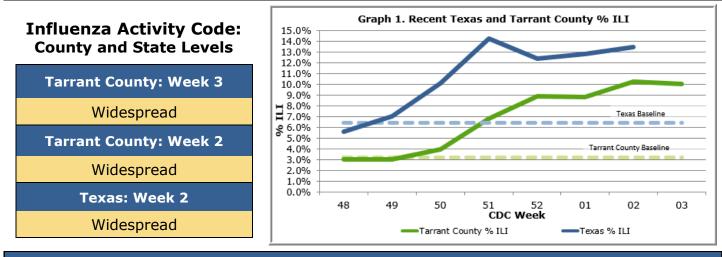
## Tarrant County Public Health Division of Epidemiology and Health Information

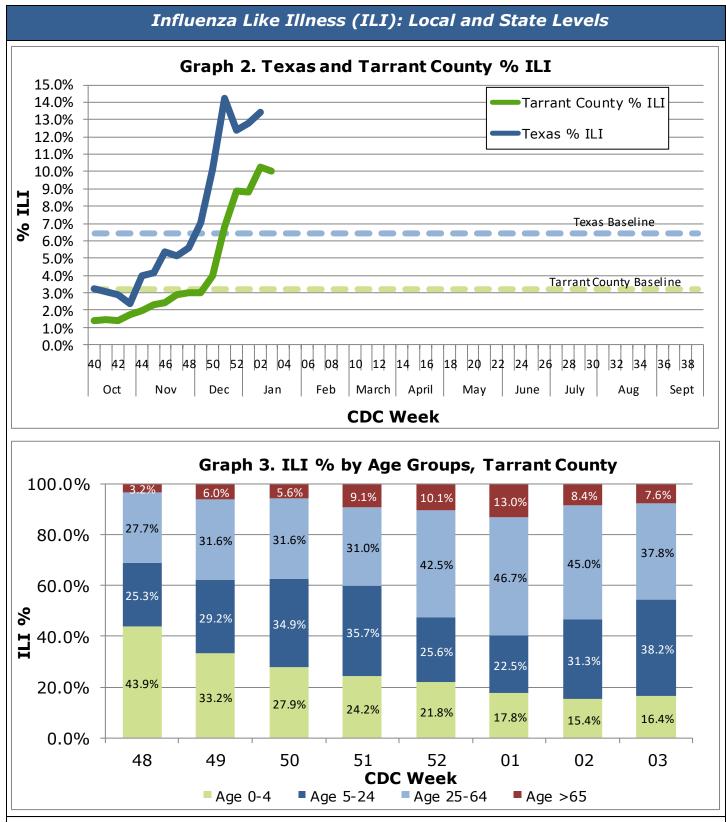


# Tarrant County Influenza Surveillance Weekly Report CDC Week 3: Jan 14-20, 2018



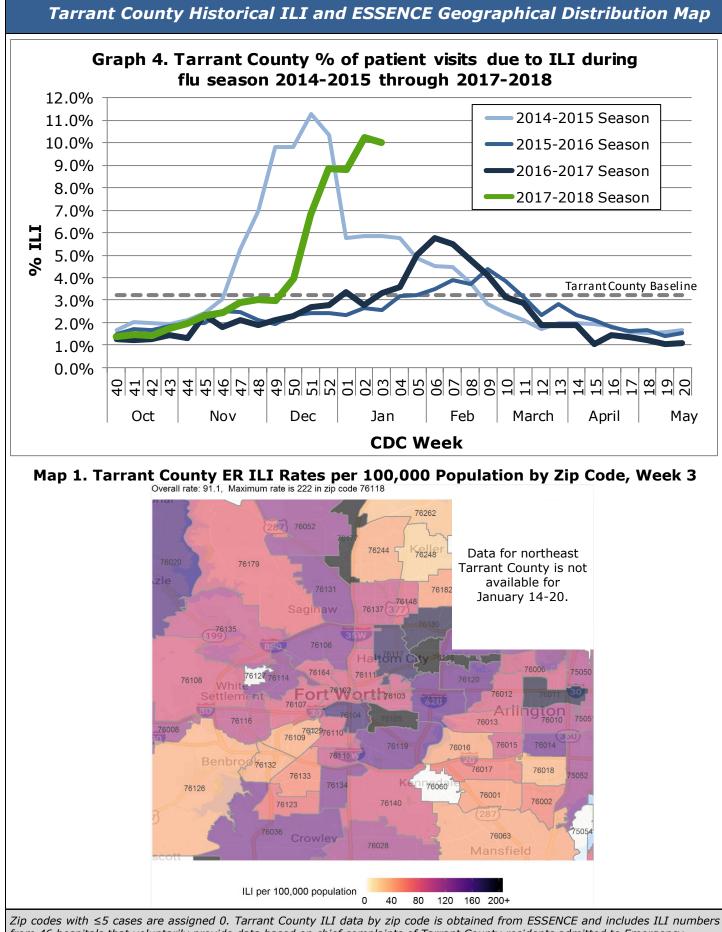
## Respiratory Virus Activity Summary

- The percentage of reported influenza-like illness (ILI) in Tarrant County decreased from 10.3% in week 2 to 10.0% in week 3 and is currently above the 2017-2018 Tarrant County baseline (3.2%).
- The percentage of all cause school absenteeism was 9.6% during week 3 in Tarrant County. Absenteeism due to ILI and school nurse office visits due to ILI were 4.0% and 5.6% respectively during week 3 in Tarrant County.
- The percentage of rapid flu test positives in Tarrant County remained the same from week 2 to week 3 at 27.7%.
- Based on data from 12 voluntarily reporting hospitals, the percentage of reported ICU admissions due to influenza in Tarrant County was 7.2% in week 3.
- During the 2017-2018 influenza season, 0 Tarrant County influenza-associated pediatric deaths have been reported. As of week 2, 4 influenza-associated pediatric deaths have been reported in Texas, with a total of 30 reported nationwide for the 2017-2018 season.
- During the 2017-2018 influenza season, 2 influenza outbreaks have been reported in Tarrant County schools and 28 localized influenza outbreaks have been reported within institutions in Tarrant County.
- Since last report, 8 surveillance specimens were tested by The North Texas Regional Laboratory. The following types and number of viruses were detected in these specimens: Influenza A/H3 (5) and Influenza B (3). Cumulatively this season, the North Texas Regional Laboratory at Tarrant County Public Health has tested 109 surveillance specimens and of these, 56 have been positive for influenza.
- In Texas during week 2, the proportion of outpatient visits for ILI, 13.5%, was above the state baseline of 6.4%.
- Nationally during week 2, 25.6% of specimens tested and reported to the CDC were positive for influenza. The proportion of outpatient visits for ILI (6.3%) was above the national baseline (2.2%). The proportion of deaths in week 52 attributed to pneumonia and influenza from the National Center for Health Statistics (8.2%) was above the epidemic threshold (7.1%).

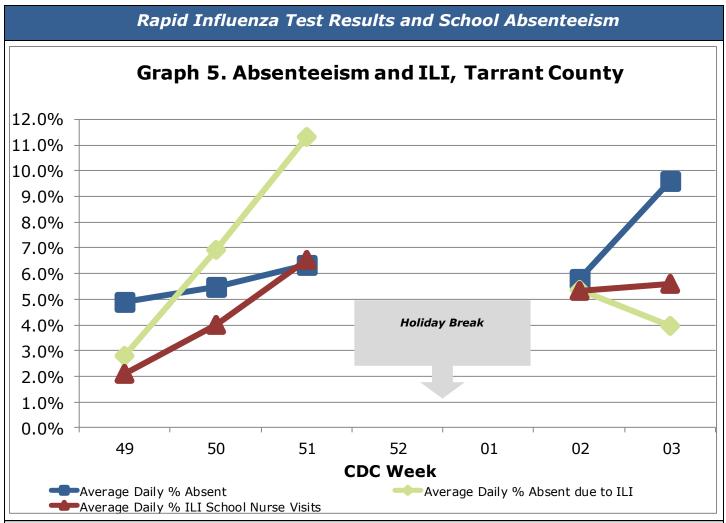


In week 3, 10.0% of visits to health care providers were due to ILI. ILI levels are currently above the county established baseline of 3.2% and are lower than the state of Texas levels. In Tarrant County, of the 2,217 reported patients presenting with ILI during week 3, the largest percentage of the reported ILI patients, 38.2%, was in the 5-24 age group.

NOTE: Tarrant County ILI activity is assessed using information provided by surveillance participants and the Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE). For week 3, 33 surveillance participants - 17 Hospitals, 11 Clinics, 4 Colleges/ Universities, and 1 Business — reported ILI information to Tarrant County Public Health. Texas ILI activity is assessed using information provided by a network of providers . For week 2, 101 providers reported information to the Texas Department of State Health Services.



Zip codes with  $\leq$ 5 cases are assigned 0. Tarrant County ILI data by zip code is obtained from ESSENCE and includes ILI numbers from 46 hospitals that voluntarily provide data based on chief complaints of Tarrant County residents admitted to Emergency Departments in North Central Texas. Zip code population data is obtained from American Community Survey 2015 5 year estimate.



For week 3, 11 school districts provided general absenteeism data, 9 school districts provided data regarding absenteeism due to ILI, and 10 school districts provided data regarding nurses' office visits due to ILI.

## Table 1. Influenza Rapid Test Results, Tarrant County

CDC Week Number	1 (Dec 31-Jan 6)	2 (Jan 7-13)	3 (Jan 14-20)
# Influenza Tests Performed	4136	4039	4272
% Influenza Positive	32.5%	27.7%	27.7%
# Influenza A Positive	1083	859	789
% Influenza A Positive	80.7%	76.9%	66.8%
# Influenza B Positive	259	258	393
% Influenza B Positive	19.3%	23.1%	33.3%
# Non-differentiated Positive	0	0	0
% Non-differentiated Positive	0%	0%	0%

*NOTE: Tarrant County rapid influenza test results are reported weekly by influenza surveillance participants. For CDC week 3, rapid influenza test results were reported by 16 hospitals, 11 clinics, and 2 colleges/universities.* 

Influenza Confirmatory Test Results: Tarrant County				
Table 2. North Texas Regional Laboratory: Respiratory Virus Results <sup>1</sup>				
	Current Week	2017-2018 Season		
Number of Specimens Tested	8	109		
Positive Specimens	8 (100%)	71 (65.1%)		
Influenza A	5 (62.5%)	41 (57.7%)		
Influenza B	3 (37.5%)	15 (21.1%)		
Respiratory Syncytial Virus	0 (0.0%)	7 (9.9%)		
Adenovirus	0 (0.0%)	0 (0.0%)		
Human Metapneumovirus	0 (0.0%)	0 (0.0%)		
Parainfluenza-1	0 (0.0%)	2 (2.8%)		
Parainfluenza-2	0 (0.0%)	0 (0.0%)		
Parainfluenza-3	0 (0.0%)	0 (0.0%)		
Rhinovirus	0 (0.0%)	7 (9.9%)		
Inconclusive <sup>2</sup>	0 (0.0%)	1 (0.9%)		

#### Influenza Confirmatory Test Results Ta

<sup>1</sup> Laboratory results based on real-time PCR analysis; information is for the 2017-2018 season.

Inconclusive for influenza A and influenza B; not included in positive specimens count. 2

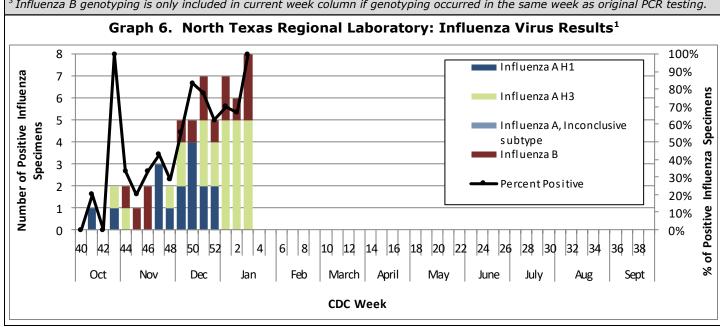
**NOTE:** Percentages do not add up to 100% due to co-infections, 1 specimens has tested positive with a co-infection: Parainfluenza-1 and Rhinovirus

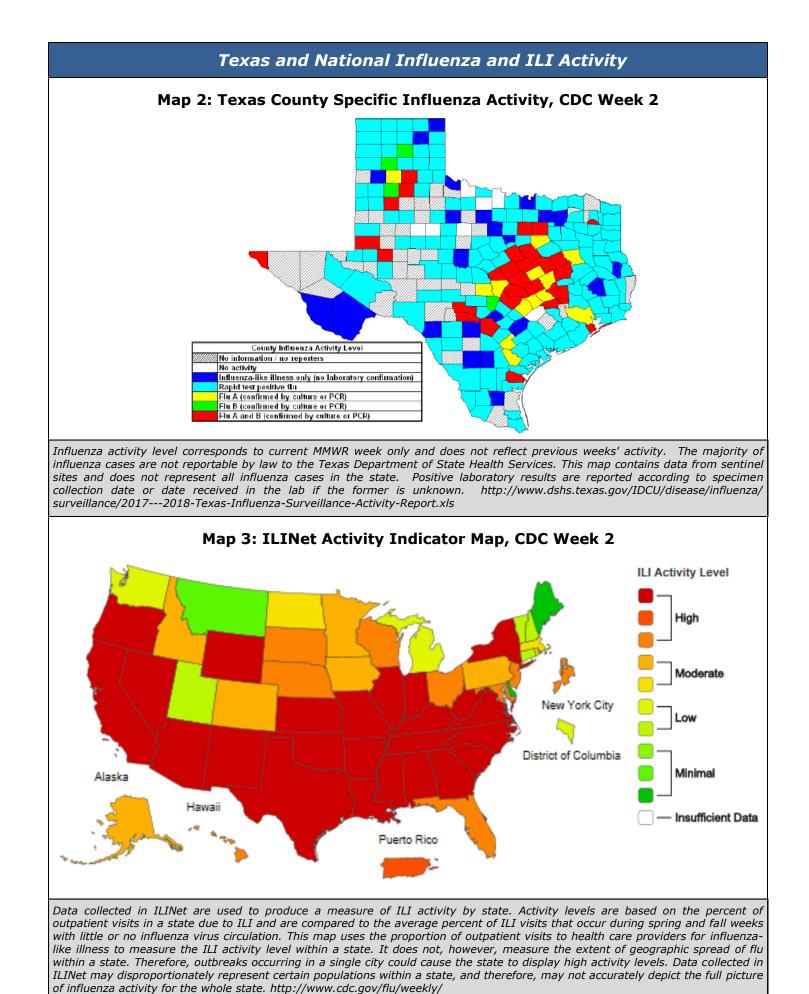
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	Current Week	2017-2018 Season	
Influenza A	5	41	
Influenza A H1	0 (0.0%)	16 (39.0%)	
Influenza A H3	5 (100%)	25 (61.0%)	
Influenza A, Inconclusive subtype	0 (0.0%)	0 (0.0%)	
Influenza A, Unsubtypeable <sup>2</sup>	0 (0.0%)	0 (0.0%)	
Influenza B	3	15	
Influenza B Yamagata <sup>3</sup>	-	10 (90.9%)	
Influenza B Victoria <sup>3</sup>	-	1 (9.1%)	

<sup>1</sup> Laboratory results based on real-time PCR analysis; information is for the 2017-2018 season.

<sup>2</sup> Influenza A subtype not determined; further analysis pending

<sup>3</sup> Influenza B genotyping is only included in current week column if genotyping occurred in the same week as original PCR testing.





The Tarrant County Influenza Surveillance Weekly Report is available on the Tarrant County Public Health web site at:

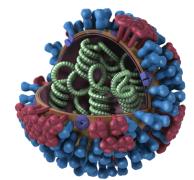
### flu.tarrantcounty.com

If you have questions or comments regarding influenza surveillance, please contact:

Laura Lockwood, MPH, CPH Influenza Surveillance Specialist Iblockwood@tarrantcounty.com

### **Tarrant County Public Health** Influenza Surveillance Epidemiology and Health Information

1101 South Main Street, Suite 2200 Fort Worth, TX 76104



**Veerinder (Vinny) Taneja, MBBS; MPH** *Director, Tarrant County Public Health* 

### NOTE:

Influenza-like Illness (ILI) is defined as fever (temperature  $\geq$  100°F) plus a cough OR a sore throat, in the absence of a known cause other than influenza.

Tarrant County reporting quadrants consist of Northwest, Northeast, Southwest and Southeast regions within the boundaries of Interstate 35 and Interstate 30.

Tarrant County ILI baselines were determined using a method similar to the Centers for Disease Control Prevention Regional ILI baselines and Texas Department of State Health Services Texas baseline. Regional ILI baselines are determined by the Centers for Disease Control and Prevention and can be accessed at http://www.cdc.gov/flu/weekly/overview.htm

Additional information regarding Tarrant County, Texas and national ILI activity can be accessed at

flu.tarrantcounty.com

http://dshs.texas.gov/idcu/disease/influenza/surveillance/2017/

http://www.cdc.gov/flu/weekly/

Russ Jones, MPH Division Manager & Chief Epidemiologist Epidemiology and Health Information Tarrant County Public Health

Main Epidemiology Division Number : (817) 321-5350 Disease Reporting Fax Number: (817) 850-2366