tests	18.3	19.3	14.7	13.5	11.6	5.4		
Positive influenza A tests <sup>2</sup>	339	237	133	77	44	21	5,254	
Positive influenza B tests	114	143	119	114	94	39	1,125	
Non-differentiated influenza tests <sup>3</sup>	0	0	0	0	0	0	2	

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

 $^{\rm 1}$  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	3/4	3/11	3/18	3/25	4/1	4/8	9/11/16-
CDC Week	9	10	11	12	13*	14*	Present
Influenza hospitalizations <sup>4</sup>	68	67	70	36	20	14	1,173
Confirmed pediatric deaths <sup>5</sup>	0	1	0	0	0	0	1
Confirmed adult deaths <sup>6</sup>	1	0	0	0	0	0	15
Possible influenza-associated deaths <sup>7</sup>	0	0	0	0	0	0	0

<sup>4</sup> Reflects all influenza-associated hospitalizations reported from 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, compatible symptoms, and clear progression from illness to death, or determination by the County Medical Examiner's office (ME) of no alternate cause of death

<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

Data source(s): 15 Hospitals in Dallas County

Table 3. Confirmed Influenza-associated Pediatric and Adult Deaths, Dallas County: 2011–2017 Seasons

	2011–2012	2012–2013	2013–2014	2014–2015	2015–2016	2016–2017
Pediatric	1	3	3	0	1	1
Adult	0	6	55	19	14	15

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

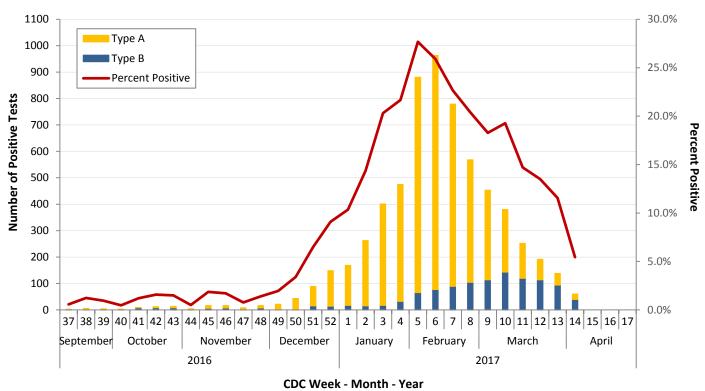
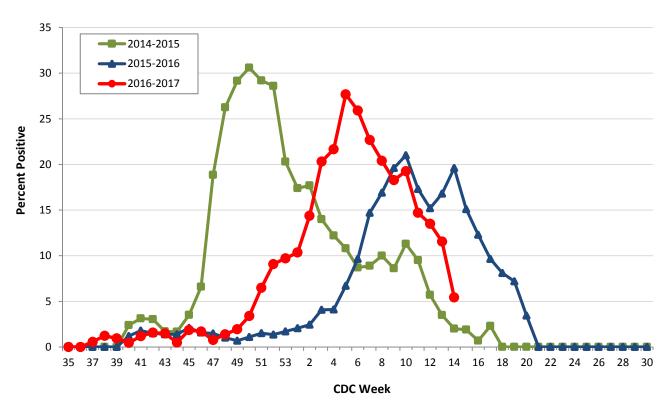


Figure 1. Influenza Positive Tests Reported to DCHHS by Hospital Laboratories: 2016 - 2017 Seasons

Figure 2. Influenza Positive Tests Reported to DCHHS by Hospital Laboratories: 2014–2017 Seasons



Note: For Figure 2 and all subsequent trend overlays there is no week 53 for the 2015-2016 or 2016-17 influenza seasons, therefore week 53 data point for those seasons is an average of week 52 and week1.

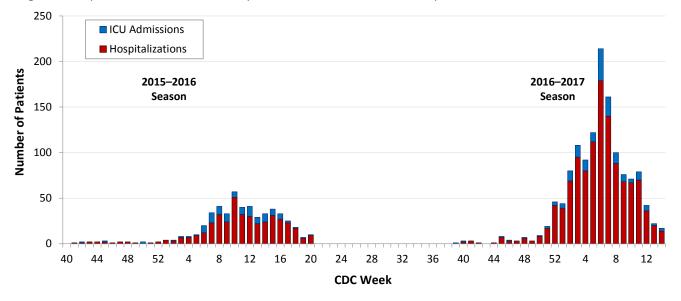
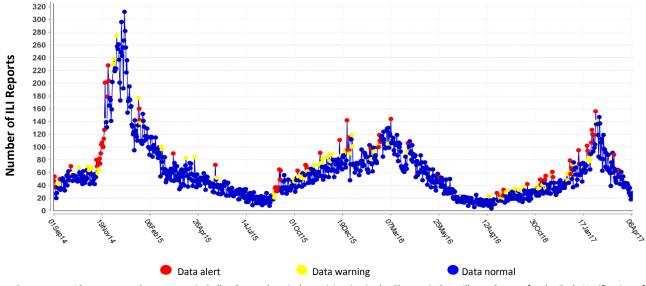


Figure 3. Hospitalized Influenza Patients by Week of Admission, Dallas County: 2015-2017 Seasons

**Figure 4.** Syndromic Surveillance of Emergency Department Visits for Influenza-like Illness (ILI), Dallas County: September 1, 2014 – April 8, 2017



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.

Table 4. Influenza Typing and Subtyping from Cumulative Dallas County, Texas, and U.S. Laboratory Surveillance Data:	
2016-2017 Season	

	Dallas <sup>1</sup> (n=687)	Texas <sup>2</sup> (n=1,729)	U.S. <sup>3</sup> (n=36,649)
Influenza A	614 (89.6%)	1,440 (83.3%)	30,211 (82.4%)
H1N1 2009 subtype	75 (12.3%)	206 (14.4%)	826 (2.8%)
H3N2 subtype	534 (87.7%)	1,227 (85.6%)	29,033 (97.2%)
Not subtyped	5	7	352
Influenza B	73 (10.4%)	289 (16.7%)	6,438 (17.6%)

<sup>1</sup> DCHHS LRN laboratory PCR testing of designated Dallas County surveillance site isolates

<sup>2</sup> DSHS 2015–2016 Texas Influenza Surveillance Information Activity Report available at <a href="https://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/2017/3">https://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/2017/3</a> CDC FluView Weekly Influenza Surveillance Report available at <a href="http://www.cdc.gov/flu/weekly/">http://www.cdc.gov/flu/weekly/</a>

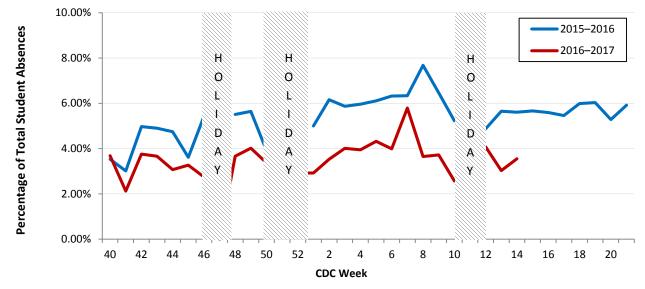
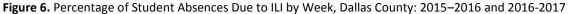
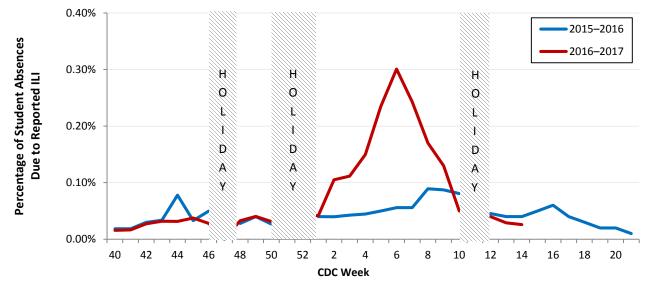


Figure 5. Percentage of Student Absences by Week, Dallas County: 2015–2016 and 2016-2017





Data source: Voluntary reporting from Independent School Districts representing over 510 elementary, middle, and secondary schools and over 420,000 students in Dallas County

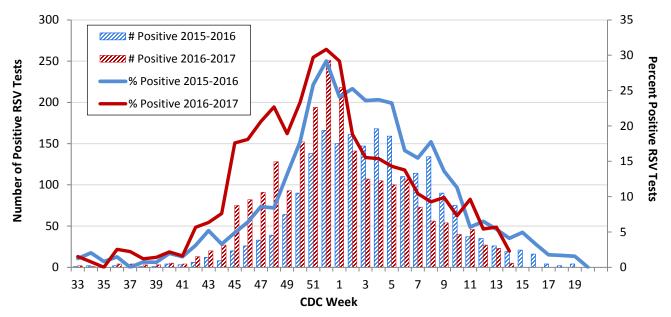
Table 5. Non-Influenza Respiratory Virus Testing by North Texas Laboratories Reported to NREVSS, Week 14

Virus	Number of Laboratories Reporting	Tests Performed	Total Positive Tests	Percentage of Tests Positive	
Adenovirus (respiratory)	3	167	1	0.6%	
HMPV	3	151	4	2.7%	
Parainfluenza virus	3	167	15	9.0%	
Rhinovirus/enterovirus	3	151	35	23.2%	
RSV	3	221	5	2.3%	

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

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**Figure 7.** Number and Percent Positive RSV Rapid Antigen and PCR Tests by Week, NREVSS Surveillance Data, North Texas: August 22, 2015 – April 8, 2017



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 20, 2016 – April 8, 2017

Week Ending	2/25	3/4	3/11	3/18	3/25	4/1	4/8	8/20/16-
CDC Week	8	9	10	11	12	13*	14*	Present
RSV tests performed weekly	604	547	549	478	499	404	221	15,422
Total positive RSV tests	56	54	40	46	27	23	5	2,254
Percent positive RSV tests	9.3	9.9	7.3	9.6	5.4	5.7	2.3	

\*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