



Austin/Travis County Health and Human Services Department
Epidemiology and Health Statistics Unit



Travis County Influenza Surveillance

This report contains data for the 2015-2016 Influenza Season through January 30, 2016 (MMWR¹ week 04).

Situation Update:

- The Centers for Disease Control and Prevention (CDC) report flu activity continues to increase slowly; however, there are localized pockets of high activity in parts of the country.
- H1N1 viruses are most common at this time. CDC recommends an annual flu vaccine for everyone 6 months of age and older.
- Nationwide, 2.2% of patient visits reported through the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) were due to influenza-like illness (ILI). This percentage is above the national baseline of 2.1% for the first time this season.
- In Texas, the percentage of visits for influenza-like illness as reported by ILINet providers was 6.38%. Locally, the percentage of visits was 2.23%.
- Nationally, the percentage of specimens testing positive for influenza viruses in the United States was 6.8%. Of the specimens characterized at the CDC, 64.0% were influenza A viruses and 36.0% were influenza B viruses. Of the influenza A viruses that were subtyped, 40% were H3 viruses and 60% were H1N1.
- Flu activity in Texas is considered Regional. Statewide, 5.78% specimens tested in influenza surveillance labs were positive for influenza; 88 (69.29%) of the 127 influenza-positive tests were influenza A viruses and 39 (30.71%) were influenza B viruses.
- Two out of five specimens submitted by Travis County this past week tested positive for influenza A H3 and influenza B.
- Antiviral resistance was tested on 439 specimens; all but two viruses showed susceptibility to oseltamivir (Tamiflu), zanamir (Relenza), and [peramir \(Rapivab\)](#).
- Nationwide, the proportion of deaths attributed to pneumonia and influenza is below the epidemic threshold of 7.6%. Locally, the number of deaths attributed to pneumonia and influenza are below historical trends.



Austin/Travis County Health and Human Services Department Epidemiology and Health Statistics Unit



- Nine pediatric influenza related deaths has been reported nationally. No pediatric influenza related deaths have been reported in Texas.

Preventive Actions:

- The CDC recommends that anyone six months of age and older should be vaccinated for the flu every flu season. Individuals who are at high risk are especially advised to be vaccinated. High risk individuals are as follows:
 - Persons 65 years of age and older
 - Pregnant women
 - Individuals with certain chronic medical conditions, including diabetes, asthma, heart and lung disease
 - Health care workers
 - Individuals who live with and/or care for high risk individuals
- In addition to the vaccine, there are certain preventive measures an individual can take to prevent the flu:
 - Wash your hands often with soap and water, or use an alcohol-based hand sanitizer if soap is not available.
 - Practice proper sneezing and coughing measures.
 - Avoid touching your nose, mouth and eyes.
 - Avoid coming into contact with an individual who is sick.
 - If you are sick, stay home until you are fever free for 24 hours without the use of fever-reducing medications.

Although these preventive actions are highly recommended they do not take the place of the flu vaccine.

Other Helpful Resources: [Texas Department of State Health Services \(DSHS\)](#)
[World Health Organization \(WHO\)](#)
[Centers for Disease Control and Prevention \(CDC\)](#)



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Figure 1. Influenza Surveillance, Travis County Providers^{4,5,6}

Week Ending	12/12/2015	12/19/2015	12/26/2015	1/2/2016	1/9/2016	1/16/2016	1/23/2016	1/30/2016
MMWR Week	49	50	51	52	1	2	3	4
# Influenza Rapid Tests Performed	399	615	610	592	704	745	809	1005
# Total Positive Influenza Tests	9	18	24	25	61	96	71	114
% Positive Influenza Tests	2.3%	2.9%	3.9%	4.2%	8.7%	12.9%	8.8%	11.3%
# Positive A Influenza	2	10	11	6	30	27	36	58
# Positive B Influenza	7	7	12	19	24	35	35	55
# Non-Differentiated Influenza ³	0	1	1	0	7	34	0	1

Data source: Austin/Travis County Influenza surveillance reporters

Figure 2. Travis County Confirmed Influenza Test Results:^{2,9,10}

	1/30/2015- 4/4/2015	4/10/2015- 6/13/2015	6/19/2015- 8/22/2015	8/28/2015- 10/31/2015	11/01/2015- 01/09/2016	11/01/2015- 01/09/2016
MMWR Week	4-13	14-23	24-33	34-43	44-01	02-11*
Influenza A (Total Positive PCR Tests)	6	0	0	0	1	3
Subtype	Seasonal H1N1	0	0	0	0	0
	Season H3N2	6	0	0	0	1
	Not Subtyped	0	0	0	0	1
Influenza B (Total Positive PCR Tests)	7	0	0	0	2	2
PCR Negative Specimens	10	6	2	20	20	8

* Incomplete data.

** 1 test was culture confirmed rather than PCR confirmed

Data source: Austin/Travis County Influenza surveillance reporters and the Department of State Health Services lab

Austin/Travis County influenza surveillance does not attempt to capture all cases of influenza or influenza-like illness. These data should be used for trending purposes over time and for identifying types/strains of influenza that are occurring in the Austin area rather than for estimating the total number of cases.



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Figure 3. Influenza Testing by Texas Laboratories^{11, 14}

	Week 04	Season to Date
Number of labs reporting flu tests	21	
Number of specimens tested	2198	30147
Number of positive specimens (%)†	127 (5.78%)	709 (2.35%)
Percentage of total tests that were antigen detection tests	45.13%	
Positive specimens by type/subtype/lineage [n (%)]		
Influenza A	88 (69.29%)	409 (57.69%)
Subtyping performed	45 (51.14%)	126 (30.81%)
A (H1N1)	30 (66.67%)	65 (51.59%)
A (H3N2)	15 (33.33%)	61 (48.41%)
Subtyping not performed	43 (48.86%)	283 (69.19%)
Influenza B	39 (30.71%)	300 (42.31%)
Lineage testing performed	2 (5.13%)	14 (4.67%)
B/Victoria	2 (100.00%)	7 (50.00%)
B/Yamagata	0 (0.00%)	7 (50.00%)
Lineage testing not performed	37 (94.87%)	286 (95.33%)

Figure 4. Texas Respiratory Laboratory Results:

Virus	Number of Laboratories Testing	Tests Performed	Positive Tests	Percentage of Tests Positive
Adenovirus (respiratory)	9	1067	52	4.87%
HMPV	8	1041	16	1.54%
Parainfluenza virus	9	1060	20	1.89%
Rhinovirus	7	891	235	26.37%
RSV† ^A	15	1806	425	23.53%
Seasonal coronavirus (does not include MERS-CoV)	5	861	57	6.62%

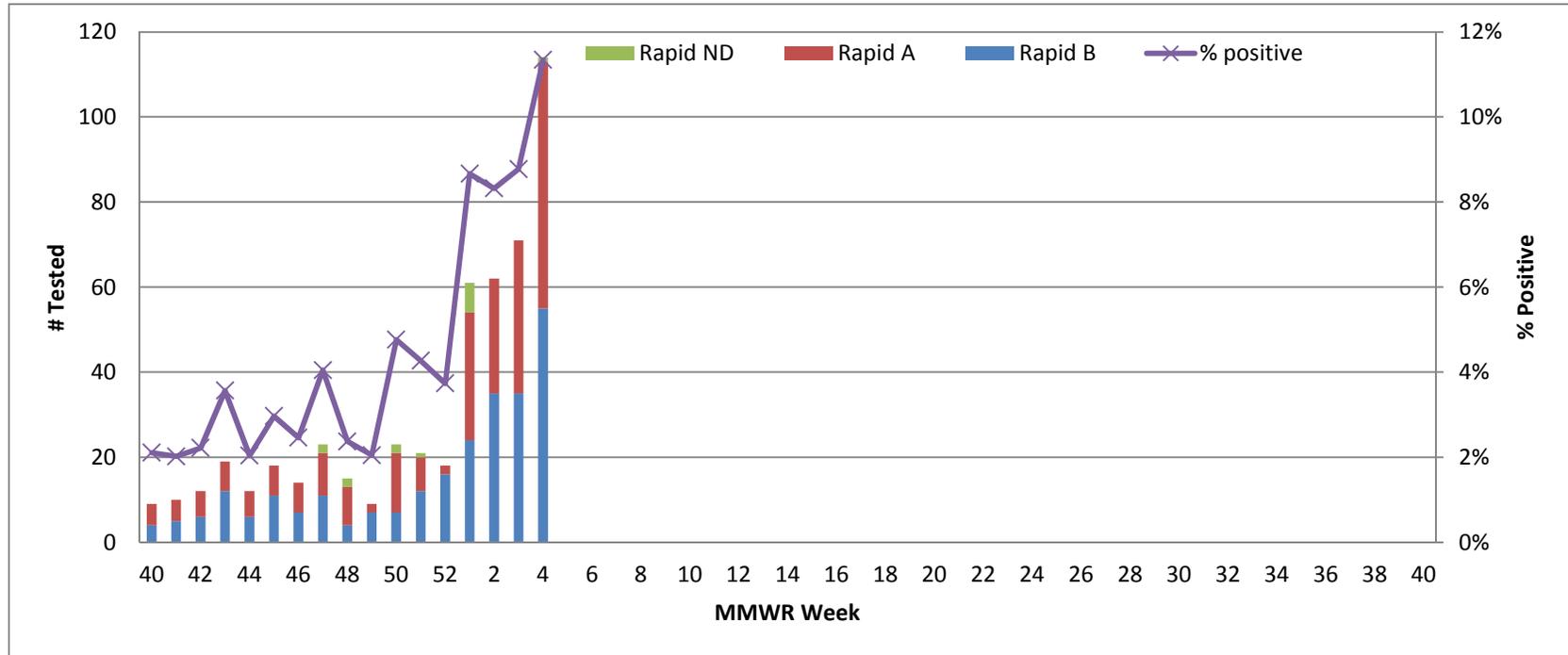
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Figure 5. Number Tested and Percent Positive Rapid Influenza Tests by Week, Travis County: 2012-2015 Influenza Season^{4,5,6,8}



Data source: Austin/Travis County Influenza surveillance reporters

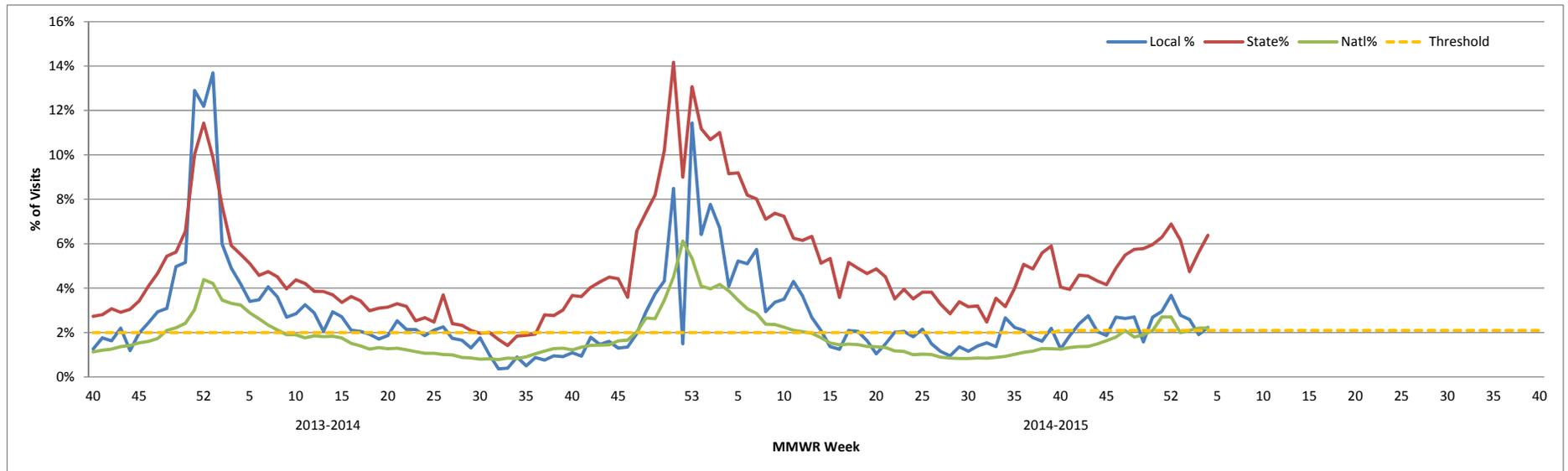
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Figure 6. Percentage of Visits Due to Influenza-like-Illness Reported by Travis County Participants in ILINet: 2009-2015⁸



Data source: CDC ILI.net system

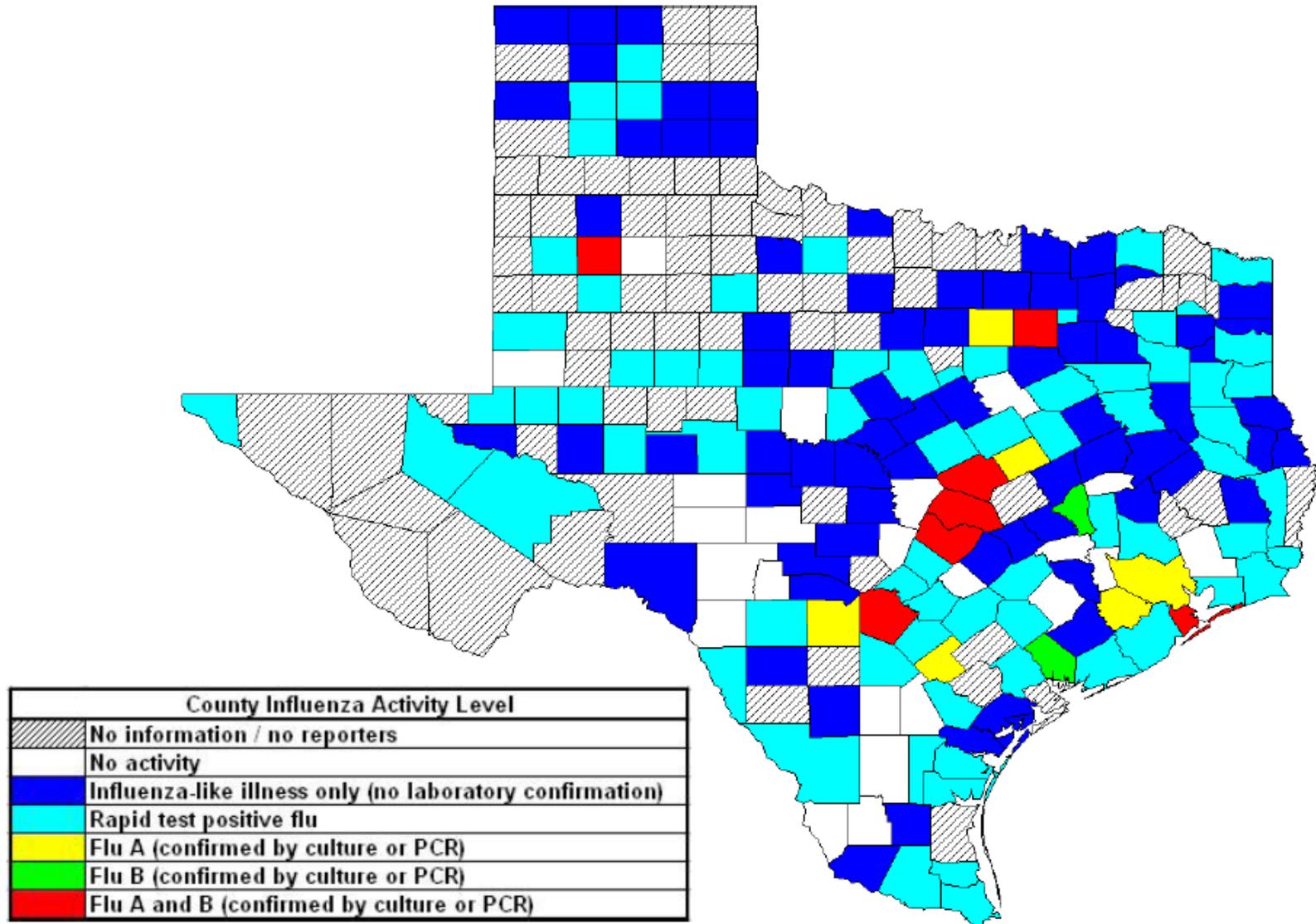
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Figure 7. Statewide Influenza Activity^{10,12,13}



This chart was obtained from the Texas Influenza Surveillance Report <http://www.dshs.state.tx.us/idcu/disease/Influenza/surveillance/2013/>

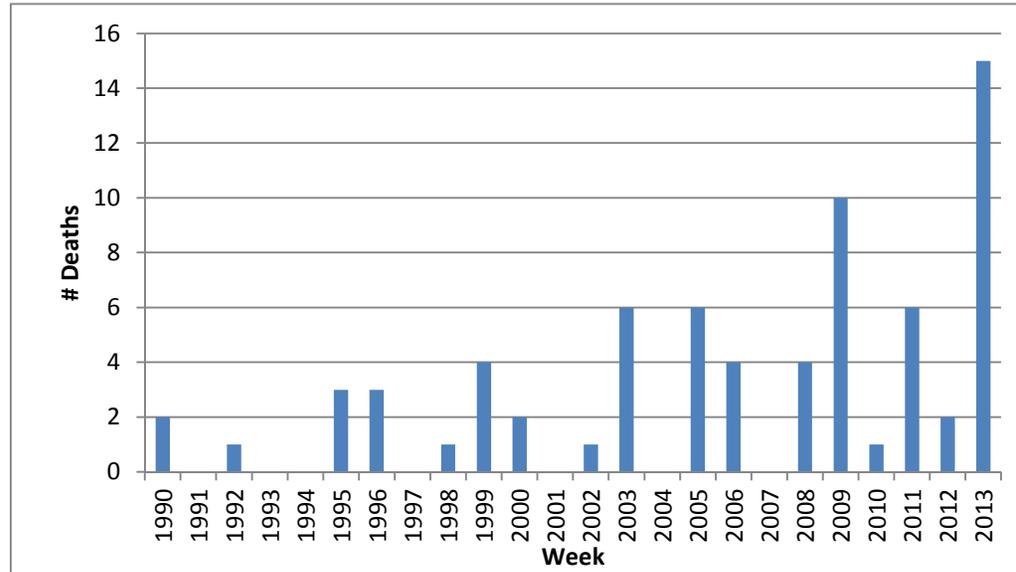
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**Figure 8. Annual Influenza Related Mortality,
Travis County: 1990-2013**



Data source: Texas Department of State Health Services <http://soupfin.tdh.state.tx.us/deathdoc.htm> Data as of September 12, 2012

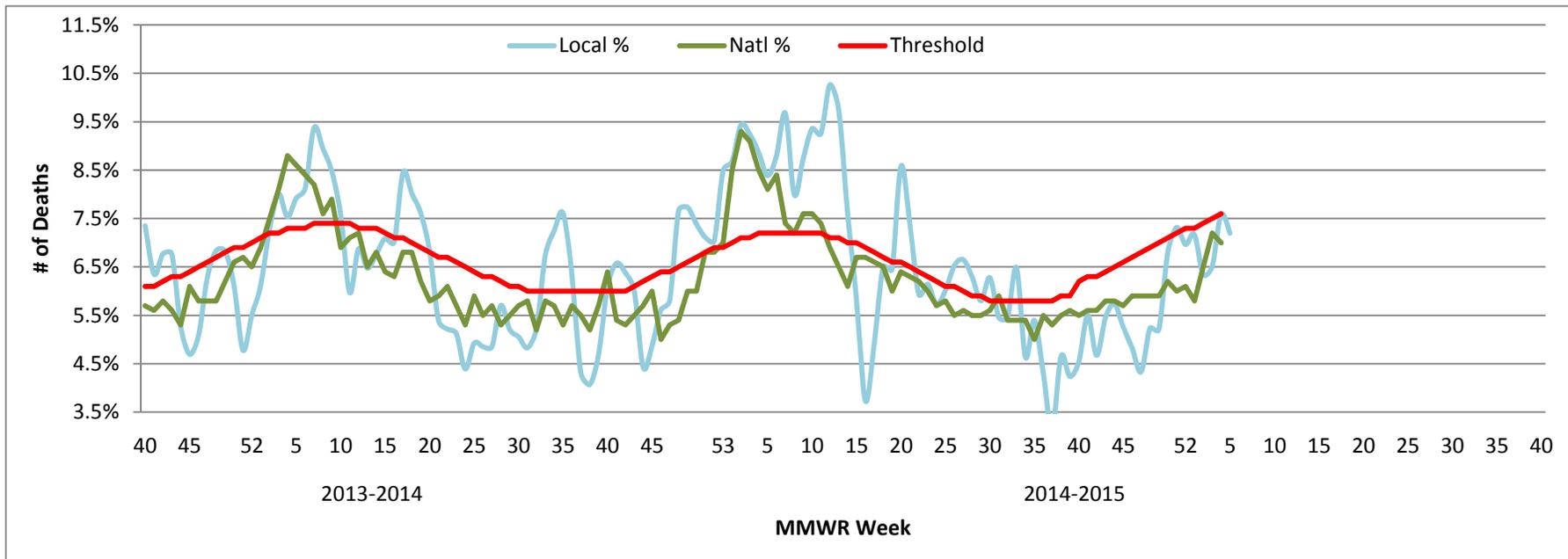
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Figure 9. City of Austin Pneumonia and Influenza Mortality: 2010-2015



Data source: Center for Disease Control and Prevention 122 Cities Mortality: <http://wonder.cdc.gov/mmwr/mmwmort.asp>

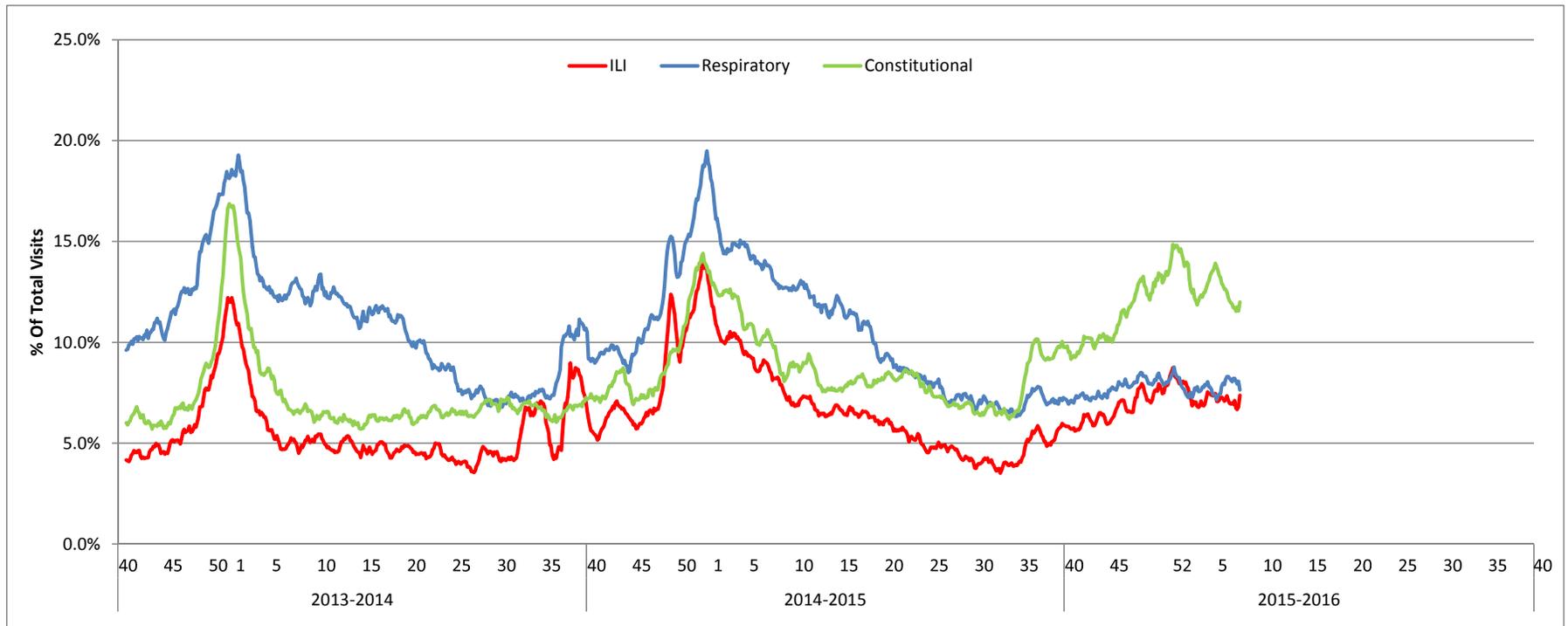
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Figure 10. RODS Syndromic Surveillance Data,
Travis County: 2010-2015



Data source: University of Pittsburgh Real-time Outbreak and Disease Surveillance System. Data is an aggregation of Austin area chief complaint hospital data

*For additional information about Influenza surveillance, contact:
The Austin/Travis County Health and Human Services Epidemiology and Health Statistics Unit at (512) 972-5555*

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- 1 MMWR is the Morbidity and Mortality weekly report week published by the CDC.
- 2 PCR testing is performed for specimens referred by area sentinel Influenza surveillance reporters. Providers interested in becoming sentinel providers may call the Austin/Travis County Health and Human Services Epidemiology and Health Statistics Unit at (512) 972-5555.
- 3 Influenza A is commonly split into 2 subtypes: H1N1 and H3N2. Both strains can circulate each Influenza season.
- 4 Influenza is not a reportable condition in Texas; therefore, data is provided by sentinel surveillance reporters and is only a sample of the Influenza activity occurring in the Austin/Travis County area.
- 5 Data represent rapid Influenza testing; these tests provide quick results reporting only Influenza A or B (no subtyping). Early in the flu season, results should be used with caution due to false positive results which can occur, especially during times when Influenza activity is low.
- 6 Influenza data is collected from a variety of reporters; the number of reporters can vary from week to week.
- 7 Non-Differentiated refers to rapid test results that do not differentiate between Influenza A and B.
- 8 Data for Austin/Travis County ILI reporters only; the number of reporters can vary from week to week.
- 9 Influenza is confirmed via PCR testing and a further subtyping may be performed. PCR testing is performed for specimens referred by area Influenza surveillance reporters.
- 10 Positive laboratory results are reported according to specimen collection date or date received in the lab if the former is unknown.
- 11 Antigenic characterization and antiviral resistance is obtained from the Texas Influenza Surveillance Report <http://www.dshs.state.tx.us/idcu/disease/Influenza/surveillance/2013/>.
- 12 Influenza activity level corresponds to the current MMWR week only and does not reflect the previous weeks' activity.
- 13 The majority of Influenza cases are not reportable by law to the Texas Department of State Health Services. This map contains data from sentinel sites and does not represent all Influenza cases in the state.
- 14 Laboratory data in 2013-2014 season reports may not be comparable to reports from previous seasons because of the inclusion of DSHS and LRN laboratory data for the current season.
- 15 Some non-NREVSS reporters also contribute to the RSV data.
- 16 CDC: Flu Activity Expands; Severity Similar to Past H3N2 Seasons <http://www.cdc.gov/flu/news/flu-activity-expands.htm>