



Maryland Weekly Influenza Surveillance Activity Report

A summary of influenza surveillance indicators reported to DHMH for the week ending January 14, 2017

Prepared by the Infectious Disease Epidemiology and Outbreak Response Bureau
 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 are received.

SUMMARY

During the week ending January 14, 2017, influenza-like illness (ILI) intensity in Maryland was **MINIMAL** and there was **WIDESPREAD** geographic activity. The proportions of outpatient visits for ILI reported by Sentinel Providers and by Maryland Emergency Departments were both unchanged from last week. The proportion of MRITS respondents reporting ILI increased substantially. The proportion of specimens testing positive for influenza at clinical laboratories also increased dramatically. A total of 112 specimens tested positive for influenza at the DHMH lab – most were influenza Type A (H3). Sixty-eight hospitalizations and 10 respiratory outbreaks were reported. Nationally, influenza activity increased.

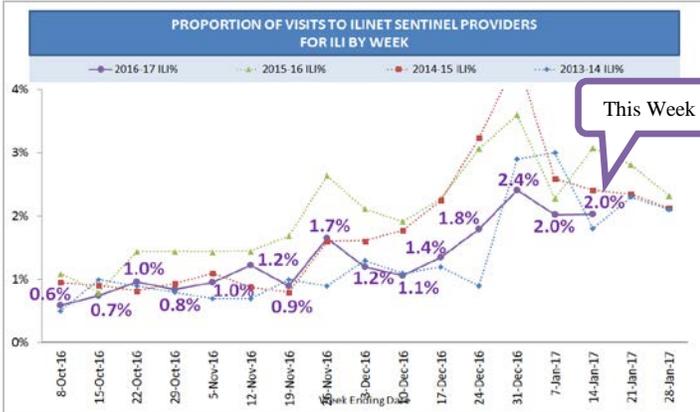
[Click here to visit our influenza surveillance web page](#)

ILI Intensity Levels
✓ Minimal
Low
Moderate
High

Influenza Geographic Activity
No Activity
Sporadic
Local
Regional
✓ Widespread

ILINet Sentinel Providers

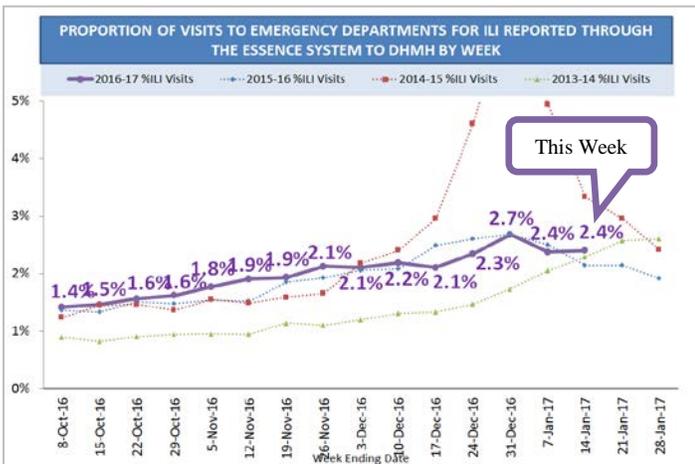
Thirty-four sentinel providers reported a total of 6,300 visits this week. Of those, 128 (2.0%) were visits for ILI. This is **below** the Maryland baseline of **2.2%**.



ILI Visits To Sentinel Providers By Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	38 (30%)	38 (28%)	485 (31%)
Age 5-24	48 (38%)	41 (30%)	563 (35%)
Age 25-49	22 (17%)	19 (14%)	298 (19%)
Age 50-64	11 (9%)	20 (15%)	152 (10%)
Age ≥ 65	9 (7%)	17 (13%)	88 (6%)
Total	128 (100%)	135 (100%)	1586 (100%)

Visits to Emergency Departments for ILI

Emergency Departments in Maryland reported a total of 45,181 visits this week through the [ESSENCE surveillance system](#). Of those, 1,085 (2.4%) were visits for ILI.



ILI Visits To Emergency Departments By Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	263 (24%)	366 (31%)	4675 (34%)
Age 5-24	296 (27%)	272 (23%)	3657 (26%)
Age 25-49	321 (30%)	285 (24%)	3228 (23%)
Age 50-64	116 (11%)	138 (12%)	1328 (10%)
Age ≥ 65	89 (8%)	123 (10%)	976 (7%)
Total	1085 (100%)	1184 (100%)	13864 (100%)

Neighboring states' influenza information:

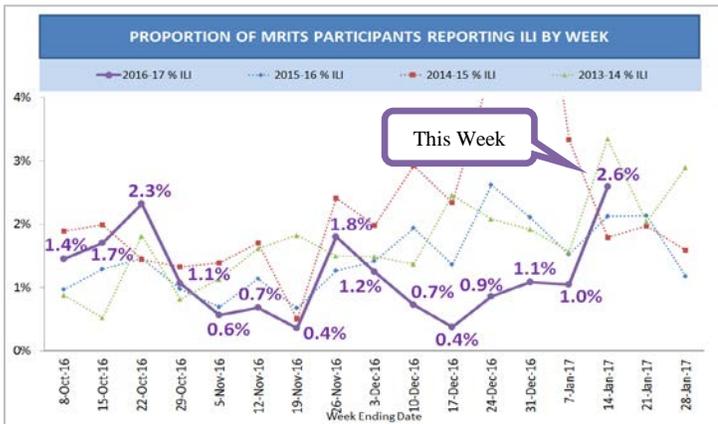
- Delaware <http://dhss.delaware.gov/dph/epi/influenzahome.html>
- District of Columbia <http://doh.dc.gov/service/influenza>
- Pennsylvania <http://www.health.pa.gov/My%20Health/Diseases%20and%20Conditions/I-L/Pages/Influenza.aspx#.V-LtaPkrJD8>
- Virginia <http://www.vdh.virginia.gov/epidemiology/influenza-flu-in-virginia/influenza-surveillance/>
- West Virginia <http://dhhr.wv.gov/oeps/disease/flu/Pages/fluSurveillance.aspx>

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Community-based Influenza Surveillance (MRITS)

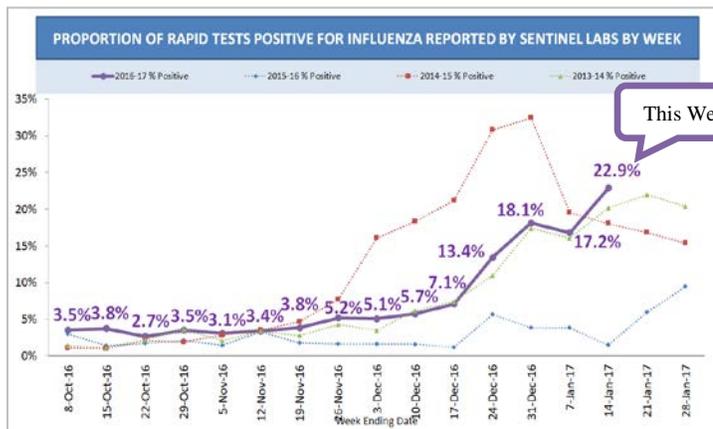
MRITS is the Maryland Resident Influenza Tracking System, a weekly survey for influenza-like illness (ILI). A total of 503 residents responded to the [MRITS survey](#) this week. Of those, 13 (2.6%) reported having ILI and missing a cumulative 37 days of regular daily activities.



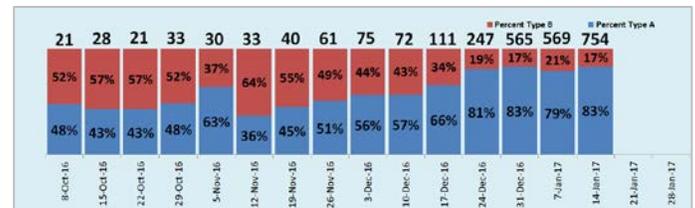
MRITS Respondents Reporting ILI By Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	--	1 (17%)	4 (4%)
Age 5-24	--	1 (17%)	30 (31%)
Age 25-49	3 (23%)	--	23 (23%)
Age 50-64	7 (54%)	1 (17%)	25 (26%)
Age ≥ 65	3 (23%)	3 (50%)	16 (16%)
Total	13 (100%)	6 (100%)	98 (100%)

Clinical Laboratory Influenza Testing

Fifty-three clinical laboratories reported performing 3,296 influenza diagnostic tests, mostly rapid influenza diagnostic tests (RIDTs). Of those, 754 (22.9%) were positive for influenza. Of those testing positive, 629 (83.4%) were influenza Type A and 125 (16.6%) were influenza Type B. The [reliability of RIDTs](#) 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.

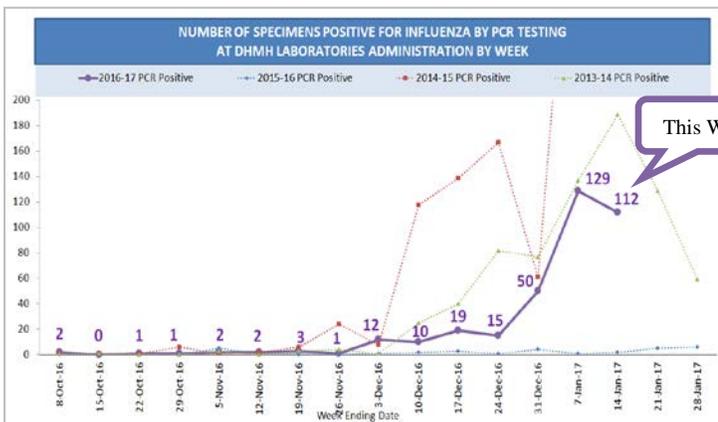


Positive Rapid Flu Tests by Type	This Week Number (%)	Last Week Number (%)	Season Number (%)
Type A	629 (83%)	449 (79%)	2047 (76%)
Type B	125 (17%)	120 (21%)	633 (24%)
Total	754 (100%)	569 (100%)	2680 (100%)



State Laboratories Administration Influenza Testing

The DHMH Laboratories Administration performed a total of 250 PCR tests for influenza and 112 (44.8%) specimens tested positive for influenza. Of those testing positive, 92 (82.1%) were positive for Type A (H3), 3 (2.7%) were positive for Type A (H1), 13 (11.6%) were positive for influenza Type B (Yamagata), and 4 (3.6%) were positive for influenza Type B (Victoria). 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)	3 (3%)	2 (2%)	15 (4%)
Type A (H3)	92 (82%)	123 (95%)	318 (89%)
Type B (Victoria)	4 (4%)	1 (1%)	5 (1%)
Type B (Yamagata)	13 (12%)	3 (2%)	21 (6%)
Total	112 (100%)	129 (100%)	359 (100%)

Where to get an influenza vaccination

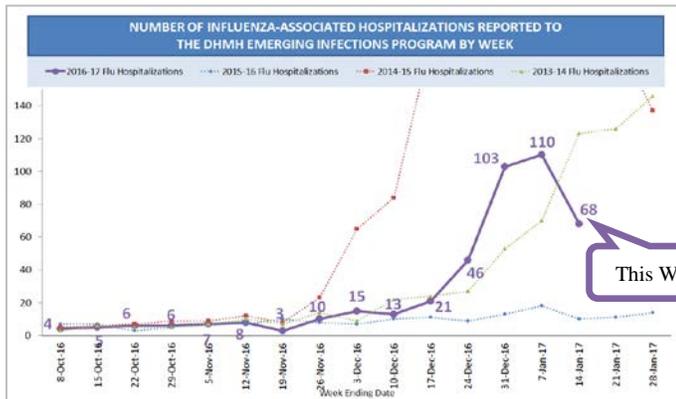
Interested in getting a flu vaccine for the 2016-17 influenza season? Go to <http://phpa.dhmm.maryland.gov/influenza/Pages/getvaccinated.aspx> and click on your county/city of residence. You will be redirected to your local health department website for local information on where to get your flu vaccine.

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Influenza-associated Hospitalizations

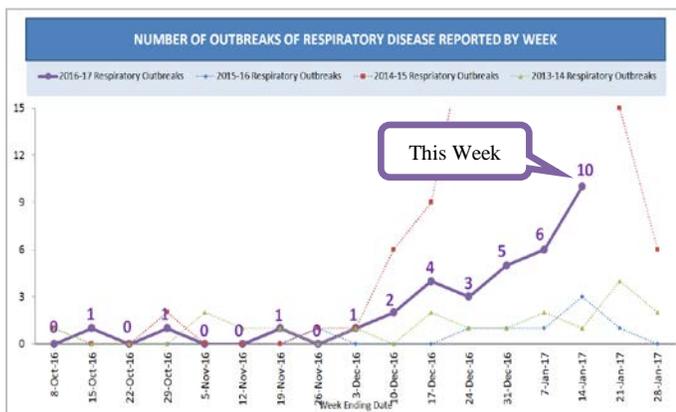
A total of 68 hospitalizations were reported this week. (A person with an overnight hospital stay along with a positive influenza test of any kind, e.g., RIDT or PCR, is considered an “influenza-associated hospitalization” for purposes of influenza surveillance.)



Influenza-Associated Hospitalizations by Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	2 (3%)	6 (5%)	21 (5%)
Age 5-17	7 (10%)	2 (2%)	16 (4%)
Age 18-24	2 (3%)	1 (1%)	7 (2%)
Age 25-49	9 (13%)	10 (9%)	40 (9%)
Age 50-64	13 (19%)	19 (17%)	82 (19%)
Age ≥ 65	35 (51%)	72 (65%)	259 (61%)
Total	68 (100%)	110 (100%)	425 (100%)

Outbreaks of Respiratory Disease

There were 10 respiratory outbreaks 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	9 (90%)	5 (83%)	19 (56%)
Influenza-like Illness	1 (10%)	1 (17%)	10 (29%)
Pneumonia	--	--	5 (15%)
Other Respiratory	--	--	--
Total	10 (100%)	6 (100%)	34 (100%)

National Influenza Surveillance (CDC)

During week 2 (January 8-14, 2017), influenza activity increased in the United States.

- Viral Surveillance:** The most frequently identified influenza virus subtype reported by public health laboratories during week 2 was influenza A (H3). The percentage of respiratory specimens testing positive for influenza in clinical laboratories increased.
- Pneumonia and Influenza Mortality:** The proportion of deaths attributed to pneumonia and influenza (P&I) was below the system-specific epidemic threshold in the National Center for Health Statistics (NCHS) Mortality Surveillance System.
- Influenza-associated Pediatric Deaths:** Two influenza-associated pediatric deaths were reported.
- Influenza-associated Hospitalizations:** A cumulative rate for the season of 10.2 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 3.3%, which is above the national baseline of 2.2%. All 10 regions reported ILI at or above their region-specific baseline levels. New York City and six states experienced high ILI activity; Puerto Rico and eight states experienced moderate ILI activity; 14 states experienced low ILI activity; 22 states experienced minimal ILI activity, and the District of Columbia had insufficient data.
- Geographic Spread of Influenza:** The geographic spread of influenza in Puerto Rico and 29 states was reported as widespread; Guam and 17 states reported regional activity; the District of Columbia and four states reported local activity; and the U.S. Virgin Islands reported sporadic activity.

