

Maryland Weekly Influenza Surveillance Activity Report

A summary of influenza surveillance indicators reported to DHMH for the week ending January 26, 2013

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

SUMMARY

During the week ending January 26, 2013, influenza-like illness (ILI) intensity in Maryland was **MODERATE** with **WIDESPREAD** geographic spread of influenza. Influenza activity indicators continue to be elevated, but most indicators are now showing a downward trend.

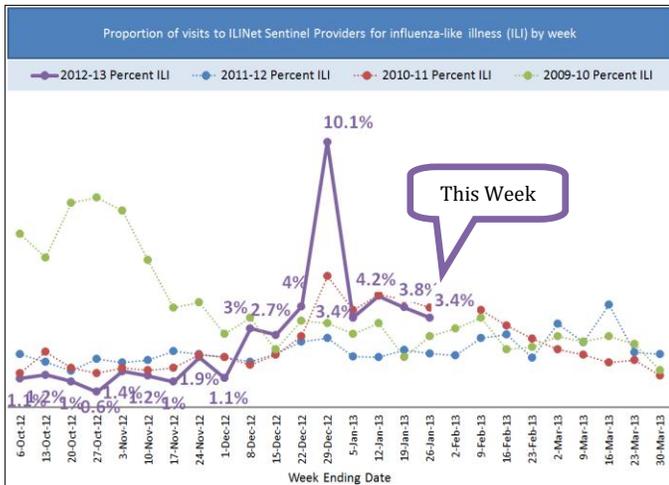
[Click here to visit our influenza surveillance web page](#)

ILI Intensity Levels
Minimal
Low
✓ Moderate
High

Influenza Geographic Spread
No Activity
Sporadic
Local
Regional
✓ Widespread

ILINet Sentinel Providers

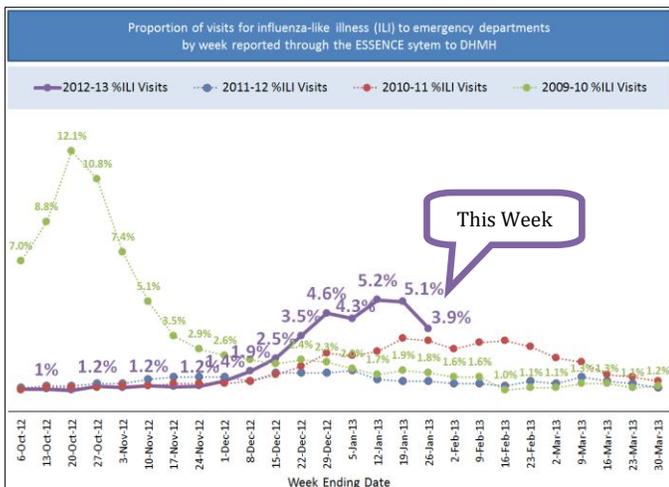
Thirteen sentinel providers reported a total of 7,072 visits last week. Of those, 241 (3.4%) were visits for ILI. This is **above** the Maryland baseline of 2.9%.



ILI Visits To Sentinel Providers By Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	41 (17%)	75 (19%)	737 (24%)
Age 5-24	103 (43%)	157 (39%)	1,251 (40%)
Age 25-49	67 (28%)	125 (31%)	802 (26%)
Age 50-64	22 (9%)	30 (8%)	227 (7%)
Age ≥ 65	8 (3%)	12 (3%)	103 (3%)
Total ILI Visits	241 (100%)	399 (100%)	3,120 (100%)

Visits to Emergency Departments for ILI

Emergency Departments in Maryland reported a total of 44,124 visits through the [ESSENCE surveillance system](#). Of those, 1,694 (3.9%) were visits for ILI.



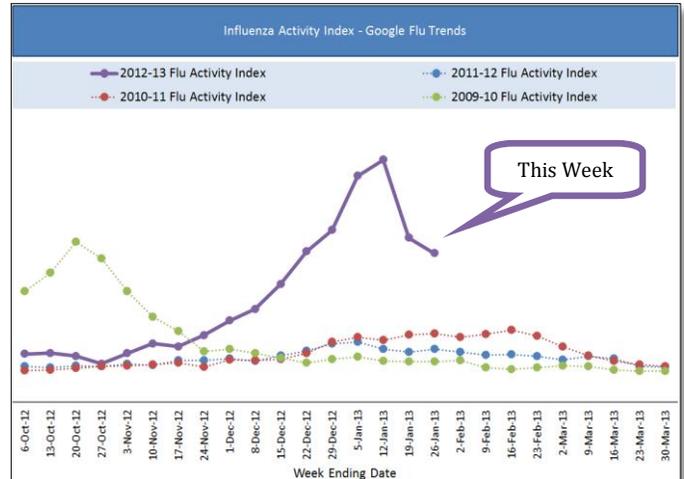
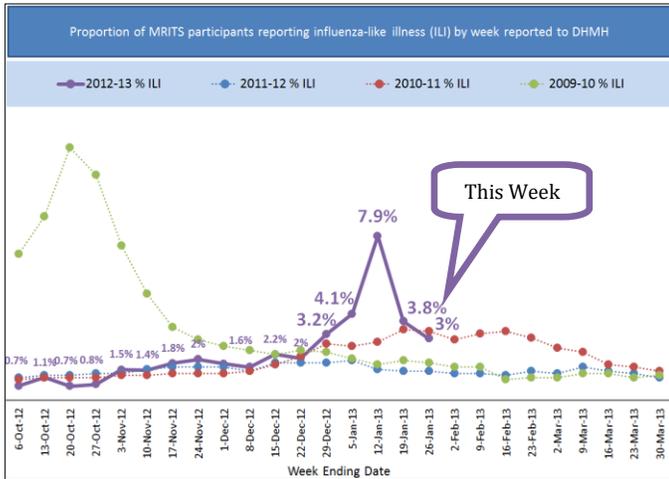
ILI Visits To Emergency Departments By Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	363 (21%)	518 (20%)	5,221 (26%)
Age 5-24	503 (30%)	742 (29%)	5,672 (28%)
Age 25-49	556 (33%)	825 (32%)	5,995 (30%)
Age 50-64	184 (11%)	310 (12%)	2,002 (10%)
Age ≥ 65	88 (5%)	176 (7%)	1,096 (5%)
Total ILI Visits	1,694 (100%)	2,571 (100%)	19,986 (100%)

Neighboring 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.virginia.gov/Epidemiology/Surveillance/Influenza/>
 West Virginia <http://dhhr.wv.gov/oeps/disease/flu/Pages/fluSurveillance.aspx>

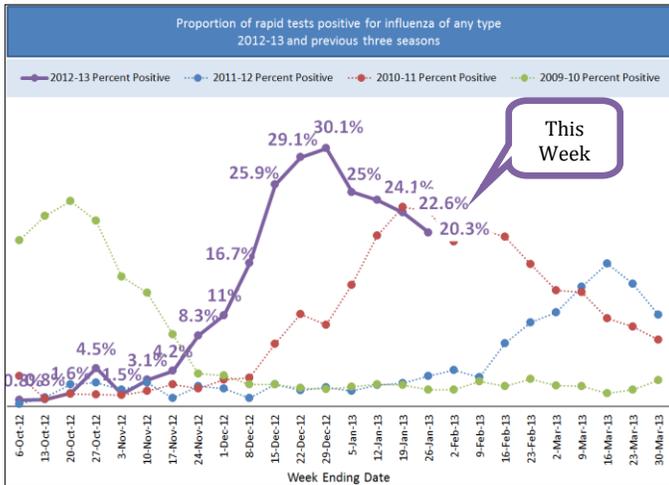
Community-based Influenza Surveillance (MRITS and Google Flu Trends)

A total of 676 responses to the [weekly flu survey](#) (MRITS) were received. Of those, 20 (3%) reported ILI with a cumulative 47 days of regular daily activities lost due to illness. According to [Google Flu Trends](#), influenza activity is now "high" in Maryland.

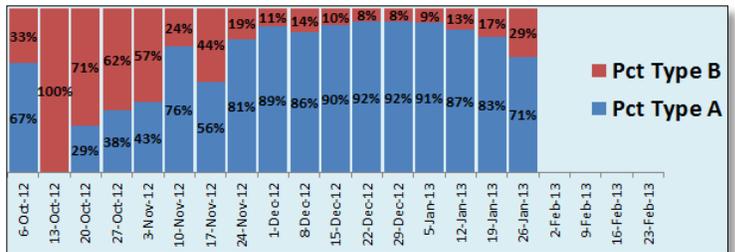


Clinical Laboratory Influenza Testing

Twenty-seven clinical laboratories reported 4,620 rapid influenza tests performed. Of those, 938 (20.3%) were positive. Of those testing positive, 662 were positive for influenza type A, and 276 were positive for type B. (Rapid influenza tests are not as accurate as PCR tests. Now that the State Laboratories Administration has reported positive PCR tests for influenza, rapid positive tests are counted as lab-confirmed cases for surveillance purposes.)

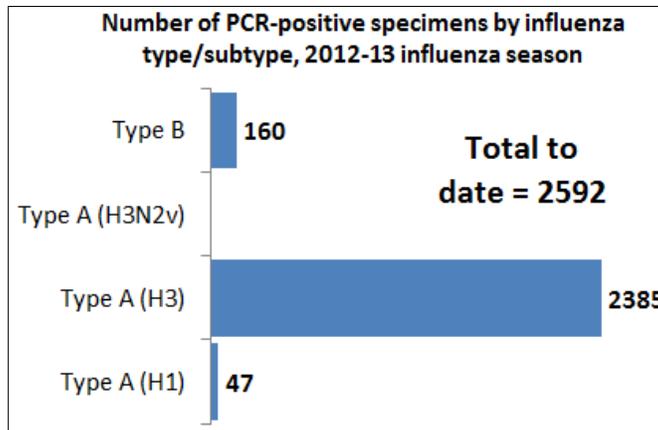


Positive Rapid Flu Tests by Type	This Week Number (%)	Last Week Number (%)	Season Number (%)
Type A	662 (71%)	1,203 (83%)	9,024 (89%)
Type B	276 (29%)	253 (17%)	1,348 (11%)
Total	938 (100%)	1,456 (100%)	10,372 (100%)



State Laboratories Administration Influenza Testing

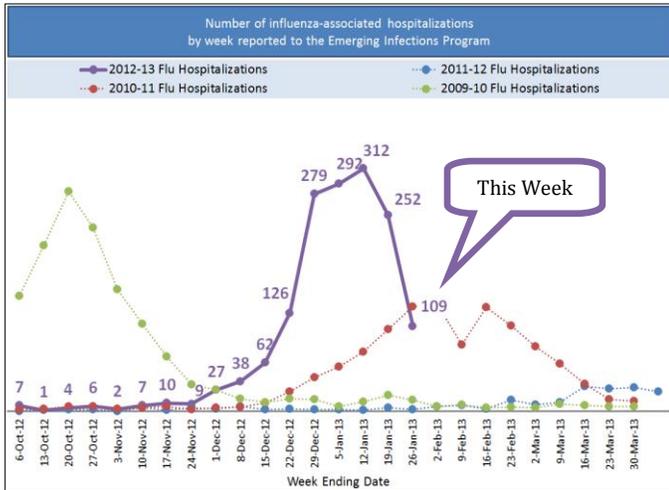
The State Laboratories Administration has reported 2,592 PCR-positive specimens from 4,173 total tests reported this flu season. Of those positives, 2,385 (92%) were type A(H3), 160 (6%) were type B, and 47 (2%) were type A (H1N1). Influenza tests performed at the State Laboratory are considered the gold standard of influenza laboratory testing for influenza surveillance purposes.



Go to <http://dhhm.maryland.gov/flumnd/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.

Influenza-associated Hospitalizations

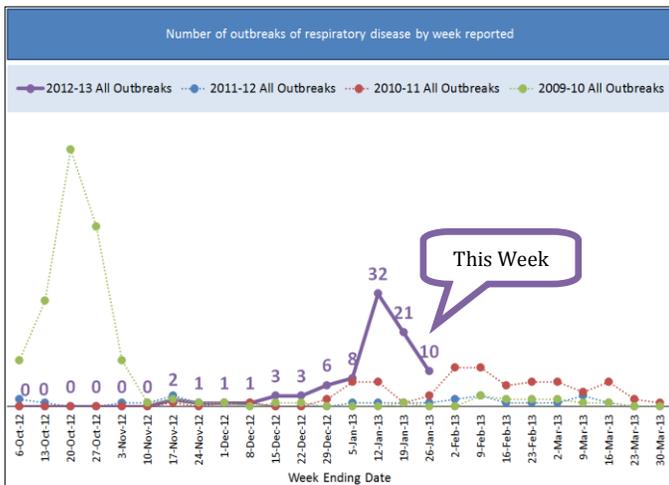
Hospitals in Maryland reported 109 influenza-associated hospitalizations. (A person with an overnight hospital stay along with a positive influenza test of any kind, e.g. rapid test or PCR, is considered an "influenza-associated hospitalization" for purposes of influenza surveillance.)



Influenza-Associated Hospitalizations by Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	10 (9%)	27 (11%)	137 (9%)
Age 5-17	3 (3%)	11 (4%)	59 (4%)
Age 18-24	1 (1%)	8 (3%)	65 (4%)
Age 25-49	19 (17%)	22 (9%)	230 (15%)
Age 50-64	12 (11%)	43 (17%)	256 (17%)
Age ≥ 65	64 (59%)	141 (56%)	796 (52%)
Total	109 (100%)	252 (100%)	1,543 (100%)

Outbreaks of Respiratory Disease

Ten outbreaks of respiratory disease were reported to DHMH. (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	9 (90%)	16 (76%)	64 (73%)
Influenza-like Illness	1 (10%)	4 (19%)	16 (18%)
Pneumonia	--	1 (5%)	8 (9%)
Other Respiratory	--	--	--
Total	10 (100%)	21 (100%)	88 (100%)

National Influenza Surveillance (CDC)

During the week ending January 26, 2013, influenza activity remained elevated in the United States, but decreased in some areas.

- **Viral Surveillance:** Of 10,581 specimens tested and reported by collaborating laboratories, 2,701 (25.5%) were positive for influenza.
- **Pneumonia and Influenza Mortality:** The proportion of deaths attributed to pneumonia and influenza (P&I) was above the epidemic threshold.
- **Influenza-Associated Pediatric Deaths:** Eight pediatric deaths were reported.
- **Influenza-Associated Hospitalizations:** A cumulative rate for the season of 25.9 laboratory-confirmed influenza-associated hospitalizations per 100,000 population was reported. Of all hospitalizations, more than 50% were among adults 65 years and older.
- **Outpatient Illness Surveillance:** The proportion of outpatient visits for influenza-like illness (ILI) was 4.2%; this is above the national baseline of 2.2%. All 10 regions reported ILI above region-specific baseline levels. Twenty-four states and New York City experienced high ILI activity; the District of Columbia and 13 states experienced moderate activity; 4 states experienced low activity; and 9 states experienced minimal activity.
- **Geographic Spread of Influenza:** Forty-two states reported widespread geographic influenza activity; 7 states reported regional activity; the District of Columbia and one state reported local activity; Guam reported sporadic influenza activity, and Puerto Rico and the U.S. Virgin Islands did not report.

