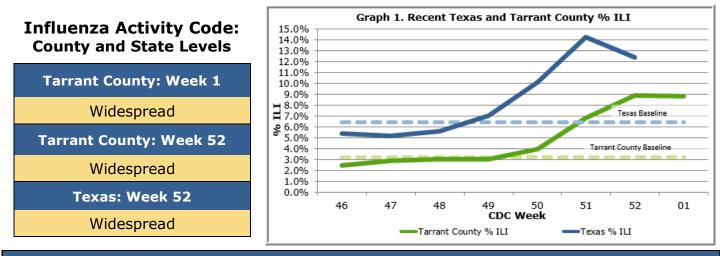
## Tarrant County Public Health Division of Epidemiology and Health Information

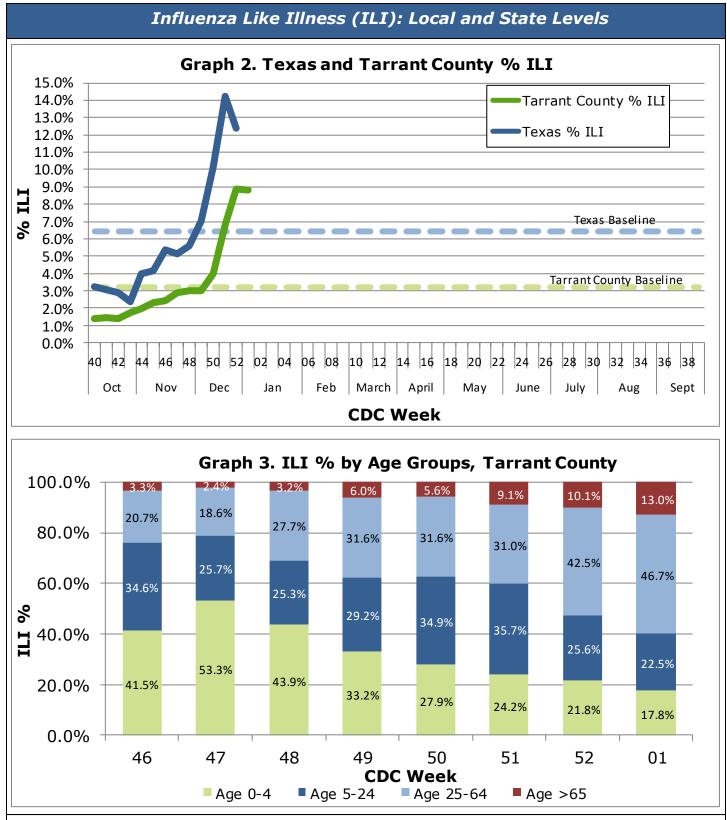


# Tarrant County Influenza Surveillance Weekly Report CDC Week 1: Dec 31-Jan 6, 2018



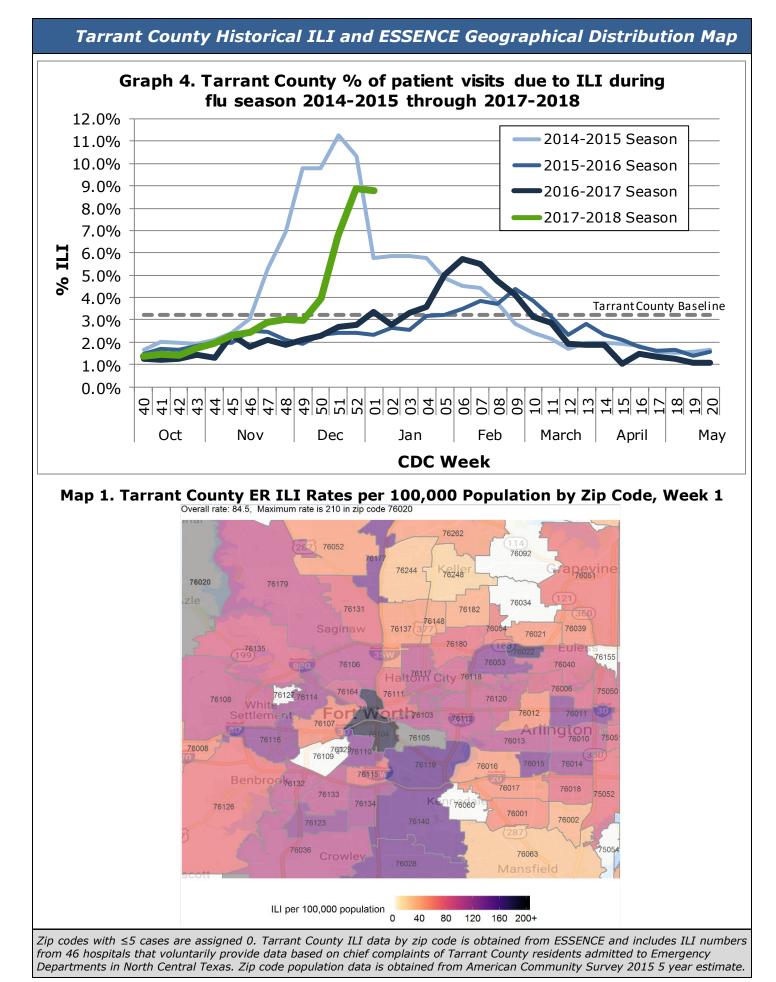
#### **Respiratory Virus Activity Summary**

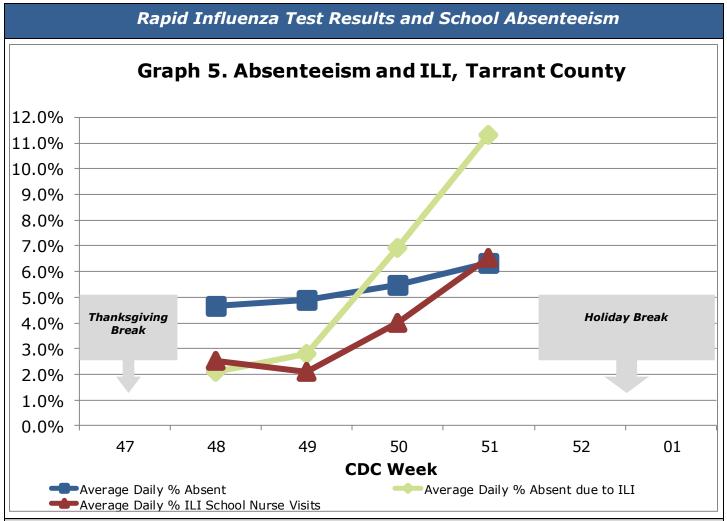
- The percentage of reported influenza-like illness (ILI) in Tarrant County decreased from 8.9% in week 52 to 8.8% in week 1 and is currently above the 2017-2018 Tarrant County baseline (3.2%).
- Due to school closures for the holidays, no absenteeism information is presented for week 1.
- The percentage of rapid flu test positives in Tarrant County increased from 26.9% in week 52 to 32.5% in week 1.
- Based on data from 12 voluntarily reporting hospitals, the percentage of reported ICU admissions due to influenza in Tarrant County was 10.4% in week 1.
- During the 2017-2018 influenza season, 0 Tarrant County influenza-associated pediatric deaths have been reported. As of week 52, 1 influenza-associated pediatric death has been reported in Texas, with a total of 13 reported nationwide for the 2017-2018 season.
- During the 2017-2018 influenza season, 1 influenza outbreak has been reported in a Tarrant County school and 14 localized influenza outbreaks has been reported within institutions in Tarrant County.
- Since last report, 10 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), Influenza B (2), RSV (1), and inconclusive (1). Cumulatively this season, the North Texas Regional Laboratory at Tarrant County Public Health has tested 92 surveillance specimens and of these, 42 have been positive for influenza.
- In Texas during week 52, the proportion of outpatient visits for ILI, 12.4%, was above the state baseline of 6.4%.
- Nationally during week 52, 25.5% of specimens tested and reported to the CDC were positive for influenza. The proportion of outpatient visits for ILI (5.8%) was above the national baseline (2.2%). The proportion of deaths in week 50 attributed to pneumonia and influenza from the National Center for Health Statistics (6.7%) was below the epidemic threshold (6.9%).



In week 1, 8.8% 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 2,185 reported patients presenting with ILI during week 1, the largest percentage of the reported ILI patients, 46.7%, was in the 25-64 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 1, 30 surveillance participants - 19 Hospitals, 7 Clinics, 3 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 52, 59 providers reported information to the Texas Department of State Health Services.





For week 1, school districts were closed for all of or most of the week due to the holiday break, so data is not available including general absenteeism data, data regarding absenteeism due to ILI, or data regarding nurses' office visits due to ILI.

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

CDC Week Number	51 (Dec 17-23)	52 (Dec 24-30)	1 (Dec 31-Jan 6)
# Influenza Tests Performed	3736	4313	4136
% Influenza Positive	30.3%	26.9%	32.5%
# Influenza A Positive	1001	992	1083
% Influenza A Positive	88.6%	85.4%	80.7%
# Influenza B Positive	129	170	259
% Influenza B Positive	11.4%	14.6%	19.3%
# 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 1, rapid influenza test results were reported by 16 hospitals, 7 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	10	92		
Positive Specimens	8 (80.0%)	57 (62.0%)		
Influenza A	5 (62.5%)	31 (54.4%)		
Influenza B	2 (25.0%)	11 (19.3%)		
Respiratory Syncytial Virus	1 (12.5%)	7 (12.3%)		
Adenovirus	0 (0.0%)	0 (0.0%)		
Human Metapneumovirus	0 (0.0%)	0 (0.0%)		
Parainfluenza-1	0 (0.0%)	2 (3.5%)		
Parainfluenza-2	0 (0.0%)	0 (0.0%)		
Parainfluenza-3	0 (0.0%)	0 (0.0%)		
Rhinovirus	0 (0.0%)	7 (12.3%)		
Inconclusive <sup>2</sup>	1 (10.0%)	2 (2.2%)		

#### Influenza Confirmatory Test Results: Tarrant County

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

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

**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

Table 3.	North Texas Regional Laboratory: Influenza Re	sults <sup>1</sup>
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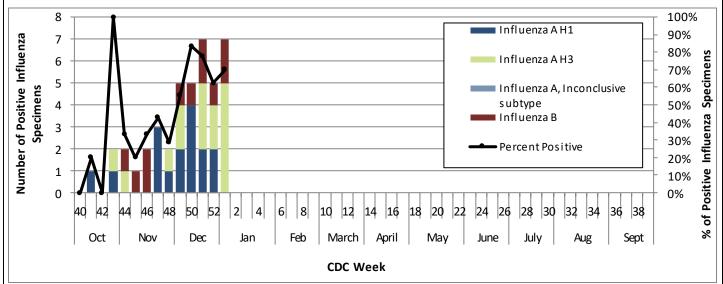
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	Current Week	2017-2018 Season
Influenza A	5	31
Influenza A H1	0 (0.0%)	16 (51.6%)
Influenza A H3	5 (100%)	15 (48.4%)
Influenza A, Inconclusive subtype	0 (0.0%)	0 (0.0%)
Influenza A, Unsubtypeable <sup>2</sup>	0 (0.0%)	0 (0.0%)
Influenza B	1	11
Influenza B Yamagata <sup>3</sup>	2 (100%)	10 (90.9%)
Influenza B Victoria <sup>3</sup>	0 (0.0%)	1 (9.1%)

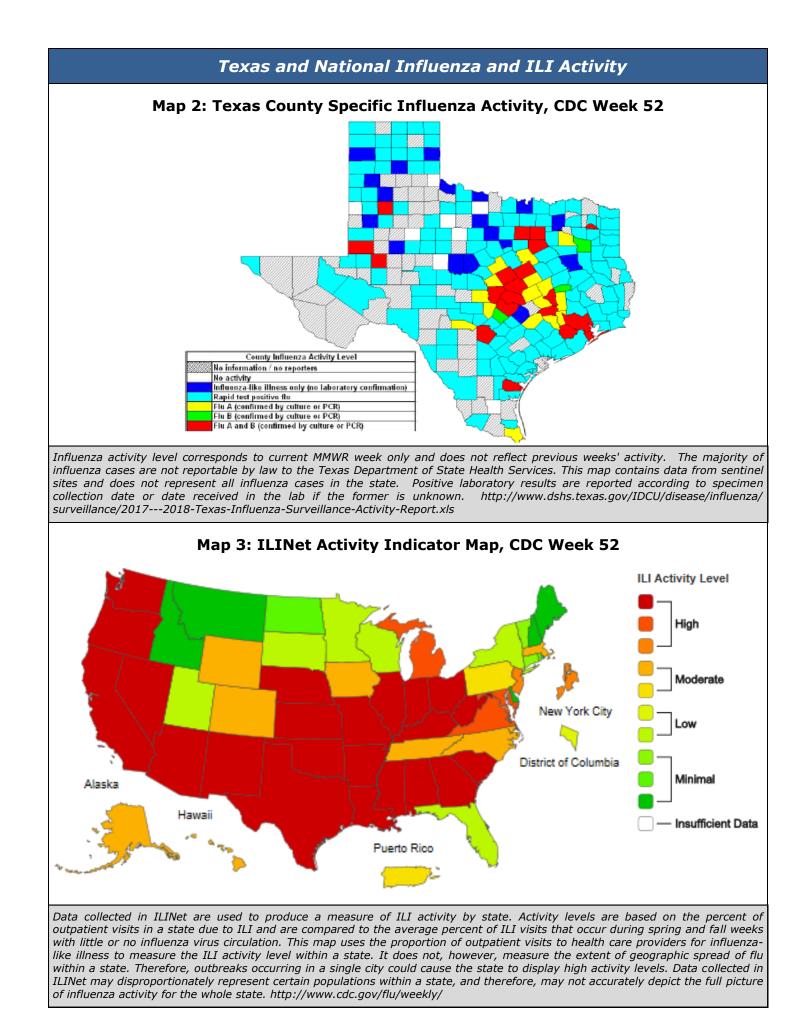
<sup>1</sup> Laboratory results based on real-time PCR analysis; information is for the 2017-2018 season.

<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:

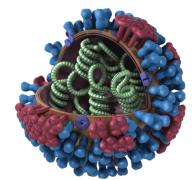
#### flu.tarrantcounty.com

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

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#### 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/

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