

Sentinel Provider Influenza-Like Illness (ILI)¹ Surveillance Summary (health.state.tn.us/TNflu_report_archive.htm)
for the Week of January 19-25, 2014 (Week 4)

Summary for	# Sites reporting	Total Sites	Total Regional ILI	Total Regional Patients	% ILI	Compared to State ²
Hamilton County (Chattanooga)	3	4	5	292	1.7%	lower
East Tennessee Region	7	8	195	2212	8.8%	higher
Jackson-Madison County	1	2	11	429	2.6%	
Knoxville-Knox County	4	4	65	1656	3.9%	
Mid-Cumberland Region	7	10	21	765	2.8%	lower
Shelby County (Memphis)	1	5	0	53	0.0%	
Nashville-Davidson County	4	6	41	930	4.4%	
Northeast Region	3	3	3	269	1.1%	lower
South Central Region	3	3	0	202	0.0%	lower
Southeast Region	4	5	20	649	3.1%	
Sullivan County (Tri-Cities)	1	2	0	265	0.0%	lower
Upper Cumberland Region	4	4	4	525	0.8%	lower
West Tennessee Region	6	6	2	279	0.7%	lower
State of Tennessee	48	62	367	8526	4.30%	

The percentage of patients with ILI reported in Week 4 was 4.30% as compared to 5.08% in Week 3. To date, 141 specimens from Week 4 have been tested; 13 (9.2%) were positive for influenza viruses, all A(H1N1).

People who are still unvaccinated are at the highest risk of contracting influenza; it is not too late to benefit from influenza vaccination. Vaccine takes about 2 weeks to work: do not delay. Persons, including pregnant women, at high risk of complications from influenza infection who develop influenza symptoms should consult their healthcare provider promptly and take antiviral medication, if prescribed.

Not your usual flu season: 2009 -10 vs 2013-14

While it is impossible to predict what will happen this flu season, the last time H1N1 was the predominant strain in 2009-2010:

- 348 pediatric deaths associated with flu were reported to CDC. To date, 28 such deaths were reported nationally, 4 from Tennessee.

- Higher proportion of flu hospitalizations occurred among young. This season, 61% of laboratory-confirmed influenza-associated hospitalizations in the US have been among persons aged 18-64 years.

- Pregnant women were found to be 4x more likely to be hospitalized and 5% of H1N1-related deaths were pregnant. This season, 23% of flu hospitalizations among women of child-bearing age (15-44yrs) have occurred in pregnant women. Tennessee has received a report of one pregnancy-related death this season.

- In 2009-2010, morbidly obese persons were at higher risk of hospitalization from H1N1, the same virus that is dominant this season.

Sentinel Providers - Use Current (9/13) Specimen Form

If you have questions, contact your regional or state SPN representative.

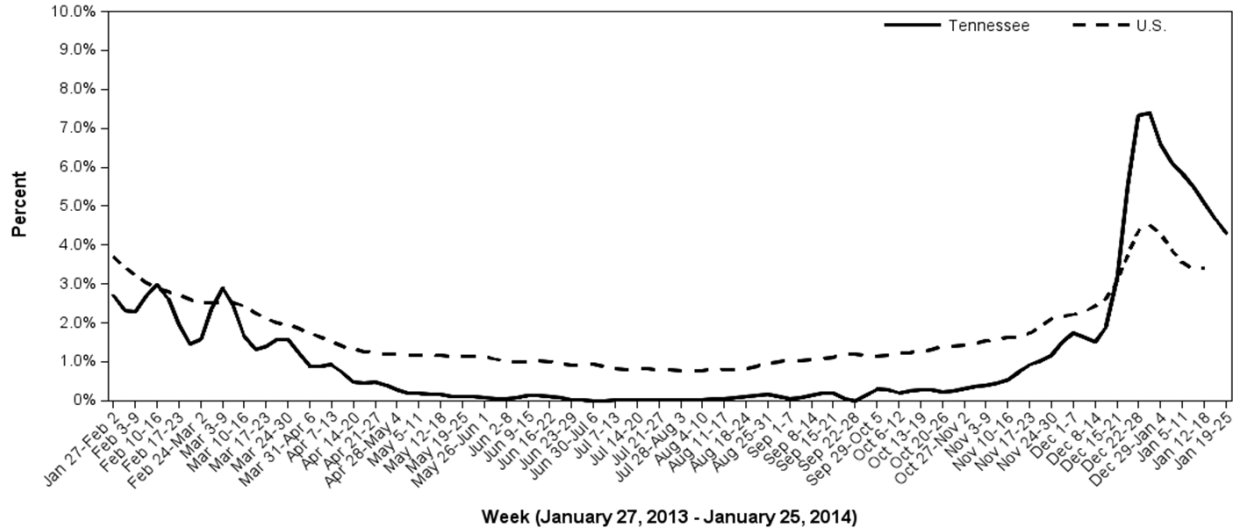
Respiratory Viral Panel

Number of Positive Specimens, by week

Month/Week	#	Flu A (H1N1)	Flu A (H3)	RSV A	RSV B	Paraflu 1	Rhino	Meta-pneumo	Adeno B	Adeno C	Adeno E	Corona OC43	Corona NL63	Corona 229E	Corona HKU1
January															
Current	141	13	0	0	0	0	0	0	0	0	0	0	0	0	0
3	208	42	0	1	10	0	3	1	4	2	0	3	2	0	1
2	255	79	0	2	12	1	15	4	1	2	2	4	0	1	9
1	198	61	2	7	11	2	16	1	0	2	0	2	0	0	2
December															
52	211	78	0	6	11	2	16	3	1	3	0	2	1	0	4
51	178	76	0	1	10	1	12	0	0	1	0	1	0	0	0

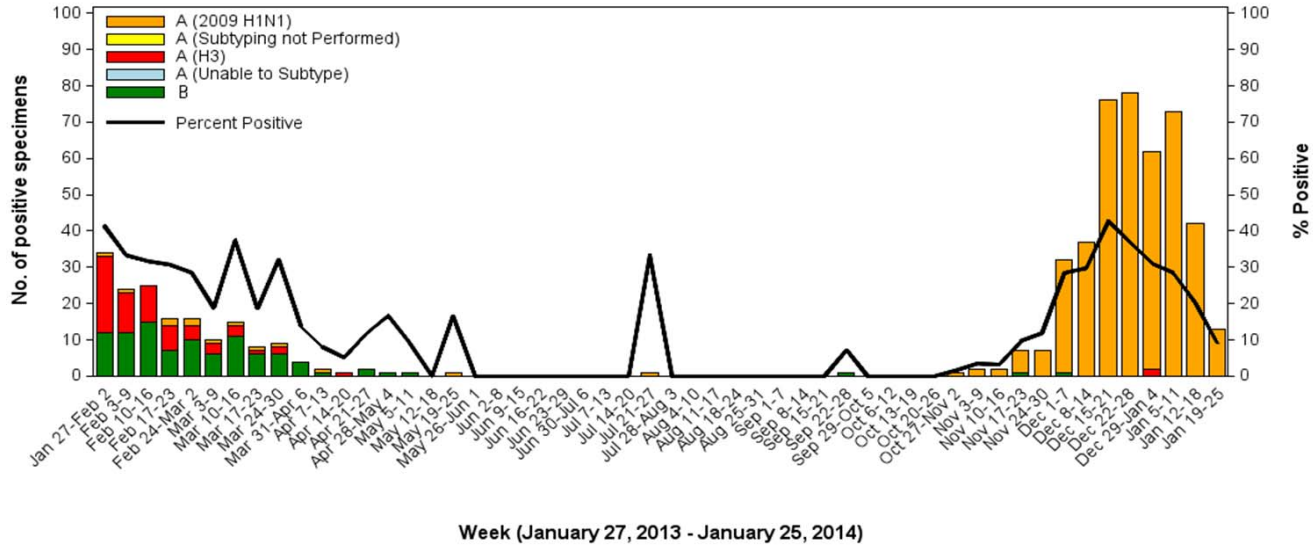
Percentage of Outpatient Visits Reported by the U.S. and Tennessee Outpatient Influenza-like Illness Surveillance Network (ILINet) as Influenza-like Illness, 2013-2014

Updated: January 31, 2014



Influenza Positive Tests Submitted to TN Dept. of Health Laboratory Services Tennessee, 2013-2014

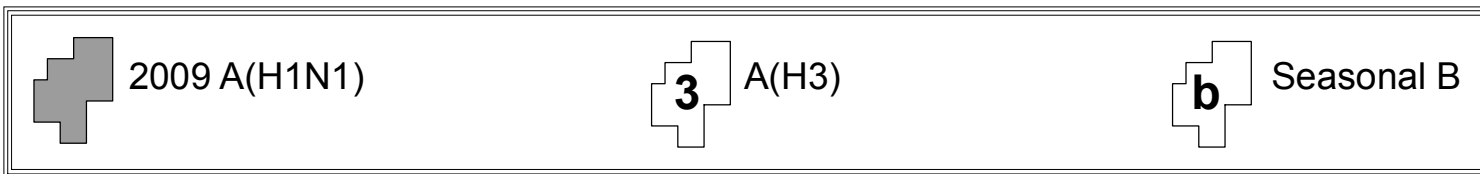
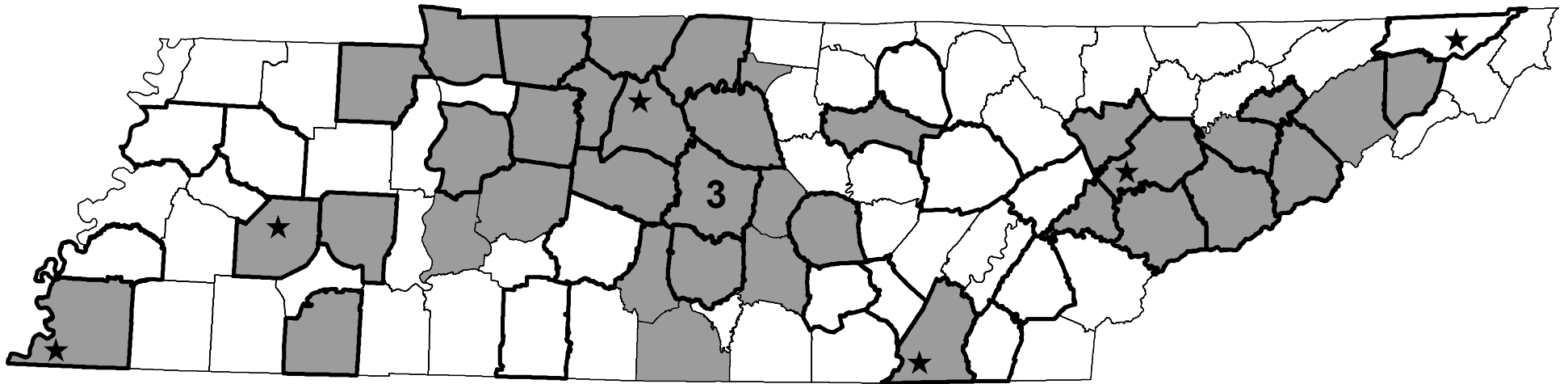
Updated: January 31, 2014



Influenza Confirmed by Culture or PCR in Tennessee from Specimens Collected by Any Source within the Past 6 Weeks

December 15, 2013 to January 25, 2014

- Strains are reported by county of case residence.
- Counties where influenza sentinel providers are located are identified with bold boundary lines.
- Stars mark counties with large metropolitan populations (Memphis, Jackson, Nashville, Chattanooga, Knoxville, and the Tri-Cities area).



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

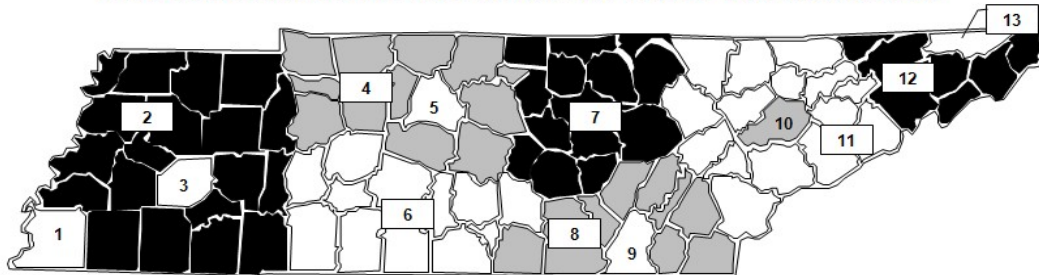
State Lab: Susan McCool 615-262-6351

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