



Maryland Weekly Influenza Surveillance Activity Report

A summary of influenza surveillance indicators reported to DHMH for the week ending December 28, 2013

Prepared by the Office of Infectious Disease Epidemiology and Outbreak Response
 Infectious Disease Bureau – Prevention and Health Promotion Administration
 Maryland Department of Health and Mental Hygiene

The data presented in this document are provisional and subject to change as additional reports come in.

SUMMARY

During the week ending December 28, 2013, influenza-like illness (ILI) intensity in Maryland was **MINIMAL** and there was **REGIONAL** geographic spread of influenza. Twenty-one influenza-associated hospitalizations were reported. Seventy-seven specimens tested positive for influenza by PCR at the DHMH Laboratories Administration. One outbreak of respiratory disease was reported. Overall, ILI indicators have increased over the past week, while the proportions of specimens testing positive at the state lab and sentinel labs continue to increase. Nationwide, influenza activity is on the rise, with more than half the states reporting moderate influenza activity or higher.

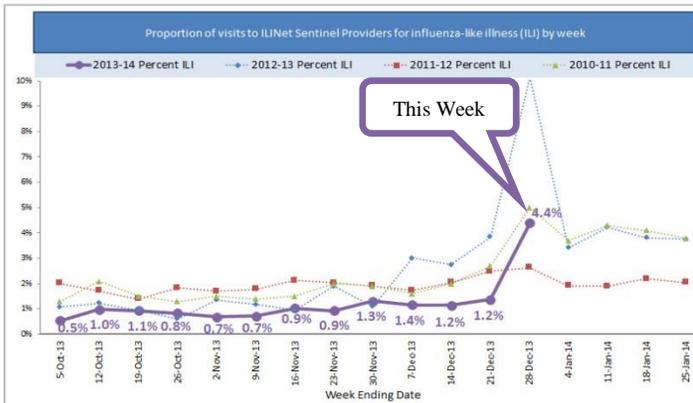
[Click here to visit our influenza surveillance web page](#)

ILI Intensity Levels
✓ Minimal
Low
Moderate
High

Influenza Geographic Spread
No Activity
Sporadic
Local
✓ Regional
Widespread

ILINet Sentinel Providers

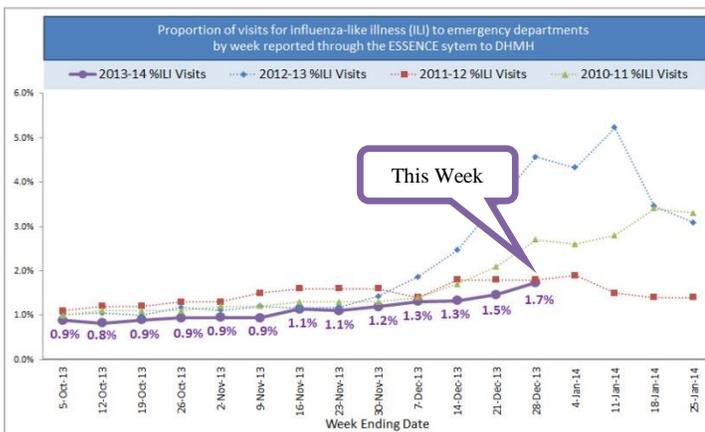
Nine sentinel providers reported a total of 2,092 visits this week. Of those, 92 (4.4%) were visits for ILI. This is **above** the Maryland baseline of **2.0%**.



ILI Visits To Sentinel Providers By Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	16 (17%)	30 (43%)	336 (27%)
Age 5-24	32 (35%)	23 (33%)	537 (43%)
Age 25-49	32 (35%)	15 (21%)	294 (23%)
Age 50-64	10 (11%)	0 (0%)	72 (6%)
Age ≥ 65	2 (2%)	2 (3%)	24 (2%)
Total ILI Visits	92 (100%)	70 (100%)	1263 (100%)

Visits to Emergency Departments for ILI

Emergency Departments in Maryland reported a total of 42,983 visits this week through the [ESSENCE surveillance system](#). Of those, 744 (1.7%) were visits for ILI.



ILI Visits To Emergency Departments By Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	242 (33%)	191 (32%)	2049 (32%)
Age 5-24	173 (23%)	152 (26%)	1753 (28%)
Age 25-49	233 (31%)	173 (29%)	1693 (27%)
Age 50-64	52 (7%)	53 (9%)	556 (9%)
Age ≥ 65	43 (6%)	26 (4%)	269 (4%)
Unknown	1 (<1%)	0 (0%)	11 (<1%)
Total ILI Visits	744 (100%)	595 (100%)	6331 (100%)

Other states' influenza information:

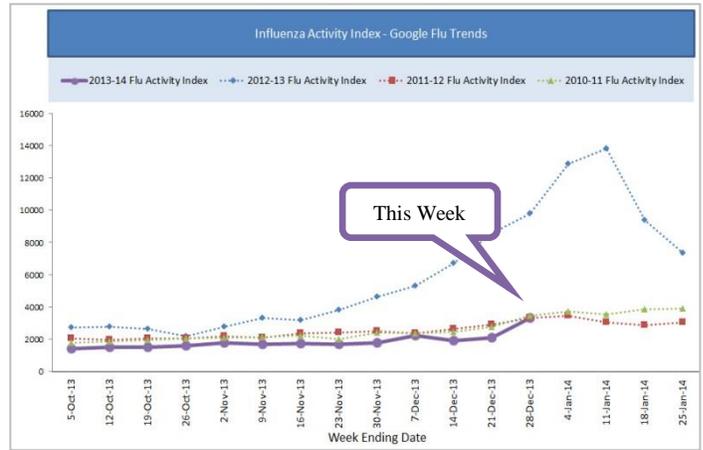
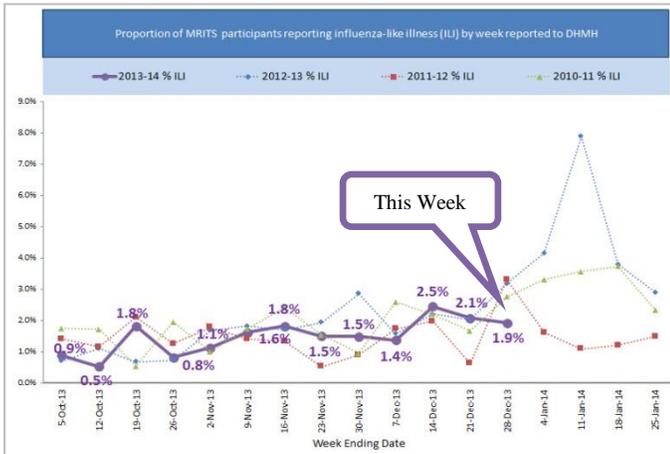
- Delaware <http://dhss.delaware.gov/dph/epi/influenzahome.html>
- District of Columbia <http://doh.dc.gov/service/influenza>
- Pennsylvania [http://www.portal.state.pa.us/portal/server.pt/community/influenza_\(flu\)/14161](http://www.portal.state.pa.us/portal/server.pt/community/influenza_(flu)/14161)
- Virginia <http://www.vdh.state.va.us/Epidemiology/Surveillance/Influenza/>
- West Virginia <http://dhr.wv.gov/oeps/disease/flu/Pages/fluSurveillance.aspx>

Maryland Weekly Influenza Surveillance Activity Report

A summary of influenza surveillance indicators reported to DHMH for the week ending December 28, 2013

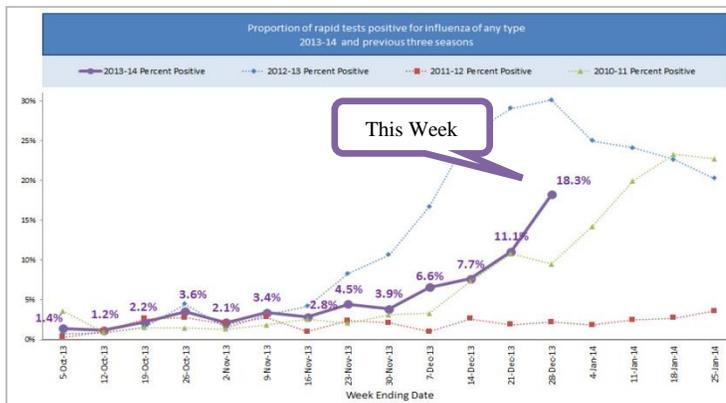
Community-based Influenza Surveillance (MRITS and Google Flu Trends)

MRITS is the Maryland Resident Influenza Tracking System, a weekly survey for influenza-like illness (ILI). A total of 574 residents responded to the [MRITS survey](#) this week. Of those, 11 (1.9%) reported having ILI and missing a cumulative 30 days of regular daily activities. According to [Google Flu Trends](#), influenza activity is “moderate” in Maryland.

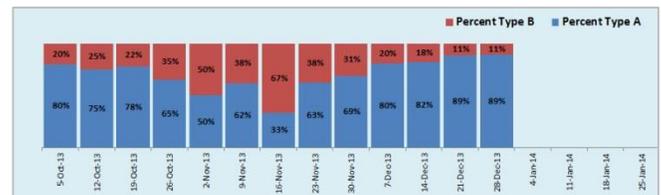


Clinical Laboratory Influenza Testing

Thirty-eight clinical laboratories reported performing 1,830 influenza diagnostic tests, mostly rapid influenza diagnostic tests (RIDT). Of those, 334 (18.3%) were positive for influenza. Of those testing positive, 297 (88.9%) were influenza type A and 37 (11.1%) were influenza type B. The [reliability of RIDT](#) depends largely on the conditions under which they are used. False-positive (and true-negative) results are more likely to occur when the disease prevalence in the community is low, which is generally at the beginning and end of the influenza season and during the summer.

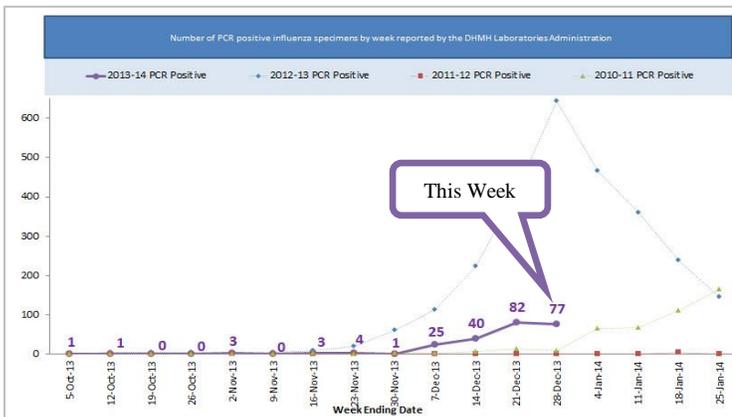


Positive Rapid Flu Tests by Type	This Week Number (%)	Last Week Number (%)	Season Number (%)
Type A	297 (89%)	165 (89%)	715 (83%)
Type B	37 (11%)	21 (11%)	151 (17%)
Total	334 (100%)	186 (100%)	866 (100%)



State Laboratories Administration Influenza Testing

The DHMH Laboratories Administration performed a total of 126 PCR tests for influenza. Seventy-seven (61.1%) specimens tested positive. Of those, all 77 (100%) were Type A (H1N1). PCR testing is more reliable than RIDT. The DHMH testing identifies subtypes of influenza A, information that is not available from the RIDT results. The table below summarizes results by type and subtype.



Positive PCR Tests by Type (Subtype)	This Week Number (%)	Last Week Number (%)	Season Number (%)
Type A (H1)	77 (100%)	78 (95%)	223 (94%)
Type A (H3)	--	2 (2%)	9 (4%)
Type A (H3N2v)	--	--	--
Type B	--	2 (2%)	5 (2%)
Total	77 (100%)	82 (100%)	237 (100%)

Where to get an influenza vaccination

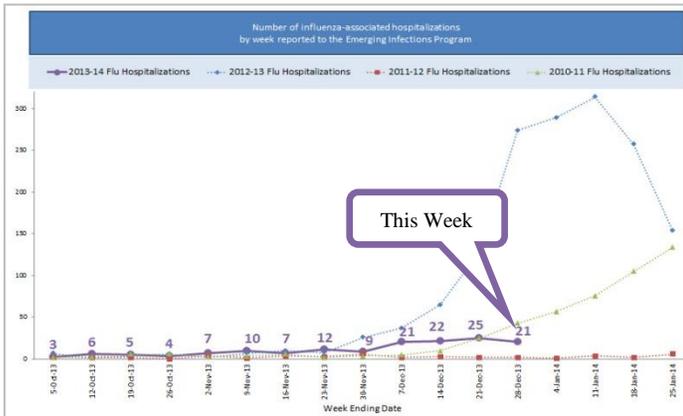
Interested in getting a flu vaccine for the 2013-14 influenza season? Go to <http://dhhm.maryland.gov/flum/d/SitePages/getvaccinated.aspx> and click on your county/city of residence. You will be redirected to your local health department website for local information on where to get your flu vaccine.

Maryland Weekly Influenza Surveillance Activity Report

A summary of influenza surveillance indicators reported to DHMH for the week ending December 28, 2013

Influenza-associated Hospitalizations

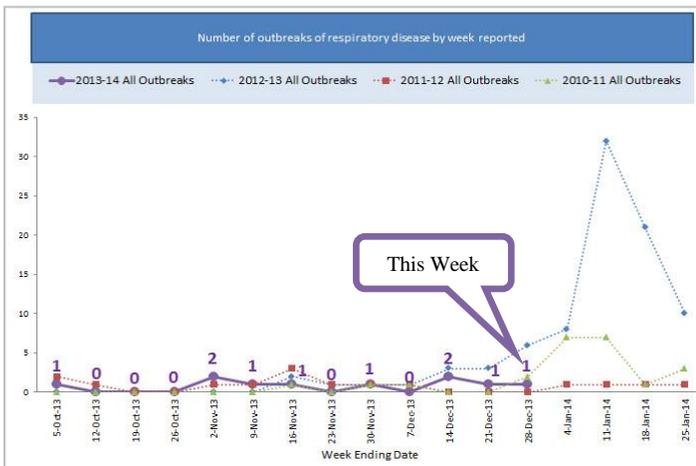
This week, hospitals in Maryland reported 21 influenza-associated hospitalizations. (A person with an overnight hospital stay along with a positive influenza test of any kind, e.g. RIDT or PCR, is considered an “influenza-associated hospitalization” for purposes of influenza surveillance.)



Influenza-Associated Hospitalizations by Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	1 (5%)	2 (8%)	23 (15%)
Age 5-17	1 (5%)	0 (0%)	5 (3%)
Age 18-24	7 (33%)	6 (24%)	29 (19%)
Age 25-49	2 (10%)	9 (36%)	36 (24%)
Age 50-64	2 (10%)	0 (0%)	15 (10%)
Age ≥ 65	8 (38%)	8 (32%)	44 (29%)
Total	21 (100%)	25 (100%)	152 (100%)

Outbreaks of Respiratory Disease

One outbreak of respiratory disease was reported to DHMH this week. (Disease outbreaks of any kind are reportable in Maryland. Respiratory outbreaks may be reclassified once a causative agent is detected, e.g. from ILI to influenza.)



Respiratory Outbreaks by Type	This Week Number (%)	Last Week Number (%)	Season Number (%)
Influenza	1 (100%)	--	3 (30%)
Influenza-like Illness	--	1 (100%)	4 (40%)
Pneumonia	--	--	3 (30%)
Other Respiratory	--	--	--
Total	1 (100%)	1 (100%)	10 (100%)

National Influenza Surveillance (CDC)

- **Viral Surveillance:** Of 6,419 specimens tested and reported by U.S. World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NREVSS) collaborating laboratories during week 52, 1,711 (26.7%) were positive for influenza.
- **Pneumonia and Influenza Mortality:** The proportion of deaths attributed to pneumonia and influenza (P&I) was below the epidemic threshold.
- **Influenza-Associated Pediatric Deaths:** Two influenza-associated pediatric deaths were reported.
- **Influenza-associated Hospitalizations:** A cumulative rate for the season of 5.8 laboratory-confirmed influenza-associated hospitalizations per 100,000 population was reported.
- **Outpatient Illness Surveillance:** The proportion of outpatient visits for influenza-like illness (ILI) was 4.3%, above the national baseline of 2.0%. All 10 regions reported ILI at or above region-specific baseline levels. Twenty states experienced high ILI activity; eight states and New York City experienced moderate ILI activity; six states experienced low ILI activity; 16 states experienced minimal ILI activity, and the District of Columbia had insufficient data.
- **Geographic Spread of Influenza:** The geographic spread of influenza in 25 states was reported as widespread; 19 states reported regional influenza activity; Puerto Rico and three states reported local influenza activity; the District of Columbia and two states reported sporadic influenza activity, and the U.S. Virgin Islands and Guam did not report.

