

Sentinel Provider Influenza-Like Illness (ILI)¹ Surveillance Summary [\(health.state.tn.us/TNflu_report_archive.htm\)](http://health.state.tn.us/TNflu_report_archive.htm) for the Week of Dec. 14-20, 2014 (Week 51)

| Summary for | # Sites reporting | Total Sites | Total Regional ILI | Total Regional Patients | % ILI | Compared to State ² |
|-------------------------------|-------------------|-------------|--------------------|-------------------------|-------|--------------------------------|
| Hamilton County (Chattanooga) | 3 | 4 | 10 | 294 | 3.4% | |
| East Tennessee Region | 4 | 7 | 37 | 819 | 4.5% | higher |
| Jackson-Madison County | 0 | 1 | 0 | 0 | 0.0% | n/a |
| Knoxville-Knox County | 2 | 4 | 15 | 579 | 2.6% | |
| Mid-Cumberland Region | 7 | 10 | 24 | 551 | 4.4% | higher |
| Shelby County (Memphis) | 2 | 4 | 5 | 607 | 0.8% | lower |
| Nashville-Davidson County | 3 | 5 | 28 | 233 | 12.0% | higher |
| Northeast Region | 2 | 3 | 7 | 135 | 5.2% | |
| South Central Region | 2 | 3 | 0 | 126 | 0.0% | |
| Southeast Region | 4 | 5 | 1 | 190 | 0.5% | |
| Sullivan County (Tri-Cities) | 1 | 2 | 1 | 320 | 0.3% | lower |
| Upper Cumberland Region | 4 | 4 | 7 | 568 | 1.2% | lower |
| West Tennessee Region | 6 | 6 | 4 | 333 | 1.2% | |
| State of Tennessee | 40 | 58 | 139 | 4755 | 2.92% | |

The percentage of influenza A (H3N2) viruses analyzed in the U.S. that are antigenically different from the H3N2 vaccine virus has increased to 69.4%. This testing is done by CDC on a small subset of samples nationally.

- Although the vaccine is likely less effective at preventing infection with drifted strains, vaccination remains strongly recommended: it may help reduce the severity of illness.
- Prompt treatment with antiviral medication can shorten the duration of symptoms, reduce risk of complications and risk of death in hospitalized patients. Treatment is especially recommended for patients hospitalized with suspected influenza and those at risk of complications (children under 2, pregnant women, adults with chronic health problems and adults 65 and older). Treat based on clinical judgment and do not rely on a negative rapid influenza test (false negative rates can run 10-70%).
- Other good health habits, like hand washing, cough etiquette, and staying home when ill, can decrease the spread of influenza.

The percentage of patients with ILI reported in Week 51 was 2.92% as compared to 3.48% in Week 50. Testing results from 439 specimens from Week 51 were available from TDH Laboratory Services (n=46) and two commercial laboratories serving outpatient clinics and hospitals in Tennessee: 113 (25.7%) were positive for influenza viruses, mostly A/H3 (13.0%) or untyped influenza A (80.5%) viruses. Forty-four of 95 counties in Tennessee had positive influenza specimens in Week 51.

SPN sites should submit specimens year-round from ALL patients meeting the ILI case definition: Fever > 100°F (37.8°C) plus cough and/or sore throat, in the absence of a known cause (other than influenza). Case definition is not dependent on any test. If you have questions, contact your regional or state SPN representative. The TDH specimen submission form dated Oct 2014 should be used.

Specimens are critical to be able to track the geographic spread and intensity of seasonal influenza viruses, to detect the emergence of novel virus and/or antiviral resistance and provide data for vaccine strain selections.

Respiratory Viral Panel

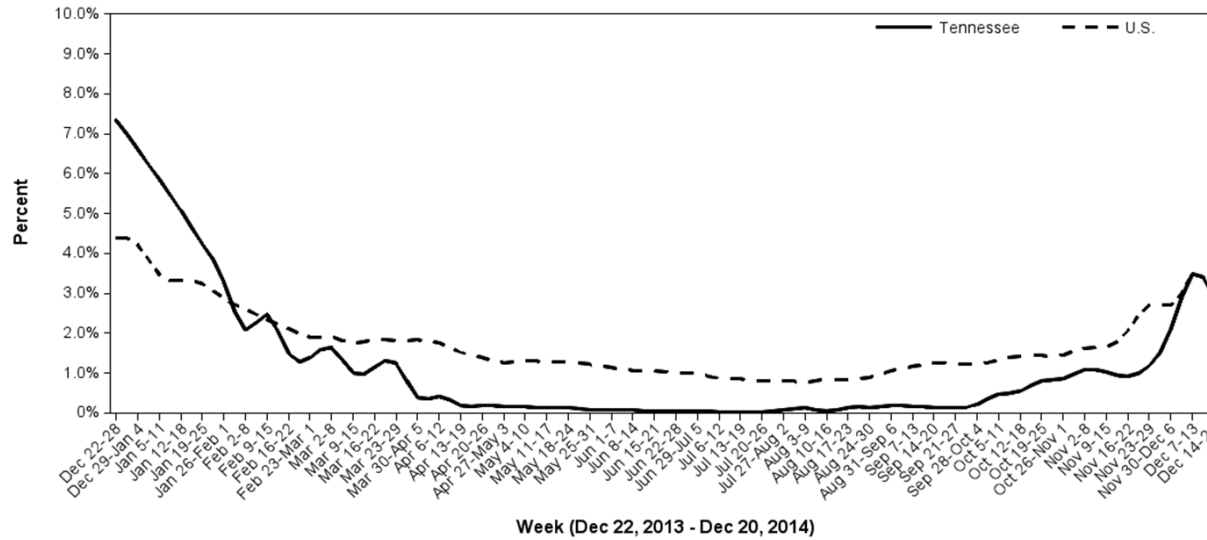
Number of Positive Specimens, by week

| Month/Week | # [†] | Flu A (H1N1) | Unsub. Flu A | Flu A (H3) | Flu B | RSV A | RSV B | Paraflu 2 | Paraflu 3 | Paraflu 4 | Rhino | Meta-pneumo | Adeno B or E | Adeno C | Corona OC43 | Corona NL63 |
|-----------------|----------------|--------------|--------------|------------|-------|-------|-------|-----------|-----------|-----------|-------|-------------|--------------|---------|-------------|-------------|
| December | | | | | | | | | | | | | | | | |
| Current | 439 | 0 | 91 | 17 | 5 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 50 | 509 | 1 | 44 | 45 | 1 | 1 | 5 | 1 | 1 | 1 | 6 | 1 | 5 | 1 | 5 | 0 |
| 49 | 145 | 0 | . | 32 | 1 | 0 | 4 | 2 | 0 | 0 | 15 | 2 | 2 | 1 | 4 | 1 |
| November | | | | | | | | | | | | | | | | |
| 48 | 63 | 0 | . | 14 | 0 | 0 | 2 | 2 | 0 | 1 | 6 | 0 | 1 | 1 | 0 | 0 |
| 47 | 51 | 0 | . | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 8 | 0 | 3 | 0 | 0 | 0 |
| 46 | 55 | 0 | . | 2 | 0 | 0 | 0 | 3 | 0 | 1 | 12 | 0 | 3 | 0 | 0 | 0 |

[†] Effective Dec. 7, 2014, TDH laboratory surveillance for influenza includes PCR and culture results for Tennessee specimens submitted to two commercial laboratories serving outpatient clinics and hospitals statewide. These numbers are added to those from TDH Laboratory Services and will provide a more accurate picture of influenza activity from previously under-represented areas of the state.

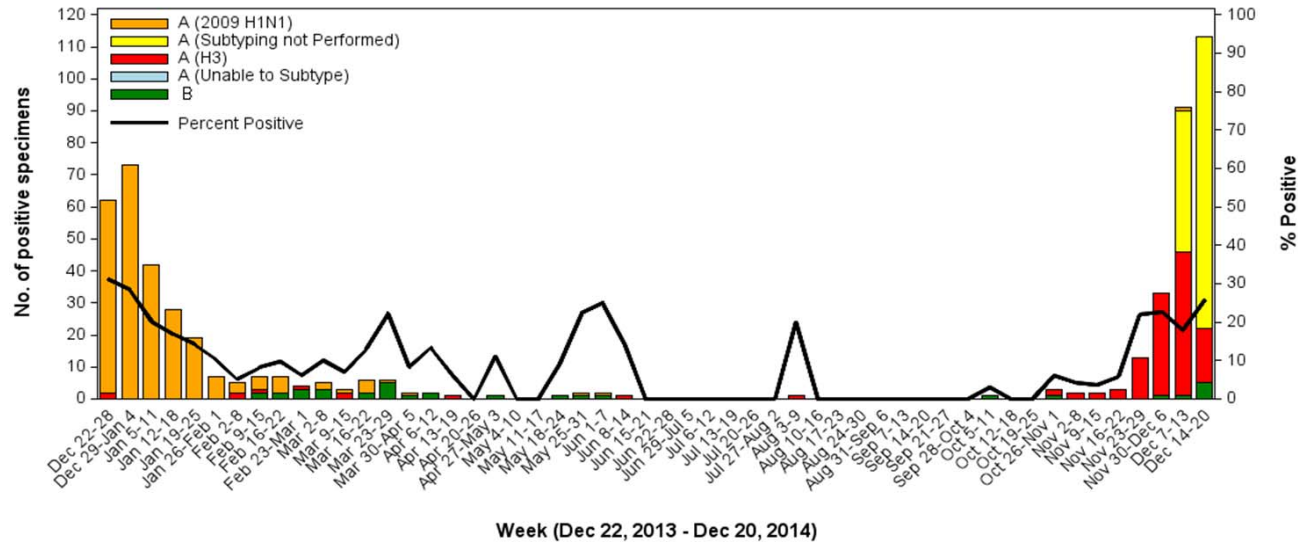
Percentage of Outpatient Visits Reported by the U.S. and Tennessee Outpatient Influenza-like Illness Surveillance Network (ILINet) as Influenza-like Illness, 2014-2015

Updated: December 26, 2014



Influenza Positive Tests Submitted to TN Dept. of Health Laboratory Services Tennessee, 2014-2015

Updated: December 26, 2014



Note: Change to Methods:
Effective Dec. 7, 2014, TDH laboratory surveillance for influenza includes PCR and culture results for Tennessee specimens submitted to two commercial laboratories serving outpatient clinics and hospitals statewide. These numbers are added to those from TDH Laboratory Services and will provide a more accurate picture of influenza activity from previously under-represented areas of the state.

Reference Information for Sentinel Provider Network

1 Influenza-like illness (ILI) is defined as fever > 100°F (37.8°C) plus cough and/or sore throat, in the absence of a known cause (other than influenza). Classification of ILI is based upon symptoms only and does not require any test.

2 The % of patients with ILI seen in each region is compared to the statewide average. Regions with % statistically-significantly different from the state average are noted as "higher" or "lower." The CDC reports that the percentage of patients visiting outpatient healthcare providers in the Sentinel Provider Network (SPN) with influenza-like-illness (ILI) when influenza viruses are not circulating is expected to fall at or below a specific SPN baseline [nationwide = 2.2%, East South Central region (AL, TN, MS, KY) = 2.3%]. When the percentage of patients with ILI exceeds this baseline, this suggests that influenza viruses may be circulating.

Important information for Sentinel Providers

Sentinel Providers report ILI by the end of Tuesday following the end of the reporting week (www2a.cdc.gov/ilinet) and collect and ship specimens from ILI cases Monday through Thursday (maximum 10/week per provider). All Sentinel Provider specimens MUST be accompanied by the Influenza and Respiratory Viral Panel Submission form or testing will not be done. The Respiratory Viral Panel is only validated for nasopharyngeal (NP) specimens. Specimens collected from other sites cannot be tested.

Additional laboratory supplies can be obtained by completing the lab order supply form. To ensure the order is filled, please include the CDC Provider ID Code.

Contact Information

Submit weekly reports to: <http://www2a.cdc.gov/ilinet/> OR Fax 888-232-1322

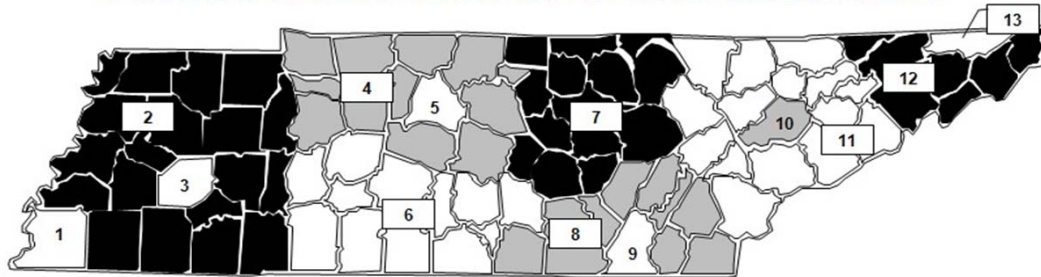
State Lab: Dr. Amy Woron (Molecular Biology, PCR) 615-262-6362
Jim Gibson (Virology, Respiratory Viral Panel) 615-262-6300

SPN Questions:

State: Robb Garman 800-404-3006 OR 615-741-7247

County/Region: Regional SPN Coordinator (see map)

TENNESSEE SENTINEL PROVIDER NETWORK COORDINATORS



| | | |
|----|-----------------------------|--------------|
| 1 | Shelby County | 901-222-9239 |
| 2 | West TN Region | 731-421-6758 |
| 3 | Jackson-Madison County | 731-927-8540 |
| 4 | Mid-Cumberland Region | 615-650-7000 |
| 5 | Nashville-Davidson County | 615-340-0551 |
| 6 | South Central Region | 931-380-2532 |
| 7 | Upper Cumberland Region | 931-646-7505 |
| 8 | Southeast Region | 423-634-6065 |
| 9 | Chattanooga-Hamilton County | 423-209-8063 |
| 10 | Knoxville-Knox County | 865-215-5084 |
| 11 | East TN Region | 865-549-5287 |
| 12 | Northeast Region | 423-979-3200 |
| 13 | Sullivan County | 423-279-7545 |

The Tennessee Department of Health Mission: To protect, promote and improve the health and prosperity of people in Tennessee.

Our Vision: A recognized and trusted leader, partnering and engaging to accelerate Tennessee to one of the nation's ten healthiest states.