

Delaware Weekly Influenza Report MMWR Week 4 (January 22 - 28, 2017) **Delaware Division of Public Health**

National Influenza Synopsis 2016-2017:

National data are updated Friday of each week. Please visit http://www.cdc.gov/flu/weeklv/ for the most current information. During MMWR Week 4 (January 22 - 28, 2017) influenza activity again increased in the United States. The most frequently identified influenza virus subtype reported by public health laboratories during week 4 was influenza A (H3). The percentage of respiratory specimens testing positive for influenza in clinical laboratories increased. Widespread influenza activity was reported by Puerto Rico and 40 states (Alabama, Alaska, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Texas, Virginia, Washington, Wisconsin and Wyoming). Regional influenza activity was reported by Guam and nine states (Arizona, Colorado, Hawaii, Michigan, North Carolina, Tennessee, Utah, Vermont and West Virginia). Local influenza activity was reported by the District of Columbia and Indiana. No influenza activity was reported by the U.S. Virgin Islands. Both national and state data are provisional and subject to change as additional reports are received.

Delaware Influenza Surveillance 2016-2017:

During MMWR Week 4 there were 127 laboratory-confirmed cases of influenza reported among Delaware residents with a total of 655 for the 2016-2017 season. Reports of influenza-like illness (ILI) received from participating providers, facilities and institutions in Delaware show ILI is 0.32% (Delaware's 2016-2017 baseline is 2.2%). Nationally, ILI is 3.9%, above the national baseline of 2.2%.

Level of Influenza Activity in Delaware, MMWR Week 4:

Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in at least Widespread half the regions of the state with recent laboratory evidence of influenza in the state.

Influenza-like illness (ILI) is defined as patients presenting with fever of 100° F or greater, cough and/or sore throat in the absence of a known cause other than influenza.

No Activity: No laboratory-confirmed cases of influenza and no reported increase in the number of cases of ILI.

Sporadic: Small numbers of laboratory-confirmed influenza cases or a single laboratory-confirmed influenza outbreak has been reported, but there is no increase in cases of ILI.

Local: Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in a single region of the state.

Regional: Outbreaks of influenza or increases in ILI and recent laboratory-confirmed influenza in at least two but less than half the regions of the state with recent laboratory evidence of influenza in those regions.³

Widespread: Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in at least half the regions of the state with recent laboratory evidence of influenza in the state.

¹ 2016-2017 Region 3 (DE, DC, MD, PA, VA and WV) baseline = 2.2%.

² Laboratory-confirmed case = case confirmed by viral culture or PCR.

³ Region = population under surveillance in a defined geographical subdivision of a state. Regions typically include several counties. Regional doesn't apply to Delaware and other states with < four counties.

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> Summary of International Influenza Activity 6

| | rmed Flu s by Subtype / ge | Week 40 | Week 41 | Week 42 | Week 43 | Week 44 | Week 45 | Week 46 | Week 47 | Week 48 | Week 49 | Week 50 | Week 51 | Week 52 | Week 01 | Week 02 | Week 03 | Week 04 | YTD | YTD Total | YTD County % |
|----------------------|----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----|--------------|--------------------|
| | A / 2009 H1N1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | | |
| ш | A / 2012 H3N2 | 0 | 0 | 0 | 2 | 0 | 2 | 3 | 6 | 17 | 12 | 13 | 13 | 21 | 27 | 42 | 42 | 50 | 250 | 655 | |
| STATEWIDE | A / no subtype | 0 | 0 | 1 | 1 | 0 | 0 | 3 | 2 | 4 | 7 | 15 | 26 | 44 | 45 | 60 | 71 | 72 | 351 | | |
| ίΞ) | B / Yamagata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 3 | 5 | 3 | 13 | | |
| STA | B / Victoria | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 3 | | |
| | B / no lineage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 9 | 3 | 9 | 9 | 35 | | |
| | A / 2009 H1N1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | | 54.7% |
| a | A / 2012 H3N2 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 6 | 15 | 11 | 11 | 6 | 14 | 21 | 34 | 37 | 38 | 199 | 358 | |
| astlo | A / no subtype | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 6 | 6 | 5 | 20 | 26 | 28 | 35 | 130 | | |
| New Castle County | B / Yamagata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 3 | 8 | | |
| Ne O | B / Victoria | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 3 | | |
| | B / no lineage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 6 | 7 | 16 | | |
| | A / 2009 H1N1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176 | 26.9% |
| | A / 2012 H3N2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 4 | 3 | 0 | 1 | 2 | 4 | 18 | | |
| Kent County | A / no subtype | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 3 | 6 | 8 | 12 | 23 | 15 | 27 | 23 | 20 | 141 | | |
| Ϋ́S | B / Yamagata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | | |
| | B / Victoria | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | B / no lineage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 3 | 2 | 1 | 16 | | |
| | A / 2009 H1N1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| ~~ | A / 2012 H3N2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 6 | 7 | 3 | 8 | 33 | | |
| Sussex County | A / no subtype | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 8 | 16 | 10 | 7 | 20 | 17 | 80 | 121 | 18.5% |
| Sü | B / Yamagata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 4 | | |
| | B / Victoria | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | B / no lineage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 3 | | |

Table 1a. Influenza positive¹ cases reported² statewide and county, by subtype (A) / lineage (B)³ and MMWR week, Delaware 2016-17

Table 1b. Influenza positive¹ cases reported² statewide and county, by age group and MMWR week, Delaware 2016-17

| | s by Age | Week 40 | Week 41 | Week 42 | Week 43 | Week 44 | Week 45 | Week 46 | Week 47 | Week 48 | Week 49 | Week 50 | Week 51 | Week 52 | Week 01 | Week 02 | Week 03 | Week 04 | YTD | YTD Total | YTD County % |
|----------------------|----------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------|--------------|--------------------|
| | 0-4 years | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 5 | 6 | 12 | 15 | 24 | 24 | 26 | 116 | 655 | |
| STATEWIDE | 5-24 years | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 3 | 6 | 4 | 10 | 13 | 23 | 36 | 42 | 52 | 194 | | |
| ΤEΛ | 25-49 years | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 8 | 5 | 8 | 13 | 14 | 13 | 14 | 25 | 15 | 119 | | |
| STA | 50-64 years | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 2 | 2 | 2 | 7 | 5 | 13 | 14 | 13 | 16 | 19 | 96 | | |
| •, | 65+ years | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 9 | 3 | 4 | 6 | 17 | 20 | 21 | 21 | 23 | 130 | | |
| | 0-4 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 3 | 9 | 12 | 10 | 20 | 58 | | 54.7% 26.9% |
| New Castle County | 5-24 years | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 6 | 4 | 10 | 20 | 26 | 31 | 107 | 358 | |
| v Cast | 25-49 years | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 4 | 4 | 3 | 8 | 8 | 9 | 16 | 7 | 66 | | |
| S C | 50-64 years | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 5 | 2 | 2 | 5 | 8 | 10 | 12 | 50 | | |
| | 65+ years | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 8 | 3 | 4 | 1 | 4 | 12 | 12 | 13 | 14 | 77 | | |
| | 0-4 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 4 | 9 | 6 | 9 | 8 | 4 | 45 | | |
| ± ≥ | 5-24 years | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 1 | 4 | 7 | 8 | 12 | 6 | 11 | 54 | 176 | |
| Kent County | 25-49 years | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 5 | 3 | 2 | 3 | 4 | 5 | 30 | | |
| ŭ | 50-64 years | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 2 | 0 | 4 | 3 | 4 | 4 | 3 | 23 | | |
| | 65+ years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 5 0 | 4 | 4 | 5 6 | 2 | 24 13 | | |
| ×> | 0-4 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 5 | 3 4 | 10 | _∠ 10 | 33 | | |
| Sussex County | 5-24 years | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 5 | 2 | 3 3 | 4 2 | 5 | 3 | 23 | 121 | 18.5% |
| su Su | 25-49 years 50-64 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 7 | 6 | 1 | 2 | 4 | 23 | | |
| | 65+ years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | | 4 | 5 | 3 | | 23 29 | | |

¹ Based on patients with positive nucleic acid or viral culture test results reported to the Division of Public Health.

² Reports are by the date the laboratory results are obtained. As a result, prior weeks' counts may be adjusted to reflect additional cases received.

³ The Division of Public Health Laboratory now has the capability to identify lineage for Influenza B. Since some laboratories in the state do not have this capability, those influenza cases will be categorized as Influenza B, no lineage identified.

MMWR Week 4 = January 22 - 28, 2017

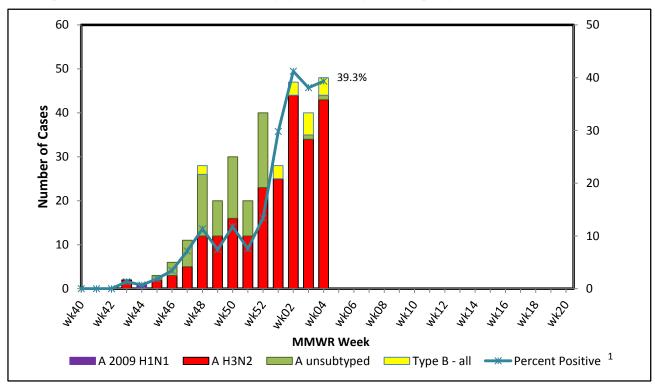


Table 2. Influenza-related hospitalizations statewide and county, by age group and MMWR week, Delaware 2016-17

| | italized Flu s by Age o | Week 40 | Week 41 | Week 42 | Week 43 | Week 44 | Week 45 | Week 46 | Week 47 | Week 48 | Week 49 | Week 50 | Week 51 | Week 52 | Week 01 | Week 02 | Week 03 | Week 04 | YTD | YTD Total | YTD County % |
|----------------------|-------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----|--------------|--------------------|
| | 0-4 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 2 | 1 | 9 | | |
| STATEWIDE | 5-24 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 2 | 4 | 3 | 13 | 154 | |
| Ξ | 25-49 years | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 4 | 2 | 2 | 4 | 3 | 19 | | |
| TA. | 50-64 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 6 | 5 | 3 | 4 | 5 | 26 | | |
| 0) | 65+ years | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 8 | 1 | 3 | 3 | 12 | 13 | 17 | 10 | 15 | 87 | | |
| | 0-4 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 1 | 0 | 6 | | |
| New Castle County | 5-24 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 3 | 3 | 10 | 100 | 64.9% |
| unt | 25-49 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 3 | 1 | 2 | 3 | 2 | 14 | | |
| န္ ၀ | 50-64 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 4 | 2 | 3 | 4 | 16 | | |
| z | 65+ years | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 7 | 1 | 3 | 0 | 4 | 6 | 10 | 7 | 11 | 54 | | |
| | 0-4 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 35 | 22.7% |
| | 5-24 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| Kent County | 25-49 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 3 | | |
| Sor⊾ | 50-64 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 1 | 1 | 1 | 1 | 8 | | |
| | 65+ years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 5 | 4 | 4 | 3 | 1 | 20 | | |
| | 0-4 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| nty | 5-24 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | | |
| Sussex County | 25-49 years | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 19 | 12.3% |
| so | 50-64 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | | |
| 1 | 65+ years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 3 | 3 | 0 | 3 | 13 | | |

Table 3. Influenza-related deaths by MMWR week, Delaware 2016-17

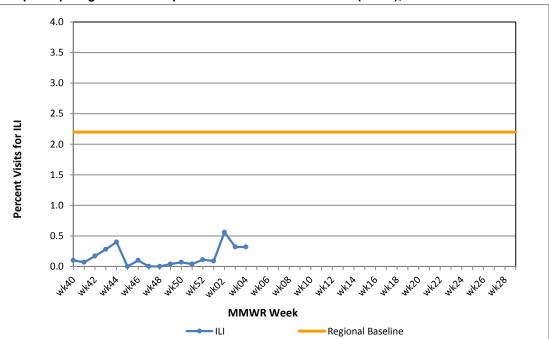
| Influenza- | Week | YTD |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| Related | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 01 | 02 | 03 | 04 | |
| Deaths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 |

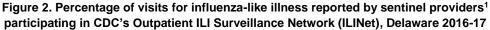
| Influenza Season | Total Annual Influenza Cases |
|-------------------|---------------------------------|
| 2004 – 2005 | 995 |
| 2005 – 2006 | 541 |
| 2006 – 2007 | 508 |
| 2007 – 2008 | 1,401 |
| 2008 – 2009 | 738 |
| 2009 – 2010 | 2,247 |
| 2010 – 2011 | 1,479 |
| 2011 – 2012 | 267 |
| 2012 – 2013 | 1,781 |
| 2013 – 2014 | 1,842 |
| 2014 – 2015 | 2,390 |
| 2015 – 2016 | 2,251 |
| 2016 – 2017 (YTD) | 655 |

Table 4. Numbers of influenza cases reported by flu season, Delaware 2004-05 through 2016-17

U.S. Outpatient Influenza-Like Illness Surveillance Network (ILINet) Sentinel Providers

An ILINet (sentinel) provider conducts surveillance for influenza-like illness (ILI) in collaboration with the Division of Public Health and the Centers for Disease Control and Prevention (CDC). Data reported by ILINet providers, in combination with other influenza surveillance data, provide a national and statewide picture of influenza activity in the U.S.





¹ Thirteen of 18 sentinel providers reported.

² Regional baseline is calculated by CDC using non-influenza weeks from the previous three influenza seasons. Delaware is in Region 3 that also includes DC, MD, PA, VA and WV.

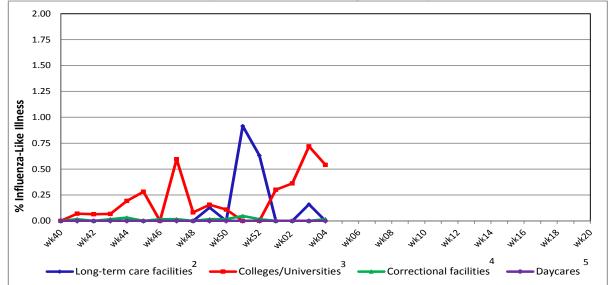


Figure 3. Influenza-like illness reported by ILI surveillance reporting partners¹ by MMWR week, Delaware 2016-17

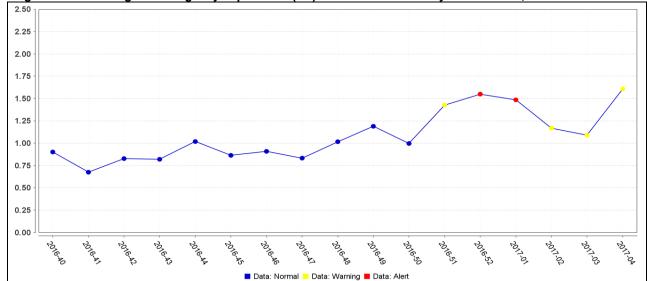
¹ ILINet reporting partners include long-term care facilities, colleges / universities, correctional facilities and daycare facilities.

² % ILI= percentage of residents with ILI symptoms Seven long-term care facilities reported.

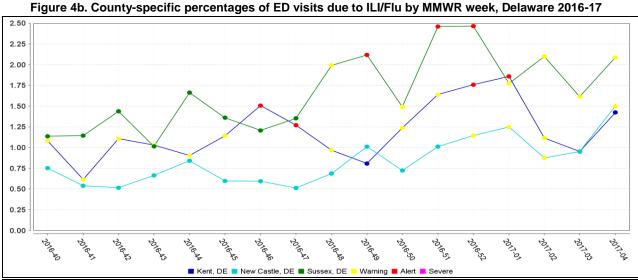
³ % ILI= percentage of student visits for ILI; Three universities reported.

⁴ % ILI= percentage of visits for ILI at the correctional facility; Nine correctional facilities reported.

 5 % ILI= percentage of children absent with ILI; No daycare providers reported.







Summary of International Influenza Activity

Influenza activity in the temperate zone of the northern hemisphere continued to increase, with many countries especially in East Asia and Europe having passed their seasonal threshold early in comparison with previous years. Worldwide, influenza A(H3N2) virus was predominant. The majority of influenza viruses characterized so far was similar antigenically to the reference viruses contained in vaccines for use in the 2016-2017 northern hemisphere influenza season.

In North America, influenza activity continued to increase with influenza A(H3N2) virus predominating. In the U.S., influenza-like illness (ILI) levels were above the seasonal thresholds and respiratory syncytial virus (RSV) activity continued to be reported.

In the Caribbean countries and Central America, influenza and other respiratory virus activity remained low in general. In tropical South America, influenza and other respiratory viruses activity remained low.

In Europe, influenza activity was high, with influenza A (H3N2) virus being the most prominent subtype. Persons aged over 65 years were most frequently associated with severe disease from influenza infection.

In Western Asia, influenza activity slightly increased. In East Asia, high influenza activity continued to be reported with influenza A(H3N2) viruses predominant. In Southern Asia influenza activity remained low in most of the countries. Detection of influenza A (H3N2) virus continued to be reported by the Islamic Republic of Iran and Sri Lanka. In South East Asia, influenza activity remained low, with influenza A(H3N2) virus and influenza B predominating in the region.

In Northern Africa, influenza detections continued to be reported in Morocco and Tunisia with influenza A(H3N2) virus dominating. In West Africa, influenza continued to be detected in Ghana with B viruses dominating.

In the temperate zone of the Southern Hemisphere, influenza activity was at inter-seasonal levels.

Reference: World Health Organization (WHO), 2017. Influenza update number 281 (1/23/17). Retrieved January 27, 2017, from http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/. Reports are updated biweekly.

NOTE: The data provided do not reflect the total number of individuals who have been infected with the influenza virus in Delaware during the reporting period due to the following factors:

- > Many people ill with influenza-like symptoms do not seek medical care.
- > Many who do seek medical care are not tested for influenza.
- The Delaware Public Health Laboratory is limited by capacity to processing a maximum of three specimens per day from each reporting entity.

The Delaware Division of Public Health (DPH) is committed to serving you better by providing the most accurate, up-to-date influenza data available.

- For general information on influenza, visit <u>flu.delaware.gov</u> or <u>http://dhss.delaware.gov/dhss/dph/dpc/immunize-flu.html</u>.
- For specific information on DPH flu clinics, visit <u>http://dhss.delaware.gov/dhss/dph/fluclinics.html</u>.
- ▶ For questions on Delaware's weekly flu report, call the DPH Office of Infectious Disease Epidemiology: 302-744-4990.
- ▶ For questions regarding influenza vaccination, please call 302-744-1060.