

Stark County's Influenza Weekly Report

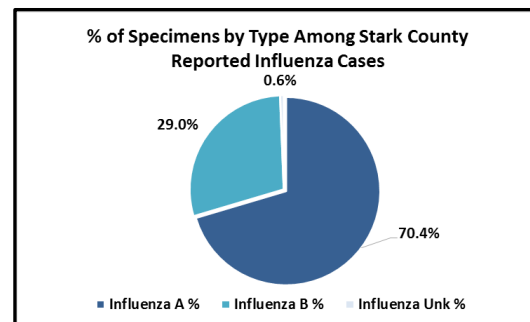
Week 17 (4/22/18-4/28/18)



Public Health
Prevent. Promote. Protect.

During Week 17:

- During Week 17, Stark County had 5 influenza-associated hospitalizations.
- Nationally, there were 3 influenza-associated pediatric deaths reported.
- There were no human infections with a novel influenza A virus reported during Week 17.
- During Week 17, 39 influenza A specimens were collected nationally from public health laboratories, which made up 28.9% of all positive specimens; 53.8% subtyped as the 2009 H1N1 virus, 38.5% subtyped as the H3 virus, and the remainder not subtyped.



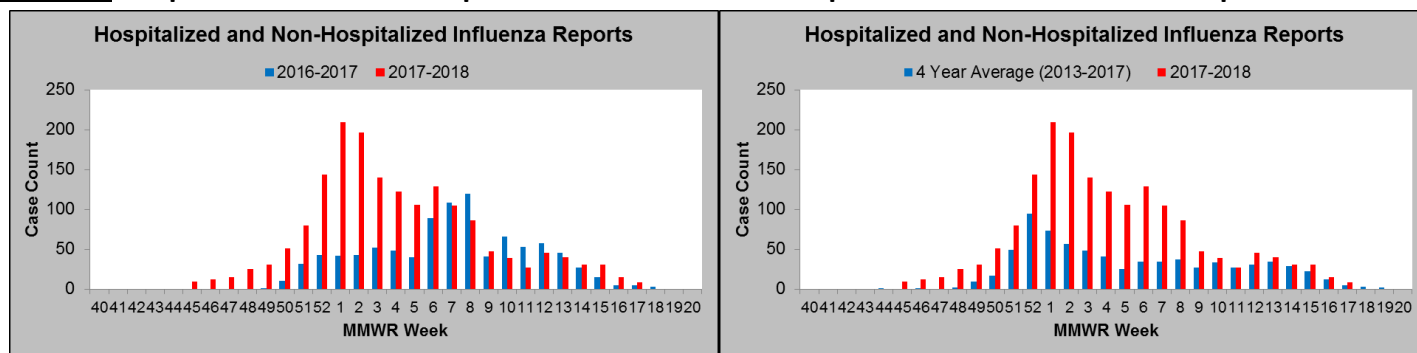
So Far this Year:

- There have been 700 influenza-associated hospitalizations so far this year in Stark County.
 - Ages of those hospitalized for influenza have ranged from 1 month to 100 years of age with the median age being 71 years old.
- A cumulative rate of 106.0 lab-confirmed influenza-associated hospitalizations per 100,000 people was reported.
- Up through Week 17, 51,906 specimens were collected nationally from public health laboratories. 37,368 were typed as influenza A, comprising 72.0% of all specimens collected. Of these 14.6% were subtyped as the 2009 H1N1 virus while 83.7% were subtyped as the H3 virus.
- Nationally, there have been 163 influenza-associated pediatric deaths reported so far this year. Last year at the same time, there were 103.

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

- Nationally since October 1, 2017, 1,961 influenza A specimens were genetically or antigenically characterized.
 - There were 1,225 influenza A (H3N2) viruses collected, a sample showing significant genetic diversity. 95% of those antigenically characterized matched the influenza A (H3N2) component in this year's vaccine. There were 736 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, 981 influenza B specimens were genetically or antigenically characterized.
 - Of these, 663 were antigenically characterized from the Yamagata Lineage and 180 characterized from the Victorian Lineage. Of these specimens, 100% of the Yamagata Lineage matched the Influenza B component of the 2017-2018 vaccine and 24% of specimens from the Victorian Lineage matched.

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



- ◆ There were 9 cases of hospitalized and non-hospitalized influenza reported for Week 17 in Stark County. Last year at this time there were 5 cases. Stark County's cumulative case load is 1,756 cases, compared with 950 total cases through Week 17 of last year.

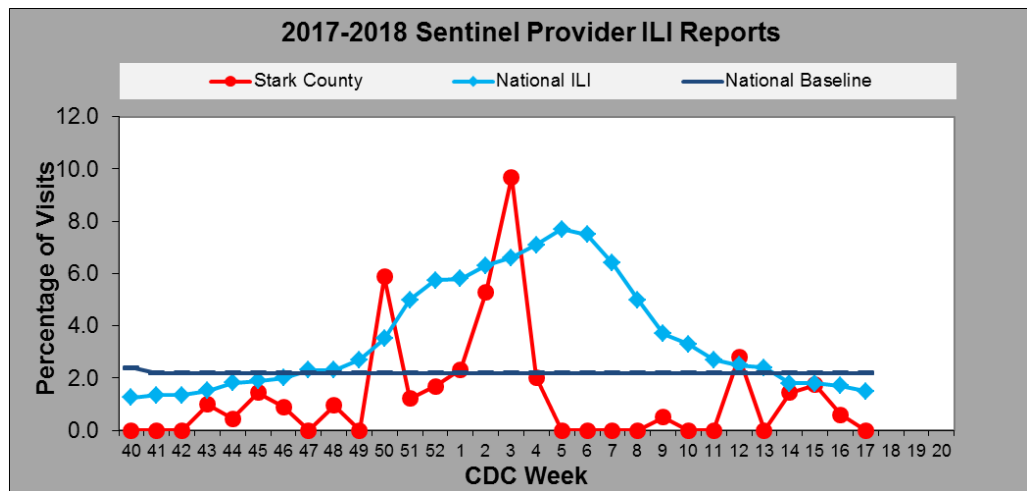
* All data presented in this weekly report are preliminary and may change as additional information is received.

* 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.

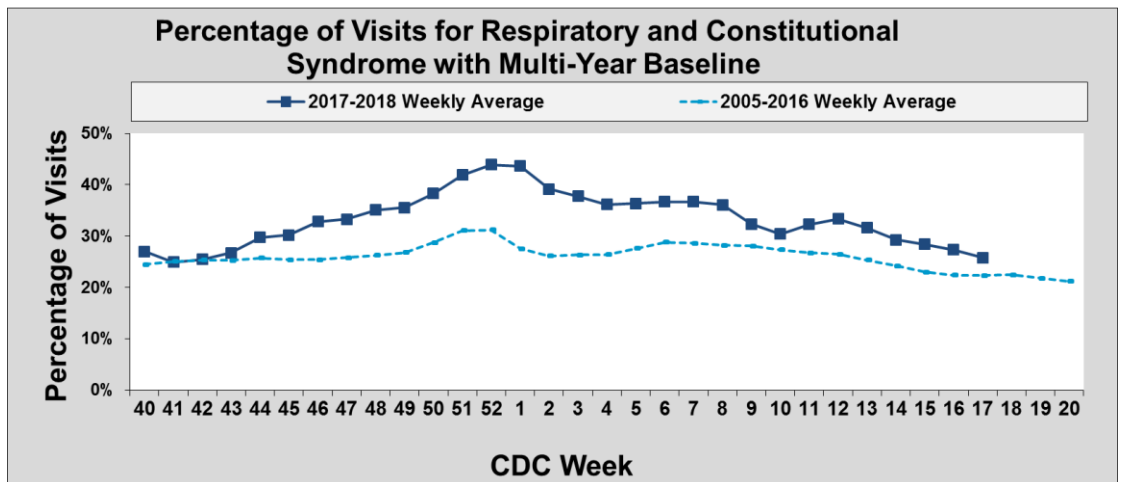
- ◆ During Week 17, Stark County Sentinel Providers did not report visits for ILI. Nationally, it was reported that 1.5% of visits were for ILI, which is below the national baseline at 2.2% of visits.



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

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

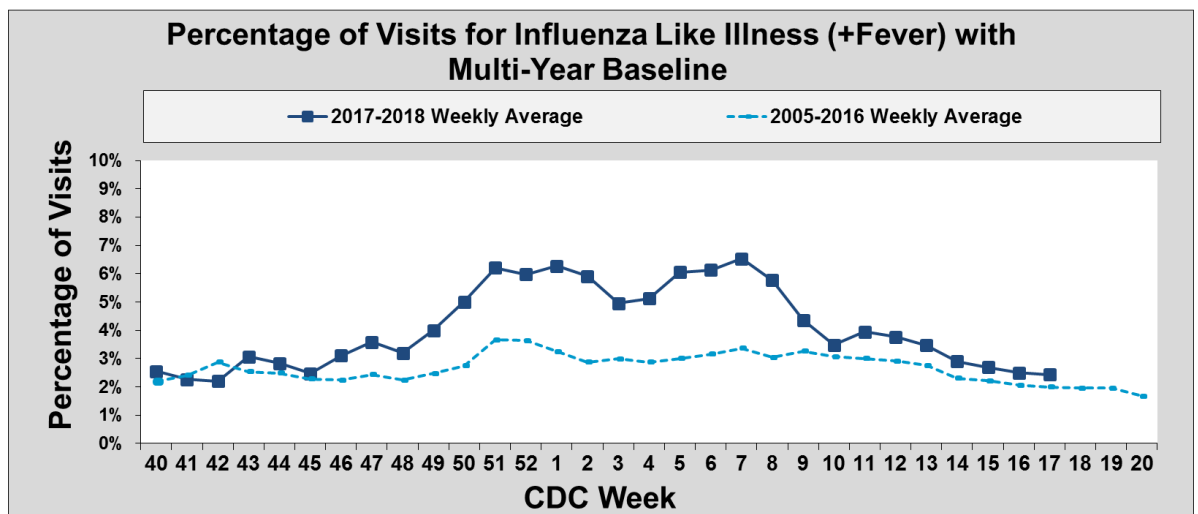
- ◆ ED and Stat Care visits for respiratory and constitutional syndrome decreased but continue to remain above the multi-year baseline average during Week 17.



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 17 decreased slightly but remained above the multi-year average.



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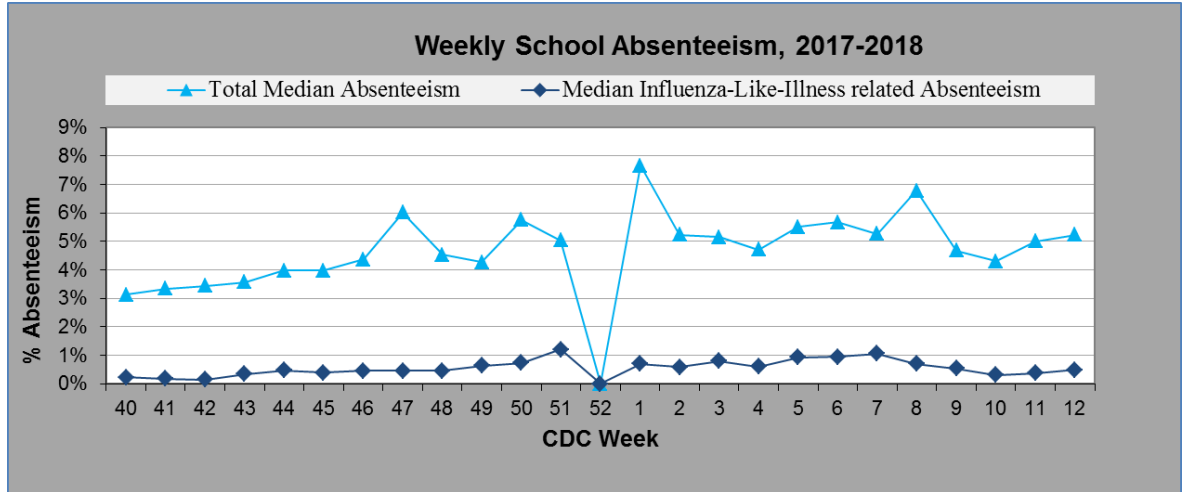
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Graph 5: Stark County School Absenteeism.

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

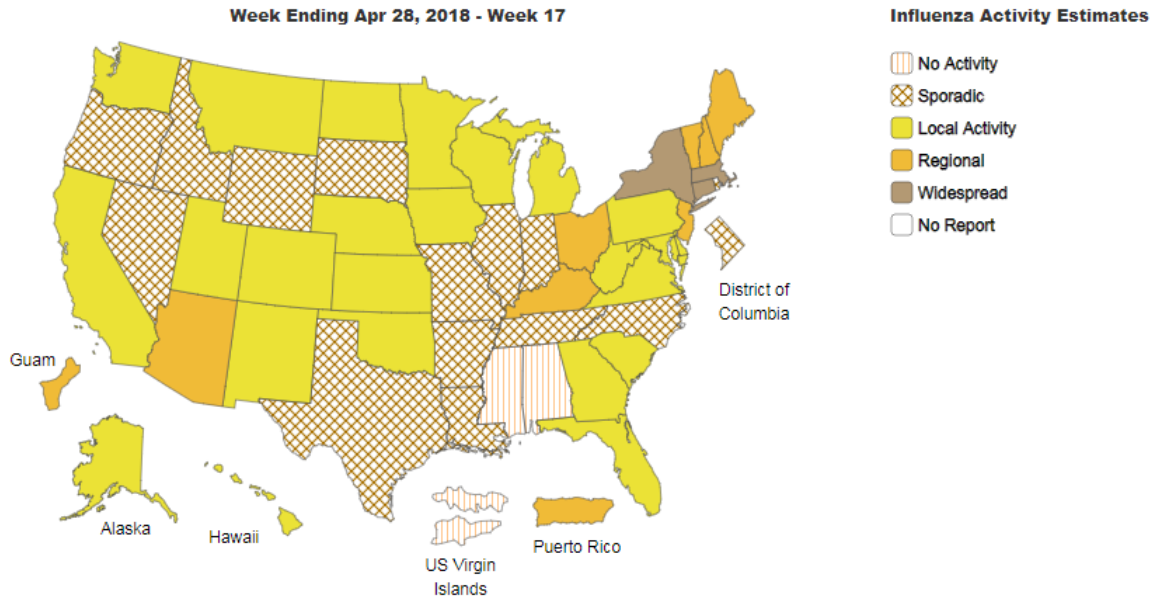
◆ School absenteeism finished reporting for the 2017-2018 influenza season.



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 17, Ohio was designated as having regional influenza activity, the second highest measure of spread. Only 3 states reported widespread activity.



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