



# Maryland Weekly Influenza Surveillance Activity Report

A summary of influenza surveillance indicators reported to DHMH for the week ending April 19, 2014

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 April 19, 2014, influenza-like illness (ILI) intensity in Maryland was **MINIMAL** and there was **LOCAL** geographic spread. The proportion of outpatient visits for ILI reported by our Sentinel providers dropped from last week, while the proportion reported by Maryland Emergency Departments remained unchanged. Our Sentinel Labs and the State Lab both reported testing fewer specimens this week; the percentage of specimens testing positive for influenza decreased for each, but was similar to last week. Twelve influenza-associated hospitalizations were reported, which is similar to the 14 reported at this point last week. There were no outbreaks of respiratory disease.

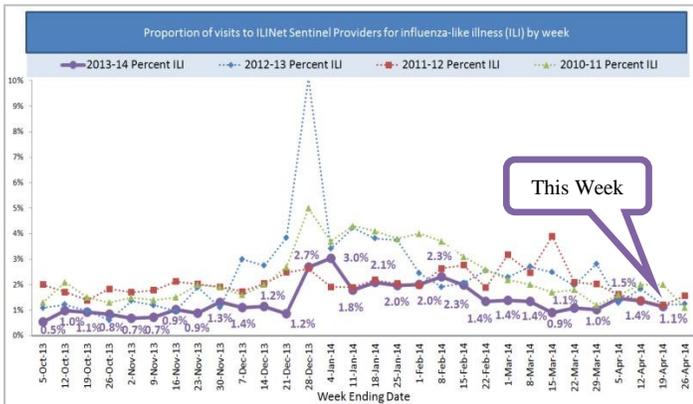
[Click here to visit our influenza surveillance web page](#)

| ILI Intensity Levels |
|----------------------|
| ✓ Minimal            |
| Low                  |
| Moderate             |
| High                 |

| Influenza Geographic Spread |
|-----------------------------|
| No Activity                 |
| Sporadic                    |
| ✓ Local                     |
| Regional                    |
| Widespread                  |

## ILINet Sentinel Providers

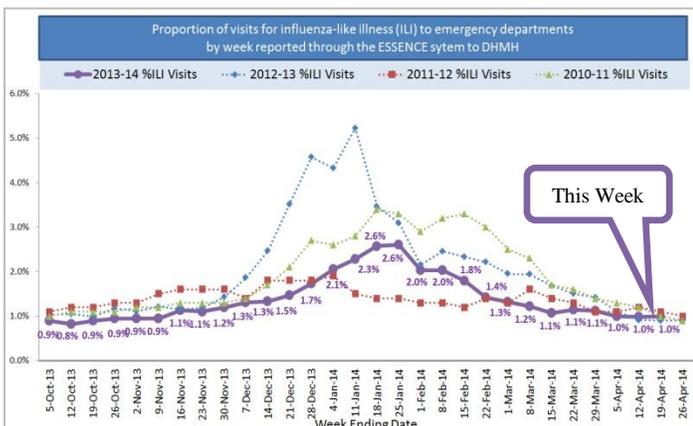
Thirteen sentinel providers reported a total of 7,022 visits this week. Of those, 80 (1.1%) were visits for ILI. This is **below** the Maryland baseline of **2.0%**.



| ILI Visits To Sentinel Providers By Age Group | This Week Number (%) | Last Week Number (%) | Season Number (%) |
|---|----------------------|----------------------|-------------------|
| Age 0-4                                       | 15 (19%)             | 17 (13%)             | 937 (24%)         |
| Age 5-24                                      | 30 (38%)             | 70 (53%)             | 1550 (40%)        |
| Age 25-49                                     | 24 (30%)             | 32 (24%)             | 1043 (27%)        |
| Age 50-64                                     | 10 (13%)             | 7 (5%)               | 305 (8%)          |
| Age ≥ 65                                      | 1 (1%)               | 5 (4%)               | 85 (2%)           |
| Total ILI Visits                              | 80 (100%)            | 131 (100%)           | 3920 (100%)       |

## Visits to Emergency Departments for ILI

Emergency Departments in Maryland reported a total of 41,499 visits this week through the [ESSENCE surveillance system](#). Of those, 410 (1.0%) were visits for ILI.



| ILI Visits To Emergency Departments By Age Group | This Week Number (%) | Last Week Number (%) | Season Number (%) |
|--|----------------------|----------------------|-------------------|
| Age 0-4  | 94 (23%)             | 93 (21%)             | 4299 (25%)        |
| Age 5-24   | 113 (28%)            | 140 (32%)            | 4614 (27%)        |
| Age 25-49  | 124 (30%)            | 123 (28%)            | 5681 (33%)        |
| Age 50-64  | 57 (14%)             | 53 (12%)             | 1984 (11%)        |
| Age ≥ 65   | 21 (5%)              | 26 (6%)              | 784 (5%)          |
| Unknown  | 1 (<1%)              | 4 (1%)               | 40 (<1%)          |
| Total ILI Visits                                 | 410 (100%)           | 439 (100%)           | 17402 (100%)      |

## Other states' influenza information:

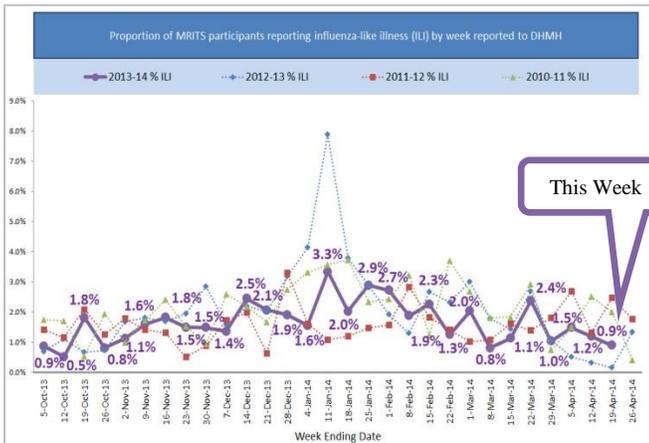
- Delaware <http://dhss.delaware.gov/dph/epi/influenzahome.html>
- District of Columbia <http://doh.dc.gov/service/influenza>
- Pennsylvania [http://www.portal.state.pa.us/portal/server.pt/community/influenza\\_\(flu\)/14161](http://www.portal.state.pa.us/portal/server.pt/community/influenza_(flu)/14161)
- 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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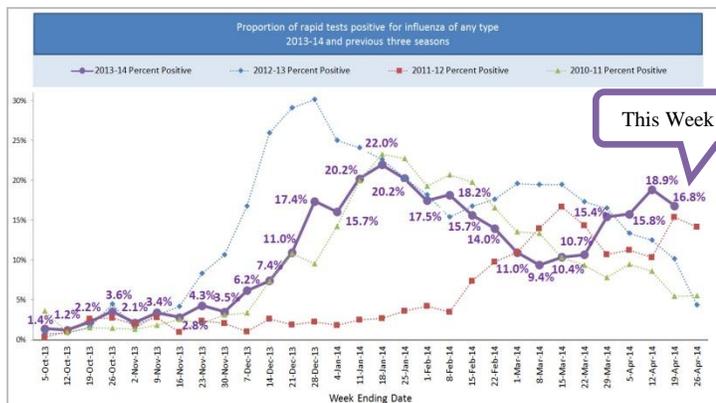
## Community-based Influenza Surveillance (MRITS and Google Flu Trends)

MRITS is the Maryland Resident Influenza Tracking System, a weekly survey for influenza-like illness (ILI). A total of 556 residents responded to the [MRITS survey](#) this week. Of those, 5 (0.9%) reported having ILI and missing a cumulative 8 days of regular daily activities. According to [Google Flu Trends](#), influenza activity is "Low" in Maryland.

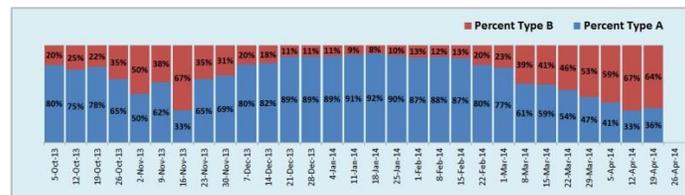


## Clinical Laboratory Influenza Testing

Twenty-eight clinical laboratories reported performing 701 influenza diagnostic tests, mostly rapid influenza diagnostic tests (RIDTs). Of those, 118 (16.8%) were positive for influenza. Of those testing positive, 42 (35.6%) were influenza Type A and 76 (64.4%) 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.

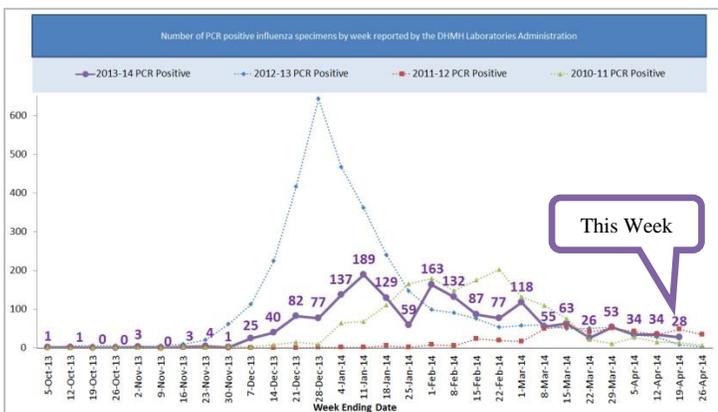


| Positive Rapid Flu Tests by Type | This Week Number (%) | Last Week Number (%) | Season Number (%) |
|----------------------------------|----------------------|----------------------|-------------------|
| Type A                           | 42 (36%)             | 54 (33%)             | 6723 (81%)        |
| Type B                           | 76 (64%)             | 111 (67%)            | 1580 (19%)        |
| Total                            | 118 (100%)           | 165 (100%)           | 8303 (100%)       |



## State Laboratories Administration Influenza Testing

The DHMH Laboratories Administration performed a total of 73 PCR tests for influenza and 28 (38.4%) specimens tested positive. Of those, 1 (3.6%) were Type A (H1N1), 6 (21.4%) were type A (H3N2), and 21 (75.0%) were Type B. 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)                          | 1 (4%)               | 10 (29%)             | 1418 (87%)        |
| Type A (H3)                          | 6 (21%)              | 5 (15%)              | 91 (6%)           |
| Type A (H3N2v)                       | --                   | --                   | --                |
| Type B                               | 21 (75%)             | 19 (56%)             | 113 (7%)          |
| Total                                | 28 (100%)            | 34 (100%)            | 1622 (100%)       |

## Where to get an influenza vaccination

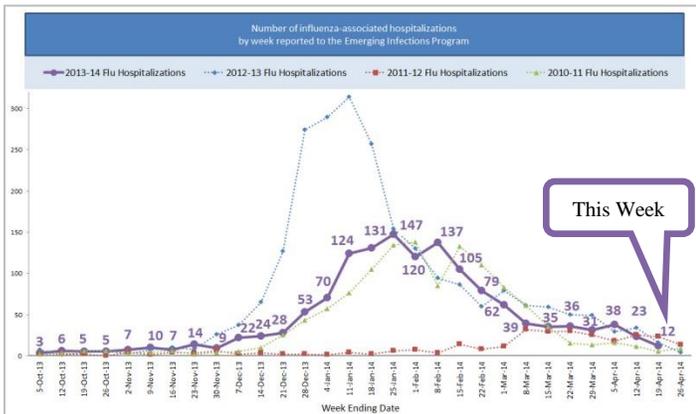
Interested in getting a flu vaccine for the 2013-14 influenza season? Go to <http://dhhm.maryland.gov/flum/d/SitePages/getvaccinated.aspx> and click on your county/city of residence. You will be redirected to your local health department website for local information on where to get your flu vaccine.

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## Influenza-associated Hospitalizations

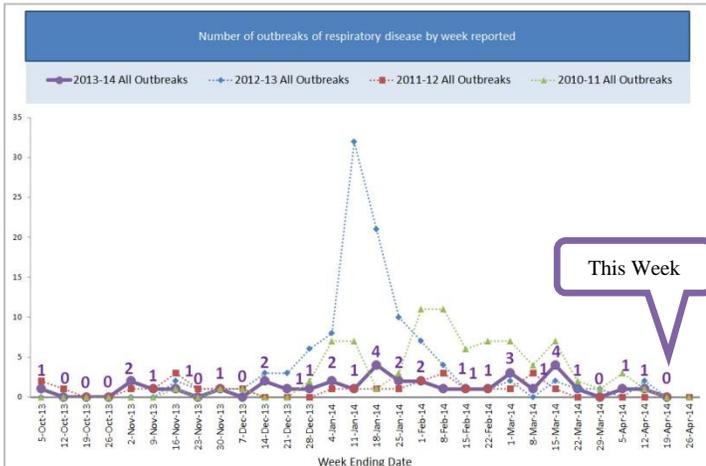
This week, hospitals in Maryland reported 12 influenza-associated hospitalizations. (A person with an overnight hospital stay along with a positive influenza test of any kind, e.g. RIDT or PCR, is considered an “influenza-associated hospitalization” for purposes of influenza surveillance.)



| Influenza-Associated Hospitalizations by Age Group | This Week Number (%) | Last Week Number (%) | Season Number (%)  |
|--|----------------------|----------------------|--------------------|
| Age 0-4  | 0 (0%)               | 2 (9%)               | 128 (9%)           |
| Age 5-17   | 2 (17%)              | 1 (4%)               | 60 (4%)            |
| Age 18-24  | 0 (0%)               | 2 (9%)               | 47 (3%)            |
| Age 25-49  | 0 (0%)               | 6 (26%)              | 358 (26%)          |
| Age 50-64  | 4 (33%)              | 6 (26%)              | 418 (30%)          |
| Age ≥ 65   | 6 (50%)              | 6 (26%)              | 371 (27%)          |
| <b>Total</b>                                       | <b>12 (100%)</b>     | <b>23 (100%)</b>     | <b>1382 (100%)</b> |

## Outbreaks of Respiratory Disease

There were no outbreaks of respiratory disease 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%)             | 20 (57%)          |
| Influenza-like Illness        | --                   | --                   | 8 (23%)           |
| Pneumonia                     | --                   | --                   | 7 (20%)           |
| Other Respiratory             | --                   | --                   | --                |
| <b>Total</b>                  | <b>--</b>            | <b>1 (100%)</b>      | <b>35 (100%)</b>  |

## National Influenza Surveillance (CDC)

- **Viral Surveillance:** Of 5,061 specimens tested and reported during week 16 by U.S. World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NREVSS) collaborating laboratories, 606 (12.0%) 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:** Three influenza-associated pediatric deaths were reported.
- **Influenza-associated Hospitalizations:** A season-cumulative rate of 33.9 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 1.4%, which is below the national baseline of 2.0%. Two of 10 regions reported ILI at or above region-specific baseline levels. One state experienced moderate ILI activity; four states and New York City experienced low ILI activity; 44 states experienced minimal ILI activity, and the District of Columbia and one state had insufficient data.
- **Geographic Spread of Influenza:** The geographic spread of influenza in five states and Guam was reported as widespread; three states reported regional influenza activity; Puerto Rico and 13 states reported local influenza activity; the District of Columbia and 25 states reported sporadic influenza activity, and the U.S. Virgin Islands and four states reported no influenza activity.

