

Week 8 ending February 25, 2017

Epidemiologic Summary

- Influenza activity is decreasing but remains elevated in Dallas County with 19.8% of tests returning positive during week 8. Nationally, 24.2% 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 78 influenza-associated hospitalizations were reported during week 8.
- Two influenza-associated deaths were reported in week 8. No influenza-associated pediatric deaths have been reported during the 2016-2017 season in Dallas County.
- RSV activity is decreasing with 9.3% of tests from area surveillance sites testing positive.

Table 1. Summary of mindenza Surveinance from Danas County Hospitals and Hospital Laboratories								
Week Ending	1/21	1/28	2/4	2/11	2/18	2/25	9/11/16 -	
CDC Week	3	4	5	6	7*	8*	Present	
Total Influenza PCR Tests	933	863	1,009	1,229	1,163	922	14,464	
Number of positive PCR tests	179	162	251	357	274	202	1,798	
Percent of positive PCR tests	19.2	18.8	24.9	29.1	23.6	21.9		
Total Rapid Influenza Diagnostic Tests	990	1,278	2,111	2,402	2,133	1,378	18,018	
Number of positive RIDTs	222	313	629	606	500	269	2,997	
Percent of positive RIDTs	22.4	24.5	29.8	25.2	23.4	19.5		
Total Influenza Tests Performed	1,974	2,192	3,183	3,717	3,435	2,395	34,708	
Total positive influenza tests ¹	401	475	881	963	779	474	4,279	
Percent positive influenza tests	20.3	21.7	27.7	25.9	22.7	19.8		
Positive influenza A tests ²	384	443	816	886	690	394	4,333	
Positive influenza B tests	17	32	65	77	89	80	478	
Non-differentiated influenza tests ³	0	2	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

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

³ 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	1/21	1/28	2/4	2/11	2/18	2/25	9/11/16-
CDC Week	3	4	5	6	7*	8*	Present
Influenza hospitalizations ⁴	95	80	112	179	140	78	888
Confirmed pediatric deaths ⁵	0	0	0	0	0	0	0
Confirmed adult deaths ⁶	1	1	1	2	1	2	10
Possible influenza-associated deaths ⁷	0	0	0	0	0	0	1

⁴ Reflects all influenza-associated hospitalizations reported from hospitals located within Dallas County by week of any positive influenza tests

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

⁶ 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

⁷ 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	0
Adult	0	6	55	19	14	10

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

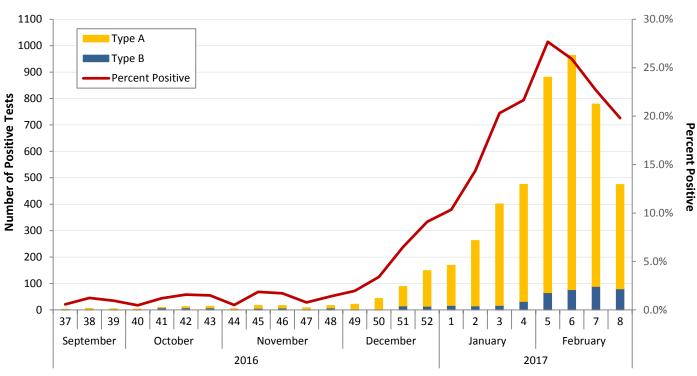
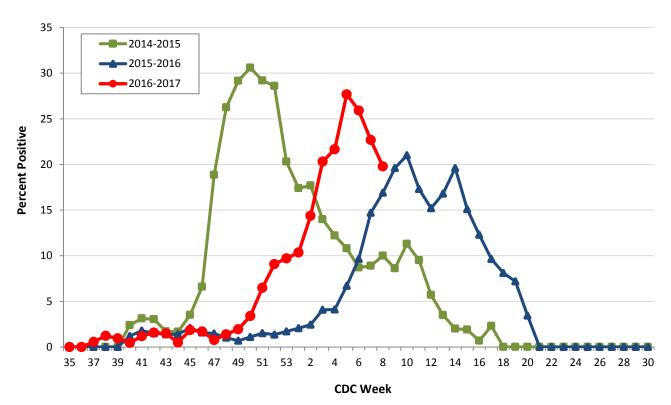


Figure 1. Influenza Positive Tests Reported to DCHHS by Hospital Laboratories: 2016 - 2017 Seasons

CDC Week - Month - Year

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.

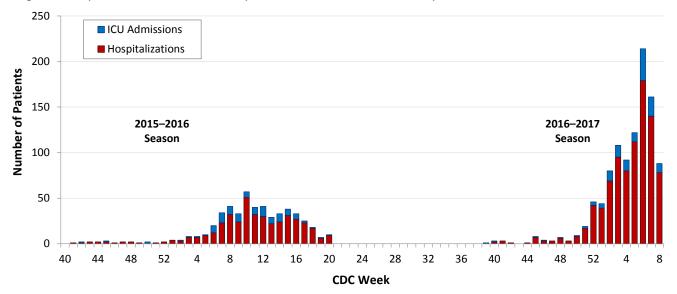
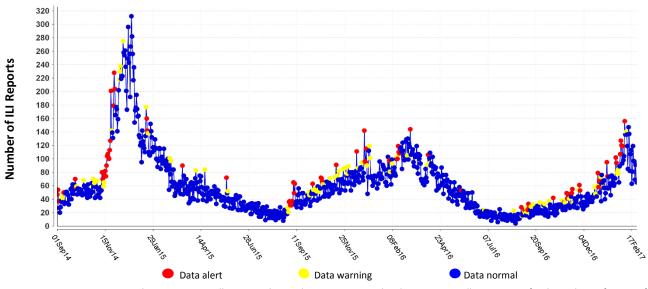


Figure 3. Hospitalized Influenza Patients by Week of Admission, Dallas County: 2015-2017 Seasons

Figure 4. Syndromic Surveillance of Emergency Department Visits for Influenza-like Illness (ILI), Dallas County: September 1, 2014 – February 25, 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 ¹ (n=617)	Texas ² (n=1,337)	U.S. ³ (n=24,517)
Influenza A	563 (91.2%)	1,167 (87.3%)	22,167 (90.4%)
H1N1 2009 subtype	71 (12.7%)	167 (14.4%)	534 (2.4%)
H3N2 subtype	487 (87.3%)	994 (85.6%)	21,303 (97.6%)
Not subtyped	5	6	330
Influenza B	54 (8.8%)	170 (12.7%)	2,350 (9.6%)

¹ DCHHS LRN laboratory PCR testing of designated Dallas County surveillance site isolates

² DSHS 2015–2016 Texas Influenza Surveillance Information Activity Report available at https://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/2017/

³ CDC FluView Weekly Influenza Surveillance Report available at <u>http://www.cdc.gov/flu/weekly/</u>

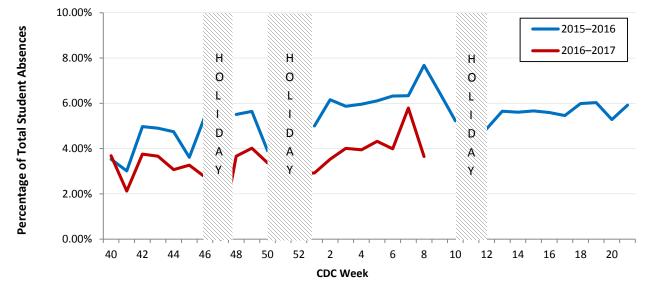
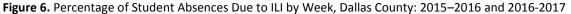
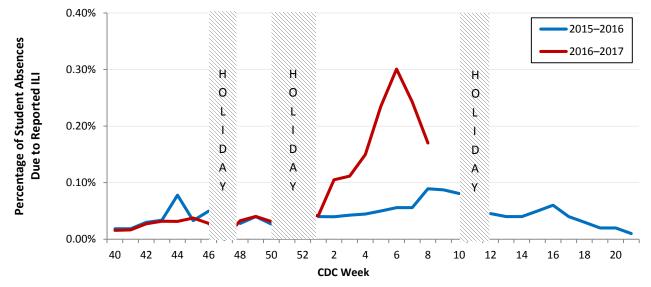


Figure 5. Percentage of Student Absences by Week, Dallas County: 2015–2016 and 2016-2017





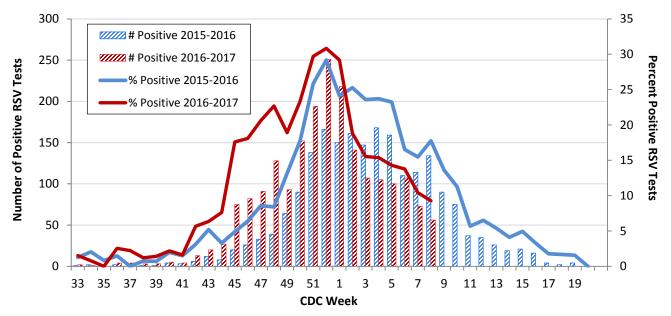
Data source: Voluntary reporting from Independent School Districts representing over 510 elementary, middle, and secondary schools and over 420,000 students in Dallas County

Table 5. Non-Influenza Respiratory Virus Testing by North Texas Laboratories Reported to NREVSS, Week 8

Virus	Number of Laboratories Reporting	Tests Performed	Total Positive Tests	Percentage of Tests Positive	
Adenovirus (respiratory)	4	389	4	1.0%	
HMPV	4	383	21	5.5%	
Parainfluenza virus	4	389	15	3.9%	
Rhinovirus/enterovirus	4	383	63	16.5%	
RSV	4	604	56	9.3%	

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

Figure 7. Number and Percent Positive RSV Rapid Antigen and PCR Tests by Week, NREVSS Surveillance Data, North Texas: August 22, 2015 – February 25, 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 – February 25, 2017

Week Ending	1/14	1/21	1/28	2/4	2/11	2/18	2/25	8/20/16-
CDC Week	2	3	4	5	6	7*	8*	Present
RSV tests performed weekly	748	689	683	700	777	701	604	11,042
Total positive RSV tests	141	107	105	100	107	73	56	2,033
Percent positive RSV tests	18.9	15.5	15.4	14.3	13.8	10.4	9.3	

*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*).

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