

Stark County's Influenza Weekly Report

Week 1 (12/31/2017-1/6/18)



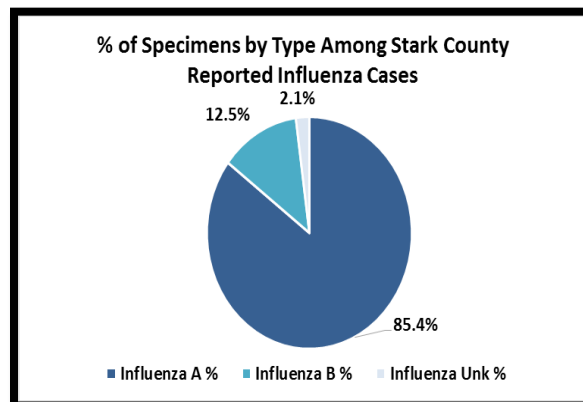
Public Health
Prevent. Promote. Protect.

During Week 1:

- Stark County had 84 additional influenza-associated hospitalizations.
- Nationally, seven influenza-associated pediatric deaths reported, zero were from Stark County.
- During week 1, 1,398 influenza A specimens were collected nationally from public health laboratories, which made up 86% of all positive specimens; 84.9% subtyped as H3N2, 11% as H1N1, and the remainder were not subtyped.

So Far this Year:

- There have been 244 influenza-associated hospitalizations in Stark County.
 - Those hospitalized for influenza have ranged from 3 weeks old to 100 years of age, with the median being 72 years.
- A cumulative rate of 22.7 laboratory-confirmed influenza-associated hospitalizations per 100,000 population was reported.
- Up to week 1, 10,872 specimens collected nationally from public health laboratories were typed influenza A. This was 87.2% of all specimens collected. Of these, 8.8% subtyped as the 2009 H1N1 virus, 89.9% subtyped as the H3 virus, and subtyping was not performed on the rest of them.

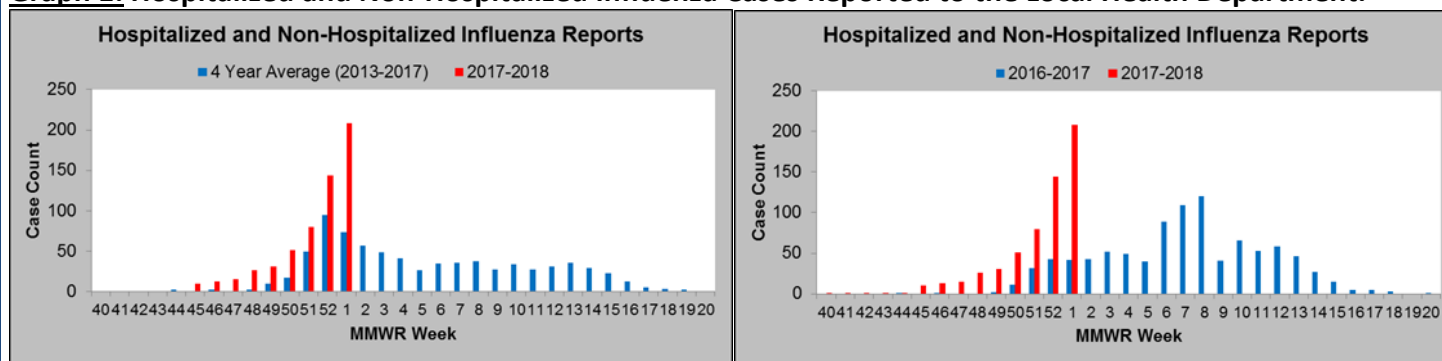


- Nationally, twenty influenza-associated pediatric deaths were reported so far this year. Last year, at the same time, there were three deaths reported for the season and all occurring in week 1.
- One human infection with a novel influenza A virus (H1N1v) was reported from Iowa during week 46.

Viruses Circulating vs. Viruses in this Year's Vaccine:

- Nationally since October 1, 2017, 612 influenza viruses were characterized as Influenza A.
 - There were 474 influenza A(H3N2) viruses collected. 98.2% of those antigenically characterized matched the influenza A (H3N2) component in this year's vaccine. There were 138 influenza A (H1N1) viruses collected; all of those characterized matched the influenza A (H1N1) component in this year's vaccine.
- Nationally since October 1, 2017, 224 influenza viruses were characterized as Influenza B.
 - Of these, 198 subtyped from the Yamagata Lineage and 26 subtyped from the Victorian Lineage. Of these specimens, 100% of the Yamagata Lineage matched the Influenza B component of the 2017-2018 vaccine and 71.4% of the Victorian Lineage matched.

Graph 1: Hospitalized and Non-Hospitalized Influenza Cases Reported to the Local Health Department.



- ◆ There were a total of 208 cases of hospitalized and non-hospitalized influenza reported for Week 1 in Stark County. Last year there were 42 cases reported this week. Stark County increased to 861 cases reported so far this year, compared to 132 cases reported so far last year.

* All data presented in this weekly report are preliminary and may change as additional information is received.

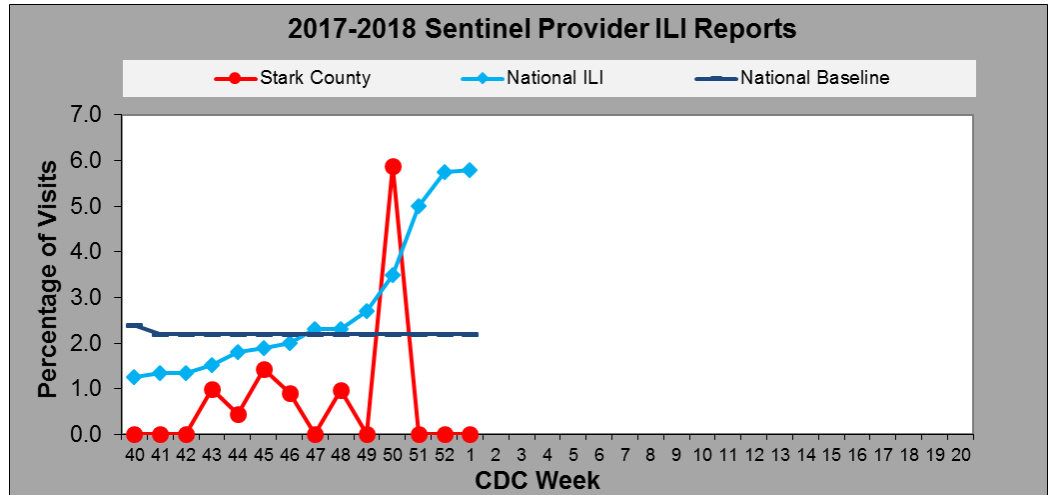
* Multiyear averages included in this weekly report do not include the 2009/2010 H1N1 season.

➢ If you have any questions please contact Avi Joseph at 330.493.9914 or josepha@starkhealth.org or Amanda Archer at 330.489.3327 or aarcher@cantonhealth.org

Graph 2: Sentinel Provider Reported Influenza Like Illness (ILI) in Stark County.

- During week 1, Stark County Sentinel Providers did not report. Nationally, it was reported that 5.8% of visits were for ILI, which continues to be above the national baseline of 2.2% of visits.

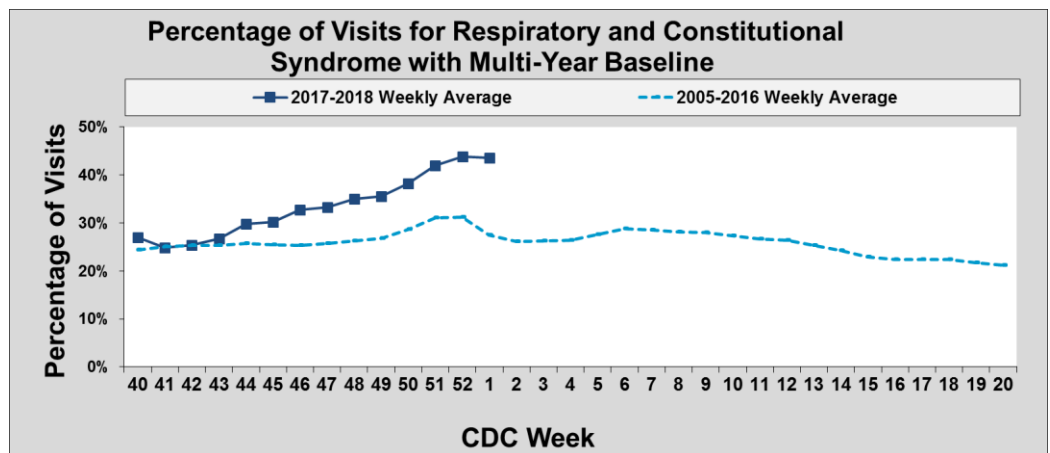
Chart is updated to reflect data received from Sentinel Providers from previous weeks.



Graph 3: Emergency Department Visits for Respiratory and Constitutional Syndromes.

(Source: Health Monitoring Systems, EpiCenter, Hospital and Stat Care Patient Registration Surveillance System)

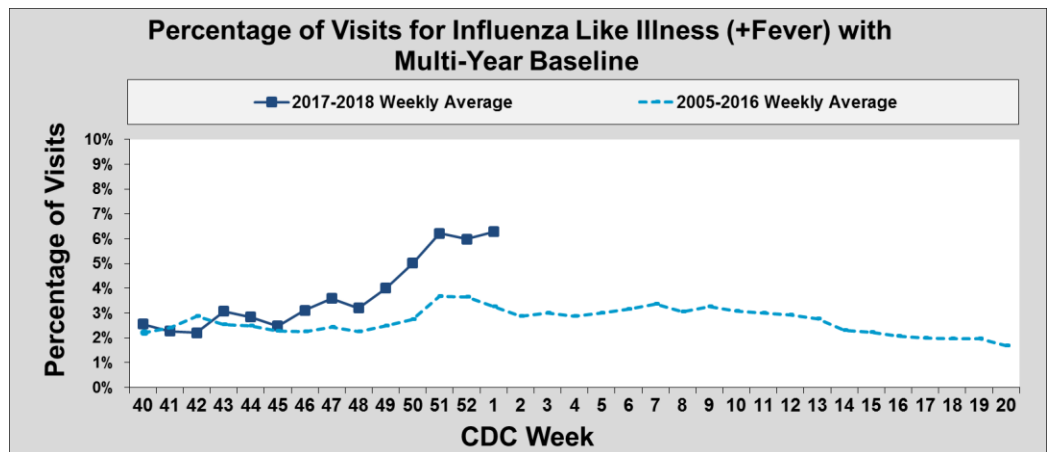
- ED and Stat Care visits for respiratory and constitutional syndrome show a slight down tick for the first time this season and continue to remain above the multi-year baseline average during week 1.



Graph 4: Emergency Department (ED) Visits for Influenza Like Illness (+Fever).

(Source: Health Monitoring Systems, EpiCenter, Hospital and Stat Care Patient Registration Surveillance System)

- ◆ ED and Stat Care visits for ILI + Fever for MMWR week 1 show a similar percentage from the previous week, appear to have leveled out, but continue to remain above the multi-year average.



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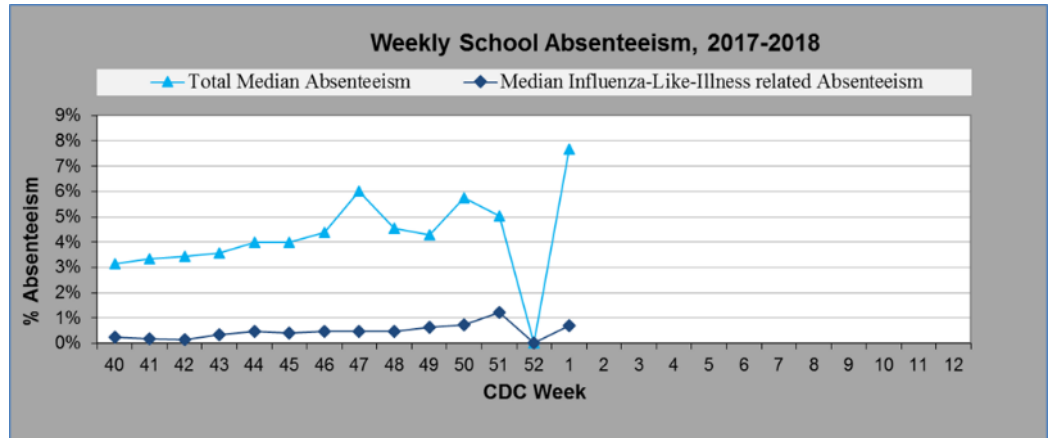
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Graph 5: Stark County School Absenteeism.

(Source: Voluntary reporting by multiple school districts throughout the county)

◆ During week 1, there were 39 school absenteeism reports submitted. Of those, the total median absenteeism increased significantly compared to previous weeks. (It should be noted that many schools were closed for one or more days due to bad weather during week 1). Those absent specifically with influenza-like-illness continue to show consistent reporting with less than 1% of total absenteeism.



Map: Weekly Geographic Influenza Activity Estimates Reported by State and Territorial Epidemiologists Syndromes.

(Source: Health Monitoring Systems, EpiCenter, hospital and stat care patient registration surveillance system)

◆ During week 1, Ohio's influenza activity maintained as widespread, along with 49 other states. Hawaii was the only state reporting less than widespread activity, with their local activity.



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