



Maryland Weekly Influenza Surveillance Activity Report

A summary of influenza surveillance indicators reported to DHMH for the week ending November 16, 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 November 16, 2013, influenza-like illness (ILI) intensity in Maryland was **MINIMAL** and there was **LOCAL** geographic spread of influenza. Five influenza-associated hospitalizations were reported. Three specimens tested positive for influenza by PCR at the DHMH Laboratories Administration. One outbreak of respiratory disease was reported. The number of ILI visits to sentinel providers was low, compared to baseline. Overall, influenza activity across the United States remained minimal, but elevated levels continue to be reported in some states, primarily in the South.

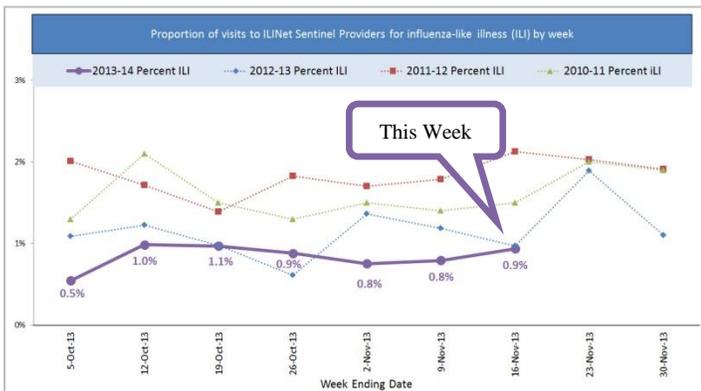
[Click here to visit our influenza surveillance web page](#)

ILI Intensity Levels
✓ Minimal
Low
Moderate
High

Influenza Geographic Spread
No Activity
Sporadic
✓ Local
Regional
Widespread

ILINet Sentinel Providers

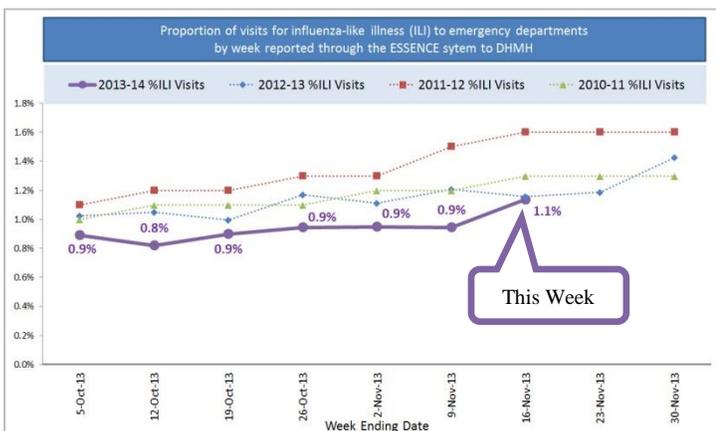
Nineteen sentinel providers reported a total of 10,778 visits last week. Of those, 101 (0.9%) were visits for ILI. This is **below** the Maryland baseline of **2.0%**.



ILI Visits To Sentinel Providers By Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	25 (25%)	30 (31%)	167 (26%)
Age 5-24	48 (48%)	41 (42%)	295 (46%)
Age 25-49	23 (23%)	20 (20%)	141 (22%)
Age 50-64	5 (5%)	2 (2%)	31 (5%)
Age ≥ 65	0 (0%)	5 (5%)	13 (2%)
Total ILI Visits	101 (100%)	98 (100%)	647 (100%)

Visits to Emergency Departments for ILI

Emergency Departments in Maryland reported a total of 43,182 visits last week through the [ESSENCE surveillance system](#). Of those, 491 (1.1%) were visits for ILI.



ILI Visits To Emergency Departments By Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	161 (33%)	142 (34%)	885 (30%)
Age 5-24	141 (29%)	128 (31%)	892 (31%)
Age 25-49	139 (28%)	99 (24%)	759 (26%)
Age 50-64	41 (8%)	28 (7%)	254 (9%)
Age ≥ 65	9 (2%)	17 (4%)	118 (4%)
Unknown	0 (0%)	0 (0%)	3 (<1%)
Total ILI Visits	491 (100%)	414 (100%)	2911 (100%)

Other states' influenza information:

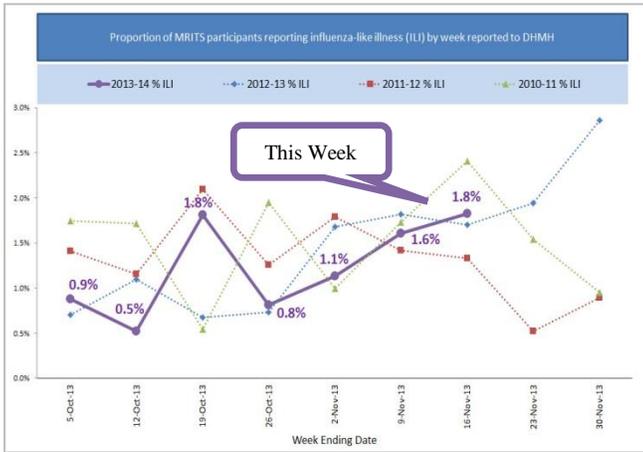
- Delaware <http://dhss.delaware.gov/dph/epi/influenzahome.html>
- District of Columbia <http://doh.dc.gov/service/influenza>
- Pennsylvania [http://www.portal.state.pa.us/portal/server.pt/community/influenza_\(flu\)/14161](http://www.portal.state.pa.us/portal/server.pt/community/influenza_(flu)/14161)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

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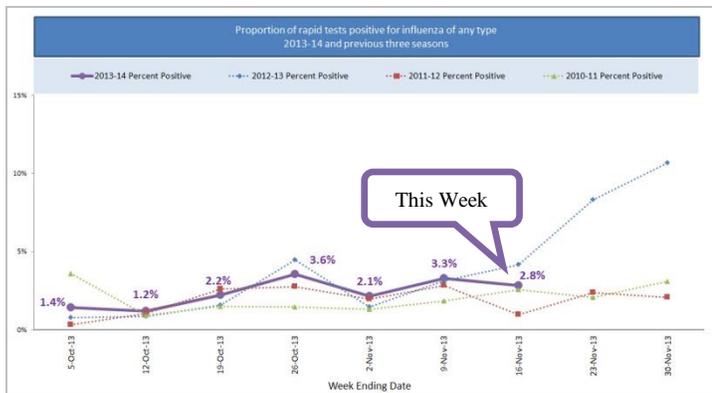
Community-based Influenza Surveillance (MRITS and Google Flu Trends)

MRITS is the Maryland Resident Influenza Tracking System, a weekly survey for influenza-like illness (ILI). A total of 604 residents responded to the [MRITS survey](#) this week. Of those, 11 (1.8%) reported having ILI and missing a cumulative 24 days of regular daily activities. According to [Google Flu Trends](#), influenza activity is "low" in Maryland.

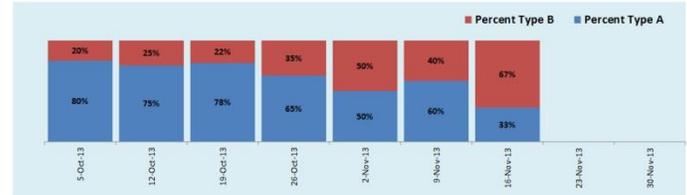


Clinical Laboratory Influenza Testing

Thirty-five clinical laboratories reported performing 636 influenza diagnostic tests, mostly rapid influenza diagnostic tests (RIDT). Of those, 18 (2.8%) were positive for influenza. Of those testing positive, 6 (33%) were influenza type A and 12 (67%) 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	6 (33%)	12 (60%)	51 (58%)
Type B	12 (67%)	8 (40%)	37 (42%)
Total	18 (100%)	20 (100%)	88 (100%)



State Laboratories Administration Influenza Testing

The DHMH Laboratories Administration performed a total of 89 PCR tests for influenza. Three (3.4%) of the specimens tested positive. 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)	2 (67%)	--	5 (63%)
Type A (H3)	1 (33%)	--	3 (38%)
Type A (H3N2v)	--	--	--
Type B	--	--	--
Total	3 (100%)	--	8 (100%)

Where to get an influenza vaccination

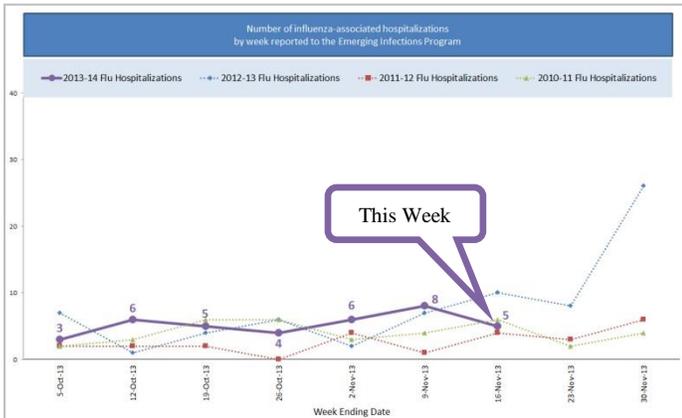
Interested in getting a flu vaccine for the 2013-14 influenza season? Go to <http://dhhm.maryland.gov/flum/d/SitePages/getvaccinated.aspx> and click on your county/city of residence. You will be redirected to your local health department website for local information on where to get your flu vaccine.

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Influenza-associated Hospitalizations

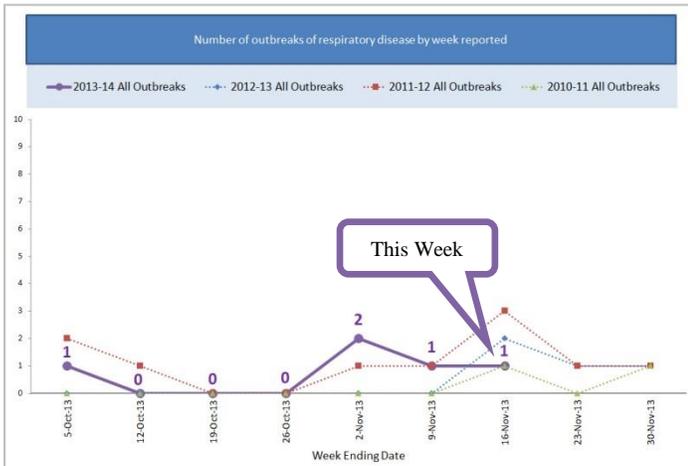
Last week, hospitals in Maryland reported 5 influenza-associated hospitalizations. (A person with an overnight hospital stay along with a positive influenza test of any kind, e.g. RIDT or PCR, is considered an “influenza-associated hospitalization” for purposes of influenza surveillance.)



Influenza-Associated Hospitalizations by Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	2 (40%)	1 (13%)	6 (16%)
Age 5-17	--	--	1 (3%)
Age 18-24	--	1 (13%)	1 (3%)
Age 25-49	1 (20%)	3 (38%)	6 (16%)
Age 50-64	--	1 (13%)	8 (22%)
Age ≥ 65	2 (40%)	2 (25%)	15 (41%)
Total	5 (100%)	8 (100%)	37 (100%)

Outbreaks of Respiratory Disease

One outbreak of respiratory disease was reported to DHMH last 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	--	--	--
Influenza-like Illness	1 (100%)	1 (100%)	3 (60%)
Pneumonia	--	--	2 (40%)
Other Respiratory	--	--	--
Total	1 (100%)	1 (100%)	5 (100%)

National Influenza Surveillance (CDC)

During week 46 (November 10-16, 2013), influenza activity increased slightly in the United States.

- **Viral Surveillance:** Of 4,457 specimens tested and reported by U.S. World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NREVVSS) collaborating laboratories during week 46, 312 (7.0%) 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:** No influenza-associated pediatric deaths were reported.
- **Outpatient Illness Surveillance:** The proportion of outpatient visits for influenza-like illness (ILI) was 1.5%, below the national baseline of 2.0%. One region reported ILI above region-specific baseline levels. One state experienced high ILI activity, two states experienced moderate ILI activity, four states experienced low ILI activity, 43 states and New York City experienced minimal ILI activity and the District of Columbia had insufficient data.
- **Geographic Spread of Influenza:** The geographic spread of influenza in four states was reported as regional; nine states reported local influenza activity; Puerto Rico, Guam and 34 states reported sporadic influenza activity; three states reported no influenza activity, and the District of Columbia and the U.S. Virgin Islands did not report.

